

General Catalogue

Solenoid Valves for Fluid Control

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker

ENGINEERING YOUR SUCCESS.

Who we are?

The Fluid Control Solutions Europe (FCSE) Business Unit is part of the Fluid and Climate Controls Division Europe (FCCE) of Parker Hannifin, the global leader in Motion and Control Technologies. FCSE core competences are the development and manufacturing of an extremely diverse range of fluid control products, including solenoid valves and pressure regulators.

Where we are?

Our European headquarters are located in Gessate (Milan-Italy) , this is also where our R&D, Marketing, Application Support and Product Management functions are located.
Our Products are mainly manufactured in Gessate (Milan - Italy). The Parker Sales Companies and comprehensive distribution network support you, wherever you are.

History

Parker FCSE has been a leading player in the manufacturing and development of solenoid valve technologies for over 60 years, with continuous research and development bringing innovative solutions to the marketplace, for example leading the way in the utilisation of synthetic ruby for critical water applications or the unsurpassed reliability and precision of our pressure regulators. The expertise accumulated and developed through the years is evident in the superior quality of FCSE solutions.

Markets

Our products and solutions are typically designed for markets including Industrial Equipment, Industrial Automation, Mobile, Transportation, Life Sciences, Beverage dispensing and for Fluid and Process Control.

Benefits

The modular concept of our products, having separate solenoid valves and electrical parts, provides the customer with increased flexibility by allowing numerous combinations. This additional flexibility can enable distributors to greater reduce valve inventory levels, whilst retaining the same number of capabilities. Parker also has unrivalled experience in developing customised product solutions complying with the highest technical, environmental, energy and service life requirements.

WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.



FCSE HEADQUARTER - GESSATE (MI) - ITALY

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A COMPLETE RANGE OF SOLENOID VALVES FOR FLUID CONTROL

2 WAY VALVES

- For dry or lubricated air, neutral gases and liquids
- For water and neutral liquids
- Anti water hammer
- Hot water and steam
- For hydraulic oil and neutral liquids (Max. 100 bar)
- High corrosion resistant
  (303 Stainless Steel)
  (316L Stainless Steel)
- Oil burner
- Fast switching
- Liquipure® for beverage dispensing



3 WAY VALVES

- For dry or lubricated air
- For hydraulic oil and neutral liquids (Max. 75 bar)
- High corrosion resistant
  (303 Stainless Steel)
- Liquipure® for beverage dispensing



2 & 3 WAY VALVES FOR TRANSPORTATION

- 2 way- direct and piloted
- 3 way- direct operated



3&5 WAY DISTRIBUTORS FOR PNEUMATIC APPLICATIONS

- Pipe mounted/ Sub-base mounting



3 & 5 WAY PNEUMATIC DISTRIBUTORS FOR ACTUATION CONTROL

- Pipe mounted
- NAMUR interface
- 316L Stainless Steel
  (Pipe mounted and with NAMUR interface)



COILS & ELECTRICAL PARTS

- Coils
- Housings
- Explosion-Proof Electrical Parts



EPP4 SERIES ELECTROPNEUMATIC PRESSURE REGULATORS

- Basic
- Comfort
- Comfort ATEX



A MODULAR CONCEPT FOR EVERY APPLICATION

CHOOSE BETWEEN:

Actuation Modes

- Direct Operated
- Magnalift
- Pilot Operated
- Manual Reset
- Externally Operated

Material Types

- Brass
- 303 Stainless St.
- 316L Stainless St.
- Anodized Aluminium
- Zinc Alloy
- POM

Mounting Solutions

- Pipe
- Sub-base
- NAMUR
- Banjo
- CETOP
- ISO

Control Functions

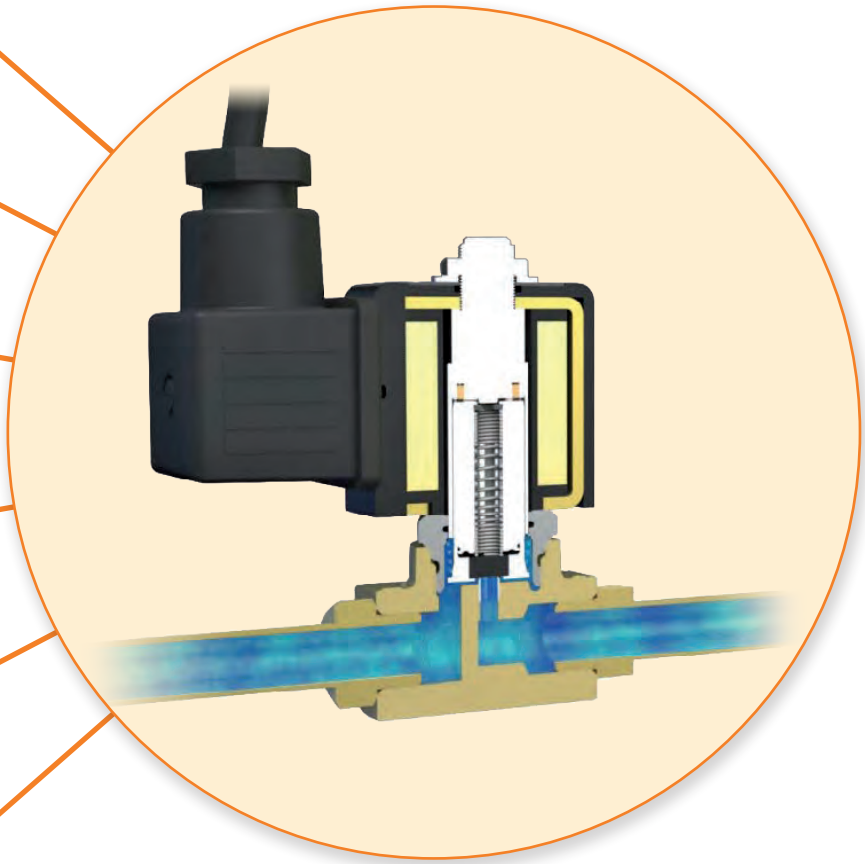
- Normally Closed
- Normally Open
- Universal
- Control by Electric Impulse
- Dual Solenoids
- PWM

Internal Design

- Piston
- Poppet
- Diaphragm
- Spool

Seals

- FKM
- NBR
- EPDM
- Ruby
- PUR
- PCTFE...



ELECTRICAL PART ATEX CERTIFICATION

A selection of electrical parts conform to the terms of the 2014/34/EU directive and are made for potentially explosive environments - zone 0/20, 1/21 and 2/22.

Within the coil section, the presence of the ATEX logo shows that the coil is ATEX approved.

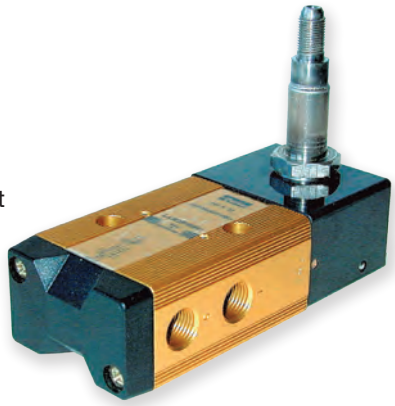


PRESSURE VESSELS ATEX CERTIFICATION

A selection of pressure vessels conform to the terms of the 2014/34/EU directive specific to non electrical equipment for use within potentially explosive environments - zones 0/20, 1/21 and 2/22.

NAMUR & piped valve ranges now include a marking which indicates mechanical ATEX approval.

Within the valve section, the presence of the ATEX logo shows that the valve is ATEX approved.



SOLENOID VALVE CERTIFICATION

When both the electrical and mechanical part are ATEX approved, the solenoid valve can be used in explosive atmospheres.

The solenoid valve can be delivered assembled and tested.



FCSE IS MEETING WORLD CLASS STANDARDS

QUALITY STANDARDS:

- ISO 9001
- ISO 14001
- OHSAS 18001



CERTIFICATIONS AND APPROVALS:

Our products have been approved and are compliant with the relevant market requirements including:

- CE
- ATEX
- RoHS
- UL
- REACH
- IECEx
- CSA
- DIN-TUV
- AGA
- NEPSI
- KOSHA
- IMQ
- NSF
- VDE
- Ex EAC

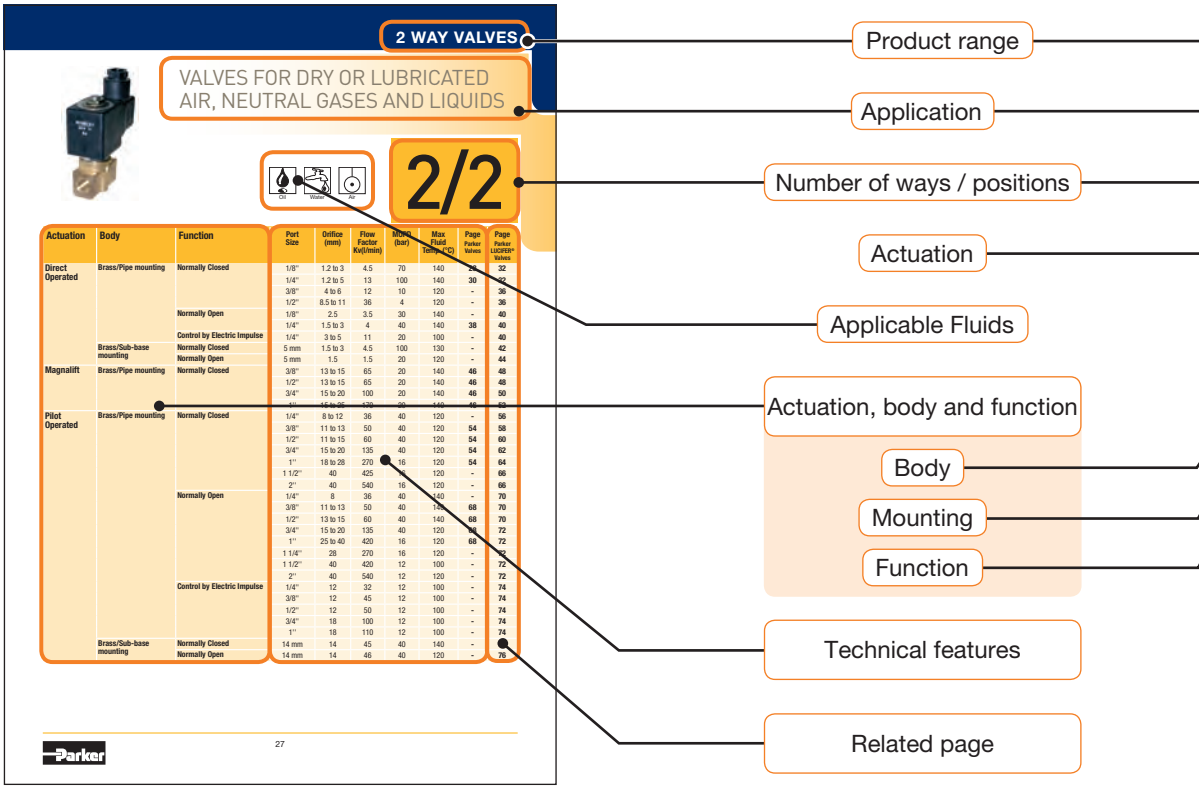
HOW TO USE THIS CATALOGUE

This catalogue is a comprehensive list of Parker Solenoid Valves program. It will help to identify appropriate valves and coils and enable the user to generate ordering numbers.

This catalogue is split product range. You will find a summary page at the beginning of each valve section. For ease of use, each valve section is divided by application.

On the first page of each Application section, you will find an overview of the products within and their technical characteristics, to guide you to the relevant page (example below):

SECTION SUMMARY PAGE



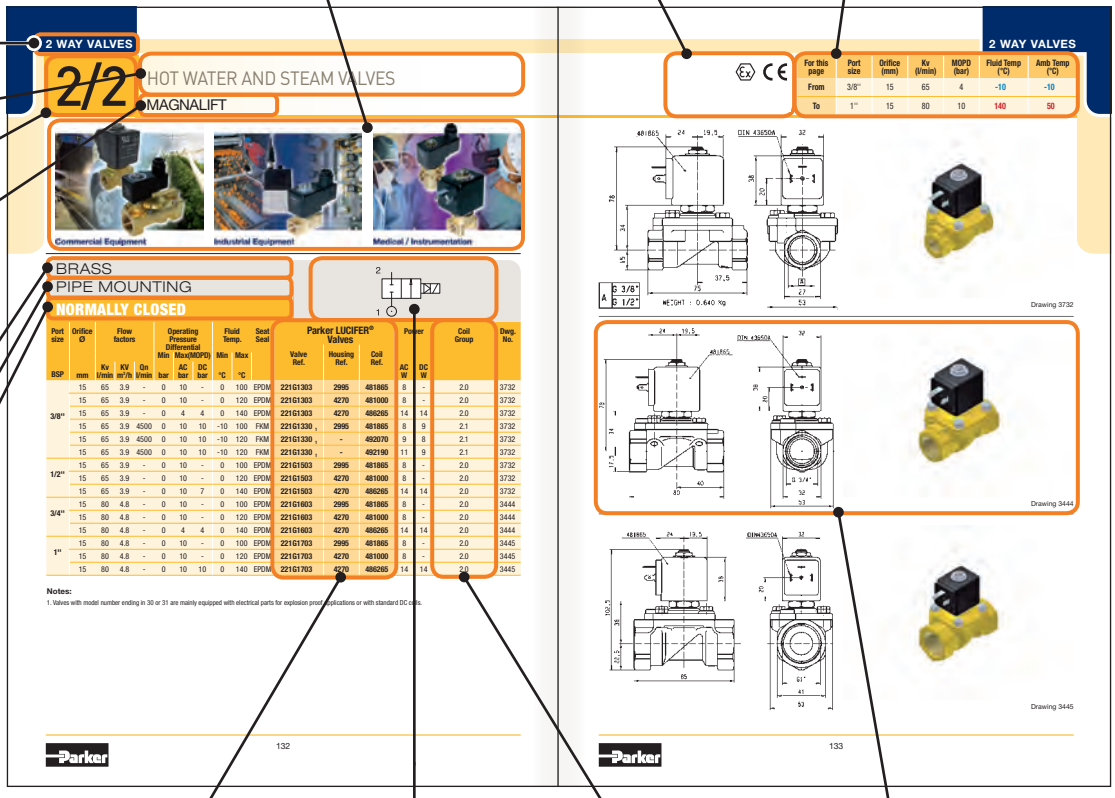
For further technical information regarding Actuation, Body and Function, please refer to the technical information section at the end of the catalogue.

Applicable **Markets** for this valve category

Applicable **Approvals** within this page

Quick selection table with Min/Max values for all valves on the page

SECTION PRODUCT PAGE



Ordering information

ISO 1219 Symbol

A choice of **Coil Groups** compatible with the selected valve.

Dimensional 2D* and 3D drawings

* 2D drawing shown always corresponds to the standard coil.

HOW TO SELECT A VALVE

Once you are in the selected range 1 and application 2 The table is designed to help you navigate to the products matching your criteria.

First decide the actuation 3, then move accross the table selecting your body material 4, function 5 and technical requirements 6.

After you have found products fitting within your specification, please go to the corresponding page number in the final column 7, here you will find a selection of products that match your criteria.

1 SELECT PRODUCT FAMILY

2 SELECT APPLICATION

3 SELECT ACTUATION

4 SELECT BODY

5 SELECT FUNCTION

6 SELECT TECHNICAL DATA

7 SELECT CORRESPONDING PAGE

1

2 WAY VALVES



VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

2

Oil Water Air

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8''	1.2 to 3	4.5	70	140	28	32
			1/4''	1.2 to 5	13	100	140	30	32
			3/8''	4 to 6	12	10	120	-	36
			1/2''	8.5 to 11	36	4	120	-	36
		Normally Open	1/8''	2.5	3.5	30	140	-	40
			1/4''	1.5 to 3	4	40	140	38	40
		Control by Electric Impulse	1/4''	3 to 5	11	20	100	-	40
	Brass/Sub-base mounting	Normally Closed	5 mm	1.5 to 3	4.5	100	130	-	42
		Normally Open	5 mm	1.5	1.5	20	120	-	44
Magnalift	Brass/Pipe mounting	Normally Closed	3/8''	13 to 15	65	20	140	46	48
			1/2''	13 to 15	65	20	140	46	48
			3/4''	15 to 20	100	20	140	46	50
			1''	15 to 25	170	20	140	46	52
Pil	Brass/P ting	Normally	1/4''	8 to 12		40	120	-	
			3/8''	11 to 13		0	120	54	
			1/2''	11 to 15		0	120	54	
			3/4''	15 to 20		40	120	54	
			1''	18 to 28	270	16	120	54	64
			1 1/2''	40	425	16	120	-	66
			2''	40	540	16	120	-	66
		Normally Open	1/4''	8	36	40	140	-	70
			3/8''	11 to 13	50	40	140	68	70
			1/2''	13 to 15	60	40	140	68	70
			3/4''	15 to 20	135	40	120	68	72
			1''	25 to 40	420	16	120	68	72
			1 1/4''	28	270	16	120	-	72
			1 1/2''	40	420	12	100	-	72
			2''	40	540	12	120	-	72
		Control by Electric Impulse	1/4''	12	32	12	100	-	74
			3/8''	12	45	12	100	-	74
			1/2''	12	50	12	100	-	74
			3/4''	18	100	12	100	-	74
			1''	18	110	12	100	-	74
	Brass/Sub-base mounting	Normally Closed	14 mm	14	45	40	140	-	76
		Normally Open	14 mm	14	46	40	120	-	76

3 4 5 6 7

HOW TO ORDER
PARKER SOLENOID VALVES

A SOLENOID VALVE IS COMPOSED OF 3 ELEMENTS:

The **Valve** (1) + **Housing** (2) + **Coil** (3)

1. Choose the valve reference
2. Choose the housing
3. Choose the coil

(1) Choose the Valve Reference

Valve Ref.
121K3206
121K3206
121K3206

(2) Select the housing depending on the protection level (IP 44 to IP 67 found in the coil section)

Housing Ref.
2995
4270
4270

2 WAY VALVES

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.				
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
1/2"	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K46	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427

Notes:
1. Valve compatible with water only up to 40°C
2. With manual override

36

For a given valve, several coil types are being suggested.

For a wider choice, the selected valve is also compatible with every other coil from the same coil group.

Parker coils are available in many different voltages.
Choose the one you need by putting the voltage code at the end of your ordering number.

3 Choose the coil and voltage code

Coil Ref.

481865

VAC/Hz	Voltage Code
24/50	A2
48/50	A4
110/50	A5
220-230/50	3D

Valve and coil order example:

1 - 2 - 3

121K3206 - 2995 - 481865A2

Valve Reference | Housing | Coil and Voltage Code

COILS

COIL GROUP **2.0/2.1**

COILS FOR DIN PLUG CONNECTION

COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Standard	Double frequency
Ref. (without DIN plug) Ref. (with DIN plug)			481865 482725	483510 482635
Coil Group			2.0 / 2.1	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	9 W	-
		P (cold) 20°C	12 W	-
	AC	Pn (holding)	8 W	9 W
		Attraction cold	26 VA (9 W)	32 VA (10 W)
Weight			130 g (without plug)	

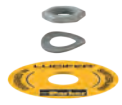
Voltages "Un"	VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un	24/50	A2	24	C2	24/50, 24/60	P0
	48/50	A4	48	C4	48/50, 48/60	S4
	110/50	A5	110	C5	110-115/50, 120/60	S5
	220-230/50	3D			220-240/50, 240/60	S6

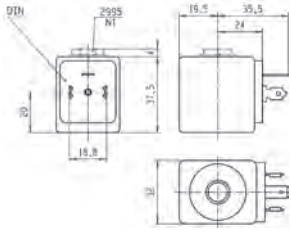
To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = **481865C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing" of Lucifer® valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





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IMPORTANT: Valve, Housing or Coil shall be ordered separately. In case you would require configured products, please consult your Parker contact or the PH Connect to determine available configurations.

HOW TO USE COIL GROUPS

WITHIN A VALVE PAGE

One of Parker's strengths is the modularity, adaptability and flexibility of our products.
When you select a solenoid valve, the coils displayed in the table have been chosen as they will fulfill the majority of application requirements.

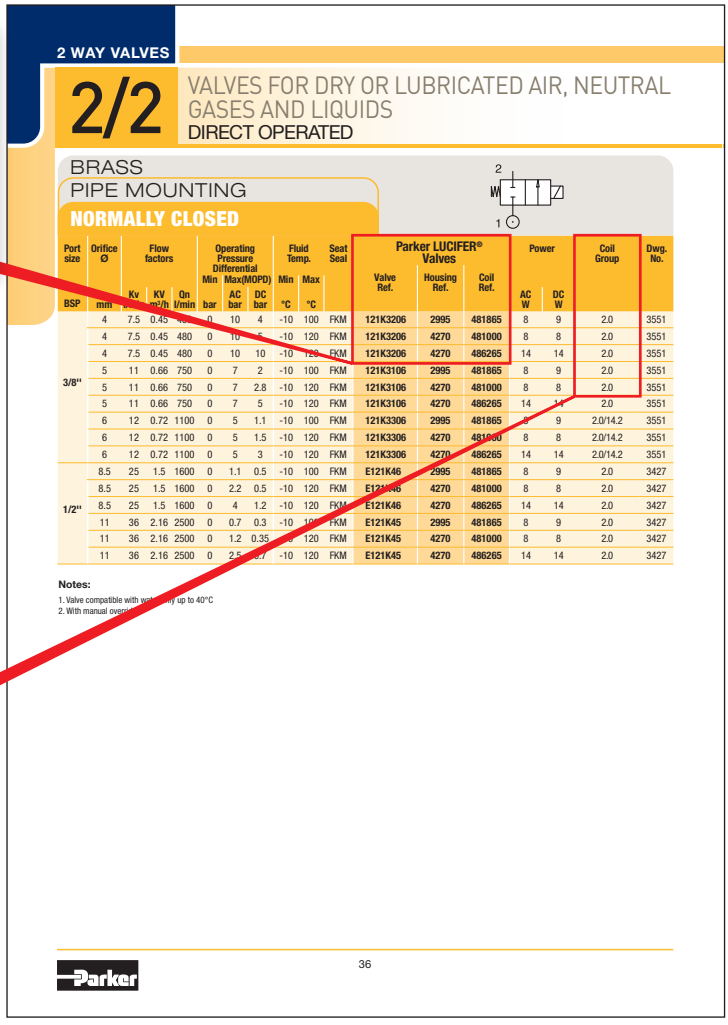
Valve Ref.	Housing Ref.	Coil Ref.
121K3206	2995	481865
121K3206	4270	481000
121K3206	4270	486265

However, in some specific cases, you will need special features that will lead you to choose another coil.

Groups have been created in order to facilitate the selection of a compatible coil with the chosen valve.

Coil Group
2.0
2.0
2.0

Example:
The valve 121K3206 is proposed with the coil 481865 but you can also choose any coil from the group 2.0.



2 WAY VALVES

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker LUCIFER® Valves			Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC	DC		
BSP	mm	Kv	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					W	W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	6	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
1/2"	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K46	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427

Notes:
1. Valve compatible with ... up to 40°C
2. With manual over...

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It is also possible to choose the coil first and then select the valve using coil groups.

WITHIN A COIL PAGE

The coil section is at the end of the catalogue and displays the specifications of each coil, along with the reference number, class of insulation, ambient temperature, electrical power and weight.

2.0 / 2.1

Example: the valve 121K3206 is proposed with coil 481865 but is also compatible with the 2.0 coil group. This means the coil 482725 is also compatible with the chosen valve as it is within this group.

When refering to the coil section you will find the coil group for each coil. This allows you to discover which other coils are compatible with the valve you have chosen.

COILS

COIL GROUP **2.0/2.1** COILS FOR DIN PLUG CONNECTION

COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

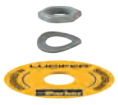


Specification			Standard				Double frequency	
Ref. (without DIN plug) Ref. (with DIN plug)			481865 482725				483510 482635	
Coil Group			2.0 / 2.1					
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).					
Class of insulation			F 155°C					
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A					
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	Pn (hot)	9 W				-	
		P (cold) 20°C	12 W				-	
	AC	Pn (holding)	8 W				9 W	
		Attraction cold	26 VA (9 W)				32 VA (10 W)	
Weight			130 g (without plug)					
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un			24/50 48/50 110/50 220-230/50	A2 A4 A5 3D	24 48 110	C2 C4 C5	24/50, 24/60 48/50, 48/60 110-115/50, 120/60 220-240/50, 240/60	P0 S4 S5 S6

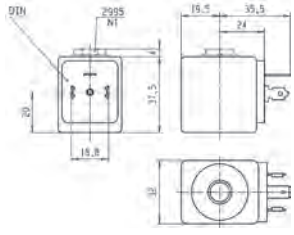
To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = **481865C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

The coil assembly kit **Ref. 2995** corresponds to the "housing"



It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



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NOTES



VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

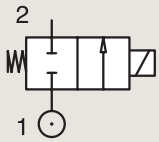
Oil Water Air

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/8"	1.5 to 3	4.5	70	130	22
			1/4"	1.2 to 5	11	100	130	22 and 24
			3/8"	4 to 6	12	10	120	26
			1/2"	8.5 to 11	36	4	120	26
		Normally Open	1/8"	2.5	3.5	30	140	28
			1/4"	1.5 to 4.5	7.8	40	140	28
		Control by Electric Impulse	1/4"	3 to 5	11	20	100	28
	Brass/Sub-base Mounting	Normally Closed	5 mm	1.5 to 3	4.5	100	130	30
		Normally Open	5 mm	1.5	1.5	20	120	32
Magnalift	Brass/Pipe Mounting	Normally Closed	3/8"	15	65	20	140	34
			1/2"	15	65	20	140	34
			3/4"	15	80	20	140	36
			1"	15 to 25	170	20	120	38
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/4"	8 to 12	36	40	120	40
			3/8"	11 to 12	50	40	120	42
			1/2"	11 to 15	60	40	120	44
			3/4"	15 to 20	135	40	120	46
			1"	18 to 25	185	16	120	48
			1 1/4"	28	270	16	120	48
			1 1/2"	40	425	16	120	50
			2"	40	540	16	120	50
		Normally Open	1/4"	8	36	40	140	52
			3/8"	11	50	40	140	52
			1/2"	15	60	40	140	52
			3/4"	15 to 20	135	40	120	54
			1"	25	180	16	120	54
			1 1/4"	28	270	16	120	54
			1 1/2"	40	420	12	100	54
			2"	40	540	12	120	54
		Control by Electric Impulse	1/4"	12	32	12	100	56
			3/8"	12	45	12	100	56
			1/2"	12	50	12	100	56
			3/4"	18	100	12	100	56
			1"	18	110	12	100	56
	Brass/Sub-base Mounting	Normally Closed	14 mm	14	45	40	140	58
		Normally Open	14 mm	14	46	40	120	58

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

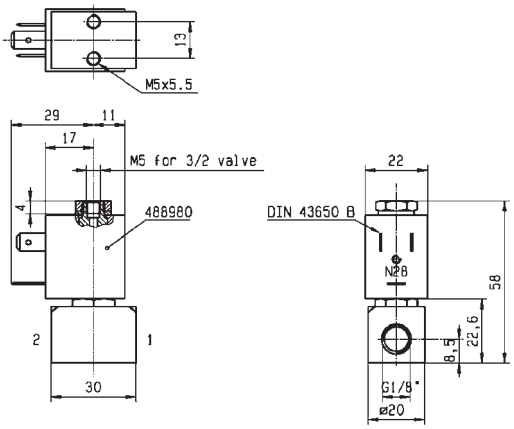


Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/8"	1.5	0.9	0.05	70	0	20	12	-10	75	FKM	**121M14**	**8993**	**481180**	4	5	1.1	3382
	1.5	0.9	0.05	70	0	20	4	-10	75	FKM	**121M14**	**8993**	**488980**	2	2.5	1.1	3382
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	**E121K14**	**2995**	**481865**	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	**E121K14**	**4270**	**481000**	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	**E121K14**	**4270**	**486265**	14	14	2.0	3510
	2	2	0.12	125	0	10	7	-10	75	FKM	**121M13**	**8993**	**481180**	4	5	1.1	3382
	2	2	0.12	125	0	10	2.5	-10	75	FKM	**121M13**	**8993**	**488980**	2	2.5	1.1	3382
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	**E121K23**	**2995**	**481865**	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	**E121K23**	**4270**	**481000**	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	**E121K23**	**4270**	**486265**	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	**121K1302**	**2995**	**481865**	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8	-10	120	FKM	**121K1302**	**4270**	**481000**	8	8	2.0	3510
	3	4.5	0.27	320	0	10	10	-10	120	FKM	**121K1302**	**4270**	**486265**	14	14	2.0	3510
1/4"	1.2	0.85	0.05	50	0	80	36	-30	100	Ruby	**E121K65**	**2995**	**481865**	8	9	2.0	3510
	1.2	0.85	0.05	50	0	100	43	-30	130	Ruby	**E121K65**	**4270**	**481000**	8	8	2.0	3510
	1.2	0.85	0.05	50	0	100	75	-30	120	Ruby	**E121K65**	**4270**	**486265**	14	14	2.0	3510
	1.5	1.5	0.09	80	0	-	8	-20	75	PUR	**121K0497** [1]	**2995**	**482740**	-	1.6	6.0/8.0	8274
	1.5	1.5	0.09	80	0	-	8	-20	65	PUR	**121K0497** [1]	**2995**	**496125**	-	1.6	6.0/8.0	8274
	1.5	1.5	0.09	80	0	10	10	-20	75	PUR	**121K0497** [1]	**-**	**495900**	2.5	2	6.0/8.0	8274
	1.5	1.5	0.09	80	0	-	10	-20	75	PUR	**121K0497** [1]	**-**	**495910**	-	0.3-1.2	6.0/8.0	8274
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	**E121K04**	**2995**	**481865**	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	**E121K04**	**4270**	**481000**	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	**E121K04**	**4270**	**486265**	14	14	2.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	**E121K0402**	**2995**	**481865**	8	9	2.0/3.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	**E121K0402**	**4270**	**481000**	8	8	2.0/3.0	3510
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	**E121K67**	**2995**	**481865**	8	9	2.0	3510
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	**E121K67**	**4270**	**481000**	8	8	2.0	3510
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	**E121K67**	**4270**	**486265**	14	14	2.0	3510
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	**121K0706**	**2995**	**481865**	8	9	2.0	3510
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	**121K0706**	**4270**	**481000**	8	8	2.0	3510
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	**121K0706**	**4270**	**486265**	14	14	2.0	3510
	2.5	3.5	0.21	220	0	28	10	-30	75	PCTFE	**E121K07**	**2995**	**481865**	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	75	PCTFE	**E121K07**	**4270**	**481000**	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	75	PCTFE	**E121K07**	**4270**	**486265**	14	14	2.0	3510

Notes:
1.If fluid is water, media temperature shall not exceed

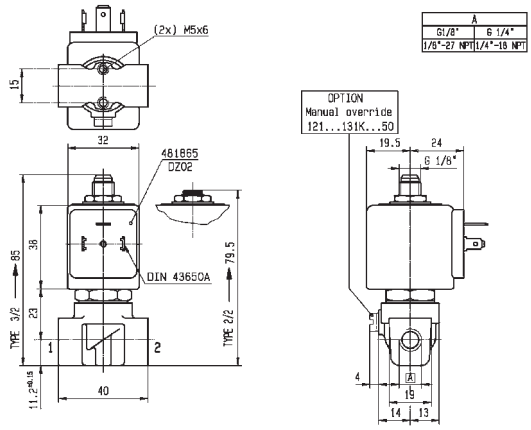
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.9	2.5	-30	-20
To	1/4"	3	4.5	100	130	50



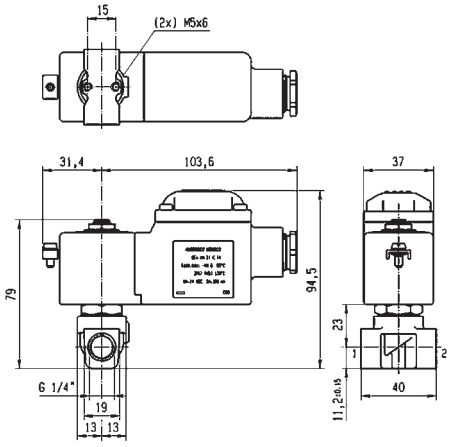


Drawing 3382





Drawing 3510

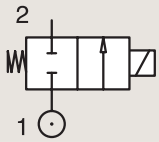




Drawing 8274

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

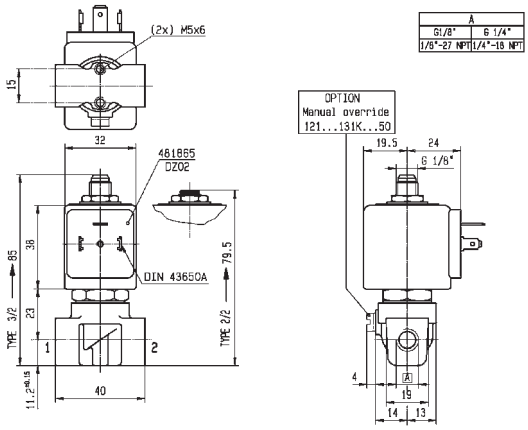


Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	**E121K63**	**2995**	**481865**	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	**E121K63**	**4270**	**481000**	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	**E121K63**	**4270**	**486265**	14	14	2.0	3510
	3	3.5	0.21	250	0	-	2	-20	75	PUR	**121K0397** [1]	**2995**	**482740**	-	1.6	6.0/8.0	8274
	3	3.5	0.21	250	0	-	2	-20	65	PUR	**121K0397** [1]	**2995**	**496125**	-	1.6	6.0/8.0	8274
	3	3.5	0.21	250	0	4.5	4	-20	75	PUR	**121K0397** [1]	**-**	**495900**	2.5	2	6.0/8.0	8274
	3	3.5	0.21	250	0	-	4.5	-20	75	PUR	**121K0397** [1]	**-**	**495910**	-	0.3-1.2	6.0/8.0	8274
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	**E121K03**	**2995**	**481865**	8	9	2.0/3.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	**E121K03**	**4270**	**481000**	8	8	2.0/3.0	3510
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	**E121K03**	**4270**	**486265**	14	14	2.0/3.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	**E121K0302**	**2995**	**481865**	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	**E121K0302**	**4270**	**481000**	8	8	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	**E121K0302**	**4270**	**486265**	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	**E121K0352** [2]	**2995**	**481865**	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	**E121K0352** [2]	**4270**	**481000**	8	8	2.0	3510
	3	4.5	0.27	320	0	10	10	-10	120	FKM	**E121K0352** [2]	**4270**	**486265**	14	14	2.0	3510
1/4"	3	4.5	0.27	320	0	20	7	-30	100	Ruby	**E121K64**	**2995**	**481865**	8	9	2.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	**E121K64**	**4270**	**481000**	8	8	2.0	3510
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	**E121K64**	**4270**	**486265**	14	14	2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	**121K02**	**2995**	**481865**	8	9	2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	**121K02**	**4270**	**481000**	8	8	2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	**121K02**	**4270**	**486265**	14	14	2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	**121K0250** [2]	**2995**	**481865**	8	9	2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	**121K0250** [2]	**4270**	**481000**	8	8	2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	**121K0250** [2]	**4270**	**486265**	14	14	2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	**121K01**	**2995**	**481865**	8	9	2.0/14.2	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	**121K01**	**4270**	**481000**	8	8	2.0/14.2	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	**121K01**	**4270**	**486265**	14	14	2.0/14.2	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	**121K01**	**2995**	**481865**	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	**121K01**	**4270**	**481000**	8	8	2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	**121K01**	**4270**	**486265**	14	14	2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	**121K0150** [2]	**2995**	**481865**	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	**121K0150** [2]	**4270**	**481000**	8	8	2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	**121K0150** [2]	**4270**	**486265**	14	14	2.0	3510

Notes:
1.If fluid is water, media temperature shall not exceed
2.With manual override

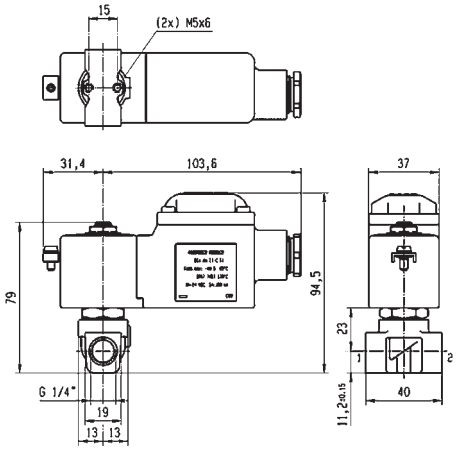
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	3.5	2	-30	-20
To	1/4"	5	11	50	130	50





Drawing 3510

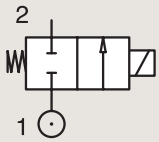




Drawing 8274

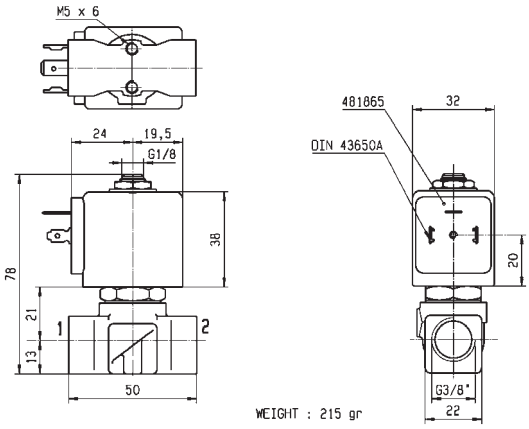
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



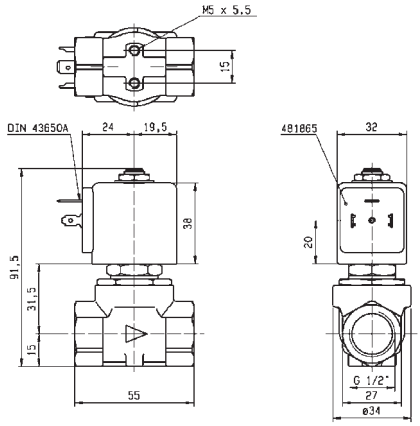
Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	**121K3206**	**2995**	**481865**	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	**121K3206**	**4270**	**481000**	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	**121K3206**	**4270**	**486265**	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	**121K3106**	**2995**	**481865**	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	**121K3106**	**4270**	**481000**	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	**121K3106**	**4270**	**486265**	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	**121K3306**	**2995**	**481865**	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	**121K3306**	**4270**	**481000**	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	**121K3306**	**4270**	**486265**	14	14	2.0/14.2	3551
1/2"	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	**E121K46**	**2995**	**481865**	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	**E121K46**	**4270**	**481000**	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	**E121K46**	**4270**	**486265**	14	14	2.0	3427
	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	**E121K45**	**2995**	**481865**	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	**E121K45**	**4270**	**481000**	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	**E121K45**	**4270**	**486265**	14	14	2.0	3427

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	4	7.5	0.3	-10	-10
To	1/2"	11	36	10	120	50





Drawing 3551



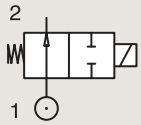


Drawing 3427

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

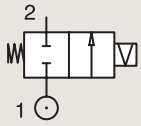
BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8"	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K9363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K9363	4270	486265	14	14	2.2	3510
1/4"	1.5	1.5	0.09	80	0	30	30	-10	100	PCTFE	122K84	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	30	30	-10	100	PCTFE	122K84	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	30	30	-10	120	PCTFE	122K84	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	122K8406	2995	481865	8	9	2.1	3510
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	122K8406	4270	481000	8	8	2.1	3510
	1.5	1.5	0.09	80	0	40	40	-30	100	Ruby	122K8408	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	486265	14	14	2.0	3510
	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	2995	481865	8	9	2.0	3510
	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	4270	481000	8	8	2.0	3510
	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	4270	486265	14	14	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	100	FKM	122K8306	2995	481865	8	9	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	481000	8	8	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K8363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K8363	4270	486265	14	14	2.2	3510
	4.5	7.8	0.47	-	0	4	4	-10	120	FKM	122K8606 [1]	2995	492425	14	14	-	3510

Notes: 1. Valve compatible only with 492425 or 491514 coils

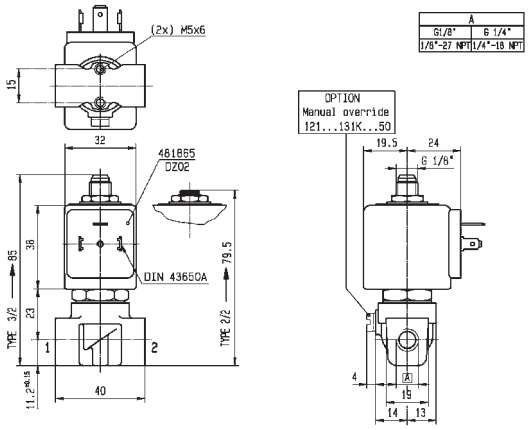
BRASS
PIPE MOUNTING
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	3	4.5	0.27	320	0	20	-	-30	75	PCTFE	125K03	4269	484990	11	-	4.0	8296
	3	4.5	0.27	320	0	-	7	-30	75	PCTFE	125K03	4269	485400	-	13	4.0	8296
	5	11	0.66	750	0	5	-	-10	100	FKM	125K01	4269	484990	11	-	4.0	8296
	5	11	0.66	750	0	-	1.5	-10	100	FKM	125K01	4269	485400	-	13	4.0	8296

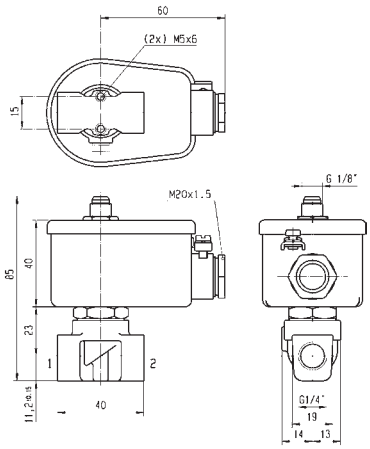
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.5	1.5	-30	-10
To	1/4"	5	11	40	140	50





Drawing 3510



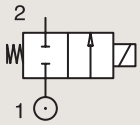


Drawing 8296

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

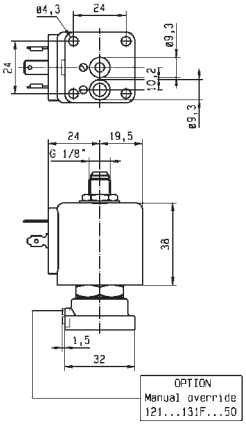
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	-	-10	100	EPDM	**121F4417**	**2995**	**483510**	9	-	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	**121F67**	**2995**	**481865**	8	9	2.0	3509
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	**121F67**	**4270**	**481000**	8	8	2.0	3509
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	**121F67**	**4270**	**486265**	14	14	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	**E121F44**	**2995**	**481865**	8	9	2.0	3509
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	**E121F44**	**4270**	**481000**	8	8	2.0	3509
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	**E121F44**	**4270**	**486265**	14	14	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	**E121F4406**	**2995**	**481865**	8	9	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	**E121F4406**	**4270**	**481000**	8	8	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	**E121F4406**	**4270**	**486265**	14	14	2.0	3509
	2.5	3.5	0.21	220	0	28	10	-30	75	PCTFE	**121F47**	**2995**	**481865**	8	9	2.0	3509
	2.5	3.5	0.21	220	0	34	12	-30	75	PCTFE	**121F47**	**4270**	**481000**	8	8	2.0	3509
	2.5	3.5	0.21	220	0	50	22	-30	75	PCTFE	**121F47**	**4270**	**486265**	14	14	2.0	3509
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	**121F4706**	**2995**	**481865**	8	9	2.0	3509
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	**121F4706**	**4270**	**481000**	8	8	2.0	3509
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	**121F4706**	**4270**	**486265**	14	14	2.0	3509
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	**121F63**	**2995**	**481865**	8	9	2.0	3509
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	**121F63**	**4270**	**481000**	8	8	2.0	3509
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	**121F63**	**4270**	**486265**	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	**121F64**	**2995**	**481865**	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	**121F64**	**4270**	**481000**	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	**121F64**	**4270**	**486265**	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	**E121F43**	**2995**	**481865**	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	**E121F43**	**4270**	**481000**	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	**E121F43**	**4270**	**486265**	14	14	2.0	3509
	3	4.5	0.27	320	0	10	7	-10	100	FKM	**E121F4302**	**2995**	**481865**	8	9	2.0/3.0	3509
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	**E121F4302**	**4270**	**481000**	8	8	2.0/3.0	3509
	3	4.5	0.27	320	0	10	10	-10	120	FKM	**E121F4302**	**4270**	**486265**	14	14	2.0/3.0	3509

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	7	-30	-10
To	5 mm	3	4.5	100	130	50

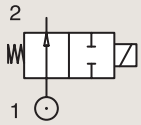




Drawing 3509

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

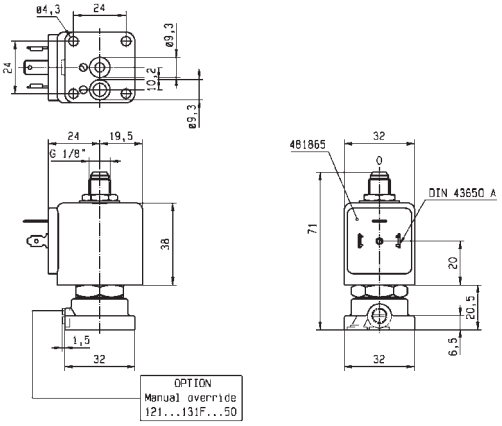
BRASS
SUB-BASE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	**122F44**	**2995**	**481865**	8	9	2.1	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	**122F44**	**4270**	**481000**	8	8	2.1	3509

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	20	-10	-10
To	5 mm	1.5	1.5	20	120	50





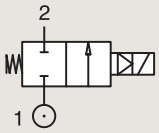
Drawing 3509

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

MAGNALIFT

BRASS

PIPE MOUNTING



NORMALLY CLOSED

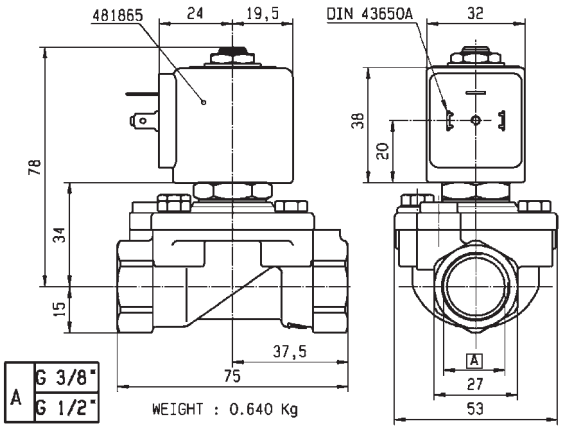
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	15	65	3.9	4500	0	16	-	-10	100	NBR	**221G13**	**2995**	**481865**	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	-10	100	NBR	**221G13**	**4270**	**481000**	8	-	2.0	3732
	15	65	3.9	4500	0	16	16	-10	100	NBR	**221G13**	**4270**	**486265**	14	14	2.0	3732
	15	65	3.9	4500	0	16	-	0	100	FKM	**221G23** [1]	**2995**	**481865**	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	0	120	FKM	**221G23** [1]	**4270**	**481000**	8	-	2.0	3732
	15	65	3.9	4500	0	20	7	0	140	FKM	**221G23** [1]	**4270**	**486265**	14	14	2.0	3732
	15	65	3.9	4500	0	-	10	-10	100	FKM	**221G2330** [12]	**2995**	**481865**	-	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	65	FKM	**221G2330** [12]	**-**	**492070**	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	75	FKM	**221G2330** [12]	**-**	**492190**	11	9	2.1	3732
1/2"	15	65	3.9	4500	0	16	-	-10	100	NBR	**221G15**	**2995**	**481865**	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	-10	100	NBR	**221G15**	**4270**	**481000**	8	-	2.0	3732
	15	65	3.9	4500	0	16	7	-10	100	NBR	**221G15**	**4270**	**486265**	14	14	2.0	3732
	15	65	3.9	4500	0	-	10	-10	100	NBR	**221G1530** [23]	**2995**	**481865**	-	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	65	NBR	**221G1530** [23]	**-**	**492070**	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	75	NBR	**221G1530** [23]	**-**	**492190**	11	9	2.1	3732
	15	65	3.9	4500	0	16	-	0	100	FKM	**221G25** [1]	**2995**	**481865**	8	-	2.0	3732
	15	65	3.9	4500	0	16	-	0	120	FKM	**221G25** [1]	**4270**	**481000**	8	-	2.0	3732
	15	65	3.9	4500	0	20	7	0	140	FKM	**221G25** [1]	**4270**	**486265**	14	14	2.0	3732
	15	65	3.9	4500	0	-	10	-10	100	FKM	**221G2530** [12]	**2995**	**481865**	-	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	65	FKM	**221G2530** [12]	**-**	**492070**	9	8	2.1	3732
	15	65	3.9	4500	0	10	10	-10	75	FKM	**221G2530** [12]	**-**	**492190**	11	9	2.1	3732

Notes:

1.Valve only compatible with hydraulic oil and air/neutral gases
2.Valves with model number ending in 30 or 31 are mainly equipped with electrical parts for explosion proof applications or with standard DC coils.
3. With 4 position selector for controlled closure rate.
4.Pilot seat in FKM

IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	65	7	-10	-10
To	1/2"	15	65	20	140	50





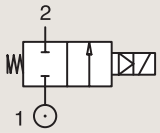
Drawing 3732

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

MAGNALIFT

BRASS

PIPE MOUNTING



NORMALLY CLOSED

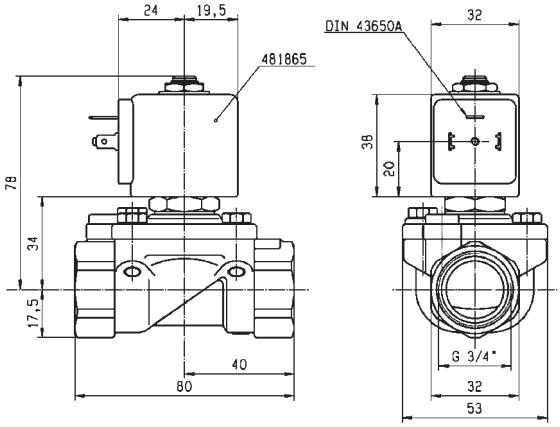
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16 $_{4}$	2995	481865	8	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16 $_{4}$	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	7	7	-10	100	NBR	221G16 $_{4}$	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610 $_{3}$	2995	481865	8	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610 $_{3}$	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1610 $_{3}$	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1630 $_{24}$	2995	481865	8	9	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630 $_{24}$	-	492070	9	8	2.1	3444
3/4"	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630 $_{24}$	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1631 $_{234}$	2995	481865	8	9	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631 $_{234}$	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631 $_{234}$	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	16	-	0	100	FKM	221G26 $_{1}$	2995	481865	8	-	2.0	3444
	15	80	4.8	6000	0	16	-	0	120	FKM	221G26 $_{1}$	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	20	7	0	140	FKM	221G26 $_{1}$	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	-	10	-10	100	FKM	221G2630 $_{12}$	2995	481865	-	9	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630 $_{12}$	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630 $_{12}$	-	492190	11	9	2.1	3444

Notes:

1.Valve only compatible with hydraulic oil and air/neutral gases
2.Valves with model number ending in 30 or 31 are mainly equipped with electrical parts for explosion proof applications or with standard DC coils.
3. With 4 position selector for controlled closure rate.
4.Pilot seat in FKM

IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	80	7	-25	-10
To	3/4"	15	80	20	140	50



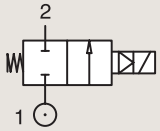


Drawing 3444

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

MAGNALIFT

BRASS
PIPE MOUNTING
NORMALLY CLOSED

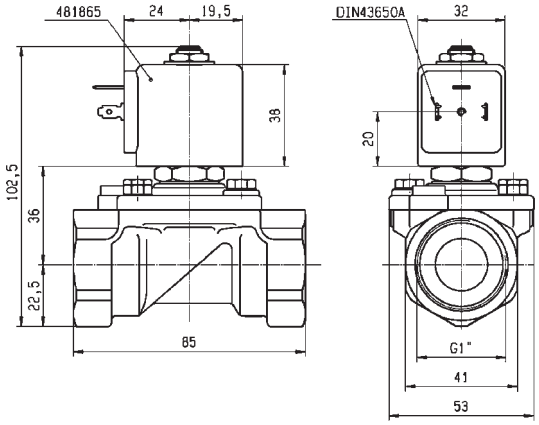


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1"	15	80	4.8	6000	0	16	-	-10	100	NBR	221G17	2995	481865	8	-	2.0	3445
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G17	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G17	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1710 [3]	2995	481865	8	-	2.0	3445
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1710 [3]	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1710 [3]	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	-	10	-10	100	NBR	221G1730 [124]	2995	481865	-	9	2.1	3445
	15	80	4.8	6000	0	10	10	-10	65	NBR	221G1730 [124]	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	75	NBR	221G1730 [124]	-	492190	11	9	2.1	3445
	15	80	4.8	6000	0	16	-	0	100	FKM	221G27 [1]	2995	481865	8	-	2.0	3445
	15	80	4.8	6000	0	16	-	0	120	FKM	221G27 [1]	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	20	7	0	120	FKM	221G27 [1]	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	-	10	0	100	FKM	221G2730 [12]	2995	481865	-	9	2.1	3445
	15	80	4.8	6000	0	10	10	-10	65	FKM	221G2730 [12]	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	75	FKM	221G2730 [12]	-	492190	11	9	2.1	3445
	25	170	10.2	14000	0	16	-	-10	100	NBR	221G21	2995	481865	8	-	2.0	3448
	25	170	10.2	14000	0	16	-	-10	100	NBR	221G21	4270	481000	8	-	2.0	3448
	25	170	10.2	14000	0	16	6	-10	100	NBR	221G21	4270	486265	14	14	2.0	3448
	25	160	9.6	14000	0	16	-	0	100	FKM	221G2106 [1]	2995	481865	8	-	2.0	3448
	25	160	9.6	14000	0	16	-	0	120	FKM	221G2106 [1]	4270	481000	8	-	2.0	3448
	25	160	9.6	14000	0	16	6	0	120	FKM	221G2106 [1]	4270	486265	14	14	2.0	3448
	25	160	9.6	14000	0	16	-	-10	100	NBR	221G2110 [3]	2995	481865	8	-	2.0	3448
	25	160	9.6	14000	0	16	-	-10	100	NBR	221G2110 [3]	4270	481000	8	-	2.0	3448
	25	160	9.6	14000	0	16	6	-10	100	NBR	221G2110 [3]	4270	486265	14	14	2.0	3448
	25	170	10.2	14000	0	-	10	-10	40	NBR	221G2130 [124]	2995	481865	-	9	2.1	3448
	25	170	10.2	14000	0	10	10	-10	40	NBR	221G2130 [124]	-	492070	9	8	2.1	3448
	25	170	10.2	14000	0	10	10	-10	40	NBR	221G2130 [124]	-	492190	11	9	2.1	3448
	25	170	10.2	14000	0	-	10	0	100	FKM	221G2136 [12]	2995	481865	-	9	2.0	3448
	25	170	10.2	14000	0	-	10	0	100	FKM	221G2136 [12]	4270	481000	-	8	2.0	3448

Notes:
1.Valve only compatible with hydraulic oil and air/neutral gases
2.Valves with model number ending in 30 or 31 are mainly equipped with electrical parts for explosion proof applications or with standard DC coils.
3. With 4 position selector for controlled closure rate.
4.Pilot seat in FKM

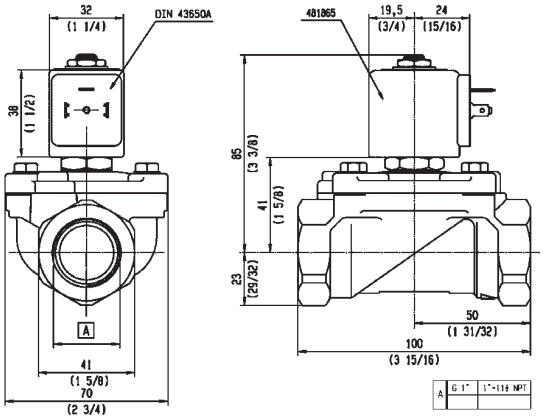
IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	15	80	6	-10	-10
To	1"	25	170	20	120	50





Drawing 3445

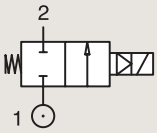




Drawing 3448

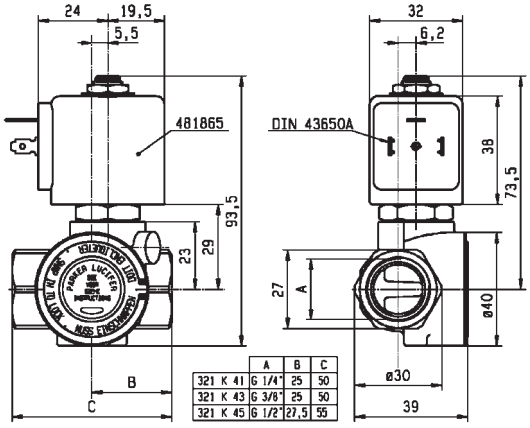
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 [124]	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11 [124]	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11 [124]	4270	486265	14	14	2.0	3523
	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	8	9	2.0	3429
	11	28	1.68	1800	0.2	10	4	-10	100	NBR	E321K10	4270	481000	8	8	2.0	3429
	12	30	1.8	2150	0.3	10	10	-10	100	NBR	321K31	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	NBR	321K31	8993	488980	2	2.5	1.1	7093
	12	30	1.8	2150	0.3	10	10	-10	100	FKM	321K3106	8993	481180	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	FKM	321K3106	8993	488980	2	2.5	1.1	7093
	12	32	1.92	2150	0.3	12	12	-10	100	FKM	321K4156 [3]	2995	481865	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	321K4156 [3]	4270	481000	8	8	2.1/3.0	7094

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve with manual override
4.With 4 position selector for controlled closure rate

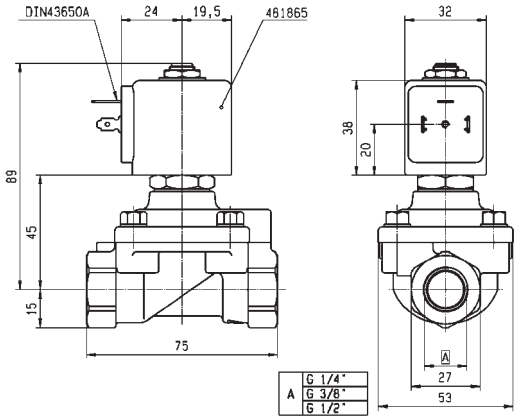




Drawing 7094

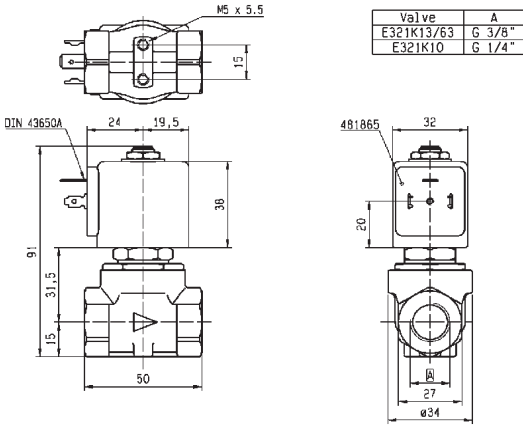
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	28	3	-10	-10
To	1/4"	12	36	40	120	50





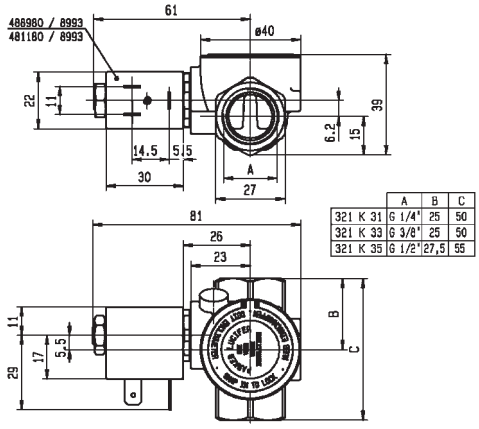
Drawing 3523



Valve	A
E321K13/63	G 3/8"
E321K10	G 1/4"



Drawing 3429



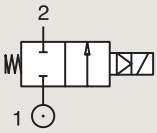
	A	B	C
321 K 31	G 1/4"	25	50
321 K 33	G 3/8"	25	50
321 K 35	G 1/2"	27,5	55



Drawing 7093

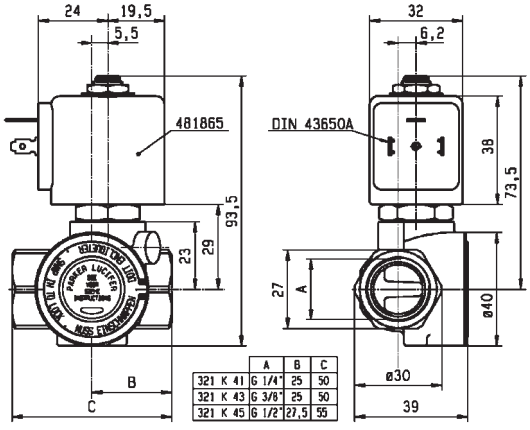
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13 [124]	2995	481865	8	9	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13 [124]	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13 [124]	4270	486265	14	14	2.0	3521
	11	36	2.16	2500	0.2	10	4	-10	100	NBR	E321K13	4270	481000	8	8	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K13	4270	486265	14	14	2.0	3429
	11	36	2.16	2500	0.2	10	-	-10	100	NBR	E321K1314	2995	483466	8-11	-	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	E321K1314	4270	486265	14	14	2.0	3429
	12	45	2.7	3050	0.3	10	10	-10	100	NBR	321K33	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	NBR	321K33	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	10	10	-10	100	FKM	321K3306 [1]	8993	481180	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	FKM	321K3306 [1]	8993	488980	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	12	12	-10	100	FKM	321K4356 [3]	2995	481865	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4356 [3]	4270	481000	8	8	2.1/3.0	7094

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve with manual override
4.With 4 position selector for controlled closure rate

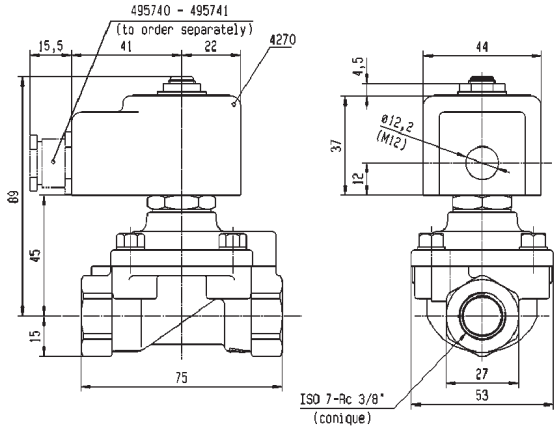




Drawing 7094

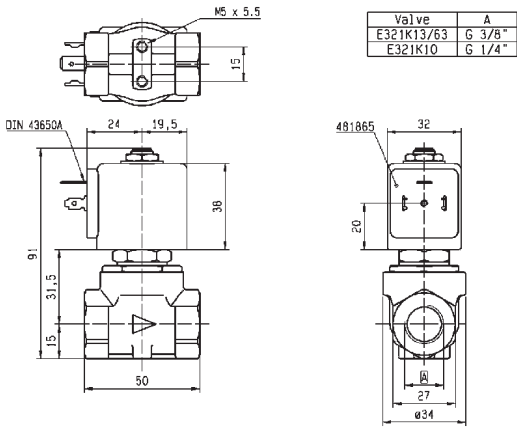
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	11	36	4	-10	-10
To	3/8"	12	50	40	120	50





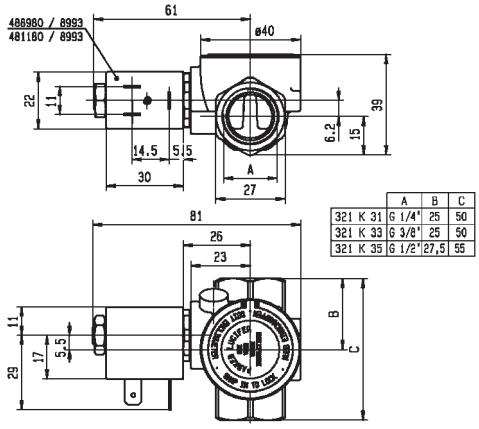
Drawing 3521



Valve	A
E321K13/63	G 3/8"
E321K10	G 1/4"



Drawing 3429



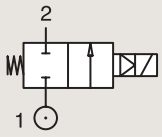
	A	B	C
321 K 31	G 1/4"	25	50
321 K 33	G 3/8"	25	50
321 K 35	G 1/2"	27,5	55



Drawing 7093

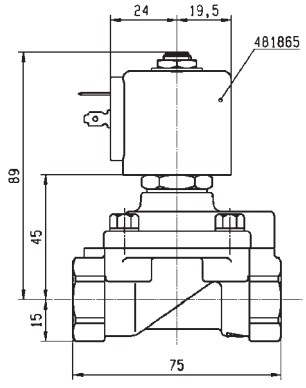
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

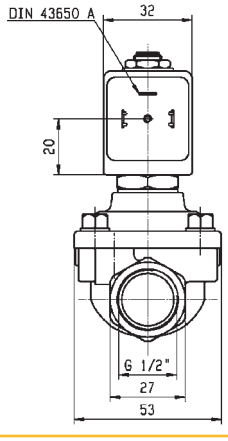
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	10	-10	120	NBR	E321K15	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0.2	10	3	-10	100	FKM	E321K25	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0.2	4	4	-10	65	FKM	E321K25	-	492070	9	8	2.0	3427
	12	50	3	3400	0.3	10	10	-10	100	NBR	321K35	8993	481180	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	NBR	321K35	8993	488980	2	2.5	1.1	7093
	12	50	3	3400	0.3	10	10	-10	100	FKM	321K3506	8993	481180	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	FKM	321K3506	8993	488980	2	2.5	1.1	7093
	15	60	3.6	3150	0.3	-	10	-10	55	NBR	321H1590	2995	48358001	-	0.5-3	7.0/8.0	3978
	15	60	3.6	3150	0.3	-	10	-10	80	NBR	321H1590	-	495910	-	0.3-1.2	7.0/8.0	3978
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35 [23]	2995	481865	8	9	2.1	3522
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35 [23]	4270	481000	8	8	2.1	3522
	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15 [124]	2995	481865	8	9	2.0	3522
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	E321H15 [124]	4270	481000	8	8	2.0	3522
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	E321H15 [124]	4270	486265	14	14	2.0	3522

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve with manual override
4.With 4 position selector for controlled closure rate





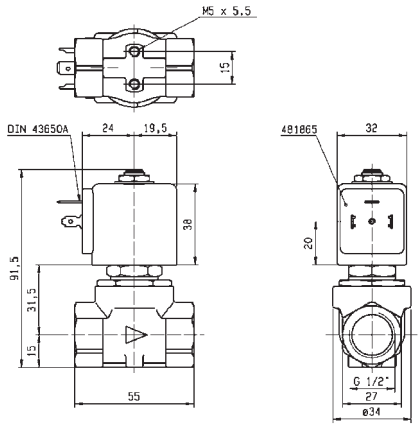


Drawing 3522

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

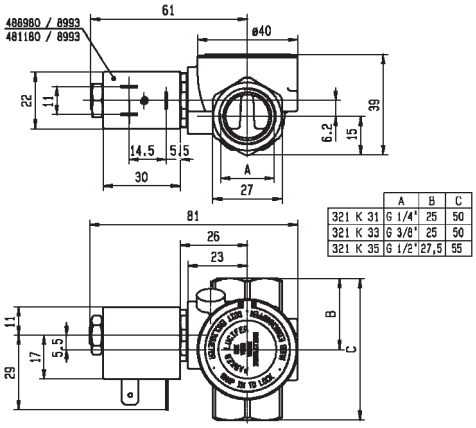
IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	36	3	-10	-10
To	1/2"	15	60	40	120	50





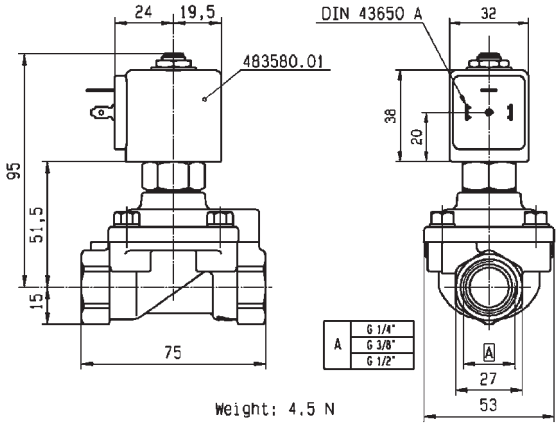
Drawing 3427



	A	B	C
321 K 31	G 1/4"	25	50
321 K 33	G 3/8"	25	50
321 K 35	G 1/2"	27,5	55



Drawing 7093

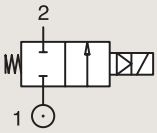




Drawing 3978

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

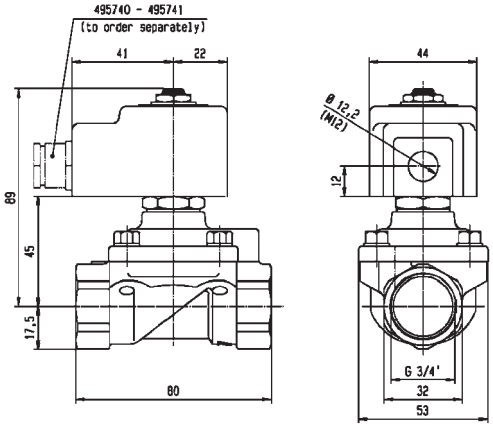
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/4"	15	60	3.6	3550	1.5	40	40	-10	50	PUR	**321H36** [1]	**2995**	**481865**	8	9	2.1	3696
	15	60	3.6	3550	1.5	40	40	-10	50	PUR	**321H36** [1]	**4270**	**481000**	8	8	2.1	3696
	18	100	6	9400	0.3	10	10	-10	100	NBR	**321K36**	**8993**	**481180**	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	NBR	**321K36**	**8993**	**488980**	2	2.5	1.1	7097
	18	100	6	9400	0.3	10	10	-10	100	FKM	**321K3606**	**8993**	**481180**	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	FKM	**321K3606**	**8993**	**488980**	2	2.5	1.1	7097
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**E321G36**	**2995**	**481865**	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**E321G36**	**4270**	**481000**	8	8	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	FKM	**E321G3606**	**2995**	**481865**	8	9	2.0/14.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	**E321G3606**	**4270**	**481000**	8	8	2.0/14.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	**E321G3606**	**4270**	**486265**	14	14	2.0/14.1	3442

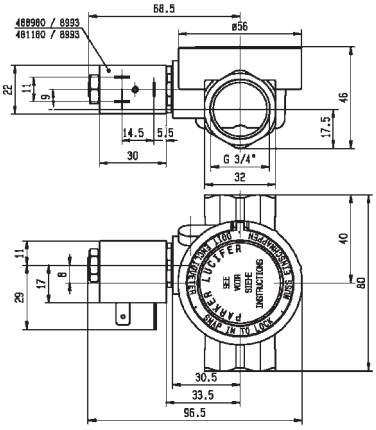
Notes:
1.Pilot seat disc in synthetic Ruby

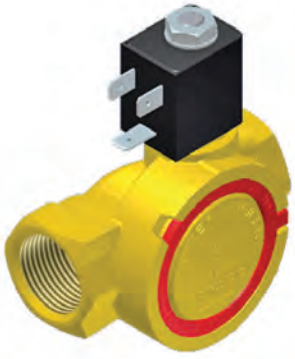
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	60	7	-10	-10
To	3/4"	20	135	40	120	50



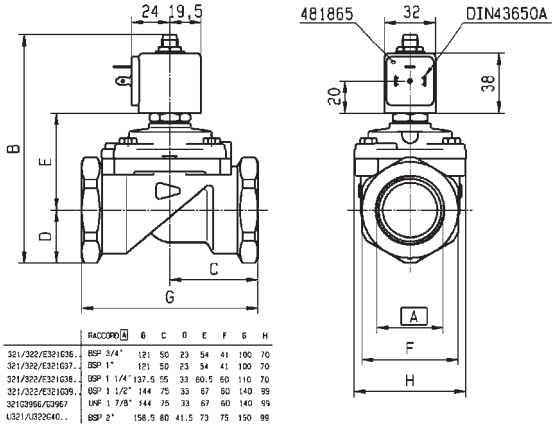


Drawing 3696





Drawing 7097



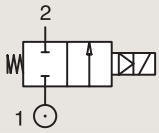
	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"		121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"		121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"		137.5	55	33	60.5	60	110	70
321/322/E321G39..	BSP 1 1/2"		144	75	33	67	60	140	99
321G3956/G3967	UNF 1 7/8"		144	75	33	67	60	140	99
U321/U322G40..	BSP 2"		158.5	80	41.5	73	75	150	99



Drawing 3442

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

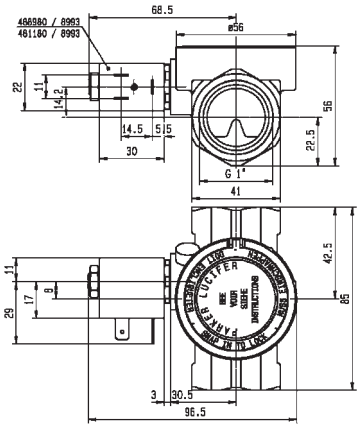


Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	DC W	Coil Group	Dwg. No.
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	**321K37**	**8993**	**481180**		4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	NBR	**321K37**	**8993**	**488980**		2	2.5	1.1	7098
	18	110	6.6	10150	0.3	10	10	-10	100	FKM	**321K3706**	**8993**	**481180**		4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	FKM	**321K3706**	**8993**	**488980**		2	2.5	1.1	7098
	25	185	11.1	14100	0.3	-	10	-10	55	FKM	**321G3790**	**2995**	**48358001**	*	-	0.5-3	7.0/8.0	3442
	25	185	11.1	14100	0.3	-	10	-10	75	FKM	**321G3790**	**-**	**495910**	*	-	0.3-1.2	7.0/8.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	**E321G37**	**2995**	**481865**		8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	**E321G37**	**4270**	**481000**		8	8	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	FKM	**E321G3706**	**2995**	**481865**		8	9	2.0/14.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	**E321G3706**	**4270**	**481000**		8	8	2.0/14.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	**E321G3706**	**4270**	**486265**		14	14	2.0/14.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	**E321G38**	**2995**	**481865**		8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	**E321G38**	**4270**	**481000**		8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	**E321G3806**	**2995**	**481865**		8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	120	FKM	**E321G3806**	**4270**	**481000**		8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	**E321G3806**	**4270**	**486265**		14	14	2.0	3442

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

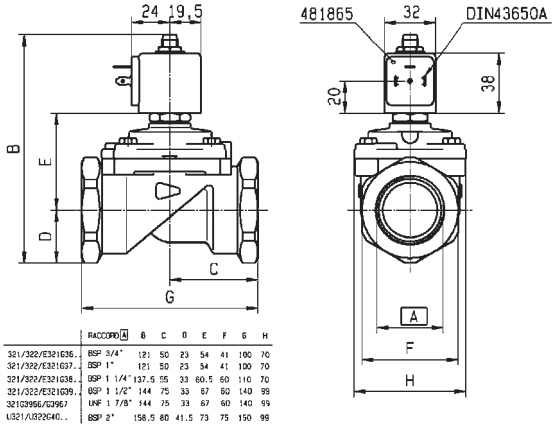
IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	18	110	7	-10	-10
To	1 1/4"	28	270	16	120	50





Drawing 7098



	RACCORD A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"	137.5	55	33	60.5	50	110	70
321/322/E321G39..	BSP 1 1/2"	144	75	33	67	50	140	99
321/322/E321G66/G367	UNF 1 7/8"	144	75	33	67	50	140	99
U321/U322G40..	BSP 2"	158.5	80	41.5	73	75	150	99

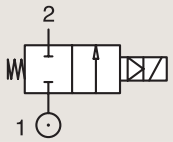


Drawing 3442

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



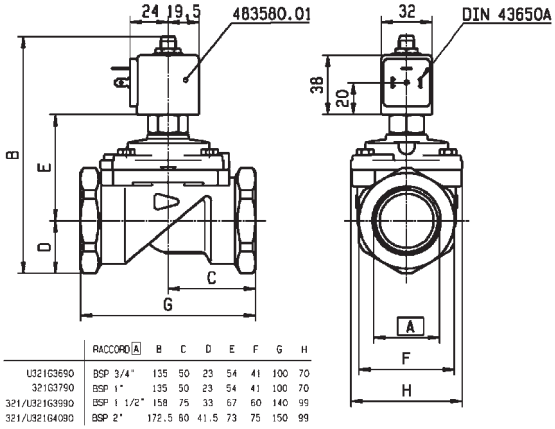
Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	DC W	Coil Group	Dwg. No.
1 1/2"	40	425	25.5	31500	0.5	-	10	-10	55	NBR	**321G3990**	**2995**	**48358001**	*	-	0.5-3	7.0/8.0	8113
	40	425	25.5	31500	0.5	-	10	-10	75	NBR	**321G3990**	**-**	**495910**	*	-	0.3-1.2	7.0/8.0	8113
	40	420	25.2	31500	0.3	16	7	-10	100	NBR	**E321G39** [1]	**2995**	**481865**		8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8	-10	100	NBR	**E321G39** [1]	**4270**	**481000**		8	8	2.0	3442
	40	420	25.2	31500	0.3	16	7	-10	100	FKM	**E321G3906**	**2995**	**481865**		8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8	-10	120	FKM	**E321G3906**	**4270**	**481000**		8	8	2.0	3442
	40	420	25.2	31500	0.3	16	16	-10	100	FKM	**E321G3906**	**4270**	**486265**		14	14	2.0	3442
2"	40	540	32.4	38100	0.5	-	10	-10	55	FKM	**321G4090**	**2995**	**48358001**	*	-	0.5-3	7.0/8.0	8113
	40	540	32.4	38100	0.5	-	10	-10	75	FKM	**321G4090**	**-**	**495910**	*	-	0.3-1.2	7.0/8.0	8113
	40	540	32.4	40000	0.3	16	7	-10	100	NBR	**E321G40** [1]	**2995**	**481865**		8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8	-10	100	NBR	**E321G40** [1]	**4270**	**481000**		8	8	2.0	3442
	40	540	32.4	40000	0.3	16	7	-10	100	FKM	**E321G4006**	**2995**	**481865**		8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8	-10	120	FKM	**E321G4006**	**4270**	**481000**		8	8	2.0	3442
	40	540	32.4	40000	0.3	16	7	-10	120	FKM	**E321G4006**	**4270**	**486265**		14	14	2.0	3442

Notes:
1.Pilot seat disc in synthetic Ruby

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

IECEx certified

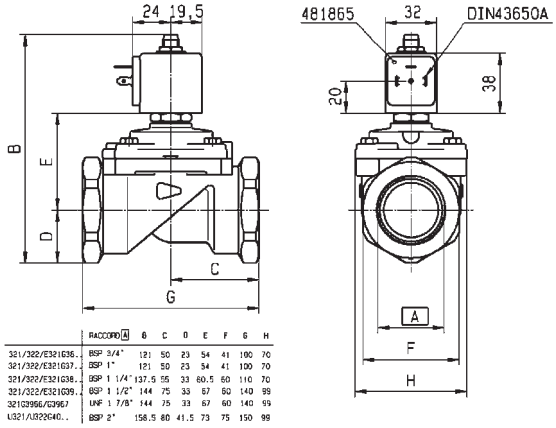
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1 1/2"	40	420	7	-10	-10
To	2"	40	540	16	120	50



	RACCORD A	B	C	D	E	F	G	H
U321G3690	BSP 3/4"	135	50	23	54	41	100	70
321G3790	BSP 1"	135	50	23	54	41	100	70
321/U321G3990	BSP 1 1/2"	158	75	33	67	60	140	99
321/U321G4090	BSP 2"	172.5	80	41.5	73	75	150	99



Drawing 8113



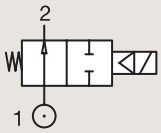
	RACCORD A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"	137.5	55	33	60.5	50	110	70
321/322/E321G39..	BSP 1 1/2"	144	75	33	67	60	140	99
321G3956/G3957	UNF 1 7/8"	144	75	33	67	60	140	99
U321/U322G40..	BSP 2"	158.5	80	41.5	73	75	150	99



Drawing 3442

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

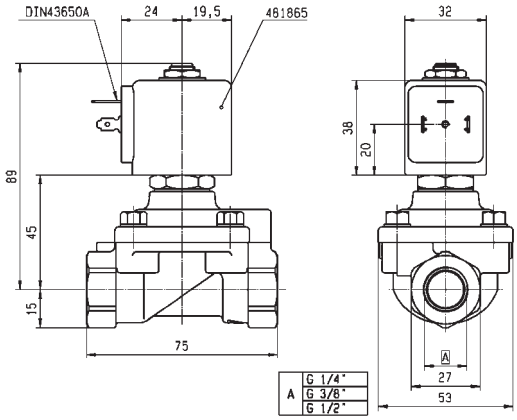
BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	322H71 [12]	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	322H71 [12]	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	322H71 [12]	4270	486265	14	14	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	FKM	322H7106 [12]	2995	481865	8	9	2.0/14.1	3523
	8	36	2.16	1600	0.3	40	40	-10	120	FKM	322H7106 [12]	4270	481000	8	8	2.0/14.1	3523
	8	36	2.16	1600	0.3	40	40	-10	140	FKM	322H7106 [12]	4270	486265	14	14	2.0/14.1	3523
3/8"	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 [12]	2995	481865	8	9	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 [12]	4270	481000	8	8	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	322H73 [12]	4270	486265	14	14	2.0	3523
	11	50	3	3240	0.3	40	40	-10	100	FKM	322H7306 [12]	2995	481865	8	9	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	100	FKM	322H7306 [12]	4270	481000	8	8	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	140	FKM	322H7306 [12]	4270	486265	14	14	2.0/14.1	3523
1/2"	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	2995	481865	8	9	2.1	3522
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	4270	481000	8	8	2.1	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 [1]	2995	481865	8	9	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 [1]	4270	481000	8	8	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	322G7506 [1]	4270	486265	14	14	2.0	3522
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	322H35 [3]	2995	481865	8	9	2.1	7569
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	322H35 [3]	4270	481000	8	8	2.1	7569
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 [12]	2995	481865	8	9	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 [12]	4270	481000	8	8	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	322H75 [12]	4270	486265	14	14	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	FKM	322H7506 [12]	2995	481865	8	9	2.0/14.1	3522
	15	60	3.6	3890	0.3	40	40	-10	120	FKM	322H7506 [12]	4270	481000	8	8	2.0/14.1	3522
	15	60	3.6	3890	0.3	40	40	-10	140	FKM	322H7506 [12]	4270	486265	14	14	2.0/14.1	3522

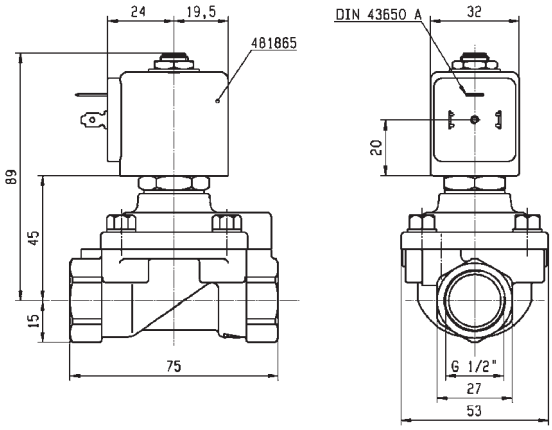
Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve only compatible with air and neutral gases

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	15	-10	-10
To	1/2"	15	60	40	140	50



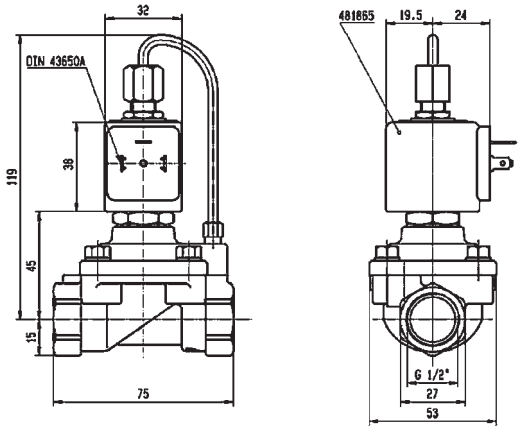


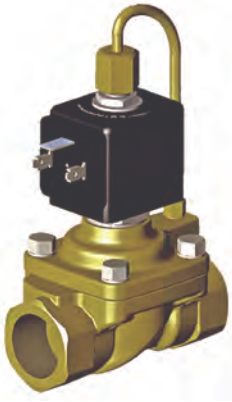
Drawing 3523





Drawing 3522



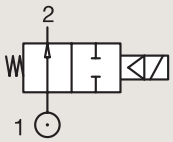


Drawing 7569

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY OPEN

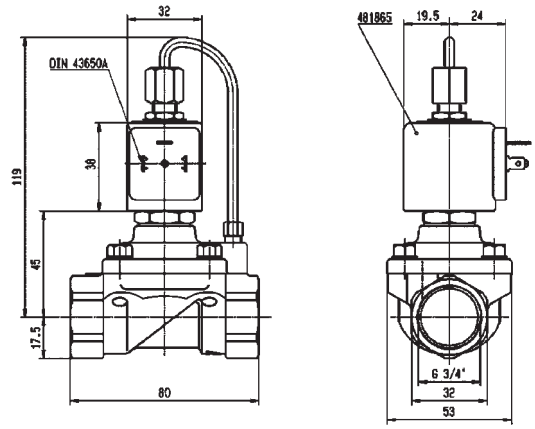


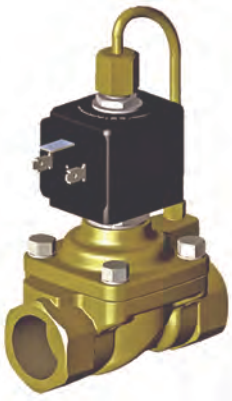
Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/4"	15	53.3	3.2	3550	1.5	40	40	-10	50	PUR	322H36 $_{12}$	2995	481865	8	9	2.1	7570
	15	53.3	3.2	3550	1.5	40	40	-10	50	PUR	322H36 $_{12}$	4270	481000	8	8	2.1	7570
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	4270	481000	8	8	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	FKM	322G3606	2995	481865	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	322G3606	4270	481000	8	8	2.1	3442
1"	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	4270	481000	8	8	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	FKM	322G3706	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	120	FKM	322G3706	4270	481000	8	8	2.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G38	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G38	4270	481000	8	8	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	FKM	322G3806	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	120	FKM	322G3806	4270	481000	8	8	2.1	3442
1 1/2"	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	FKM	322G3906	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	FKM	322G3906	4270	481000	8	8	2.1	3442
2"	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G40	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G40	4270	481000	8	8	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	FKM	322G4006	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	120	FKM	322G4006	4270	481000	8	8	2.1	3442

Notes:
1.Minimum pressure differential = 1.5 bar for opening and 0.3 bar for closing
2.Valve only compatible with air and neutral gases

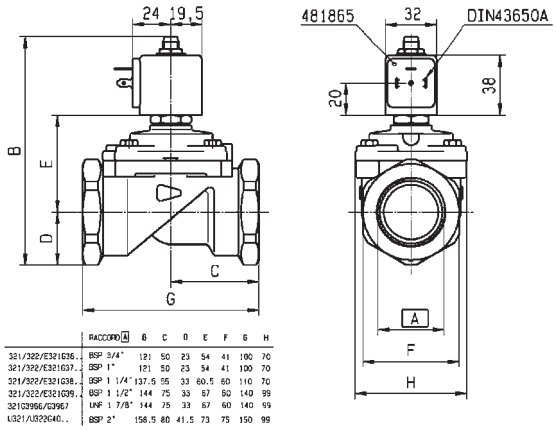
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	53.3	12	-10	-10
To	2"	40	540	40	120	50





Drawing 7570



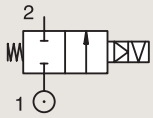
	RACCORD A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"	137.5	55	33	60.5	50	110	70
321/322/E321G39..	BSP 1 1/2"	144	75	33	67	50	140	99
3212956/E2956	UNF 1 7/8"	144	75	33	67	60	140	99
U321/U322G40..	BSP 2"	158.5	80	41.5	73	75	150	99



Drawing 3442

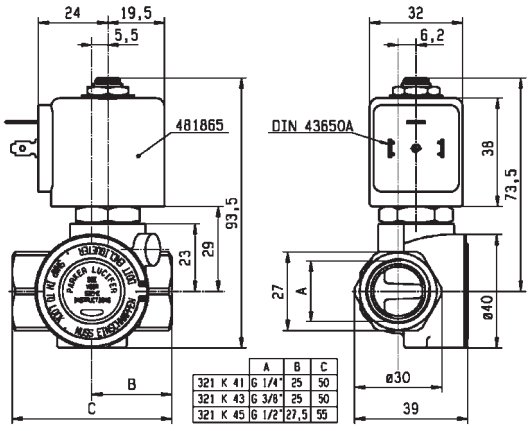
2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING
CONTROL BY ELECTRIC IMPULSE



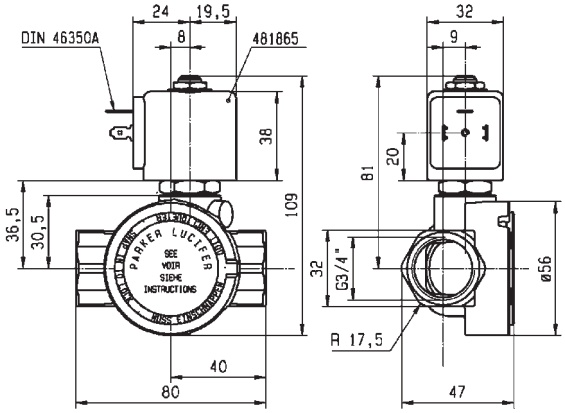
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Min	Max(MOPD)		Fluid Temp. Min	Max	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	-	-10	100	FKM	**325K4106**	**4269**	**484990**	11	-	4.0	7094
	12	32	1.92	2150	0.3	-	12	-10	100	FKM	**325K4106**	**4269**	**485400**	-	13	4.0	7094
3/8"	12	45	2.7	3050	0.3	12	-	-10	100	FKM	**325K4306**	**4269**	**484990**	11	-	4.0	7094
	12	45	2.7	3050	0.3	-	12	-10	100	FKM	**325K4306**	**4269**	**485400**	-	13	4.0	7094
1/2"	12	50	3	3400	0.3	12	-	-10	100	FKM	**325K4506**	**4269**	**484990**	11	-	4.0	7094
	12	50	3	3400	0.3	-	12	-10	100	FKM	**325K4506**	**4269**	**485400**	-	13	4.0	7094
3/4"	18	100	6	9400	0.3	12	-	-10	100	FKM	**325K4606**	**4269**	**484990**	11	-	4.0	7099
	18	100	6	9400	0.3	-	12	-10	100	FKM	**325K4606**	**4269**	**485400**	-	13	4.0	7099
1"	18	110	6.6	10150	0.3	12	-	-10	100	FKM	**325K4706**	**4269**	**484990**	11	-	4.0	7100
	18	110	6.6	10150	0.3	-	12	-10	100	FKM	**325K4706**	**4269**	**485400**	-	13	4.0	7100

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	12	32	12	-10	-10
To	1"	18	110	12	100	50



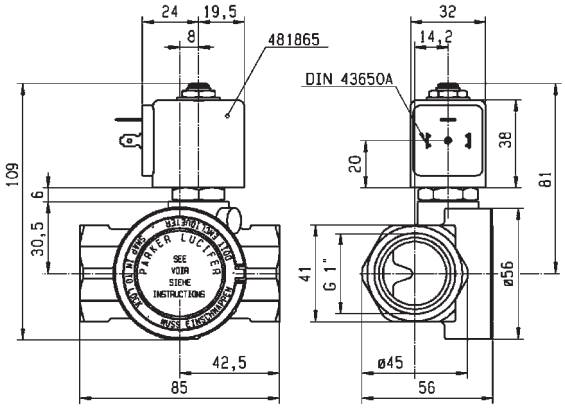


Drawing 7094





Drawing 7099



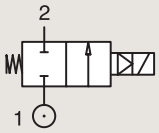


Drawing 7100

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

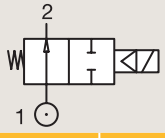
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14			2100	1.5	40	40	-10	50	PUR	**321F35**	**2995**	**481865**	8	9	2.0	3520
	14			2100	1.5	40	40	-10	50	PUR	**321F35**	**2995**	**492425**	14	14	2.0	3520
	14			2100	0	13	13	-10	50	PUR	**421F35**	**2995**	**481865**	8	9	2.1	3520
	14	45	2.7	2100	0.3	40	25	-10	100	NBR	**E321F32** [2]	**2995**	**481865**	8	9	2.0	3520
	14	45	2.7	2100	0.3	40	30	-10	100	NBR	**E321F32** [2]	**4270**	**481000**	8	8	2.0	3520
	14	45	2.7	2100	0.3	40	40	-10	100	NBR	**E321F32** [2]	**4270**	**486265**	14	14	2.0	3520
	14	45	2.7	-	0.3	40	25	-10	100	FKM	**E321F3202** [1234]	**2995**	**481865**	8	9	2.0	3520
	14	45	2.7	-	0.3	40	30	-10	120	FKM	**E321F3202** [1234]	**4270**	**481000**	8	8	2.0	3520
	14	45	2.7	-	0.3	40	40	-10	140	FKM	**E321F3202** [1234]	**4270**	**486265**	14	14	2.0	3520

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve only compatible with hydraulic oil and neutral liquids
4.With 4 position selector for controlled closure rate

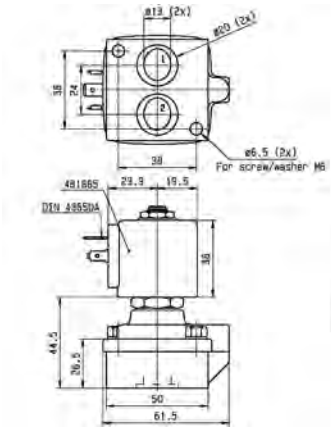
BRASS
SUB-BASE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14			2100	1.5	40	40	-10	50	PUR	**322F35**	**2995**	**481865**	8	9	2.1	7527
	14	46	2.76	-	0.3	40	40	-10	75	NBR	**322F72** [124]	**2995**	**481865**	8	9	2.1	3520
	14	46	2.76	-	0.3	40	40	-10	75	NBR	**322F72** [124]	**4270**	**481000**	8	8	2.1	3520
	14	45	2.7	-	0.3	40	40	0	100	FKM	**322F7206** [1234]	**2995**	**481865**	8	9	2.1/14.1	3520
	14	45	2.7	-	0.3	40	40	0	120	FKM	**322F7206** [1234]	**4270**	**481000**	8	8	2.1/14.1	3520

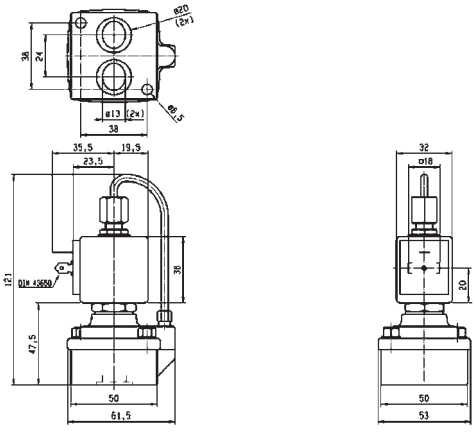
Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby
3.Valve only compatible with hydraulic oil and neutral liquids
4.With 4 position selector for controlled closure rate

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	14 mm	14	-	13	-10	-10
To	14 mm	14	46	40	140	50





Drawing 3520





Drawing 7527

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

NOTES



VALVES FOR WATER AND NEUTRAL LIQUIDS

Water

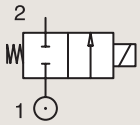
2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/8"	1.5 to 2	2	20	75	62
			1/4"	1.5 to 5	11	20	120	62
			3/8"	4 to 6	12	10	120	64
			1/2"	8.5 to 11	36	4	120	64
		Normally Open	1/4"	2.5	3	12	120	64
		Control by Electric Impulse	1/4"	5	11	5	100	66
	Brass/Sub-base Mounting	Normally Closed	5 mm	1.5 to 3	4.5	20	120	68
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/4"	11 to 12	32	12	120	74
			3/8"	11 to 13	50	20	140	70 and 74
			1/2"	11 to 13	50	20	140	70 and 76
			3/4"	18 to 20	140	20	140	70 and 78
			1"	18 to 25	180	20	140	70 and 80
			1 1/4"	28 to 35	420	16	140	72 and 80
			1 1/2"	40	500	16	140	72 and 80
			2"	40 to 50	620	16	140	72 and 80
		Normally Open	1/4"	12	32	12	120	84
			3/8"	12 to 13	50	20	140	82 and 84
			1/2"	12 to 15	60	20	140	82 and 84
			3/4"	18 to 20	140	20	140	82 and 84
			1"	18 to 25	180	20	140	80 and 86
			1 1/4"	35	420	10	140	82
			1 1/2"	40	500	10	140	82 and 86
			2"	50	620	10	140	82
			2 1/2"	65	1100	10	90	82
			3"	75	1334	10	90	82
	Brass/Sub-base Mounting	Normally Closed	14 mm	14	45	40	100	86

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

DIRECT OPERATED

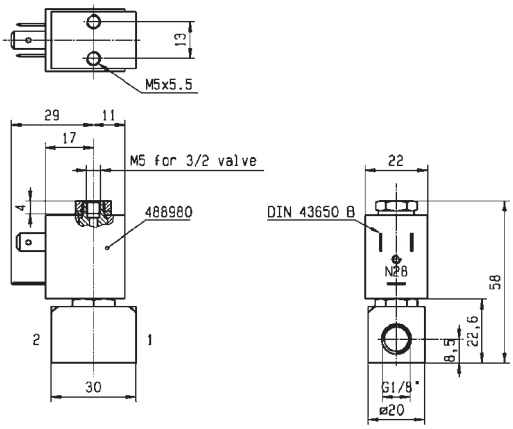
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8"	1.5	0.9	0.05	70	0	20	12	-10	75	FKM	121M14	8993	481180	4	5	1.1	3382
	1.5	0.9	0.05	70	0	20	4	-10	75	FKM	121M14	8993	488980	2	2.5	1.1	3382
	2	2	0.12	125	0	10	7	-10	75	FKM	121M13	8993	481180	4	5	1.1	3382
	2	2	0.12	125	0	10	2.5	-10	75	FKM	121M13	8993	488980	2	2.5	1.1	3382
1/4"	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	E121K0402	2995	481865	8	9	2.0/3.0	3510
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	E121K0402	4270	481000	8	8	2.0/3.0	3510
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	121K0706	2995	481865	8	9	2.0	3510
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121K0706	4270	481000	8	8	2.0	3510
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121K0706	4270	486265	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0302	2995	481865	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121K0302	4270	481000	8	8	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0302	4270	486265	14	14	2.0	3510
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121K0352 [1]	2995	481865	8	9	2.0	3510
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	E121K0352 [1]	4270	481000	8	8	2.0	3510
	3	4.5	0.27	320	0	10	10	-10	120	FKM	E121K0352 [1]	4270	486265	14	14	2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K02	2995	481865	8	9	2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K02	4270	481000	8	8	2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K02	4270	486265	14	14	2.0	3510
	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K0250 [1]	2995	481865	8	9	2.0	3510
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K0250 [1]	4270	481000	8	8	2.0	3510
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K0250 [1]	4270	486265	14	14	2.0	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K01	2995	481865	8	9	2.0/14.2	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K01	4270	481000	8	8	2.0/14.2	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K01	4270	486265	14	14	2.0/14.2	3510
	5	11	0.66	750	0	7	2	-10	100	FKM	121K0150 [1]	2995	481865	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K0150 [1]	4270	481000	8	8	2.0	3510
	5	11	0.66	750	0	7	5	-10	120	FKM	121K0150 [1]	4270	486265	14	14	2.0	3510

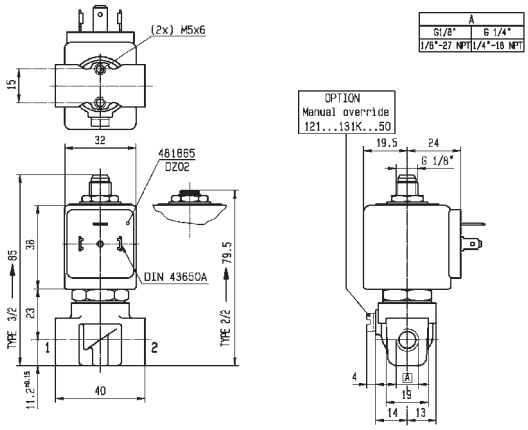
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	0.9	2	-10	-10
To	1/4"	5	11	20	120	50





Drawing 3382



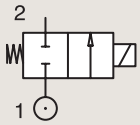


Drawing 3510

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

DIRECT OPERATED

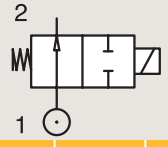
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551
1/2"	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	8	9	2.0	3427
	8.5	25	1.5	1600	0	2.2	0.5	-10	120	FKM	E121K46	4270	481000	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	486265	14	14	2.0	3427
	11	36	2.16	2500	0	0.7	0.3	-10	100	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481000	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	486265	14	14	2.0	3427

Notes:
1.With manual override

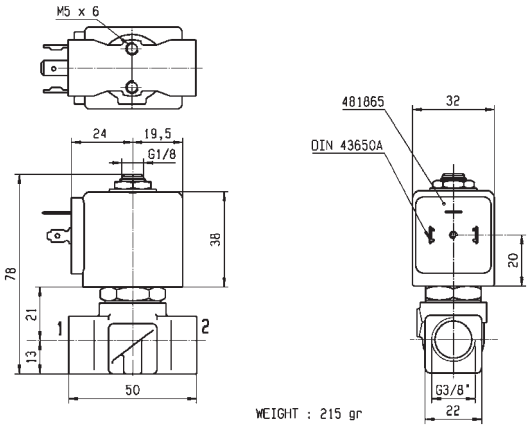
BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	2.5	3	0.18	180	0	12	12	-10	100	FKM	122K8306	2995	481865	8	9	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	481000	8	8	2.0	3510
	2.5	3	0.18	180	0	12	12	-10	120	FKM	122K8306	4270	486265	14	14	2.0	3510

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

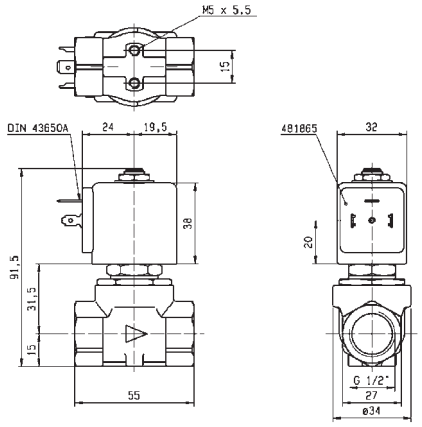
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	3	0.3	-10	-10
To	1/2"	11	36	12	120	50



WEIGHT : 215 gr

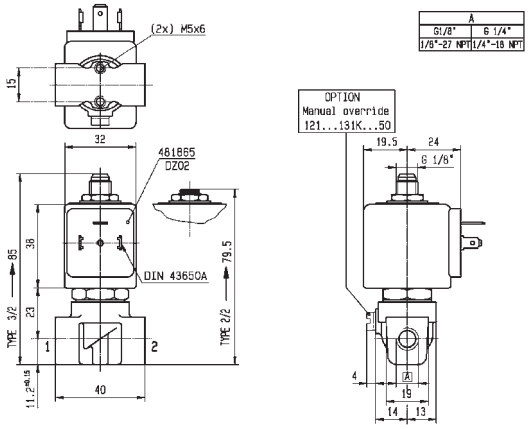


Drawing 3551





Drawing 3427





Drawing 3510

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

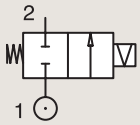
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

DIRECT OPERATED

BRASS

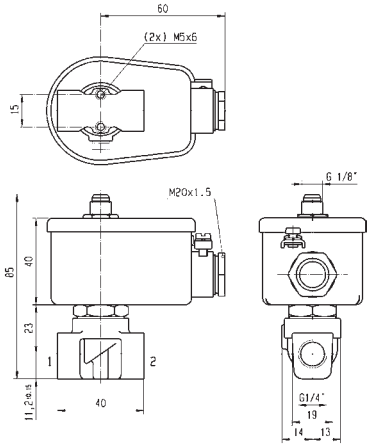
PIPE MOUNTING

CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	5	11	0.66	750	0	5	-	-10	100	FKM	**125K01**	**4269**	**484990**	11	-	4.0	8296
	5	11	0.66	750	0	-	1.5	-10	100	FKM	**125K01**	**4269**	**485400**	-	13	4.0	8296

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	5	11	1.5	-10	-10
To	1/4"	5	11	1.5	100	50





Drawing 8296

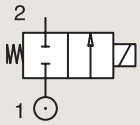
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

DIRECT OPERATED

BRASS

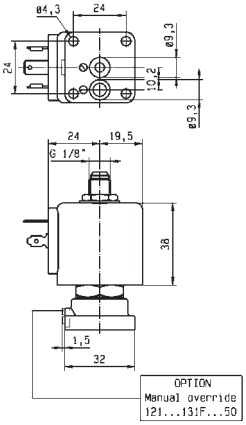
SUB-BASE MOUNTING



NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	**E121F4406**	**2995**	**481865**	8	9	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	**E121F4406**	**4270**	**481000**	8	8	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	**E121F4406**	**4270**	**486265**	14	14	2.0	3509
	3	4.5	0.27	320	0	10	7	-10	100	FKM	**E121F4302**	**2995**	**481865**	8	9	2.0/3.0	3509
	3	4.5	0.27	320	0	10	8.5	-10	120	FKM	**E121F4302**	**4270**	**481000**	8	8	2.0/3.0	3509
	3	4.5	0.27	320	0	10	10	-10	120	FKM	**E121F4302**	**4270**	**486265**	14	14	2.0/3.0	3509

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	7	-10	-10
To	5 mm	3	4.5	20	120	50



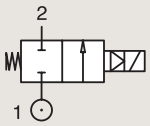


Drawing 3509

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

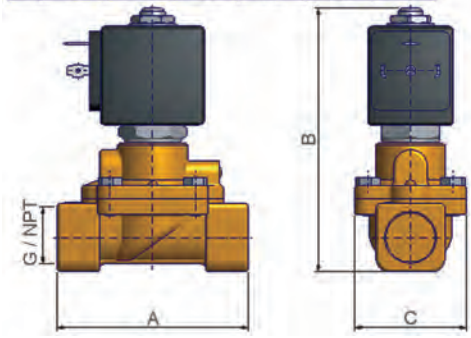


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	13	50	3	-	0.1	10	10	-10	140	EPDM	443778W$_1$	7321BIH00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443776W	7321BIN00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443777W$_2$	7321BIN01	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444492W	7321BIV00	481865	8	9	2.0	028
1/2"	13	50	3	-	0.1	10	10	-10	140	EPDM	443781W$_1$	7321BAH00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443779W	7321BAN00	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443780W$_2$	7321BAN01	481865	8	9	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444494W	7321BAV00	481865	8	9	2.0	028
3/4"	20	140	8.4	-	0.1	10	10	-10	140	EPDM	443785W$_1$	7321BCH00	481865	8	9	2.0	057
	20	140	8.4	-	0.1	20	20	-10	90	NBR	443782W	7321BCN00	481865	8	9	2.0	057
	20	140	8.4	-	0.1	10	10	-10	90	NBR	443783W$_2$	7321BCN01	481865	8	9	2.0	057
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444497W	7321BCV00	481865	8	9	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	140	EPDM	443789W$_1$	7321BDH00	481865	8	9	2.0	057
	25	160	9.6	-	0.1	20	20	-10	90	NBR	443786W	7321BDN00	481865	8	9	2.0	057
	25	160	9.6	-	0.1	10	10	-10	90	NBR	443787W$_2$	7321BDN01	481865	8	9	2.0	057
	25	160	9.6	-	0.1	20	20	-10	140	FKM	443804W	7321BDV00	481865	8	9	2.0	057

Notes:
1.Maximum pressure for steam: 4 Bar (140°C)
2.With manual override
Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	50	10	-10	-10
To	1"	25	160	20	140	50

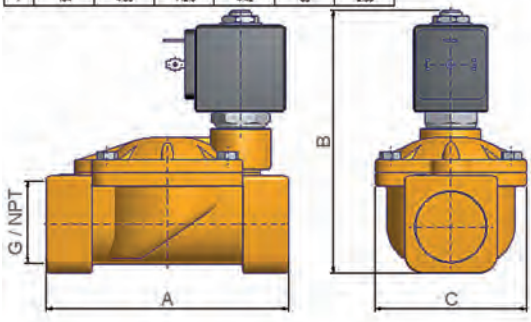
G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3/8"	69	2.71	99.5	3.91	40	1.57
1/2"	72	2.83	101.5	3.99	40	1.57

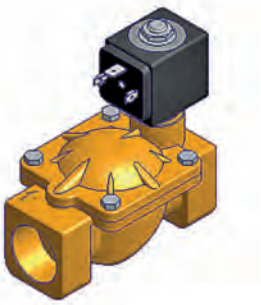




Drawing 028

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3/4"	100	3.83	107	4.21	65	2.55
1"	104	4.09	112.5	4.42	65	2.55





Drawing 057

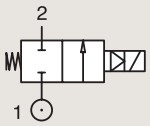
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

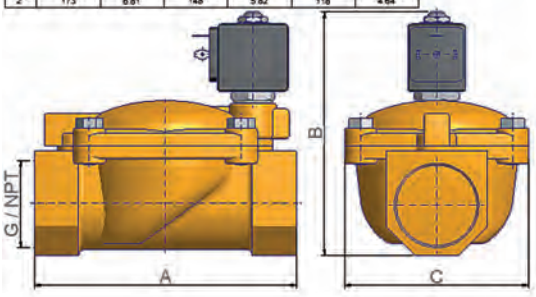


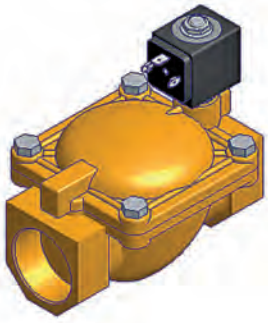
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	**443793W$_1$**	**7321BEH00**	**481865**	8	9	2.0	058
	35	420	25.2	-	0.1	10	10	-10	90	NBR	**443790W**	**7321BEN00**	**481865**	8	9	2.0	058
	35	420	25.2	-	0.1	5	5	-10	90	NBR	**443791W$_2$**	**7321BEN01**	**481865**	8	9	2.0	058
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	**443797W$_1$**	**7321BFH00**	**481865**	8	9	2.0	058
	40	500	30	-	0.1	10	10	-10	90	NBR	**443794W**	**7321BFN00**	**481865**	8	9	2.0	058
	40	500	30	-	0.1	5	5	-10	90	NBR	**443795W$_2$**	**7321BFN01**	**481865**	8	9	2.0	058
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	**443801W$_1$**	**7321BGH00**	**481865**	8	9	2.0	058
	50	620	37.2	-	0.1	10	10	-10	90	NBR	**443798W**	**7321BGN00**	**481865**	8	9	2.0	058
	50	620	37.2	-	0.1	5	5	-10	90	NBR	**443799W$_2$**	**7321BGN01**	**481865**	8	9	2.0	058

Notes:
1.Maximum pressure for steam: 4 Bar (140°C)
2.With manual override
Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1 1/4"	35	420	5	-10	-10
To	2"	50	620	10	140	50

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
1-1/4"	145	5.70	134	5.27	102	4.01
1-1/2"	145	5.70	134	5.27	102	4.01
2"	173	6.81	148	5.82	118	4.64





Drawing 058

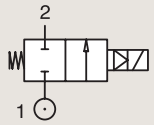
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

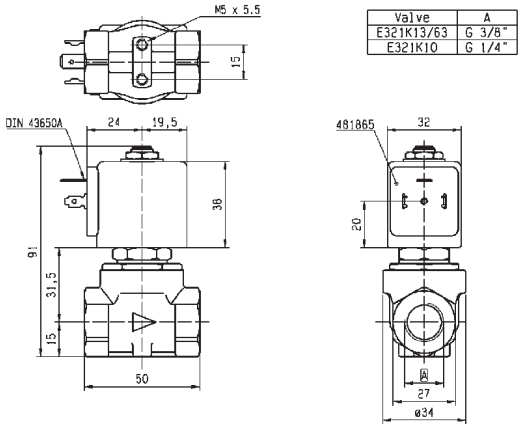
PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/4"	11	28	1.68	1800	0.2	10	3	-10	100	NBR	**E321K10**	**2995**	**481865**	8	9	2.0	3429
	11	28	1.68	1800	0.2	10	4	-10	100	NBR	**E321K10**	**4270**	**481000**	8	8	2.0	3429
	12	30	1.8	2150	0.3	10	10	-10	100	NBR	**321K31**	**8993**	**481180**	4	5	1.1	7093
	12	30	1.8	2150	0.3	10	7	-10	75	NBR	**321K31**	**8993**	**488980**	2	2.5	1.1	7093
	12	32	1.92	2150	0.3	12	12	-10	100	NBR	**321K4106**	**2995**	**481865**	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	NBR	**321K4106**	**4270**	**481000**	8	8	2.1/3.0	7094
3/8"	11	36	2.16	2500	0.2	10	4	-10	100	NBR	**E321K13**	**4270**	**481000**	8	8	2.0	3429
	11	36	2.16	2500	0.2	10	10	-10	100	NBR	**E321K13**	**4270**	**486265**	14	14	2.0	3429
	12	45	2.7	3050	0.3	10	10	-10	100	NBR	**321K33**	**8993**	**481180**	4	5	1.1	7093
	12	45	2.7	3050	0.3	10	7	-10	75	NBR	**321K33**	**8993**	**488980**	2	2.5	1.1	7093
	12	45	2.7	3050	0.3	12	12	-10	100	FKM	**321K4306**	**2995**	**481865**	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	**321K4306**	**4270**	**481000**	8	8	2.1/3.0	7094

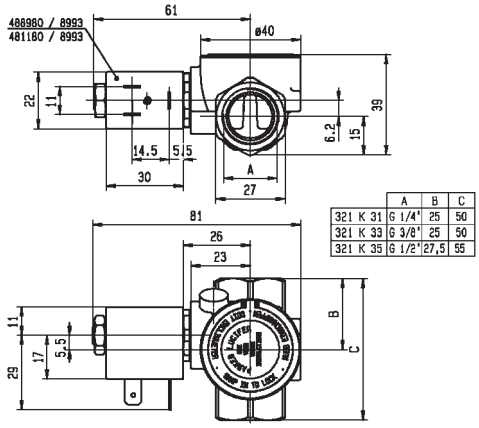
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	11	28	3	-10	-10
To	3/8"	12	45	12	120	50



Valve	A
E321K13/63	G 3/8"
E321K10	G 1/4"



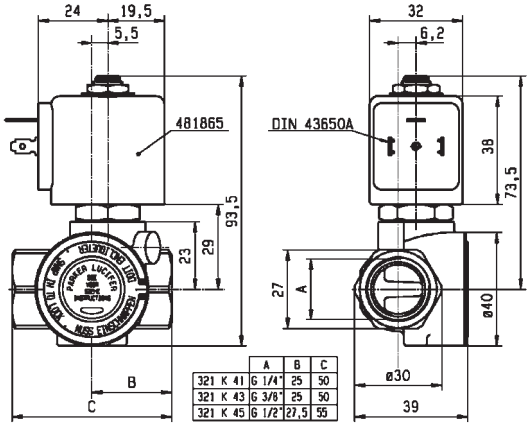
Drawing 3429



	A	B	C
321 K 31	G 1/4"	25	50
321 K 33	G 3/8"	25	50
321 K 35	G 1/2"	27,5	55



Drawing 7093



	A	B	C
321 K 41	G 1/4"	25	50
321 K 43	G 3/8"	25	50
321 K 45	G 1/2"	27,5	55



Drawing 7094

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

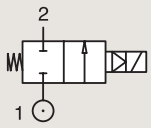
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

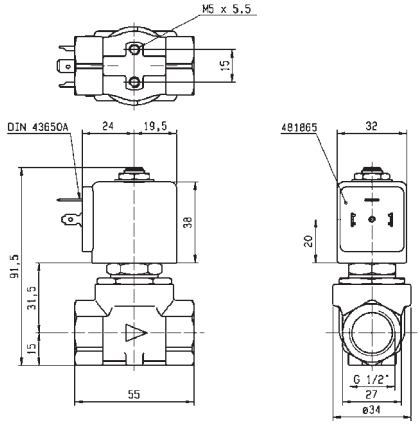


Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	Max(MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	**E321K15**	**2995**	**481865**	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	10	-10	120	NBR	**E321K15**	**4270**	**486265**	14	14	2.0	3427
	11	36	2.16	2500	0.2	10	3	-10	100	FKM	**E321K25**	**2995**	**481865**	8	9	2.0	3427
	11	36	2.16	2500	0.2	4	4	-10	65	FKM	**E321K25**	**-**	**492070**	9	8	2.0	3427
	12	50	3	3400	0.3	10	10	-10	100	NBR	**321K35**	**8993**	**481180**	4	5	1.1	7093
	12	50	3	3400	0.3	10	7	-10	75	NBR	**321K35**	**8993**	**488980**	2	2.5	1.1	7093
	12	50	3	3400	0.3	12	12	-10	100	FKM	**321K4506**	**2995**	**481865**	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	**321K4506**	**4270**	**481000**	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	100	FKM	**321K4556** [1]	**2995**	**481865**	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	**321K4556** [1]	**4270**	**481000**	8	8	2.1/3.0	7094

Notes:
1.With manual override

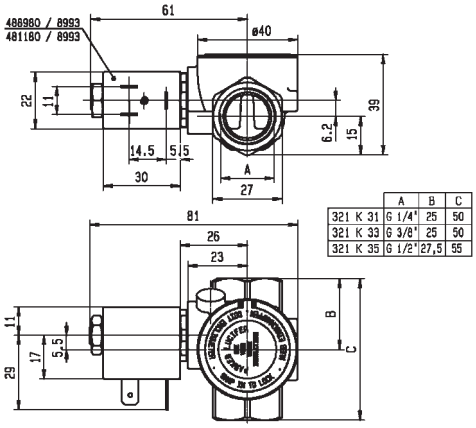
Parker Hannifin Corporation
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General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	36	3	-10	-10
To	1/2"	12	50	12	120	50





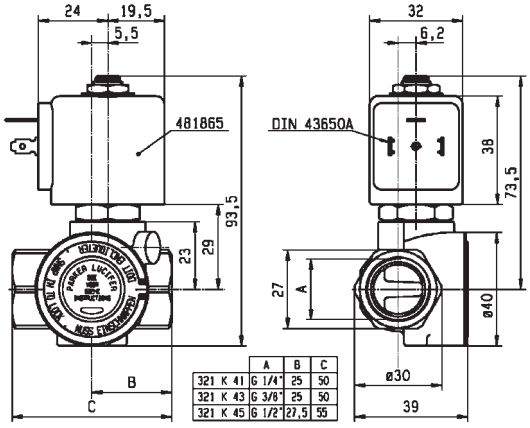
Drawing 3427



	A	B	C
321 K 31	G 1/4"	25	50
321 K 33	G 3/8"	25	50
321 K 35	G 1/2"	27,5	55



Drawing 7093



	A	B	C
321 K 41	G 1/4"	25	50
321 K 43	G 3/8"	25	50
321 K 45	G 1/2"	27,5	55



Drawing 7094

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

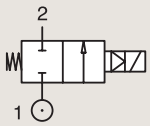
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

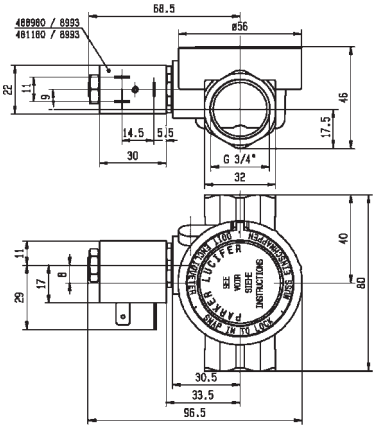
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/4"	18	100	6	9400	0.3	10	10	-10	100	NBR	**321K36**	**8993**	**481180**	4	5	1.1	7097
	18	100	6	9400	0.3	10	7	-10	75	NBR	**321K36**	**8993**	**488980**	2	2.5	1.1	7097
	18	100	6	9400	0.3	12	12	-10	100	FKM	**321K4606**	**2995**	**481865**	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	**321K4606**	**4270**	**481000**	8	8	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	100	FKM	**321K4656** [1]	**2995**	**481865**	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	**321K4656** [1]	**4270**	**481000**	8	8	2.1/3.0	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**E321G36**	**2995**	**481865**	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**E321G36**	**4270**	**481000**	8	8	2.0	3442

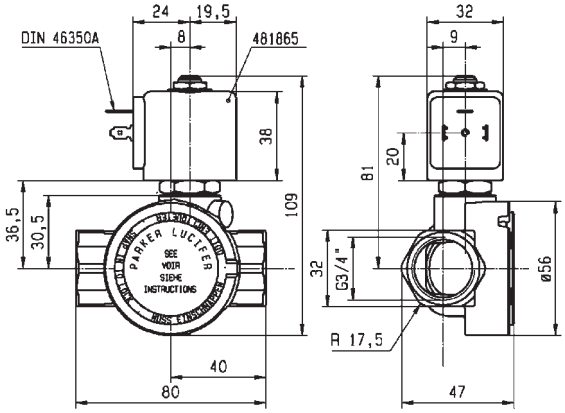
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	18	100	7	-10	-10
To	3/4"	20	135	16	120	50



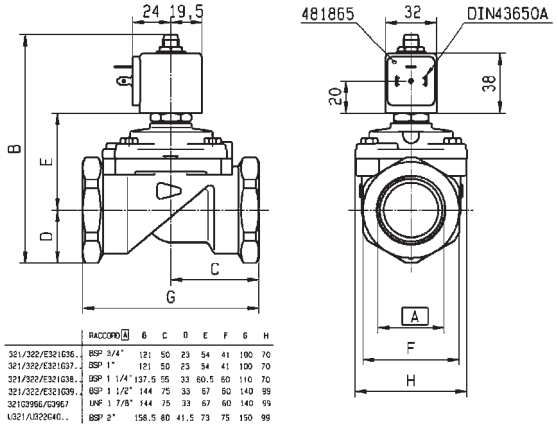


Drawing 7097





Drawing 7099



	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"		121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"		121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"		137.5	55	33	60.5	60	110	70
321/322/E321G39..	BSP 1 1/2"		144	75	33	67	60	140	99
321G3956/G3967	UNF 1 7/8"		144	75	33	67	60	140	99
U321/U322G40..	BSP 2"		158.5	80	41.5	73	75	150	99



Drawing 3442

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

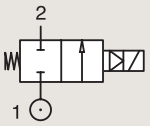
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

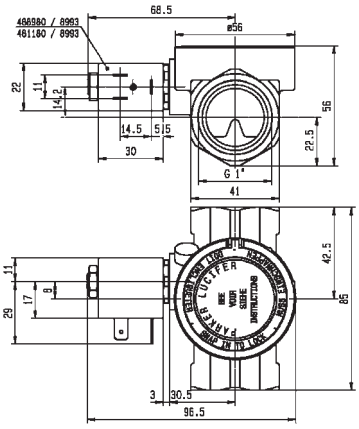
NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	**321K37**	**8993**	**481180**	4	5	1.1	7098
	18	110	6.6	10150	0.3	10	7	-10	75	NBR	**321K37**	**8993**	**488980**	2	2.5	1.1	7098
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	**321K4706**	**2995**	**481865**	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	**321K4706**	**4270**	**481000**	8	8	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	**321K4756** [2]	**2995**	**481865**	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	**321K4756** [2]	**4270**	**481000**	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	**E321G37**	**2995**	**481865**	8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	**E321G37**	**4270**	**481000**	8	8	2.0	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	**E321G38**	**2995**	**481865**	8	9	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	**E321G38**	**4270**	**481000**	8	8	2.0	3442
1 1/2"	40	420	25.2	31500	0.3	16	7	-10	100	NBR	**E321G39** [1]	**2995**	**481865**	8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	NBR	**E321G39** [1]	**4270**	**481000**	8	8	2.0	3442
2"	40	540	32.4	40000	0.3	16	7	-10	100	NBR	**E321G40** [1]	**2995**	**481865**	8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	NBR	**E321G40** [1]	**4270**	**481000**	8	8	2.0	3442

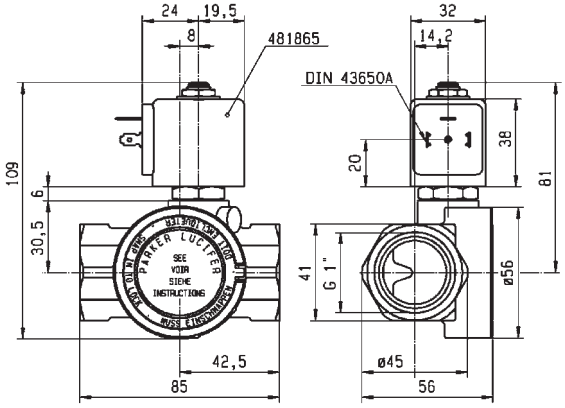
Notes:
1.Pilot seat disc in synthetic Ruby
2.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	18	110	7	-10	-10
To	2"	40	540	16	120	50



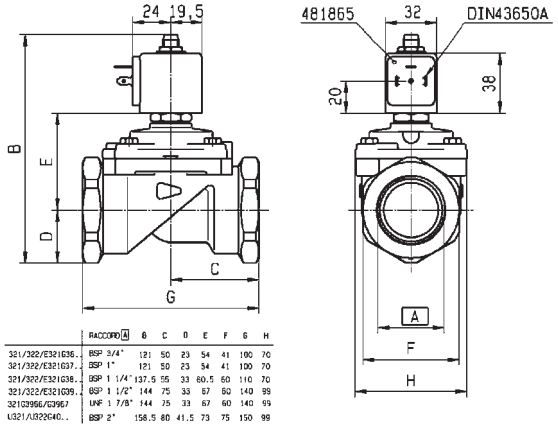


Drawing 7098





Drawing 7100



	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"		121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"		121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"		137.5	55	33	60.5	60	110	70
321/322/E321G39..	BSP 1 1/2"		144	75	33	67	60	140	99
321G3956/G3967	UNF 1 7/8"		144	75	33	67	60	140	99
U321/U322G40..	BSP 2"		158.5	80	41.5	73	75	150	99



Drawing 3442

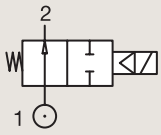
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

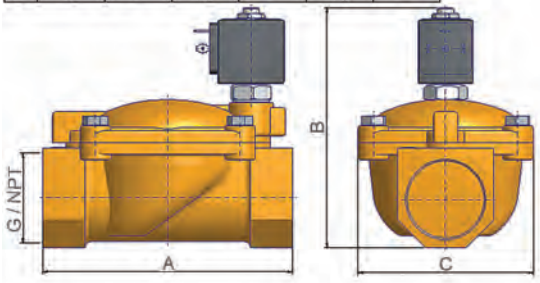
NORMALLY OPEN

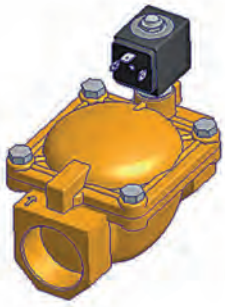


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
	13	50	3	-	0.1	10	10	-10	140	EPDM	444600W	7322BIH00	481865	8	9	2.0	060
3/8"	13	50	3	-	0.1	20	20	-10	90	NBR	443805W	7322BIN00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	140	FKM	444499W	7322BIV00	481865	8	9	2.0	060
	13	50	3	-	0.1	10	10	-10	140	EPDM	444601W	7322BAH00	481865	8	9	2.0	060
1/2"	13	50	3	-	0.1	20	20	-10	90	NBR	443806W	7322BAN00	481865	8	9	2.0	060
	13	50	3	-	0.1	20	20	-10	140	FKM	444500W	7322BAV00	481865	8	9	2.0	060
	20	140	8.4	-	0.1	10	10	-10	140	EPDM	444602W	7322BCH00	481865	8	9	2.0	061
3/4"	20	140	8.4	-	0.1	20	20	-10	90	NBR	443807W	7322BCN00	481865	8	9	2.0	061
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444501W	7322BCV00	481865	8	9	2.0	061
	25	160	9.6	-	0.1	10	10	-10	140	EPDM	444603W	7322BDH00	481865	8	9	2.0	061
1"	25	160	9.6	-	0.1	20	20	-10	90	NBR	443808W	7322BDN00	481865	8	9	2.0	061
	25	160	9.6	-	0.1	20	20	-10	140	FKM	444502W	7322BDV00	481865	8	9	2.0	061
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	444576W	7322BEH00	481865	8	9	2.0	062
	35	420	25.2	-	0.1	10	10	-10	90	NBR	443809W	7322BEN00	481865	8	9	2.0	062
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	444604W	7322BFH00	481865	8	9	2.0	062
	40	500	30	-	0.1	10	10	-10	90	NBR	443810W	7322BFN00	481865	8	9	2.0	062
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	444605W	7322BGH00	481865	8	9	2.0	062
	50	620	37.2	-	0.1	10	10	-10	90	NBR	443811W	7322BGN00	481865	8	9	2.0	062
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	444513W	7322BLN06	481865	8	9	2.0	063
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	444503W	7322BMN06	481865	8	9	2.0	063

Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
1-1/4"	145	5.70	144.5	5.68	102	4.01
1-1/2"	145	--	134	--	102	--
2"	173	--	148	--	118	--

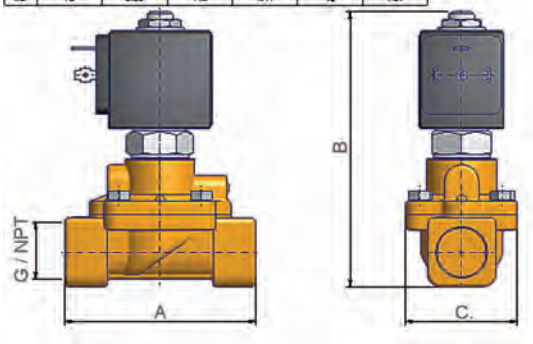


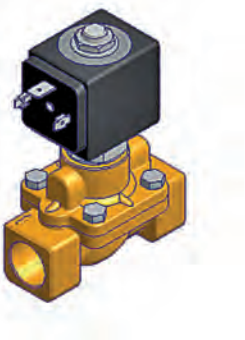


Drawing 062

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	13	50	10	-10	-10
To	3"	75	1334	20	140	50

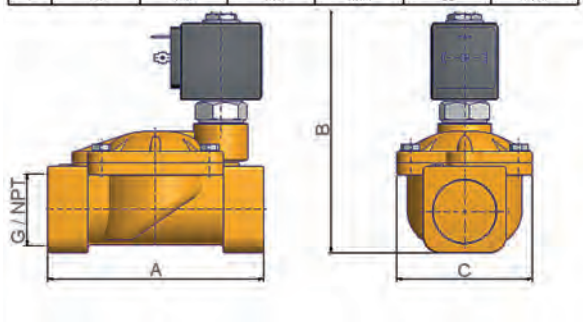
G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3/8"	69	2.71	110	4.33	40	1.57
1/2"	72	2.83	112	4.41	40	1.57

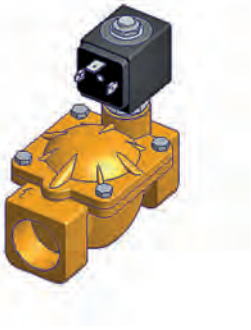




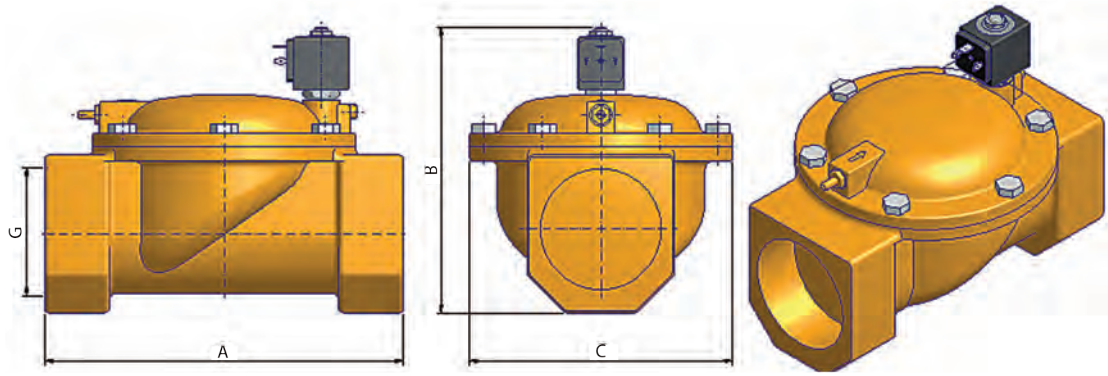
Drawing 060

G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3/4"	100	3.83	117.5	4.62	65	2.55
1"	104	4.09	123	4.84	65	2.55





Drawing 061



Drawing 063

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

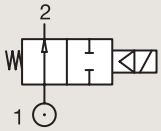
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

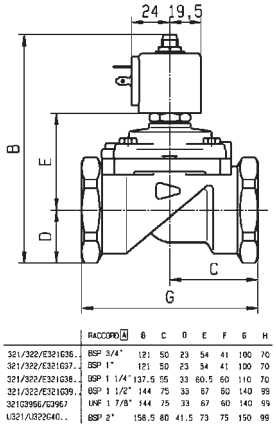
BRASS

PIPE MOUNTING

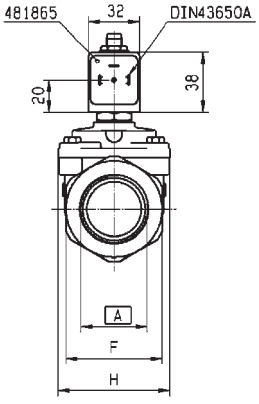
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	12	-10	100	FKM	**322K4106**	**2995**	**481865**	8	9	2.1	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	**322K4106**	**4270**	**481000**	8	8	2.1	7094
3/8"	12	45	2.7	3050	0.3	12	12	-10	100	FKM	**322K4306**	**2995**	**481865**	8	9	2.1	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	**322K4306**	**4270**	**481000**	8	8	2.1	7094
1/2"	12	50	3	3400	0.3	12	12	-10	100	FKM	**322K4506**	**2995**	**481865**	8	9	2.1	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	**322K4506**	**4270**	**481000**	8	8	2.1	7094
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	**322G75**	**2995**	**481865**	8	9	2.1	3522
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	**322G75**	**4270**	**481000**	8	8	2.1	3522
3/4"	18	100	6	9400	0.3	12	12	-10	100	FKM	**322K4606**	**2995**	**481865**	8	9	2.1	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	**322K4606**	**4270**	**481000**	8	8	2.1	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**322G36**	**2995**	**481865**	8	9	2.1	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**322G36**	**4270**	**481000**	8	8	2.1	3442



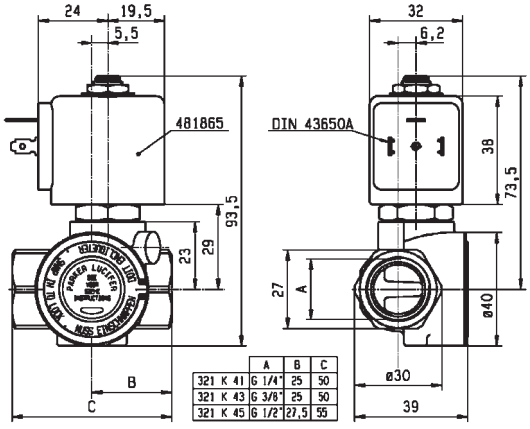
	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36..	BSP	3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP	1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP	1 1/4"	137.5	55	33	60.5	60	110	70
321/322/E321G39..	BSP	1 1/2"	144	75	33	67	60	140	99
321G3956/G3967	UNF	1 7/8"	144	75	33	67	60	140	99
U321/U322G40..	BSP	2"	158.5	80	41.5	73	75	150	99





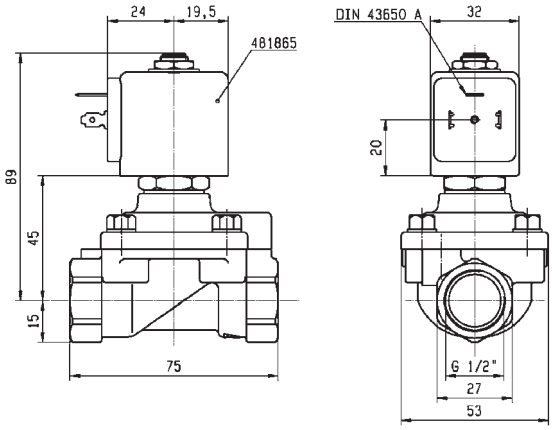
Drawing 3442

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	12	32	12	-10	-10
To	3/4"	20	135	16	120	50



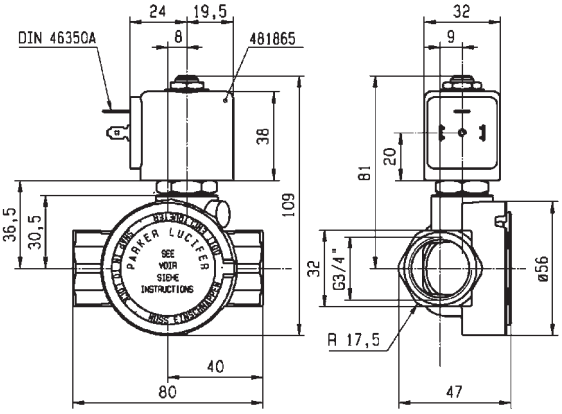


Drawing 7094





Drawing 3522





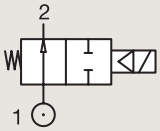
Drawing 7099

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

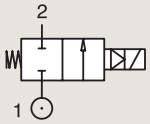
PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1"	18	110	6.6	10150	0.3	12	12	-10	100	FKM	322K4706	2995	481865	8	9	2.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	322K4706	4270	481000	8	8	2.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G37	4270	481000	8	8	2.1	3442
1 1/2"	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	2995	481865	8	9	2.1	3442
	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442

BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED

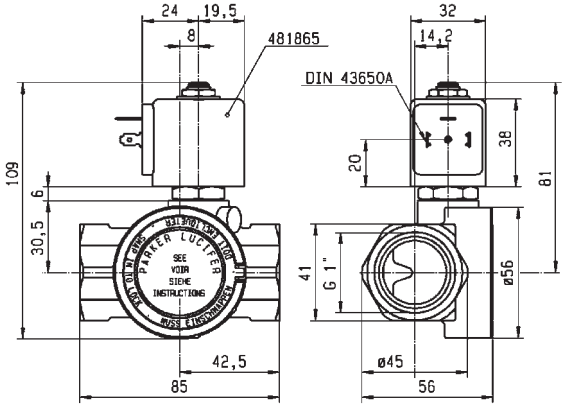


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14	45	2.7	2100	0.3	40	25	-10	100	NBR	E321F32 [1]	2995	481865	8	9	2.0	3520
	14	45	2.7	2100	0.3	40	30	-10	100	NBR	E321F32 [1]	4270	481000	8	8	2.0	3520
	14	45	2.7	2100	0.3	40	40	-10	100	NBR	E321F32 [1]	4270	486265	14	14	2.0	3520

Notes:
1.Pilot seat disc in synthetic Ruby

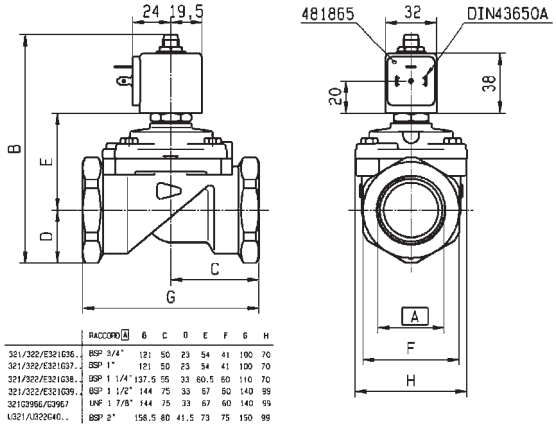
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General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	14 mm	14	45	12	-10	-10
To	1 1/2"	40	420	40	120	50





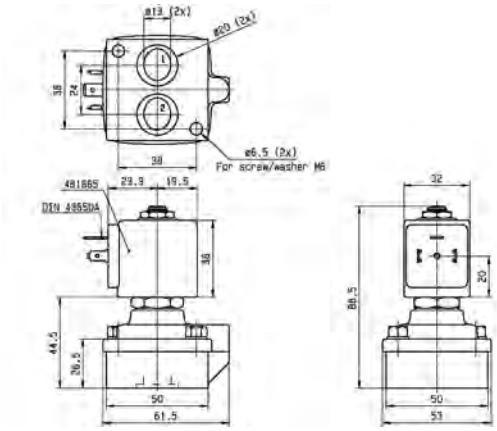
Drawing 7100



	RACCORD A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"	137.5	55	33	60.5	50	110	70
321/322/E321G39..	BSP 1 1/2"	144	75	33	67	50	140	99
3212966/E2967	UNF 1 7/8"	144	75	33	67	60	140	99
U321/U322G40..	BSP 2"	158.5	80	41.5	73	75	150	99



Drawing 3442





Drawing 3520

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

NOTES



ANTI WATER HAMMER VALVES

Water

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Magnalift	**Brass/Pipe Mounting**	**Normally Closed**	1"	15 to 25	170	10	140	**90**
Pilot Operated	**Brass/Pipe Mounting**	**Normally Closed**	1/4"	12	32	12	120	**94**
			3/8"	12	45	12	120	**94**
			1/2"	12	50	12	120	**94**
			3/4"	18 to 20	135	16	120	**94**
			1"	18 to 25	180	16	120	**92 and 96**
			1 1/4"	28 to 35	420	16	100	**92 and 96**
			1 1/2"	40	500	16	100	**92 and 96**
			2"	40 to 50	620	16	100	**92 and 96**
			2 1/2"	65	1100	10	90	**92**
			3"	75	1334	10	90	**92**
		Normally Open	3/4"	20	135	16	100	**98**
			1"	25	180	16	100	**98**
			1 1/4"	28	270	16	100	**98**
			1 1/2"	40	425	12	100	**98**
			2"	40	540	12	100	**98**

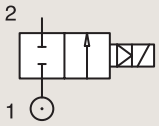
2/2 ANTI WATER HAMMER VALVES

MAGNALIFT



Commercial Equipment

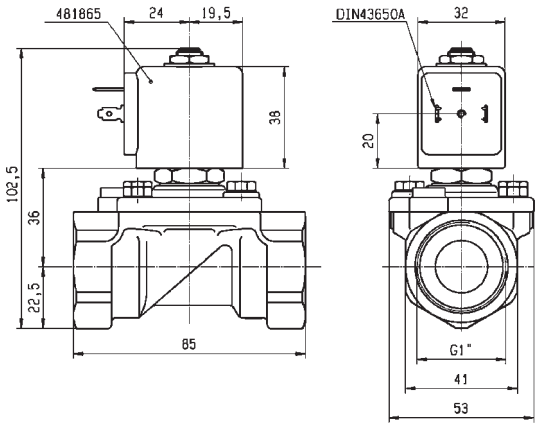
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1"	15	80	4.8	6000	0	-	10	-10	100	NBR	**221G1731** $_{12}$	**2995**	**481865**	-	9	2.1	3445
	15	80	4.8	6000	0	10	10	-10	65	NBR	**221G1731** $_{12}$	**-**	**492070**	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	75	NBR	**221G1731** $_{12}$	**-**	**492190**	11	9	2.1	3445
	25	160	9.6	-	0	10	-	0	100	EPDM	**221G2103**	**2995**	**481865**	8	-	2.0	3448
	25	160	9.6	-	0	10	-	0	120	EPDM	**221G2103**	**4270**	**481000**	8	-	2.0	3448
	25	160	9.6	-	0	10	10	0	120	EPDM	**221G2103**	**4270**	**486265**	14	14	2.0	3448
	25	160	9.6	-	0	4	4	0	140	EPDM	**221G2103**	**2995**	**492425**	14	14	2.0	3448
	25	170	10.2	14000	0	-	10	-10	100	NBR	**221G2131** $_{12}$	**2995**	**481865**	-	9	2.1	3448
	25	170	10.2	14000	0	10	10	-25	40	NBR	**221G2131** $_{12}$	**-**	**492070**	9	8	2.1	3448
	25	170	10.2	14000	0	10	10	-25	40	NBR	**221G2131** $_{12}$	**-**	**492190**	11	9	2.1	3448

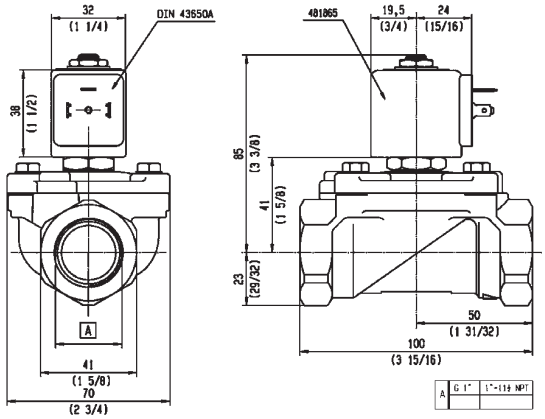
Notes:
1.Valves with model number ending in 30 or 31 are only compatible with explosion proof electrical parts shown, or with group 2.1 coils only in DC voltage.
2.With 4 position selector for controlled closure rate

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	15	80	4	-25	-10
To	1"	25	170	10	140	50





Drawing 3445



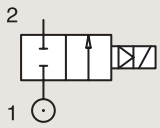


Drawing 3448

2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



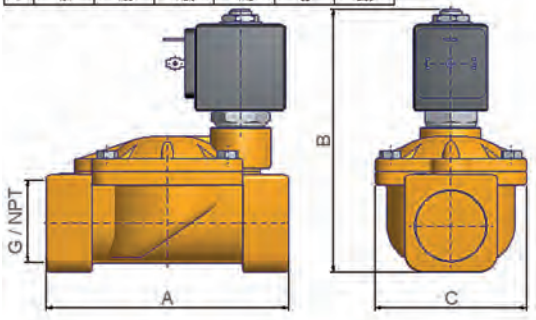
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/4"	20	140	8.4	-	0.1	10	10	-10	90	NBR	443784W[1]	7321BCN02	481865	8	9	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	90	NBR	443788W[1]	7321BDN02	481865	8	9	2.0	057
1 1/4"	35	420	25.2	-	0.1	5	5	-10	90	NBR	443792W[1]	7321BEN02	481865	8	9	2.0	058
1 1/2"	40	500	30	-	0.1	5	5	-10	90	NBR	443796W[1]	7321BFN02	481865	8	9	2.0	058
2"	50	620	37.2	-	0.1	5	5	-10	90	NBR	443800W[1]	7321BGN02	481865	8	9	2.0	058
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	443802W[1]	7321BLN02	481865	8	9	2.0	059
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	443803W[1]	7321BMN02	481865	8	9	2.0	059

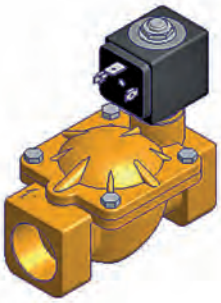
Notes:
1.With manual override

Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	20	140	5	-10	-10
To	3"	75	1334	10	90	50

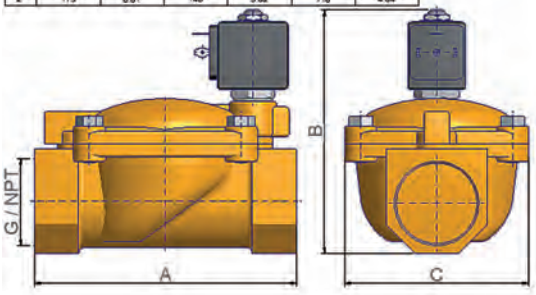
G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
3/4"	100	3.83	107	4.21	65	2.55
1"	104	4.09	112.5	4.42	65	2.55

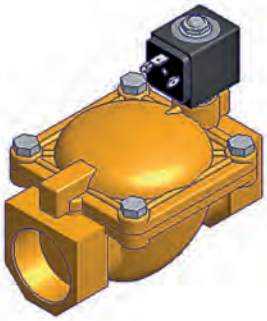




Drawing 057

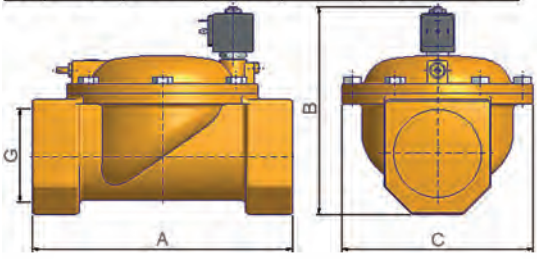
G	A		B		C	
NPT	mm	inch	mm	inch	mm	inch
1-1/4"	145	5.70	134	5.27	102	4.01
1-1/2"	145	5.70	134	5.27	102	4.01
2"	173	6.81	148	5.82	118	4.64

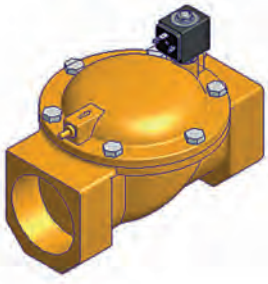




Drawing 058

G	A		B		C	
	mm	inch	mm	inch	mm	inch
2-1/2"	245	---	195	---	184	---
3"	250	---	195	---	184	---





Drawing 059

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

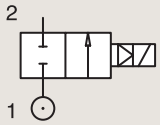
2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



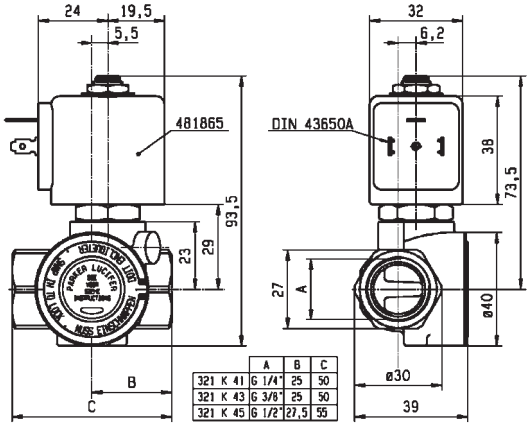
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	12	-10	100	NBR	**321K4106**	**2995**	**481865**	8	9	2.1/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	NBR	**321K4106**	**4270**	**481000**	8	8	2.1/3.0	7094
3/8"	12	45	2.7	3050	0.3	12	12	-10	100	FKM	**321K4306**	**2995**	**481865**	8	9	2.1/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	**321K4306**	**4270**	**481000**	8	8	2.1/3.0	7094
1/2"	12	50	3	3400	0.3	12	12	-10	100	FKM	**321K4506**	**2995**	**481865**	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	**321K4506**	**4270**	**481000**	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	100	FKM	**321K4556** [1]	**2995**	**481865**	8	9	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	**321K4556** [1]	**4270**	**481000**	8	8	2.1/3.0	7094
3/4"	18	100	6	9400	0.3	12	12	-10	100	FKM	**321K4606**	**2995**	**481865**	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	**321K4606**	**4270**	**481000**	8	8	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	100	FKM	**321K4656** [1]	**2995**	**481865**	8	9	2.1/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	**321K4656** [1]	**4270**	**481000**	8	8	2.1/3.0	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**E321G3610** [2]	**2995**	**481865**	8	9	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	**E321G3610** [2]	**4270**	**481000**	8	8	2.0	3442

Notes:

1.With manual override

2.With manual override and 4 position selector for controlled closure rate - without manual override and without 4 position selector on request: use same reference removing suffix '10', e.g. E321G36

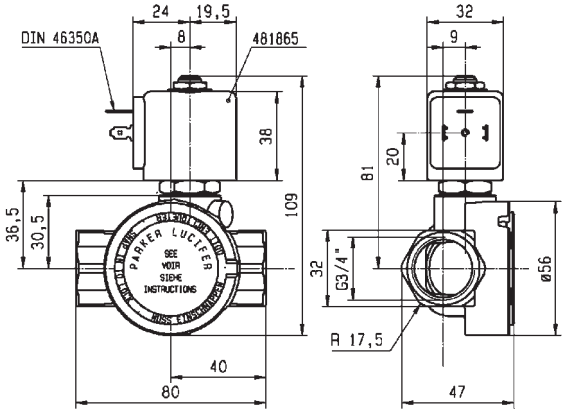
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	12	32	12	-10	-10
To	3/4"	20	135	16	120	50



	A	B	C
321 K 41	G 1/4"	25	50
321 K 43	G 3/8"	25	50
321 K 45	G 1/2"	27,5	55

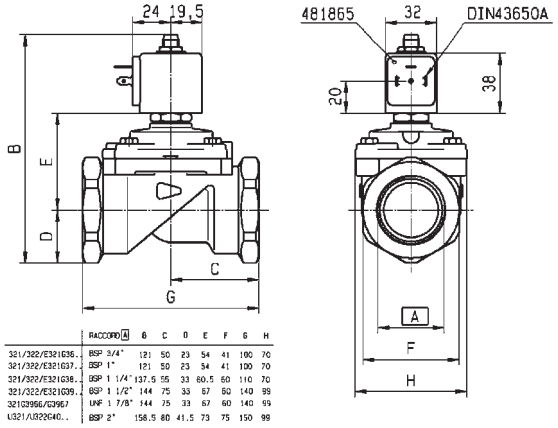


Drawing 7094





Drawing 7099



	RACCORD	A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"		121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"		121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"		137.5	55	33	60.5	60	110	70
321/322/E321G39..	BSP 1 1/2"		144	75	33	67	60	140	99
321G3956/G3967	UNF 1 7/8"		144	75	33	67	60	140	99
U321/U322G40..	BSP 2"		158.5	80	41.5	73	75	150	99



Drawing 3442

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

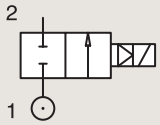
2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

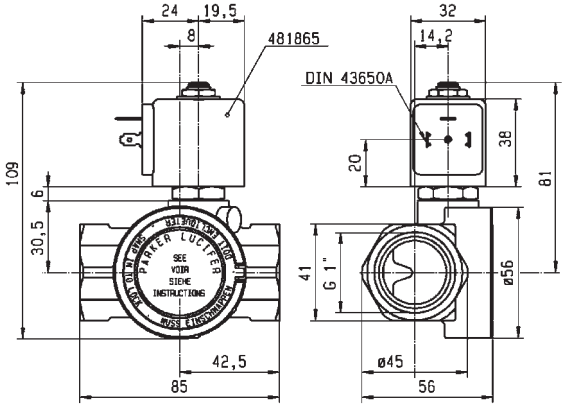
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1"	18	110	6.6	10150	0.3	12	12	-10	100	FKM	**321K4706**	**2995**	**481865**	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	**321K4706**	**4270**	**481000**	8	8	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	100	FKM	**321K4756** [1]	**2995**	**481865**	8	9	2.1/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	**321K4756** [1]	**4270**	**481000**	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	**E321G3710** [2]	**2995**	**481865**	8	9	2.0	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	**E321G3710** [2]	**4270**	**481000**	8	8	2.0	3442
1 1/4"	28	280	16.8	18000	0.3	16	16	-10	100	NBR	**E321G3810** [2]	**2995**	**481865**	8	9	2.0	3442
	28	280	16.8	18000	0.3	16	16	-10	100	NBR	**E321G3810** [2]	**4270**	**481000**	8	8	2.0	3442
1 1/2"	40	420	25.2	31500	0.3	16	7	-10	100	FKM	**E321G3910** [2]	**2995**	**481865**	8	9	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	FKM	**E321G3910** [2]	**4270**	**481000**	8	8	2.0	3442
2"	40	540	32.4	40000	0.3	16	7	-10	100	FKM	**E321G4010** [2]	**2995**	**481865**	8	9	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	FKM	**E321G4010** [2]	**4270**	**481000**	8	8	2.0	3442

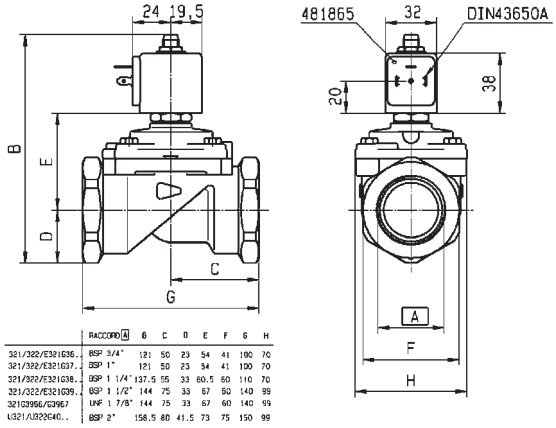
Notes:
1.With manual override
2.With manual override and 4 position selector for controlled closure rate - without manual override and without 4 position selector on request: use same reference removing suffix '10', e.g. E321G36

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1"	18	110	7	-10	-10
To	2"	40	540	16	120	50





Drawing 7100



	RACCORD A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"	137.5	55	33	60.5	50	110	70
321/322/E321G39..	BSP 1 1/2"	144	75	33	67	50	140	99
3212356/E2367	UNF 1 7/8"	144	75	33	67	50	140	99
U321/U322G40..	BSP 2"	158.5	80	41.5	73	75	150	99



Drawing 3442

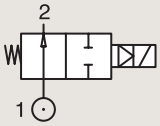
2/2 ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

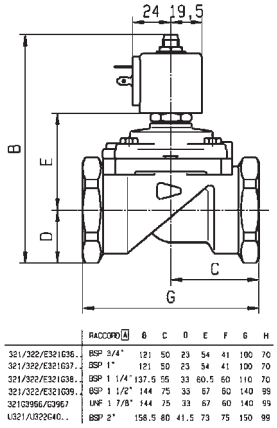
NORMALLY OPEN

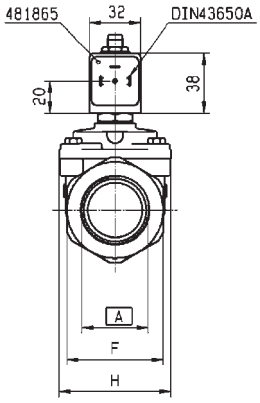


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/4"	20	135	8.1	9300	0.3	16	16	-10	100	NBR	322G3610 [1]	2995	481865	8	9	2.1	3442
	20	135	8.1	9300	0.3	16	16	-10	100	NBR	322G3610 [1]	4270	481000	8	8	2.1	3442
1"	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G3710 [1]	2995	481865	8	9	2.1	3442
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	322G3710 [1]	4270	481000	8	8	2.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G3810 [1]	2995	481865	8	9	2.1	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	322G3810 [1]	4270	481000	8	8	2.1	3442
1 1/2"	40	425	25.5	31000	0.3	12	12	-10	100	NBR	322G3910 [1]	2995	481865	8	9	2.1	3442
	40	425	25.5	31000	0.3	12	12	-10	100	NBR	322G3910 [1]	4270	481000	8	8	2.1	3442
2"	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G4010 [1]	2995	481865	8	9	2.1	3442
	40	540	32.4	40000	0.3	12	12	-10	100	NBR	322G4010 [1]	4270	481000	8	8	2.1	3442

Notes:
1.With 4 position selector for controlled closure rate

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	20	135	12	-10	-10
To	2"	40	540	16	100	50





	RACCORD A	B	C	D	E	F	G	H
321/322/E321G36..	BSP 3/4"	121	50	23	54	41	100	70
321/322/E321G37..	BSP 1"	121	50	23	54	41	100	70
321/322/E321G38..	BSP 1 1/4"	137.5	55	33	60.5	60	110	70
321/322/E321G39..	BSP 1 1/2"	144	75	33	67	60	140	99
321C996E/C996T	UNF 1 7/8"	144	75	33	67	60	140	99
U321/U322G40..	BSP 2"	158.5	80	41.5	73	75	150	99



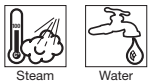
Drawing 3442

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

NOTES



HOT WATER AND STEAM VALVES



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valvess
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/4"	3 to 5	11	10	120	**102**
			3/8"	6	12	5	140	**102**
			1/2"	8.5 to 11	36	4	120	**102**
	303 Stainless St./Pipe Mounting	Normally Closed	1/4"	1.5 to 5	10	100	180	**104**
Magnalift	Brass/Pipe Mounting	Normally Closed	3/8"	15	65	10	140	**106**
			1/2"	15	65	10	140	**106**
			3/4"	15	80	10	140	**106**
			1"	15	80	10	140	**106**
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/2"	11 to 16	36	10	140	**108**

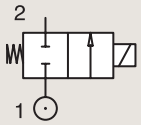
2/2 HOT WATER AND STEAM VALVES

DIRECT OPERATED

BRASS

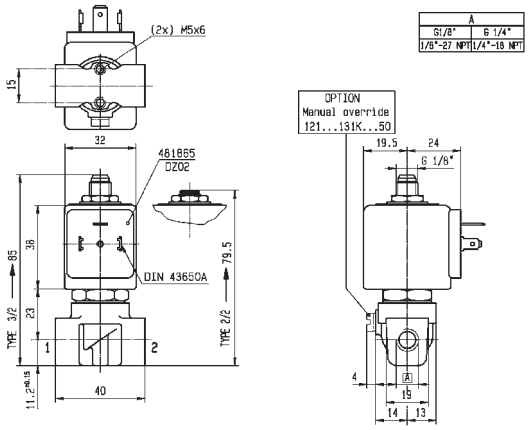
PIPE MOUNTING

NORMALLY CLOSED



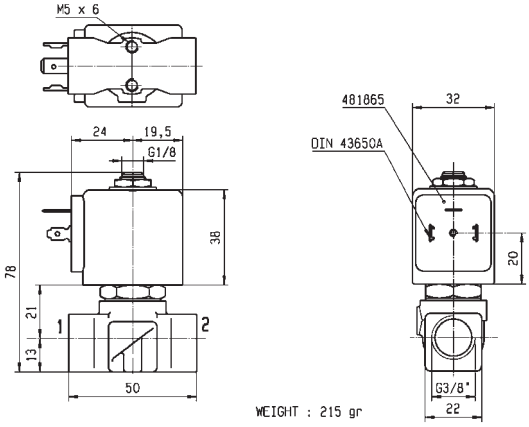
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	3	4.5	0.27	-	0	10	7	0	100	EPDM	**121K0323**	**2995**	**481865**	8	9	2.0	3510
	3	4.5	0.27	-	0	10	8.5	0	120	EPDM	**121K0323**	**4270**	**481000**	8	8	2.0	3510
	3	4.5	0.27	-	0	10	10	0	120	EPDM	**121K0323**	**4270**	**486265**	14	14	2.0	3510
	3	4.5	0.27	-	0	10	10	0	120	EPDM	**121K0323**	**2995**	**492425**	14	14	2.0	3510
	5	11	0.66	750	0	7	2	0	100	EPDM	**121K0103**	**2995**	**481865**	8	9	2.0	3510
	5	11	0.66	750	0	7	2.8	0	120	EPDM	**121K0103**	**4270**	**481000**	8	8	2.0	3510
	5	11	0.66	750	0	7	5	0	120	EPDM	**121K0103**	**4270**	**486265**	14	14	2.0	3510
	5	11	0.66	750	0	4	3.5	0	120	EPDM	**121K0103**	**2995**	**492425**	14	14	2.0	3510
3/8"	6	12	0.72	1100	0	5	1.1	0	100	EPDM	**121K3303**	**2995**	**481865**	8	9	2.0	3551
	6	12	0.72	1100	0	5	1.5	0	120	EPDM	**121K3303**	**4270**	**481000**	8	8	2.0	3551
	6	12	0.72	1100	0	4	4	0	120	EPDM	**121K3303**	**4270**	**486265**	14	14	2.0	3551
	6	12	0.72	1100	0	4	4	0	140	EPDM	**121K3303**	**2995**	**492425**	14	14	2.0	3551
1/2"	8.5	25	1.5	-	0	2.2	0.5	0	120	EPDM	**E121K4603**	**4270**	**481000**	8	8	2.0	3427
	8.5	25	1.5	-	0	4	1.2	0	120	EPDM	**E121K4603**	**4270**	**486265**	14	14	2.0	3427
	8.5	25	1.5	-	0	4	1	0	120	EPDM	**E121K4603**	**2995**	**492425**	14	14	2.0	3427
	11	36	2.16	-	0	1.2	0.35	0	120	EPDM	**E121K4503**	**4270**	**481000**	8	8	2.0	3427
	11	36	2.16	-	0	2.5	0.7	0	120	EPDM	**E121K4503**	**4270**	**486265**	14	14	2.0	3427
	11	36	2.16	-	0	2.5	0.5	0	120	EPDM	**E121K4503**	**2995**	**492425**	14	14	2.0	3427

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	3	4.5	0.35	0	-10
To	1/2"	11	36	10	140	50



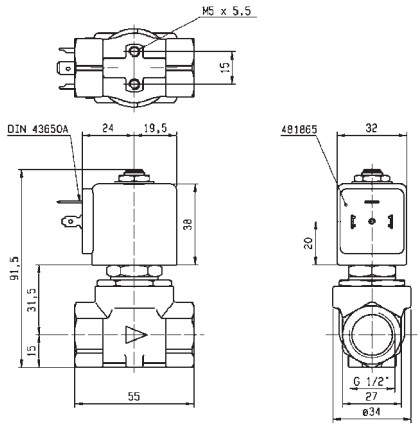


Drawing 3510





Drawing 3551





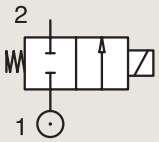
Drawing 3427

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 HOT WATER AND STEAM VALVES

DIRECT OPERATED

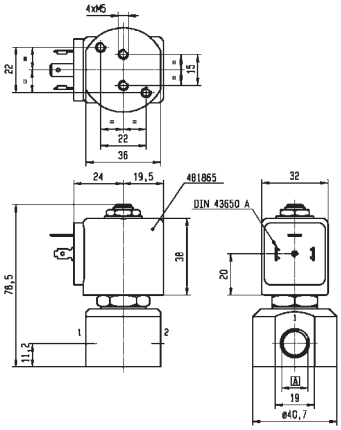
303 STAINLESS ST.
PIPE MOUNTING



NORMALLY CLOSED

Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m³/h	Qn m³/h	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	1.5	1.5	0.09	80	0	60	25	0	100	Ruby	**121V5463**	**2995**	**481865**	8	9	2.0	8116
	1.5	1.5	0.09	80	0	75	30	0	130	Ruby	**121V5463**	**4270**	**481000**	8	8	2.0	8116
	1.5	1.5	0.09	80	0	100	55	0	140	Ruby	**121V5463**	**4270**	**486265**	14	14	2.0	8116
	2.5	3.5	0.21	220	0	28	10	0	100	Ruby	**121V5763**	**2995**	**481865**	8	9	2.0	8116
	2.5	3.5	0.21	220	0	34	12	0	130	Ruby	**121V5763**	**4270**	**481000**	8	8	2.0	8116
	2.5	3.5	0.21	220	0	50	22	0	140	Ruby	**121V5763**	**4270**	**486265**	14	14	2.0	8116
	3	4.5	0.27	315	0	20	7	0	100	Ruby	**121V5363**	**2995**	**481865**	8	9	2.0	8116
	3	4.5	0.27	315	0	25	8.5	0	130	Ruby	**121V5363**	**4270**	**481000**	8	8	2.0	8116
	3	4.5	0.27	315	0	36	15	0	140	Ruby	**121V5363**	**4270**	**486265**	14	14	2.0	8116
	4	7	0.42	450	0	12	4	0	100	Ruby	**121V5263**	**2995**	**481865**	8	9	2.0	8116
	4	7	0.42	450	0	15	5	0	130	Ruby	**121V5263**	**4270**	**481000**	8	8	2.0	8116
	4	7	0.42	450	0	22	10	0	180	Ruby	**121V5263**	**4270**	**486265**	14	14	2.0	8116
	5	10	0.6	750	0	8.5	2	0	100	Ruby	**121V5163**	**2995**	**481865**	8	9	2.0	8116
	5	10	0.6	750	0	10	3.5	0	130	Ruby	**121V5163**	**4270**	**481000**	8	8	2.0	8116
	5	10	0.6	750	0	14	6.5	0	140	Ruby	**121V5163**	**4270**	**486265**	14	14	2.0	8116

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	2	0	-10
To	1/4"	5	10	100	180	50



A	G 1/8"
	G 1/4"

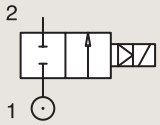


Drawing 8116

2/2 HOT WATER AND STEAM VALVES

MAGNALIFT

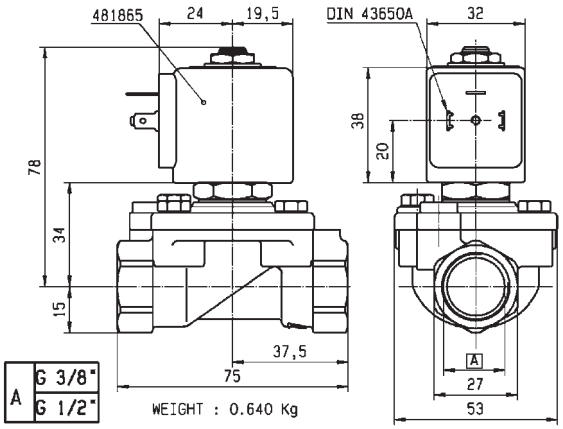
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	15	65	3.9	-	0	10	-	0	100	EPDM	**221G1303**	**2995**	**481865**	8	-	2.0	3732
	15	65	3.9	-	0	10	-	0	120	EPDM	**221G1303**	**4270**	**481000**	8	-	2.0	3732
	15	65	3.9	-	0	4	4	0	140	EPDM	**221G1303**	**4270**	**486265**	14	14	2.0	3732
	15	65	3.9	4500	0	10	10	-10	100	NBR	**221G1330** [1]	**2995**	**481865**	8	9	2.1	3732
	15	65	3.9	4500	0	10	10	-10	65	NBR	**221G1330** [1]	**-**	**492070**	9	8	2.1	3732
1/2"	15	65	3.9	-	0	10	-	0	100	EPDM	**221G1503**	**2995**	**481865**	8	-	2.0	3732
	15	65	3.9	-	0	10	-	0	120	EPDM	**221G1503**	**4270**	**481000**	8	-	2.0	3732
	15	65	3.9	-	0	10	7	0	140	EPDM	**221G1503**	**4270**	**486265**	14	14	2.0	3732
3/4"	15	80	4.8	-	0	10	-	0	100	EPDM	**221G1603**	**2995**	**481865**	8	-	2.0	3444
	15	80	4.8	-	0	10	-	0	120	EPDM	**221G1603**	**4270**	**481000**	8	-	2.0	3444
	15	80	4.8	-	0	4	4	0	140	EPDM	**221G1603**	**4270**	**486265**	14	14	2.0	3444
1"	15	80	4.8	6000	0	10	-	0	100	EPDM	**221G1703**	**2995**	**481865**	8	-	2.0	3445
	15	80	4.8	6000	0	10	-	0	120	EPDM	**221G1703**	**2995**	**481000**	8	-	2.0	3445
	15	80	4.8	6000	0	10	10	0	140	EPDM	**221G1703**	**2995**	**486265**	14	14	2.0	3445

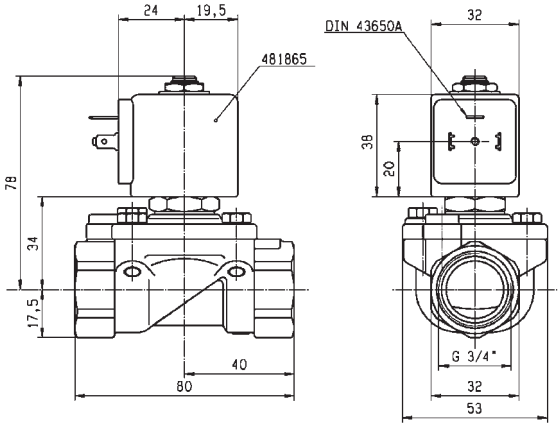
Notes:
1.Valves with model number ending in 30 or 31 are mainly equipped with electrical parts for explosion proof applications or with standard DC coils.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	65	4	-10	-10
To	1"	15	80	10	140	50



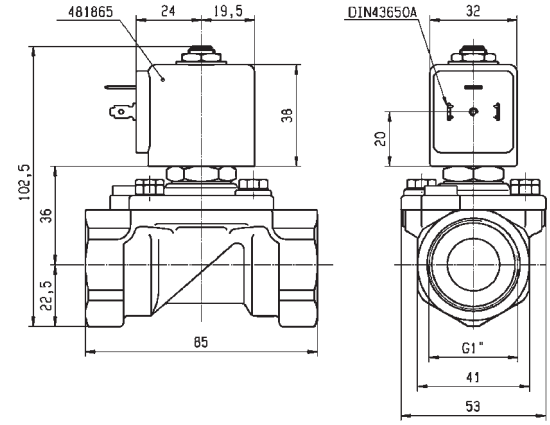


Drawing 3732





Drawing 3444





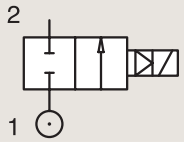
Drawing 3445

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

2/2 HOT WATER AND STEAM VALVES

PILOT OPERATED

BRASS
PIPE MOUNTING



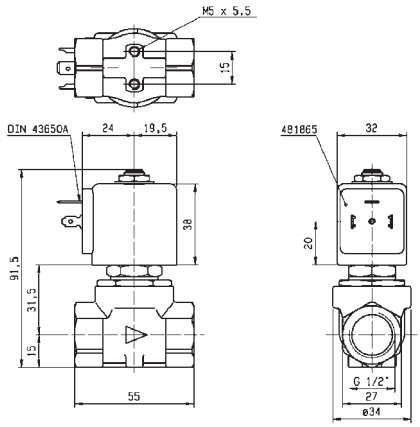
NORMALLY CLOSED

Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/2"	11	36	2.16	2500	0.2	10	3	0	100	EPDM	**E321K1503**	**2995**	**481865**	8	9	2.0	3427
	11	36	2.16	2500	0.2	10	4	0	120	EPDM	**E321K1503**	**4270**	**481000**	8	8	2.0	3427
	11	36	2.16	2500	0.2	10	10	0	140	EPDM	**E321K1503** [1]	**4270**	**486265**	14	14	2.0	3427

Notes:
1.Maximum pressure for steam: 4Bar (140°C)

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	36	3	0	-10
To	1/2"	11	36	10	140	50





Drawing 3427

NOTES



VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

Oil Water

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/8"	1.5 to 2.5	3.5	70	130	112
			1/4"	1.2 to 3	4.5	100	130	112
			3/8"	4 to 6	12	10	120	114
		Normally Open	1/8"	2.5	3.5	30	140	114
			1/4"	1.5 to 2.5	3.5	40	140	114
	Brass/Sub-base Mounting	Normally Closed	5 mm	1.5 to 3	4.5	100	130	116
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/4"	8	36	40	140	118
			3/8"	11	50	40	140	118
			1/2"	15	60	40	140	120
		Normally Open	1/4"	8	36	40	140	122
			3/8"	11	50	40	140	122
			1/2"	15	60	40	140	122
	Brass/Sub-base Mounting	Normally Closed	14 mm	14	45	40	140	124
		Normally Open	14 mm	14	45	40	120	124

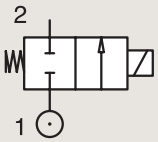
2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

DIRECT OPERATED

BRASS

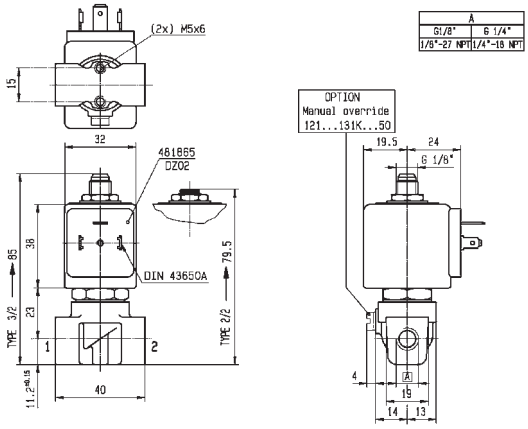
PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/8"	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	**E121K14**	**2995**	**481865**	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	**E121K14**	**4270**	**481000**	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	**E121K14**	**4270**	**486265**	14	14	2.0	3510
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	**E121K23**	**2995**	**481865**	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	**E121K23**	**4270**	**481000**	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	**E121K23**	**4270**	**486265**	14	14	2.0	3510
1/4"	1.2	0.85	0.05	50	0	80	36	-30	100	Ruby	**E121K65**	**2995**	**481865**	8	9	2.0	3510
	1.2	0.85	0.05	50	0	100	43	-30	130	Ruby	**E121K65**	**4270**	**481000**	8	8	2.0	3510
	1.2	0.85	0.05	50	0	100	75	-30	120	Ruby	**E121K65**	**4270**	**486265**	14	14	2.0	3510
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	**E121K04**	**2995**	**481865**	8	9	2.0	3510
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	**E121K04**	**4270**	**481000**	8	8	2.0	3510
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	**E121K04**	**4270**	**486265**	14	14	2.0	3510
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	**E121K67**	**2995**	**481865**	8	9	2.0	3510
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	**E121K67**	**4270**	**481000**	8	8	2.0	3510
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	**E121K67**	**4270**	**486265**	14	14	2.0	3510
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	**E121K63**	**2995**	**481865**	8	9	2.0	3510
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	**E121K63**	**4270**	**481000**	8	8	2.0	3510
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	**E121K63**	**4270**	**486265**	14	14	2.0	3510
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	**E121K03**	**2995**	**481865**	8	9	2.0/3.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	**E121K03**	**4270**	**481000**	8	8	2.0/3.0	3510
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	**E121K03**	**4270**	**486265**	14	14	2.0/3.0	3510
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	**E121K64**	**2995**	**481865**	8	9	2.0	3510
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	**E121K64**	**4270**	**481000**	8	8	2.0	3510
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	**E121K64**	**4270**	**486265**	14	14	2.0	3510

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.85	7	-30	-10
To	1/4"	3	4.5	100	130	50



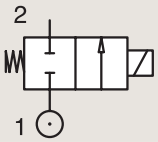


Drawing 3510

2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

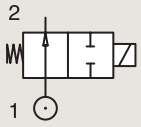
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



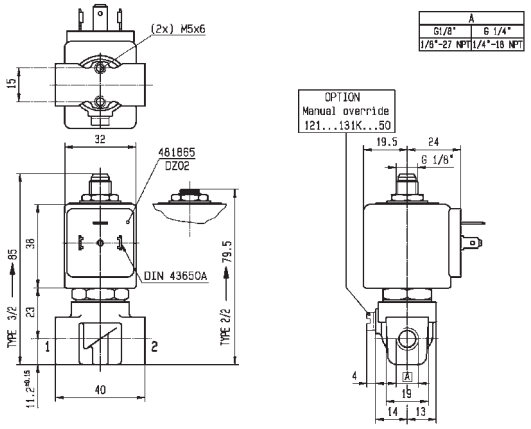
Port size (BSP)	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn m³/h	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481000	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	486265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	100	FKM	121K3106	2995	481865	8	9	2.0	3551
	5	11	0.66	750	0	7	2.8	-10	120	FKM	121K3106	4270	481000	8	8	2.0	3551
	5	11	0.66	750	0	7	5	-10	120	FKM	121K3106	4270	486265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	100	FKM	121K3306	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.5	-10	120	FKM	121K3306	4270	481000	8	8	2.0/14.2	3551
	6	12	0.72	1100	0	5	3	-10	120	FKM	121K3306	4270	486265	14	14	2.0/14.2	3551

BRASS
PIPE MOUNTING
NORMALLY OPEN



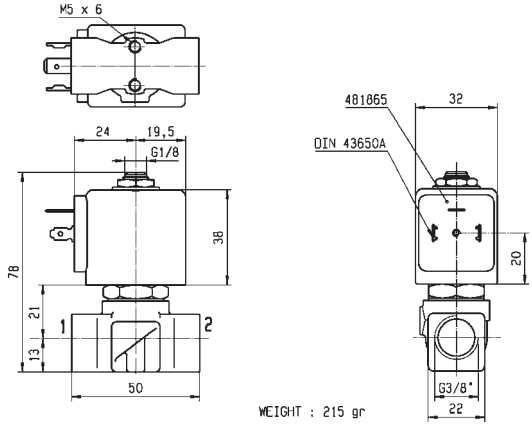
Port size BSP	Orifice Ø mm	Flow factors Kv l/min	KV m³/h	Qn l/min	Operating Pressure Differential Min bar	Max(MOPD) AC bar	DC bar	Fluid Temp. Min °C	Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	DC W	Coil Group	Dwg. No.
1/8"	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K9363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K9363	4270	486265	14	14	2.2	3510
1/4"	1.5	1.5	0.09	80	0	30	30	-10	100	PCTFE	122K84	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	30	30	-10	100	PCTFE	122K84	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	30	30	-10	120	PCTFE	122K84	4270	486265	14	14	2.0	3510
	1.5	1.5	0.09	80	0	40	40	-30	100	Ruby	122K8408	2995	481865	8	9	2.0	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	481000	8	8	2.0	3510
	1.5	1.5	0.09	80	0	40	40	-30	130	Ruby	122K8408	4270	486265	14	14	2.0	3510
	2.5	3.5	0.21	-	0	30	-	-30	140	Ruby	122K8363	4270	481044	14	-	2.2	3510
	2.5	3.5	0.21	-	0	30	30	-30	140	Ruby	122K8363	4270	486265	14	14	2.2	3510

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.5	1.1	-30	-10
To	3/8"	6	12	40	140	50





Drawing 3510





Drawing 3551

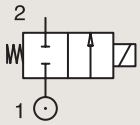
2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

DIRECT OPERATED

BRASS

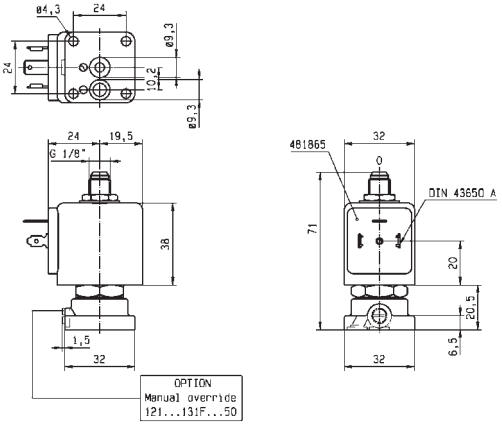
SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	**121F67**	**2995**	**481865**	8	9	2.0	3509
	1.5	1.5	0.09	80	0	75	30	-30	130	Ruby	**121F67**	**4270**	**481000**	8	8	2.0	3509
	1.5	1.5	0.09	80	0	100	55	-30	120	Ruby	**121F67**	**4270**	**486265**	14	14	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	**E121F44**	**2995**	**481865**	8	9	2.0	3509
	1.5	1.5	0.09	80	0	70	30	-30	75	PCTFE	**E121F44**	**4270**	**481000**	8	8	2.0	3509
	1.5	1.5	0.09	80	0	70	55	-30	75	PCTFE	**E121F44**	**4270**	**486265**	14	14	2.0	3509
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	**121F4706**	**2995**	**481865**	8	9	2.0	3509
	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	**121F4706**	**4270**	**481000**	8	8	2.0	3509
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	**121F4706**	**4270**	**486265**	14	14	2.0	3509
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	**121F63**	**2995**	**481865**	8	9	2.0	3509
	2.5	3.5	0.21	220	0	34	12	-30	130	Ruby	**121F63**	**4270**	**481000**	8	8	2.0	3509
	2.5	3.5	0.21	220	0	50	22	-30	120	Ruby	**121F63**	**4270**	**486265**	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	**121F64**	**2995**	**481865**	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	130	Ruby	**121F64**	**4270**	**481000**	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	120	Ruby	**121F64**	**4270**	**486265**	14	14	2.0	3509
	3	4.5	0.27	320	0	20	7	-30	75	PCTFE	**E121F43**	**2995**	**481865**	8	9	2.0	3509
	3	4.5	0.27	320	0	25	8.5	-30	75	PCTFE	**E121F43**	**4270**	**481000**	8	8	2.0	3509
	3	4.5	0.27	320	0	36	15	-30	75	PCTFE	**E121F43**	**4270**	**486265**	14	14	2.0	3509

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	5 mm	1.5	1.5	7	-30	-10
To	5 mm	3	4.5	100	130	50

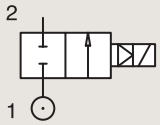




Drawing 3509

2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)
PILOT OPERATED

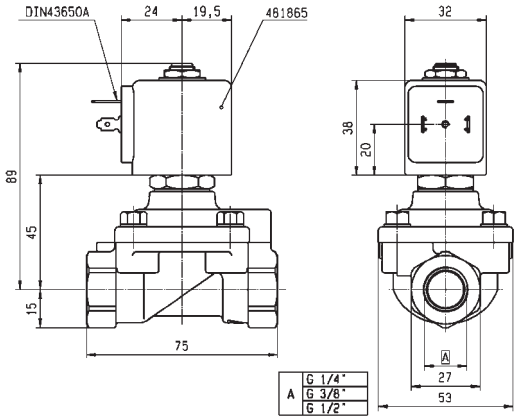
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 $_{12}$	2995	481865	8	9	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11 $_{12}$	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11 $_{12}$	4270	486265	14	14	2.0	3523
	8	36	2.16	-	0.3	40	25	-10	100	FKM	E321H21 $_{12}$	2995	481865	8	9	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	E321H21 $_{12}$	4270	481000	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	E321H21 $_{12}$	4270	486265	14	14	2.0	3523
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13 $_{12}$	2995	481865	8	9	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13 $_{12}$	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13 $_{12}$	4270	486265	14	14	2.0	3521
	11	50	3	-	0.3	40	25	-10	100	FKM	E321H23 $_{12}$	2995	481865	8	9	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	E321H23 $_{12}$	4270	481000	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	E321H23 $_{12}$	4270	486265	14	14	2.0	3521
	11	36	2.16	-	0.2	20	3	-10	100	Ruby	E321K63	2995	483510	9	-	2.0	3429
	11	36	2.16	-	0.2	30	4	-10	140	Ruby	E321K63	4270	488553	9	-	2.0	3429
	11	36	2.16	-	0.2	4	4	-10	75	Ruby	E321K63	-	492190	11	9	2.0	3429

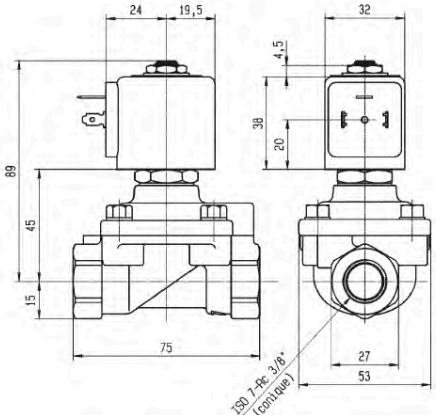
Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	3	-10	-10
To	3/8"	11	50	40	140	50



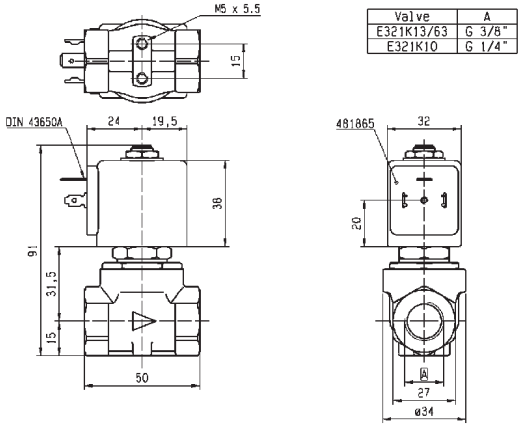


Drawing 3523





Drawing 3521





Drawing 3429

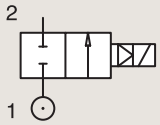
2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)

PILOT OPERATED

BRASS

PIPE MOUNTING

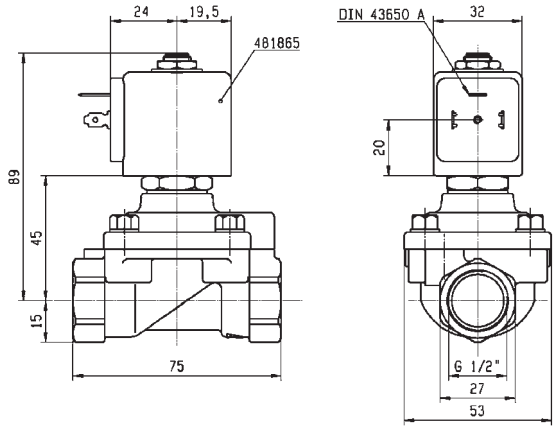
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/2"	15	60	3.6	3150	0.3	40	25	-10	100	NBR	**E321H15** [12]	**2995**	**481865**	8	9	2.0	3522
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	**E321H15** [12]	**4270**	**481000**	8	8	2.0	3522
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	**E321H15** [12]	**4270**	**486265**	14	14	2.0	3522
	15	60	3.6	-	0.3	40	25	-10	100	FKM	**E321H25** [12]	**2995**	**481865**	8	9	2.0/14.2	3522
	15	60	3.6	-	0.3	40	30	-10	65	FKM	**E321H25** [12]	**-**	**483371**	8	8	2.0/14.2	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	**E321H25** [12]	**4270**	**486265**	14	14	2.0/14.2	3522

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	15	60	25	-10	-10
To	1/2"	15	60	40	140	50

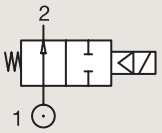




Drawing 3522

2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)
PILOT OPERATED

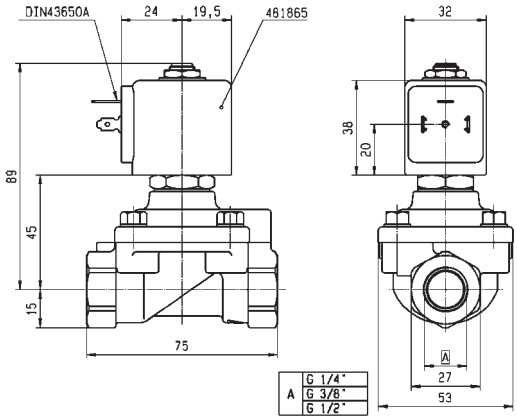
BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
	8	36	2.16	1600	0.3	40	40	-10	100	FKM	**322H7106** $_{12}$	**2995**	**481865**	8	9	2.0/14.1	3523
1/4"	8	36	2.16	1600	0.3	40	40	-10	120	FKM	**322H7106** $_{12}$	**4270**	**481000**	8	8	2.0/14.1	3523
	8	36	2.16	1600	0.3	40	40	-10	140	FKM	**322H7106** $_{12}$	**4270**	**486265**	14	14	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	**322H73** $_{12}$	**2995**	**481865**	8	9	2.0	3523
	11	50	3	3240	0.3	40	40	-10	75	NBR	**322H73** $_{12}$	**4270**	**481000**	8	8	2.0	3523
3/8"	11	50	3	3240	0.3	40	40	-10	75	NBR	**322H73** $_{12}$	**4270**	**486265**	14	14	2.0	3523
	11	50	3	3240	0.3	40	40	-10	100	FKM	**322H7306** $_{12}$	**2995**	**481865**	8	9	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	100	FKM	**322H7306** $_{12}$	**4270**	**481000**	8	8	2.0/14.1	3523
	11	50	3	3240	0.3	40	40	-10	140	FKM	**322H7306** $_{12}$	**4270**	**486265**	14	14	2.0/14.1	3523
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	**322G7506** $_{1}$	**2995**	**481865**	8	9	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	**322G7506** $_{1}$	**4270**	**481000**	8	8	2.0	3522
	15	60	3.6	3890	0.3	20	20	-10	100	FKM	**322G7506** $_{1}$	**4270**	**486265**	14	14	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	**322H75** $_{12}$	**2995**	**481865**	8	9	2.0	3522
1/2"	15	60	3.6	3890	0.3	40	40	-10	100	NBR	**322H75** $_{12}$	**4270**	**481000**	8	8	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	NBR	**322H75** $_{12}$	**4270**	**486265**	14	14	2.0	3522
	15	60	3.6	3890	0.3	40	40	-10	100	FKM	**322H7506** $_{12}$	**2995**	**481865**	8	9	2.0/14.1	3522
	15	60	3.6	3890	0.3	40	40	-10	120	FKM	**322H7506** $_{12}$	**4270**	**481000**	8	8	2.0/14.1	3522
	15	60	3.6	3890	0.3	40	40	-10	140	FKM	**322H7506** $_{12}$	**4270**	**486265**	14	14	2.0/14.1	3522

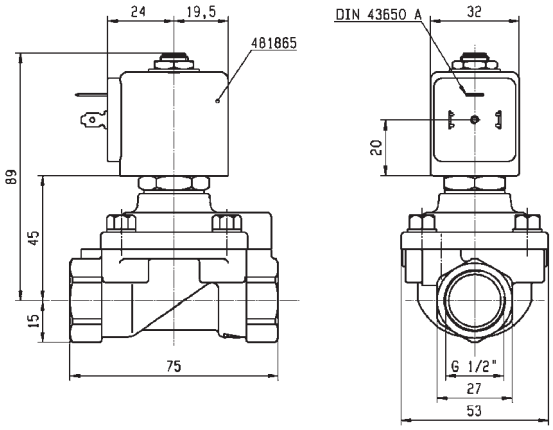
Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	20	-10	-10
To	1/2"	15	60	40	140	50





Drawing 3523

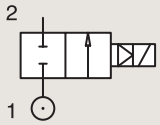




Drawing 3522

2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 100 BAR)
PILOT OPERATED

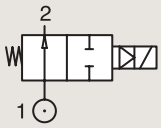
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14	45	2.7	-	0.3	40	25	-10	100	FKM	E321F3202 12	2995	481865	8	9	2.0	3520
	14	45	2.7	-	0.3	40	30	-10	120	FKM	E321F3202 12	4270	481000	8	8	2.0	3520
	14	45	2.7	-	0.3	40	40	-10	140	FKM	E321F3202 12	4270	486265	14	14	2.0	3520

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby

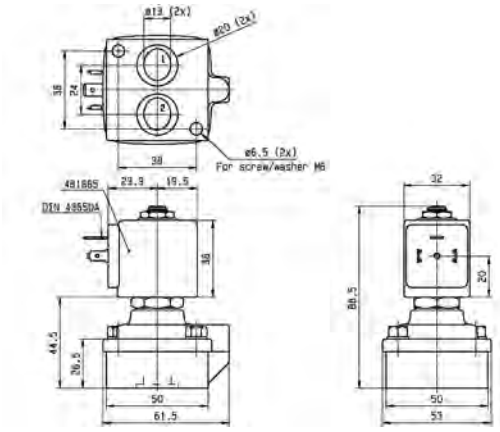
BRASS
SUB-BASE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14	45	2.7	-	0.3	40	40	0	100	FKM	322F7206 12	2995	481865	8	9	2.1/14.1	3520
	14	45	2.7	-	0.3	40	40	0	120	FKM	322F7206 12	4270	481000	8	8	2.1/14.1	3520

Notes:
1.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2.Pilot seat disc in synthetic Ruby

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	14 mm	14	45	25	-10	-10
To	14 mm	14	45	40	140	50





Drawing 3520

NOTES



HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.) STEEL



2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	303 Stainless St./Pipe Mounting	Normally Closed	1/4"	1.5 to 5	10	100	180	128 and 130
		Normally Open	1/4"	2.5	3	12	120	132

2/2 HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.)

DIRECT OPERATED

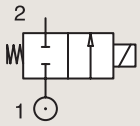


Process

303 STAINLESS ST.

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max									
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C						AC W	DC W		
	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	121V5406	2995	481865		8	9	2.0	8116
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	121V5406	4270	481000		8	8	2.0	8116
	1.5	1.5	0.09	80	0	60	25	0	100	Ruby	121V5463 [1]	2995	481865		8	9	2.0	8116
	1.5	1.5	0.09	80	0	75	30	0	130	Ruby	121V5463 [1]	4270	481000		8	8	2.0	8116
	1.5	1.5	0.09	80	0	100	55	0	140	Ruby	121V5463 [1]	4270	486265		14	14	2.0	8116
	1.5	1.5	0.09	80	0	-	8	-20	75	PUR	121V5497 [2]	2995	482740		-	1.6	6.0/8.0	8116
	1.5	1.5	0.09	80	0	10	10	-20	75	PUR	121V5497 [2]	-	495900		2.5	2	6.0/8.0	8024
	1.5	1.5	0.09	80	0	-	10	-20	75	PUR	121V5497 [2]	-	495910	*	-	0.3-1.2	6.0/8.0	8024
	1.5	1.5	0.09	80	0	-	8	-20	65	PUR	121V5497 [2]	2995	496125		-	1.6	6.0/8.0	8116
	2.5	3.5	0.21	220	0	14	7	-10	100	FKM	121V5706	2995	481865		8	9	2.0	8116
1/4"	2.5	3.5	0.21	220	0	14	9	-10	120	FKM	121V5706	4270	481000		8	8	2.0	8116
	2.5	3.5	0.21	220	0	14	14	-10	120	FKM	121V5706	4270	486265		14	14	2.0	8116
	2.5	3.5	0.21	220	0	28	10	0	100	Ruby	121V5763 [1]	2995	481865		8	9	2.0	8116
	2.5	3.5	0.21	220	0	34	12	0	130	Ruby	121V5763 [1]	4270	481000		8	8	2.0	8116
	2.5	3.5	0.21	220	0	50	22	0	140	Ruby	121V5763 [1]	4270	486265		14	14	2.0	8116
	3	4.5	0.27	315	0	10	7	-10	100	FKM	121V5306	2995	481865		8	9	2.0	8116
	3	4.5	0.27	315	0	10	8.5	-10	120	FKM	121V5306	4270	481000		8	8	2.0	8116
	3	4.5	0.27	315	0	10	10	-10	120	FKM	121V5306	4270	486265		14	14	2.0	8116
	3	4.5	0.27	315	0	20	7	0	100	Ruby	121V5363 [1]	2995	481865		8	9	2.0	8116
	3	4.5	0.27	315	0	25	8.5	0	130	Ruby	121V5363 [1]	4270	481000		8	8	2.0	8116
	3	4.5	0.27	315	0	36	15	0	140	Ruby	121V5363 [1]	4270	486265		14	14	2.0	8116

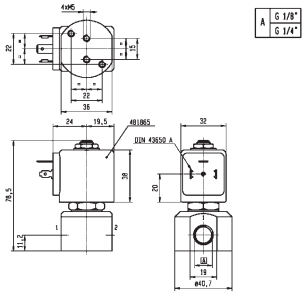
Notes:

1.Valve only compatible with hydraulic oil and neutral liquids

2.If media is water, the fluid temperature shall not exceed 40°C.

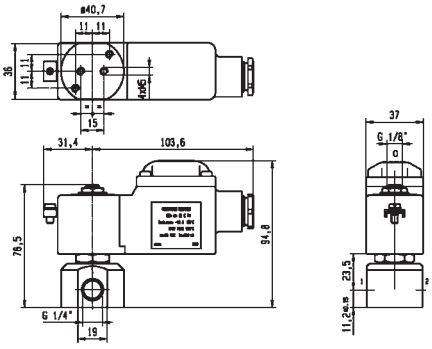
IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	7	-20	-20
To	1/4"	3	4.5	100	140	50





Drawing 8116

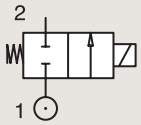




Drawing 8024

2/2 HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.)
DIRECT OPERATED

303 STAINLESS ST.
PIPE MOUNTING

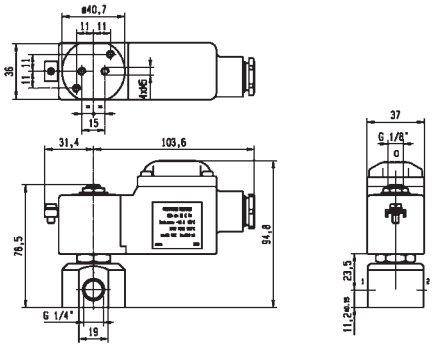


NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max									
BSP	mm	Kv l/min	KV m^3/h	Qn m^3/h	bar	AC bar	DC bar	°C	°C						AC W	DC W		
	3	3.5	0.21	220	0	-	2	-20	75	PUR	**121V5397 2**	**2995**	**482740**		-	1.6	6.0/8.0	8116
	3	3.5	0.21	220	0	4.5	4	-20	75	PUR	**121V5397 2**	**-**	**495900**		2.5	2	6.0/8.0	8024
	3	3.5	0.21	220	0	-	4.5	-20	75	PUR	**121V5397 2**	**-**	**495910**	*	-	0.3-1.2	6.0/8.0	8024
	3	3.5	0.21	220	0	-	2	-20	65	PUR	**121V5397 2**	**2995**	**496125**		-	1.6	6.0/8.0	8116
	4	7	0.42	450	0	10	4	-10	100	FKM	**121V5206**	**2995**	**481865**		8	9	2.0	8116
	4	7	0.42	450	0	10	5	-10	120	FKM	**121V5206**	**4270**	**481000**		8	8	2.0	8116
	4	7	0.42	450	0	10	10	-10	120	FKM	**121V5206**	**4270**	**486265**		14	14	2.0	8116
	4	7	0.42	450	0	3.5	3.5	0	100	PTFE	**121V5212 1**	**2995**	**481865**		8	9	2.0	8116
	4	7	0.42	450	0	3.5	3.5	0	130	PTFE	**121V5212 1**	**4270**	**481000**		8	8	2.0	8116
	4	7	0.42	450	0	3.5	3.5	0	130	PTFE	**121V5212 1**	**4270**	**486265**		14	14	2.0	8116
1/4"	4	7	0.42	450	0	12	4	0	100	Ruby	**121V5263 1**	**2995**	**481865**		8	9	2.0	8116
	4	7	0.42	450	0	15	5	0	130	Ruby	**121V5263 1**	**4270**	**481000**		8	8	2.0	8116
	4	7	0.42	450	0	22	10	0	180	Ruby	**121V5263 1**	**4270**	**486265**		14	14	2.0	8116
	5	10	0.6	750	0	7	2	-10	100	FKM	**121V5106**	**2995**	**481865**		8	9	2.0	8116
	5	10	0.6	750	0	7	2.8	-10	120	FKM	**121V5106**	**4270**	**481000**		8	8	2.0	8116
	5	10	0.6	750	0	7	5	-10	120	FKM	**121V5106**	**4270**	**486265**		14	14	2.0	8116
	5	10	0.6	-	0	2.8	2	0	100	PTFE	**121V5112 1**	**2995**	**481865**		8	9	2.0	8116
	5	10	0.6	-	0	2.8	2.8	0	130	PTFE	**121V5112 1**	**4270**	**481000**		8	8	2.0	8116
	5	10	0.6	-	0	2.8	2.8	0	130	PTFE	**121V5112 1**	**4270**	**486265**		14	14	2.0	8116
	5	10	0.6	750	0	8.5	2	0	100	Ruby	**121V5163 1**	**2995**	**481865**		8	9	2.0	8116
	5	10	0.6	750	0	10	3.5	0	130	Ruby	**121V5163 1**	**4270**	**481000**		8	8	2.0	8116
	5	10	0.6	750	0	14	6.5	0	140	Ruby	**121V5163 1**	**4270**	**486265**		14	14	2.0	8116

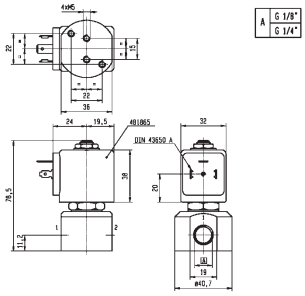
Notes:
1.Valve only compatible with hydraulic oil and neutral liquids
2.Valve compatible with water only up to If fluid is water, temperature shall not exceed 40°C

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	3	3.5	2	-20	-20
To	1/4"	5	10	22	180	50





Drawing 8024





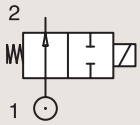
Drawing 8116

2/2 HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.)

DIRECT OPERATED

303 STAINLESS ST.

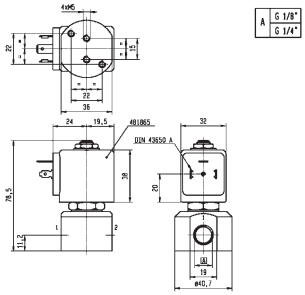
PIPE MOUNTING



NORMALLY OPEN

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	2.5	3	0.18	180	0	12	12	-30	100	FKM	**122V8306**	**2995**	**481865**	8	9	2.1	8116
	2.5	3	0.18	180	0	12	12	-30	120	FKM	**122V8306**	**4270**	**481000**	8	8	2.1	8116

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	3	12	-30	-10
To	1/4"	2.5	3	12	120	50





Drawing 8116

NOTES



VALVES FOR DRINKABLE WATER AND BEVERAGE DISPENSERS


Steam


Water

2/2

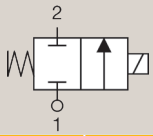
Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Stainless St./Sub-base Mounting	Normally Closed	SB	1.5 to 3	4.2	20	140	**136**
	LLB Brass/Pipe Mounting	Normally Closed	1/8"	1.5 to 3	1.5 a 4.5	20	140	**136**
	LLB Brass/Pipe Mounting	Normally Closed	1/4"	1.5 to 3	1.5 a 4.5	20	140	**136**
	LLB Brass/Sub-base Mounting	Normally Closed	SB	1.5 TO 3	1.4 a 3.4	20	140	**138**

2/2 VALVES FOR DRINKABLE WATER AND BEVERAGE DISPENSERS

DIRECT OPERATED

CW510L BRASS BODY

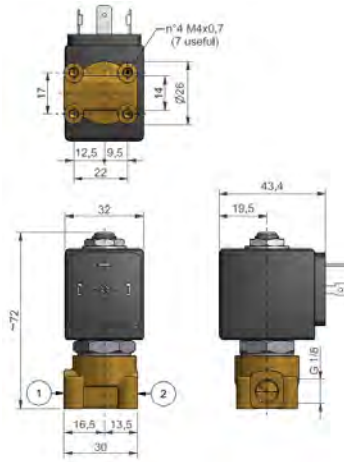
PIPE MOUNTING/FLANGED (SB)



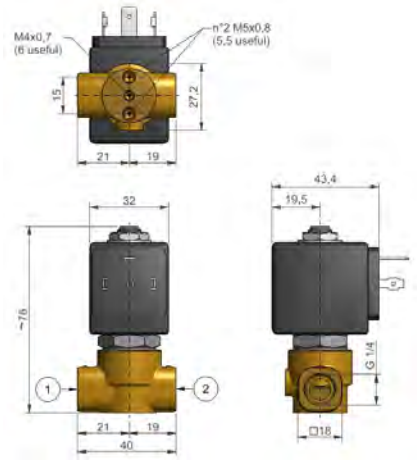
NORMALLY CLOSED

Port Size	Orifice Ø	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv	KV	Min.	Max. (MOPD)		Min.	Max.		Valve Ref.	Housing Ref.	Coil Ref.	AC	DC		
	mm	l/min	m^3/h	Bar	AC bar	DC bar	°C	°C					W	W		
G1/8	1.5	1.5	0.09	0	20	18	-10	140	FKM FDA	**121ZH1015**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	1
	2.0	2.6	0.16	0	20	15	-10	140	FKM FDA	**121ZH1020**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.5	3.5	0.21	0	19	14.5	-10	140	FKM FDA	**121ZH1025**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	3.0	4.5	0.27	0	13	8.5	-10	140	FKM FDA	**121ZH1030**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	1.5	1.5	0.09	0	20	18	-10	140	Ruby	**121ZH0015**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.0	2.6	0.16	0	20	15	-10	140	Ruby	**121ZH0020**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.5	3.5	0.21	0	19	14.5	-10	140	Ruby	**121ZH0025**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	3.0	4.5	0.27	0	13	8.5	-10	140	Ruby	**121ZH0030**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
G1/4	1.5	1.5	0.09	0	20	18	-10	140	FKM FDA	**121KH1015**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	2
	2.0	2.6	0.16	0	20	15	-10	140	FKM FDA	**121KH1020**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.5	3.5	0.21	0	19	14.5	-10	140	FKM FDA	**121KH1025**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	3.0	4.5	0.27	0	13	8.5	-10	140	FKM FDA	**121KH1030**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	4.0	5.5	0.33	0	9	6	-10	140	FKM FDA	**121KH1040**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	3
	5.0	9.5	0.57	0	2.5	2	-10	140	FKM FDA	**121KH1050**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	1.5	1.5	0.09	0	20	18	-10	140	Ruby	**121KH0015**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	2
	2.0	2.6	0.16	0	20	15	-10	140	Ruby	**121KH0020**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.5	3.5	0.21	0	19	14.5	-10	140	Ruby	**121KH0025**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	3.0	4.5	0.27	0	13	8.5	-10	140	Ruby	**121KH0030**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
SB	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	**121FH1015**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	4
	2.0	2.3	0.14	0	20	20	-10	140	FKM FDA	**121FH1020**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.5	3.0	0.18	0	20	14	-10	140	FKM FDA	**121FH1025**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	3.0	3.4	0.2	0	17	10	-10	140	FKM FDA	**121FH1030**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	**121FH0015**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.0	2.3	0.14	0	20	20	-10	140	Ruby	**121FH0020**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	2.5	3.0	0.18	0	20	14	-10	140	Ruby	**121FH0025**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	
	3.0	3.4	0.2	0	17	10	-10	140	Ruby	**121FH0030**	**2995**	**481865**	9	8	2.0, 2.1, 2.2	

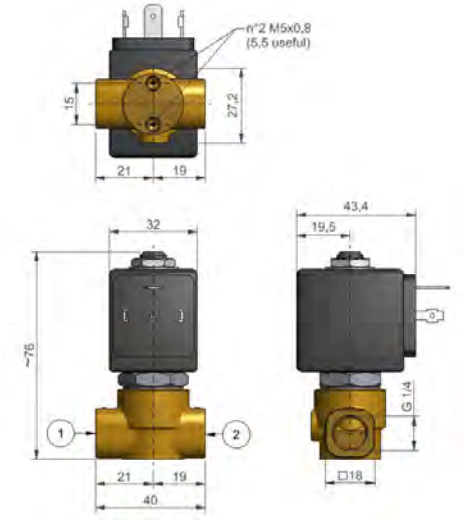
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.5	2	-10	-10
To	1/4"	4	9.5	20	140	50
From	SB	1.5	1.4	10	-10	-10
To	SB	3	3.4	20	140	50



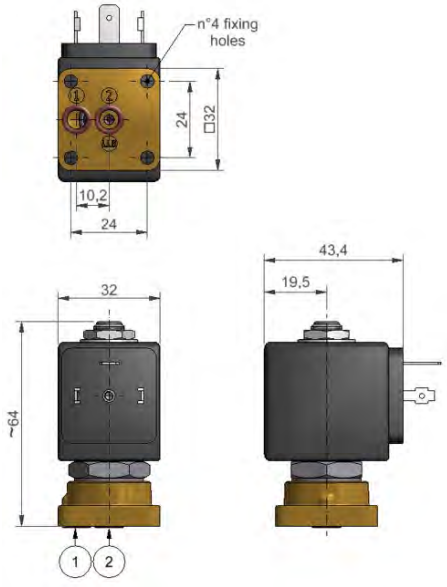
Dimensional drawing N° 1



Dimensional drawing N° 2



Dimensional drawing N° 3



Dimensional drawing N° 4

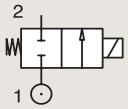
2/2 VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

DIRECT OPERATED

STAINLESS ST.

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.	Compatible adapter kit
					Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.					
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W			
SB	1.5	1.3	0.08	-	0	20	20	-10	140	Ruby	**2019F1GRG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	1.5	1.3	0.08	-	0	20	20	-10	140	FKM FDA	**2019F1GVG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	2	2.3	0.14	-	0	15	15	-10	140	Ruby	**2019F1JRG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	2	2.3	0.14	-	0	15	15	-10	140	FKM FDA	**2019F1JVG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	2.5	3.2	0.19	-	0	10	10	-10	140	FKM FDA	**2019F1LRG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	2.5	3.2	0.19	-	0	10	10	-10	140	FKM FDA	**2019F1LVG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	3	4.2	0.25	-	0	7	7	-10	140	Ruby	**2019F1NRG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	3	4.2	0.25	-	0	7	7	-10	140	FKM FDA	**2019F1NVG7**	-	**481865**	8	9	2.0	071	XGSPG1-XGSPG2
	4	6.5	0.39	-	0	5	5	-10	140	FKM FDA	**2019F1QVG7**	-	**481865**	9	8	2.0	071	XGSPG3
	4	6.5	0.39	-	0	5	5	-10	140	EPDM	**2019F1QEG7**	-	**481865**	9	8	2.0	071	XGSPG3
	5	7.2	0.43	-	0	3	3	-10	140	FKM FDA	**2019F1SVG7**	-	**481865**	9	8	2.0	071	XGSPG3
	5	7.2	0.43	-	0	3	3	-10	140	EPDM	**2019F1SEG7**	-	**481865**	9	8	2.0	071	XGSPG3

Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.3	3	-10	-10
To	SB	5	7.2	20	140	50



Drawing 071

NOTES



HIGH CORROSION RESISTANT VALVES (316L STAINLESS ST.)

Oil Water Air

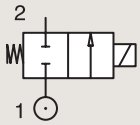
2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	316L Stainless St./Pipe Mounting	Normally Closed	1/8"	1.5 to 2.5	2.3	20	140	**142**
		Normally Open	1/4"	1.5 to 3	6	20	140	**142**
			1/2"	3	10	4	140	**142**
			3/8"	5 to 6.2	10	4	140	**142**
			1/4"	1	0.6	98	75	**146**
Direct Operated	316L Stainless St./Pipe Mounting	Normally Open	1/4"	3.0 to 5	8	6	140	**144**
			1/2"	5.0 to 6.2	10	3	140	**144**
Magnalift	316L Stainless St./Pipe Mounting	Normally Closed	3/8"	15	65	20	140	**148**
			1/2"	15	65	20	140	**148**
			3/4"	15	80	20	140	**150**
			1"	15	170	16	120	**150**

2/2 HIGH CORROSION RESISTANT VALVES 201LG SERIES DIRECT OPERATED

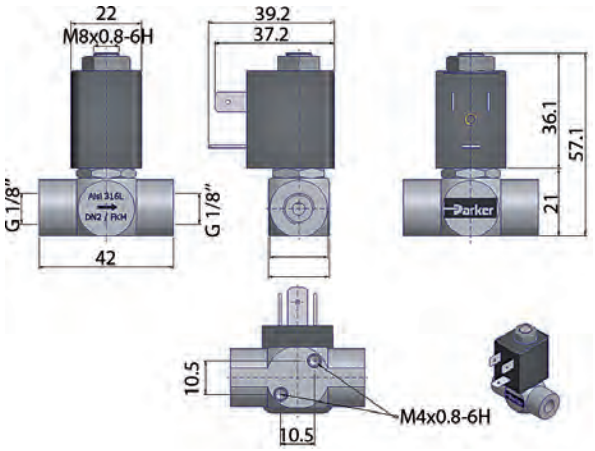
316L STAINLESS ST. PIPE MOUNTING

NORMALLY CLOSED

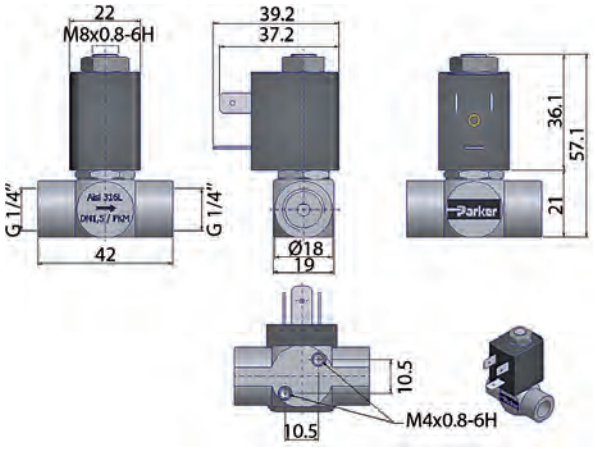


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8"	1.5	1	0.06	-	0	20	15	-10	140	FKM	**201LG1GVG2**	-	**481180**	4	5	1.1/1.3	074
	2.5	2.3	0.14	-	0	10	6	-10	140	FKM	**201LG1LVG2**	-	**481180**	4	5	1.1/1.3	074
1/4"	1.5	1	0.06	-	0	20	15	-10	140	FKM	**201LG2GVG2**	-	**481180**	4	5	1.1/1.3	075
	2.5	2.3	0.14	-	0	10	6	-10	140	FKM	**201LG2LVG2**	-	**481180**	4	5	1.1/1.3	075
	3	4.5	0.27	-	0	8	5	-10	140	FKM	**201LG2NVG7**	-	**481865**	8	9	2.0	076
3/8"	5	8	0.48	-	0	3	2	-10	140	FKM	**201LG3SVG7**	-	**481865**	8	9	2.0	077
	6.2	10	0.6	-	0	1.5	0.5	-10	140	FKM	**201LG3UVG7**	-	**481865**	8	9	2.0	077
1/2"	5	8	0.48	-	0	3	2	-10	140	FKM	**201LG4SVG7**	-	**481865**	8	9	2.0	078
	6.2	10	0.6	-	0	1.5	0.5	-10	140	FKM	**201LG4UVG7**	-	**481865**	8	9	2.0	078

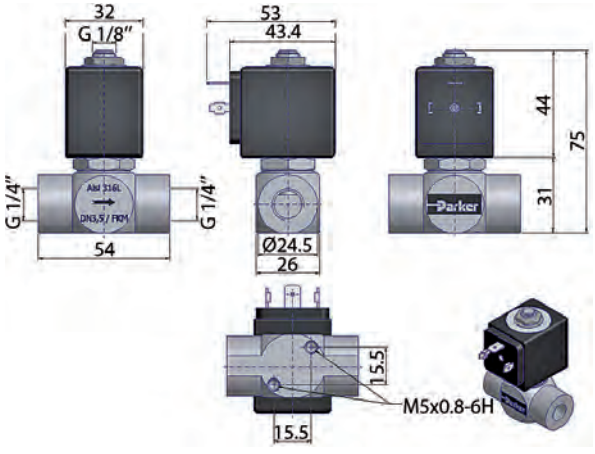
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1	5	-10	-10
To	1/2"	6.2	10	20	140	50



Drawing 074



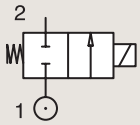
Drawing 075



Drawing 076

2/2 HIGH CORROSION RESISTANT VALVES 202LG SERIES DIRECT OPERATED

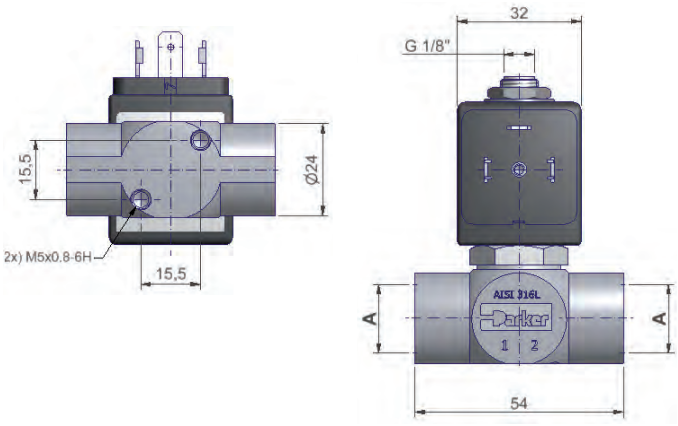
316L STAINLESS ST. PIPE MOUNTING



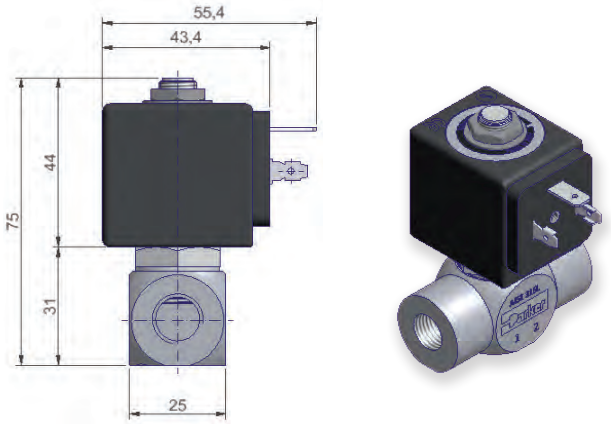
NORMALLY OPEN

Port size	Orifice Ø	Flow factors		Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
				Min	Max(MOPD)		Min	Max							
BSP	mm	Kv l/min	KV m³/h	bar	AC bar	DC bar	°C	°C				AC W	DC W		
1/4"	3.0	4.5	0.27	0	6	6	-10	140	FKM	**202LG2NVG7**	**481865**	8	9	24/2.0	3
	5.0	8.0	0.48	0	3	3	-10	140	FKM	**202LG2SVG7**	**481865**	8	9	24/2.0	3
1/2"	5.0	8.0	0.48	0	3	3	-10	140	FKM	**202LG4SVG7**	**481865**	8	9	24/2.0	3
	6.2	10.0	0.60	0	1	1	-10	140	FKM	**202LG4UVG7**	**481865**	8	9	24/2.0	3

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	3	4.5	1	-10	-10
To	1/2"	6.2	10	6	140	50



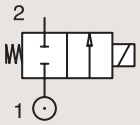
Drawing 3



Drawing 3

2/2 HIGH CORROSION RESISTANT VALVES V SERIES DIRECT OPERATED

316L STAINLESS ST. PIPE MOUNTING



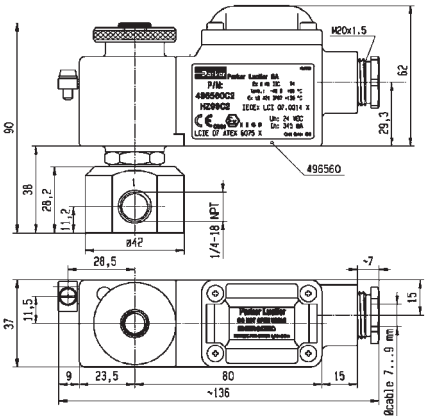
NORMALLY CLOSED

Port size	Orifice Ø	Flow factor			Operating Pressure Differential Min	Max(MOPD)		Fluid Temp. Min	Fluid Temp. Max	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4" NPT	0.8	-	-	20	0	-	200	-25	65	PUR	U121VS3750A [1]	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8165
	0.8	-	-	20	0	-	200	-25	75	PUR	U121VS3750A [1]	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	6713
	0.8	-	-	20	0	200	200	-25	75	PUR	U121VS3750A [1]	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	6713
	0.8	-	-	20	0	200	200	-25	65	PUR	U121VS3750A [1]	-	496560	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2	8165
	0.8	-	-	20	0	200	200	-25	65	PUR	U121VS3750A [1]	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2	8165
	1	0.6	0.04	40	0	-	98	-40	75	PUR	U121V5595 [23]	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8165
	1	0.6	0.04	40	0	-	98	-40	75	PUR	U121V5595 [23]	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	6713
	1	0.6	0.04	40	0	98	98	-40	65	PUR	U121V5595 [23]	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2	8165
	1	0.6	0.04	40	0	98	98	-40	75	PUR	U121V5595 [23]	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	6713
	1	0.6	0.04	40	0	98	98	-40	65	PUR	U121V5595 [23]	-	496560	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2	8165
	1	0.6	0.04	40	0	98	98	-40	50	PUR	U121V5595 [23]	-	496895	-	-	8	8	9.0/10.1/10.2	8165
	1	0.6	0.04	40	0	-	98	-40	65	PUR	U121V7595 [3]	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8165
	1	0.6	0.04	40	0	98	98	-40	65	PUR	U121V7595 [3]	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2/10.3	8165
	1	0.6	0.04	40	0	98	98	-40	65	PUR	U121V7595 [3]	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.2/10.3	8299
	1	0.6	0.04	40	0	98	98	-40	50	PUR	U121V7595 [3]	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8165

Notes:
1. Valve only compatible with neutral gases
2. Valve delivered with an individual material traceability certificate (3.1 following EN10204)
3. Valve compatible with water only up to 40°C

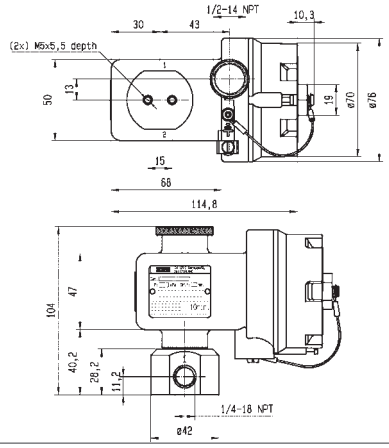
IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1	0.6	98	-40	-40
To	1/4"	1	0.6	98	75	50



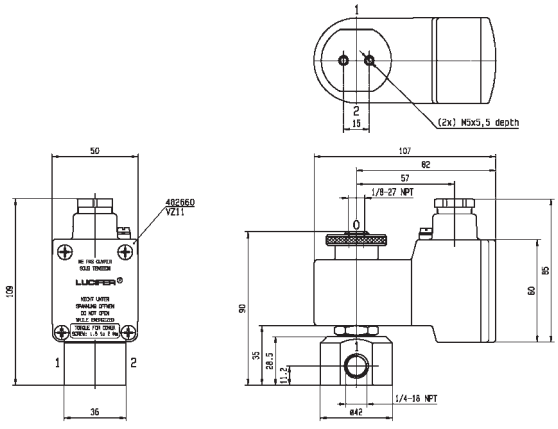


Drawing 8165





Drawing 8299



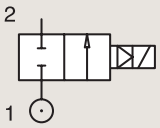


Drawing 6713

2/2 HIGH CORROSION RESISTANT VALVES 221G SERIES

MAGNALIFT

316L STAINLESS ST. PIPE MOUNTING

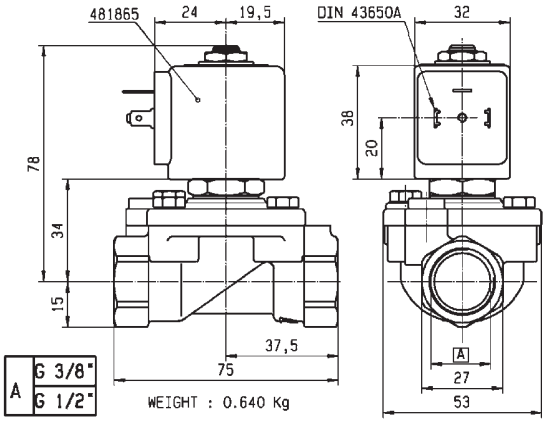


NORMALLY CLOSED

Port Size	Orifice Ø	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			IS	ATEX Zone	Protection Mode	Power		Coil Group	Dwg N°
		Kv	KV	Min.	Max. (MOPD)		Min.	Max.								AC	DC		
	mm	l/min	m³/h	Bar	AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.				W	W		
	15	65	3.90	0	16	-	0	100	FKM	221G6306$_{1}$	2995	481865	-	-	-	8	-	2.0	3732
	15	65	3.90	0	-	6	0	60	FKM	221G6306$_{12}$	2995	492425	-	-	-	-	14	2.0	3732
	15	65	3.90	0	16	-	0	65	FKM	221G6306$_{1}$	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3732
	15	65	3.90	0	16	-	0	120	FKM	221G6306$_{1}$	4538	481000	-	-	-	8	-	2.0	3732
	15	65	3.90	0	20	7	0	140	FKM	221G6306$_{1}$	4538	486265	-	-	-	14	14	2.0	3732
3/8"	15	65	3.90	0	16	-	0	80	FKM	221G6306$_{1}$	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3732
	15	65	3.90	0	-	10	-10	100	FKM	221G6336	2995	481865	-	-	-	-	9	2.1	3732
	15	65	3.90	0	-	10	-10	65	FKM	221G6336	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.1	3732
	15	65	3.90	0	10	10	-10	65	FKM	221G6336	-	492070	-	1-21	Ex mb IIC T4/T5	9	8	2.1	3732
	15	65	3.90	0	10	10	-10	75	FKM	221G6336	-	492190	-	1-21	Ex eb mb IIC T3/T4	11	9	2.1	3732
	15	65	3.90	0	-	10	-10	80	FKM	221G6336	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.1	3732
	15	65	3.90	0	16	-	0	100	FKM	221G6506$_{1}$	2995	481865	-	-	-	8	-	2.0	3732
	15	65	3.90	0	-	6	0	60	FKM	221G6506$_{12}$	2995	492425	-	-	-	-	14	2.0	3732
	15	65	3.90	0	16	-	0	65	FKM	221G6506$_{1}$	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3732
	15	65	3.90	0	16	-	0	120	FKM	221G6506$_{1}$	4538	481000	-	-	-	8	-	2.0	3732
	15	65	3.90	0	20	7	0	140	FKM	221G6506$_{1}$	4538	486265	-	-	-	14	14	2.0	3732
1/2"	15	65	3.90	0	16	-	0	80	FKM	221G6506$_{1}$	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3732
	15	65	3.90	0	-	10	-10	100	FKM	221G6536	2995	481865	-	-	-	-	9	2.1	3732
	15	65	3.90	0	-	10	-10	65	FKM	221G6536	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.1	3732
	15	65	3.90	0	10	10	-10	65	FKM	221G6536	-	492070	-	1-21	Ex mb IIC T4/T5	9	8	2.1	3732
	15	65	3.90	0	10	10	-10	75	FKM	221G6536	-	492190	-	1-21	Ex eb mb IIC T3/T4	11	9	2.1	3732
	15	65	3.90	0	-	10	-10	80	FKM	221G6536	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.1	3732

Notes:
1. With silver shading ring
2. For air, the ambient temperature is limited to +25°C, and the max fluid temperature to +40°C
The maximum fluid temperature is given for the lower coil class temperature. See coil pages for more details.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	15	65	6	-10	-10
To	1"	15	65	20	140	50





Drawing 3732

2/2 HIGH CORROSION RESISTANT VALVES 221G SERIES

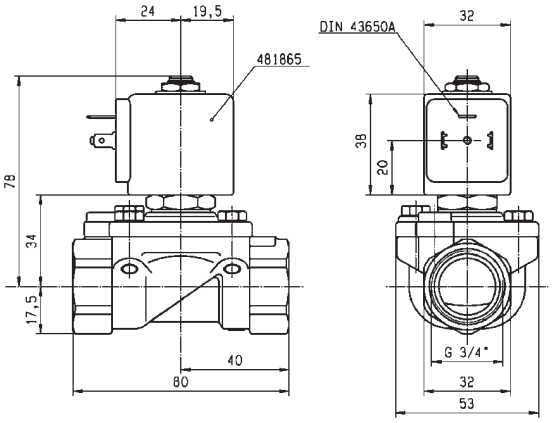
MAGNALIFT

316L STAINLESS ST.
PIPE MOUNTING
NORMALLY CLOSED

Port Size	Orifice Ø	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			IS	ATEX Zone	Protection Mode	Power		Coil Group	Dwg N°
		Kv	KV	Min.	Max. (MOPD)		Min.	Max.								AC	DC		
	mm	l/min	m³/h	Bar	AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.				W	W		
	15	80	4.80	0	16	-	0	100	FKM	221G6606$_{1}$	2995	481865	-	-	-	8	-	2.0	8451
	15	80	4.80	0	-	6	0	60	FKM	221G6606$_{12}$	2995	492425	-	-	-	-	14	2.0	8451
	15	80	4.80	0	16	-	0	65	FKM	221G6606$_{1}$	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	8451
	15	80	4.80	0	16	-	0	120	FKM	221G6606$_{1}$	4538	481000	-	-	-	8	-	2.0	8451
	15	80	4.80	0	20	7	0	140	FKM	221G6606$_{1}$	4538	486265	-	-	-	14	14	2.0	8451
3/4"	15	80	4.80	0	16	-	0	80	FKM	221G6606$_{1}$	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	8451
	15	80	4.80	0	-	10	-10	100	FKM	221G6636	2995	481865	-	-	-	-	9	2.1	8451
	15	80	4.80	0	-	10	-10	65	FKM	221G6636	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.1	8451
	15	80	4.80	0	10	10	-10	65	FKM	221G6636	-	492070	-	1-21	Ex mb IIC T4/T5	9	8	2.1	8451
	15	80	4.80	0	10	10	-10	75	FKM	221G6636	-	492190	-	1-21	Ex eb mb IIC T3/T4	11	9	2.1	8451
	15	80	4.80	0	-	10	-10	80	FKM	221G6636	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.1	8451
	25	160	9.60	0	16	-	0	100	FKM	221G6106$_{1}$	2995	481865	-	-	-	8	-	2.0	3448
	25	160	9.60	0	-	6	0	60	FKM	221G6106$_{12}$	2995	492425	-	-	-	-	14	2.0	3448
	25	160	9.60	0	16	-	0	65	FKM	221G6106$_{1}$	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3448
	25	160	9.60	0	16	6	0	120	FKM	221G6106$_{1}$	4538	486265	-	-	-	14	14	2.0	3448
1"	25	160	9.60	0	16	-	0	80	FKM	221G6106$_{1}$	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3448
	25	170	10.20	0	-	10	-10	100	FKM	221G6136	2995	481865	-	-	-	-	9	2.0	3448
	25	170	10.20	0	-	10	-10	65	FKM	221G6136	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.0	3448
	25	170	10.20	0	-	10	-10	100	FKM	221G6136	4538	481000	-	-	-	-	8	2.0	3448
	25	170	10.20	0	-	10	-10	80	FKM	221G6136	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.0	3448

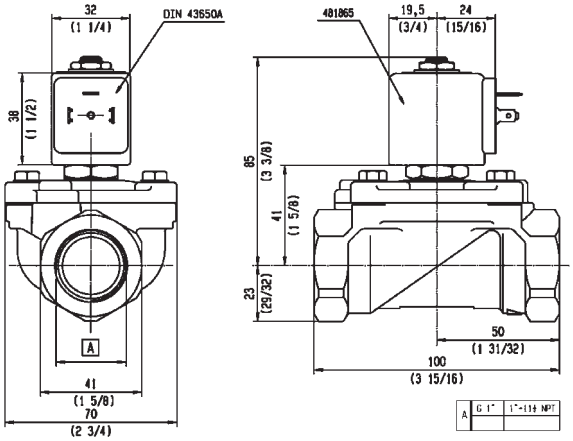
Notes:
1. With silver shading ring
2. For air, the ambient temperature is limited to +25°C, and the max fluid temperature to +40°C
The maximum fluid temperature is given for the lower coil class temperature. See coil pages for more details.

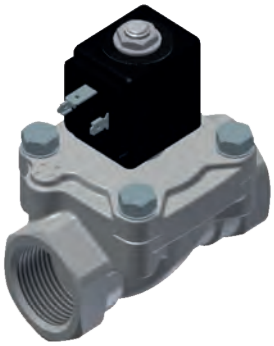
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/4"	15	80	6	-10	-10
To	1"	25	170	20	140	50





Drawing 8451





Drawing 8448

NOTES



OIL BURNER VALVES

Oil Burner

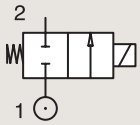
2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/8"	3	4	30	160	154
			1/4"	3	4	30	160	154
			3/8"	6 to 11	22	30	160	154
			1/2"	14	25	30	160	154
	Brass/Pipe Mounting	Normally Open	1/8"	2.5	3.5	30	160	156
			1/4"	2.5	3.5	30	160	156
	Brass/Sub-base Mounting	Normally Closed	SB	2.5	3.5	30	160	156
Magnalift	Brass/Pipe Mounting	Normally Closed	1/2"	15	50	5	140	158
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/4"	8	36	40	140	160
			3/8"	11	50	40	160	160
			1/2"	15	60	40	160	162
Pilot Operated	Brass/Sub-base Mounting	Normally Closed	14 mm	14	45	30	160	162

2/2 OIL BURNER VALVES

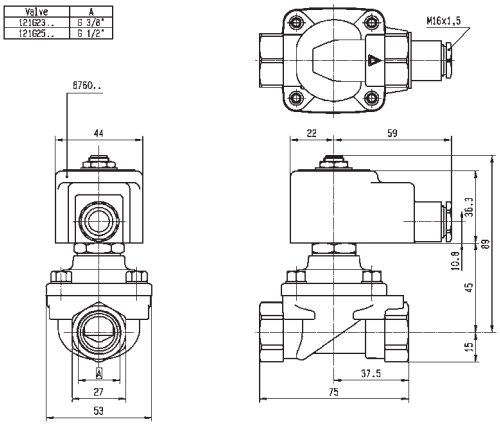
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8"	3	4	0.24	-	0	30	-	-30	160	Ruby	121K2423 13	852023	483824	19	-	14.1	3292
1/4"	3	4.5	0.27	-	0	30	-	-30	160	Ruby	121K6423 13	852023	483824	19	-	14.1	3292
	4	6.5	0.39	-	0	30	-	0	160	Ruby	121K6220 13	852023	483541	20	-	14.1	3510
3/8"	6	12	0.72	-	0	5	-	0	120	Ruby	121K3321	2995	492425	14	-	14.1	3551
	11	22	1.32	-	0	30	-	0	160	FKM	121G2320 123	852023	483541	20	-	14.1	3646
1/2"	14	25	1.5	-	0	30	-	0	160	FKM	121G2520 123	852023	483541	20	-	14.1	3646
	14	25	1.5	-	0	30	-	0	160	FKM	121G2523 123	852023	483824	19	-	14.1	3646

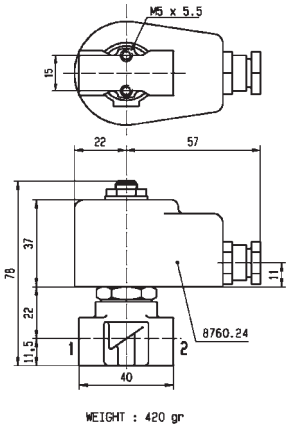
Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2.Max. Static pressure = 30 bar; max pressure differential = 0.2 bar
3.Valve only compatible with hydraulic oil and neutral liquids





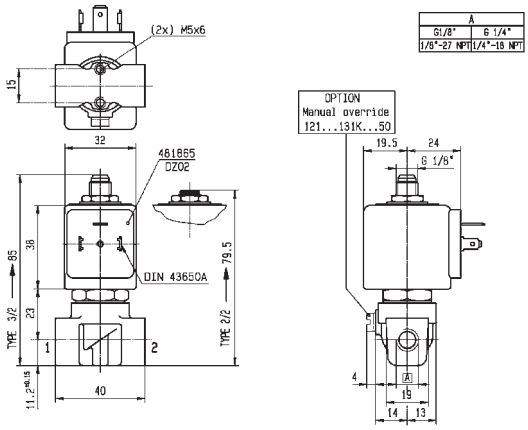
Drawing 3646

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	3	4	5	-30	0
To	1/2"	14	25	30	160	60



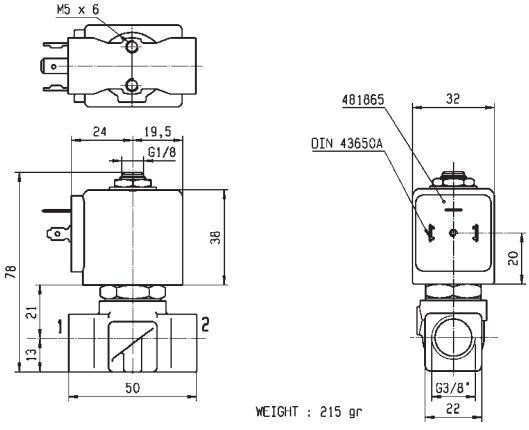


Drawing 3292





Drawing 3510



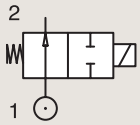


Drawing 3551

2/2 OIL BURNER VALVES

DIRECT OPERATED

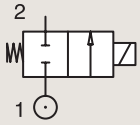
BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8"	2.5	3.5	0.21	-	0	30	-	-30	160	Ruby	122K9321 [1]	852023	483824	19	-	14.1	6766
1/4"	2.5	3.5	0.21	-	0	30	-	-30	160	Ruby	122K8321 [1]	852023	483824	19	-	14.1	6766

Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners

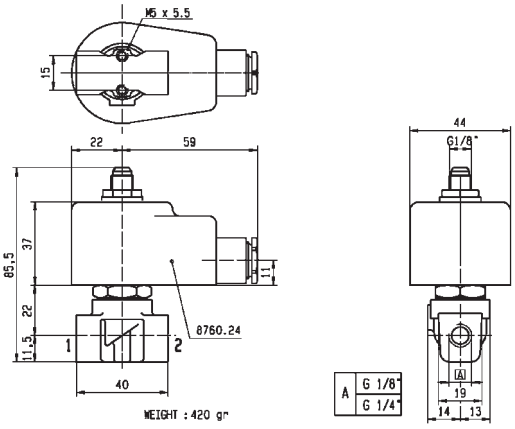
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14	25	1.5	-	0	30	-	0	160	FKM	121F2523 [1]	852023	483824	19	-	14.1	7638

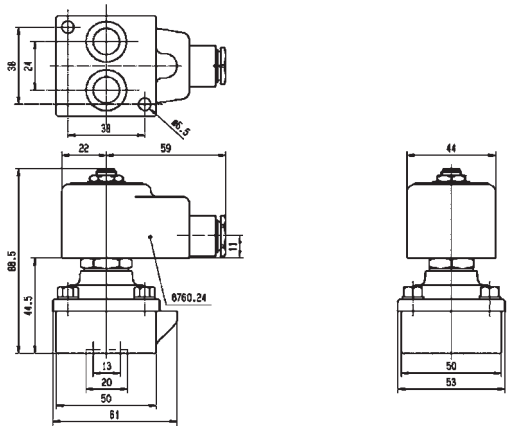
Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2.5	3.5	30	-30	0
To	SB	14	25	30	160	60





Drawing 6766





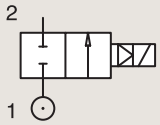
Drawing 7638

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0110/UK V2.0 01/2020

2/2 OIL BURNER VALVES

MAGNALIFT

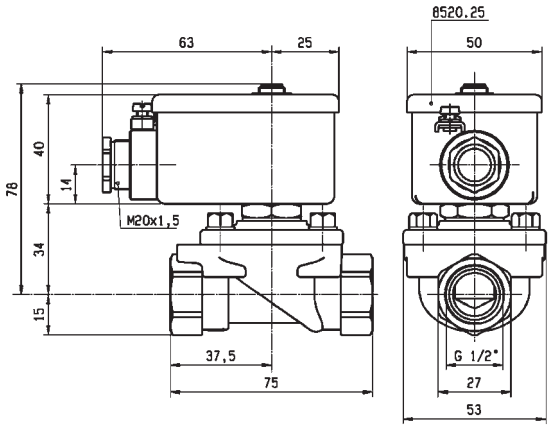
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/2"	15	50	3	-	0	5	-	0	140	FKM	**221G2523** [1]	**852023**	**483824**	19	-	14.1	8298

Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	15	50	5	0	0
To	1/2"	15	50	5	140	60



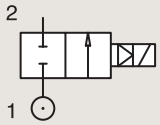


Drawing 8298

2/2 OIL BURNER VALVES

PILOT OPERATED

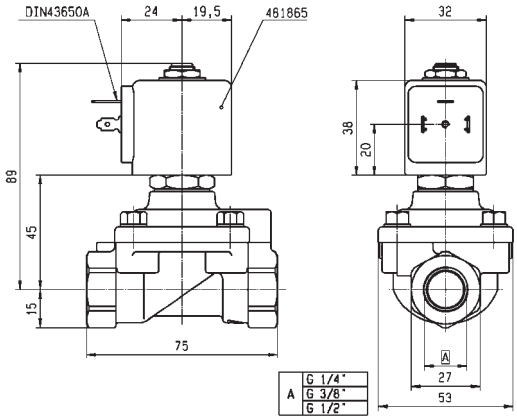
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	8	36	2.16	-	0.3	40	25	-10	100	FKM	**E321H21** $_{234}$	**2995**	**481865**	8	9	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	**E321H21** $_{234}$	**4270**	**481000**	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	**E321H21** $_{234}$	**4270**	**486265**	14	14	2.0	3523
3/8"	11	40	2.4	-	0.3	30	-	0	160	Ruby	**321H2322** $_{124}$	**852023**	**483541**	20	-	14.1	3633
	11	50	3	-	0.3	40	25	-10	100	FKM	**E321H23** $_{234}$	**2995**	**481865**	8	9	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	**E321H23** $_{234}$	**4270**	**481000**	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	**E321H23** $_{234}$	**4270**	**486265**	14	14	2.0	3521

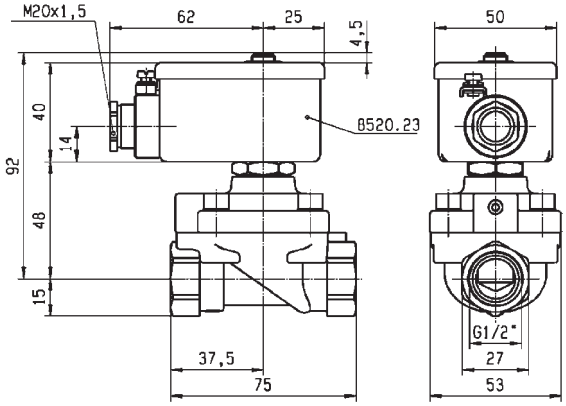
Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
3.Pilot seat disc in synthetic Ruby
4.Valve only compatible with hydraulic oil and neutral liquids

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	36	25	-10	-10
To	3/8"	11	50	40	160	50



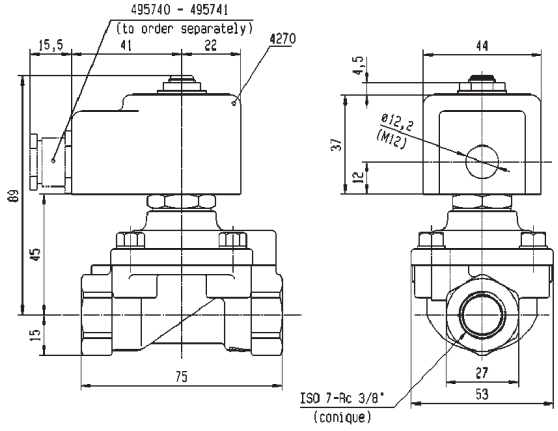


Drawing 3523





Drawing 3633



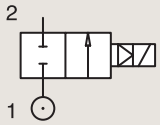


Drawing 3521

2/2 OIL BURNER VALVES

PILOT OPERATED

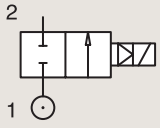
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/2"	15	60	3.6	-	0.3	30	-	0	160	Ruby	**321H2522** $_{14}$	**852023**	**483541**	20	-	14.1	3633
	15	60	3.6	-	0.3	30	-	0	160	Ruby	**321H2523** $_{14}$	**852023**	**483824**	19	-	14.1	3633
	15	60	3.6	-	0.3	40	25	-10	100	FKM	**E321H25** $_{234}$	**2995**	**481865**	8	9	2.0/14.2	3522
	15	60	3.6	-	0.3	40	30	-10	65	FKM	**E321H25** $_{234}$	**-**	**483371**	8	8	2.0/14.2	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	**E321H25** $_{234}$	**4270**	**486265**	14	14	2.0/14.2	3522

Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
3.Pilot seat disc in synthetic Ruby
4.Valve only compatible with hydraulic oil and neutral liquids

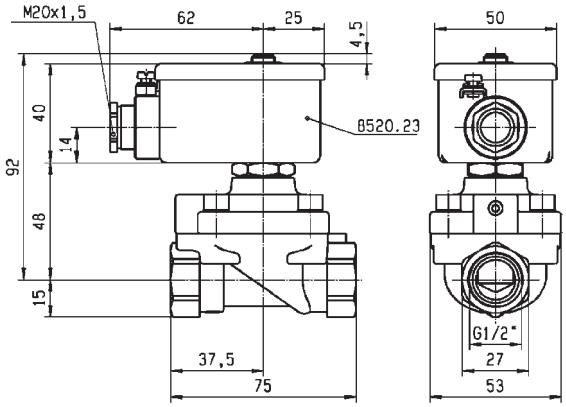
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	14	45	2.7	-	0	30	-	0	160	FKM	**321F2523** $_{12}$	**852023**	**483824**	19	-	14.1	7639

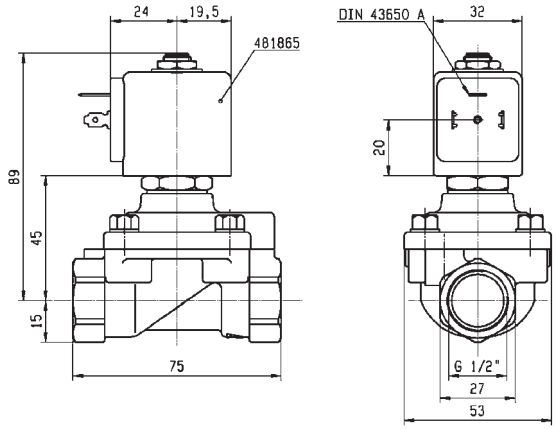
Notes:
1.DIN-EN-ISO 23553-1 (2009-10) approved for oil burners
2.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	14	45	25	-10	-10
To	14 mm	15	60	40	160	50



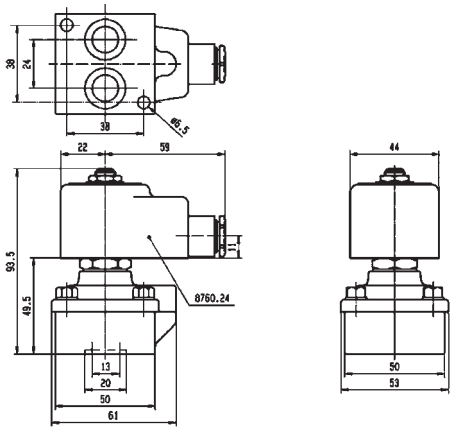


Drawing 3633





Drawing 3522





Drawing 7639

NOTES

FAST SWITCHING VALVES





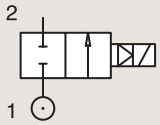
2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Magnalift	Brass/Pipe Mounting	Normally Closed	3/8"	8	0	7	40	162

2/2 FAST SWITCHING VALVES

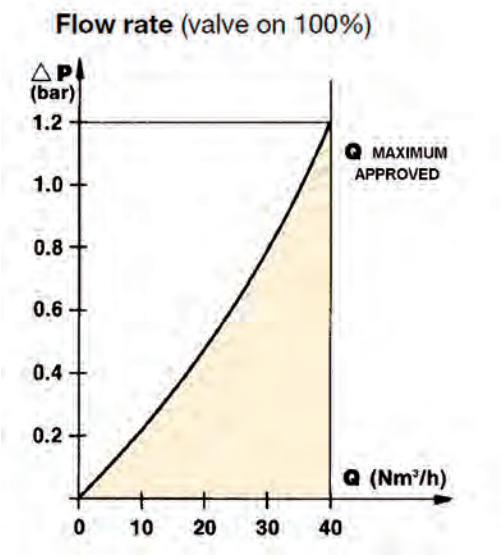
MAGNALIFT

BRASS
PIPE MOUNTING
NORMALLY CLOSED

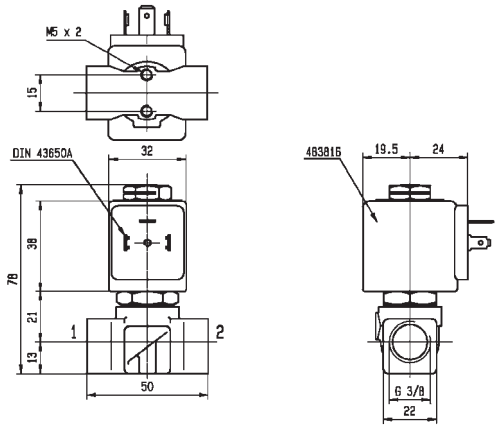


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
3/8"	8			-	0	-	7	0	40	PUR	221J3301E [1]	29956	483816	-	14		8020

Notes:
1.For more details, please consult catalogue 8674UK



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8"	8	-	7	0	0
To	3/8"	8	-	7	40	50





Drawing 8020

NOTES



VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

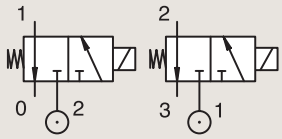


3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/8"	1.2 to 2.5	3.5	15	120	170
			1/4"	1 to 4.5	7	15	120	170 to 176
		Normally Open	1/4"	1.5 to 3	4.5	16	120	178
		Universal	1/8"	1.5 to 2.5	3.5	10	140	180
			1/4"	0.8 to 3	4.5	30	140	180 and 182
		Control by Electric Impulse	1/4"	1.5	1.5	16	100	182
	Brass/Sub-base Mounting	Normally Closed	SB	1 to 2.5	3.5	15	140	184 and 186
		Normally Open	SB	1.5 to 2.5	2.2	15	120	186
		Universal	SB	1.5 to 2.5	2.5	10	120	188
	Anodized Aluminium/ Banjo	Normally Closed	1/8"	1.2	-	10	50	190
			1/4"	1.2	-	10	50	190
	316L Stainless St./Sub-base Mounting	Normally Closed	SB	1.5	1.5	15	100	192
	POM/Sub-base Mounting	Normally Closed	SB	2	2	10	50	194
	Stainless St./Sub-base Mounting	Normally Closed	SB	1.5 to 5	7.2	14	140	196
		Universal	SB	1.5 to 3	3.3	9.5	140	198
Pilot Operated	Anodized Aluminium/ Pipe Mounting	Normally Closed	1/4"	6.5 to 8	20	15	75	200
			1/2"	14	-	15	75	202
		Normally Open	1/4"	8	20	40	75	202
			1/2"	14	-	15	75	204
	Anodized Aluminium/ Sub-base Mounting/ Poppet	Normally Closed	SB	15	-	10	75	204

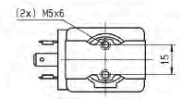
3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

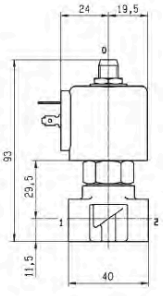
BRASS
PIPE MOUNTING
NORMALLY CLOSED

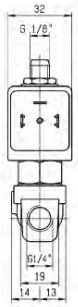


Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
1/8"	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	131M15	8993	488980		2	2.5	1.1	3382
	1.5	1.5	0.9	0.9	0.05	0.05	0	7	7	-10	75	FKM	131M14	8993	488980		2	2.5	1.1	3382
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	E131K14	4270	481000		8	8	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131K14	2995	481865		8	9	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131K16	4270	481000		8	8	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131K16	2995	481865		8	9	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131K1650 [1]	4270	481000		8	8	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131K1650 [1]	2995	481865		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131K13	4270	481000		8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	2995	481865		8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	4270	486265		14	14	2.0	3510
1/8"-1/4"	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131K0397	2995	482740		-	1.6	6.0/8.0	8023
	2.5	2.5	3	3	0.18	0.18	0	2	2	-20	75	PUR	131K0397	-	495900		2.5	2	6.0/8.0	8023
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131K0397	-	495910	*	-	0.3 to 3	6.0/8.0	8023
1/4"	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	55	FKM	131K0490	2995	483580.01	*	-	0.5 to 3	7.0/8.0	7058
	1	1	0.6	0.6	0.03	0.03	0	-	10	-10	75	FKM	131K0490	-	48860.01	*	-	0.3 to 3	7.0/8.0	7058
	1	1	0.6	-	0.03	-	0	-	10	-10	75	FKM	131K0490	-	495910	*	-	0.3 to 3	7.0/8.0	7058

Notes:
1.With manual override



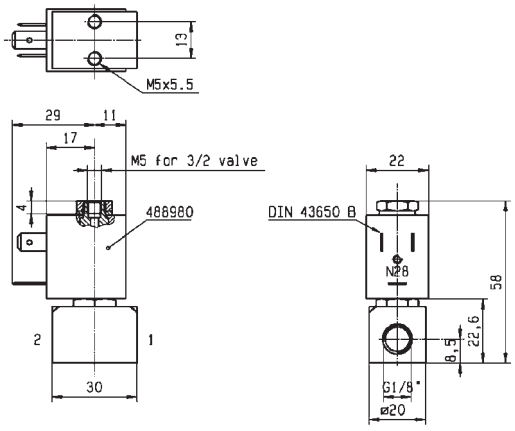






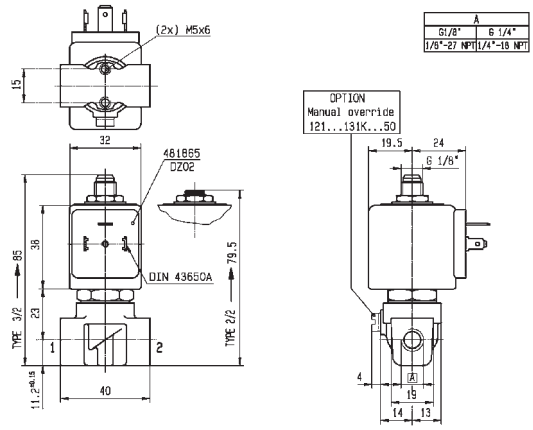
Drawing 7058

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	0.7	7	-10	-10
To	1/8"	2.5	3.5	15	120	50



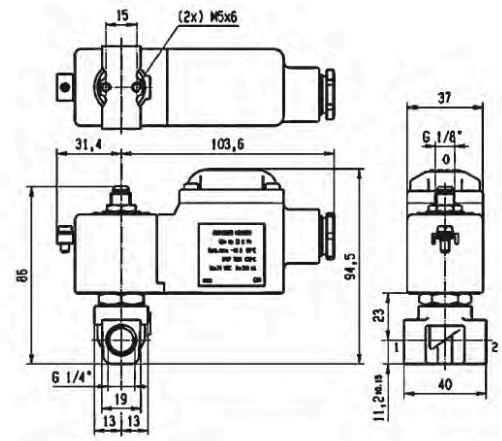


Drawing 3382





Drawing 3510



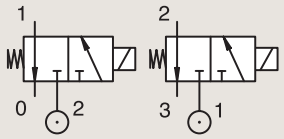


Drawing 8023

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

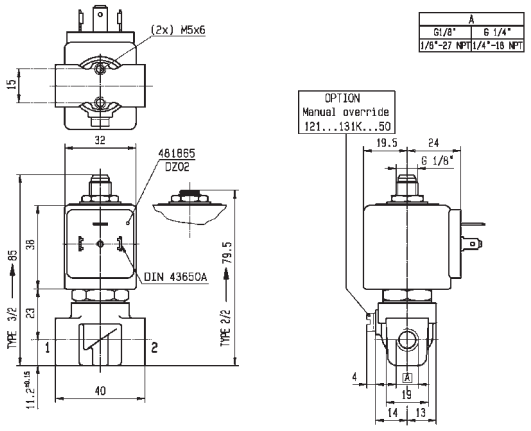
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	-	-30	130	Ruby	**E131K64**	**4270**	**481000**		8	-	2.0	3510
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	30	-30	140	Ruby	**E131K64**	**4270**	**486265**		14	14	2.0	3510
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	-	-30	130	Ruby	**E131K6450**[1]	**4270**	**481000**		8	-	2.0	3510
	1.2	1.5	0.8	1.5	0.05	0.09	0	30	30	-30	140	Ruby	**E131K6450**[1]	**4270**	**486265**		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	**131K0497**	**2995**	**482740**		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	7	7	-20	75	PUR	**131K0497**	**-**	**495900**		2.5	2	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	**131K0497**	**-**	**495910**	*	-	0.3-1.2	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	65	PUR	**131K0497**	**2995**	**496125**		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	120	FKM	**E131K04**	**4270**	**481000**		8	8	2.0	3510
1/4"	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	100	FKM	**E131K04**	**2995**	**481865**		8	9	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	120	FKM	**E131K04**	**4270**	**486265**		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	**E131K0450**[1]	**4270**	**481000**		8	8	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	**E131K0450**[1]	**2995**	**481865**		8	9	2.1	3510
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	**131T23**	**4270**	**481000**		8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	**131T23**	**2995**	**481865**		8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	**131T23**	**4270**	**486265**		14	14	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	**131T2301**[1]	**4270**	**481000**		8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	**131T2301**[1]	**2995**	**481865**		8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	**131T2301**[1]	**4270**	**486265**		14	14	2.0	3223

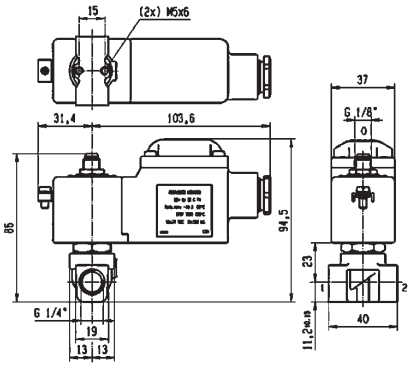
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1	0.6	7	-30	-20
To	1/4"	2	2.5	30	140	50



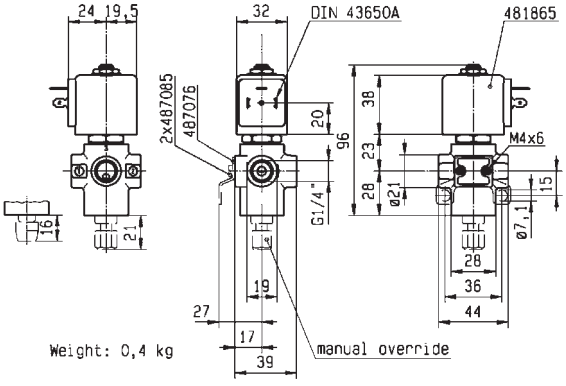


Drawing 3510





Drawing 8023



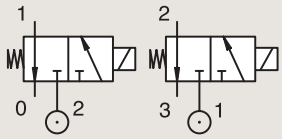


Drawing 3223

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

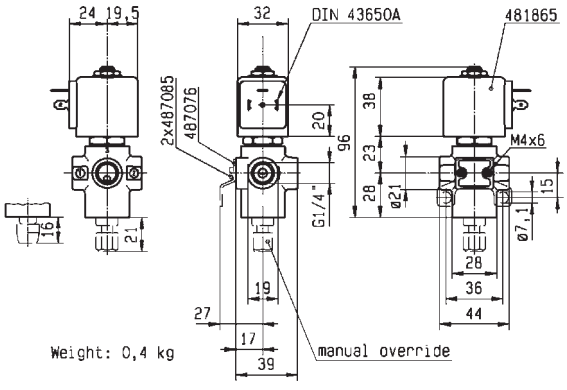
3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	**E131K06**	**4270**	**481000**		8	8	2.0	8119
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	**E131K06**	**2995**	**481865**		8	9	2.0	8119
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	**E131K06**	**4270**	**486265**		14	14	2.0	8119
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	**E131K0650**[1]	**4270**	**481000**		8	8	2.1	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	**E131K0650**[1]	**2995**	**481865**		8	9	2.1	3510
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	**131K0397**	**2995**	**482740**		-	1.6	6.0/8.0	8023
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	65	PUR	**131K0397**	**2995**	**496125**		-	1.6	6.0/8.0	8023
1/4"	2.5	2.5	3	3	0.18	0.18	0	2	2	-20	75	PUR	**131K0397**	**-**	**495900**		2.5	2	6.0/8.0	8023
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	**131K0397**	**-**	**495910**	*	-	0.3-1.2	6.0/8.0	8023
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	**E131K0358**[1]	**4270**	**481000**		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	**E131K0358**[1]	**2995**	**481865**		8	9	2.1	3510
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	**131T29**	**4270**	**481000**		8	8	2.1	3223
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	**131T29**	**2995**	**481865**		8	9	2.1	3223
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	**131T2901**[1]	**4270**	**481000**		8	8	2.1	3223
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	**131T2901**[1]	**2995**	**481865**		8	9	2.1	3223

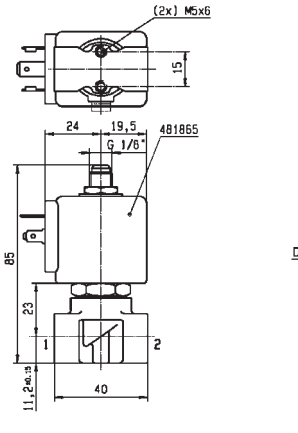
Notes:
1.With manual override

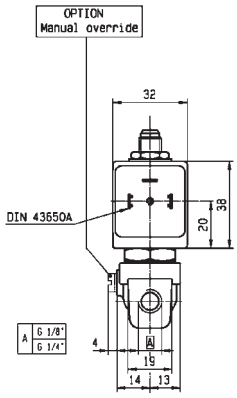




Drawing 3223

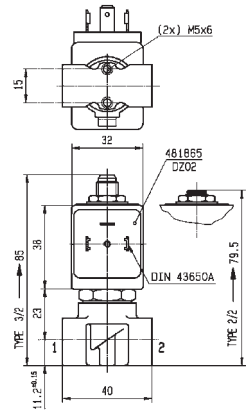
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2	2.5	2	-40	-40
To	1/4"	2.5	3.5	10	120	50

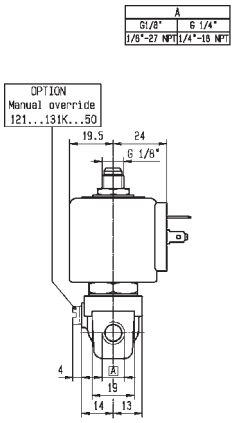






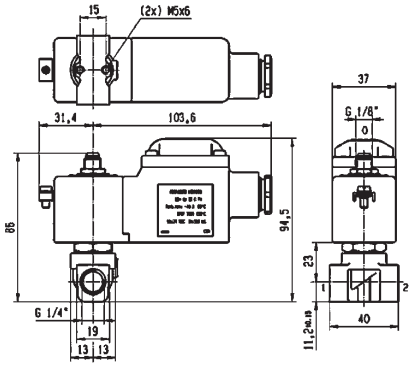
Drawing 8119







Drawing 3510

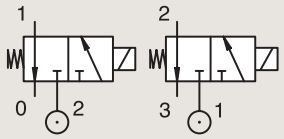




Drawing 8023

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

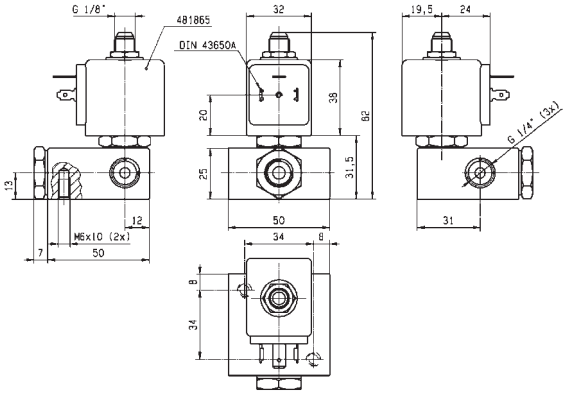
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
1/4"	2.5	6	2.7	15	0.16	0.9	0.1	7	7	-10	75	FKM	**E131E03**	**4270**	**481000**		8	8	2.0	3525
	2.5	6	2.7	15	0.16	0.9	0.1	7	7	-10	75	FKM	**E131E03**	**2995**	**481865**		8	9	2.0	3525
	2.5	6	2.7	15	0.16	0.9	0.1	7	7	-10	75	FKM	**E131E03**	**4270**	**486265**		14	14	2.0	3525
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	**E131K03**	**4270**	**481000**		8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	**E131K03**	**2995**	**481865**		8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	**E131K0308**	**4270**	**481000**		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-40	75	PUR	**E131K0308**	**2995**	**481865**		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	**E131K0350**[1]	**4270**	**481000**		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	**E131K0350**[1]	**2995**	**481865**		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	**E131K63**	**4270**	**481000**		8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	100	Ruby	**E131K63**	**2995**	**481865**		8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	**E131K6350**[1]	**4270**	**481000**		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	100	Ruby	**E131K6350**[1]	**2995**	**481865**		8	9	2.1	3510
	3	4	4.5	6	0.27	0.36	0	10	-	-10	75	FKM	**131T22**	**4270**	**481044**		14	-	2.2	3223
	3	4	4.5	6	0.27	0.36	0	10	-	-10	75	FKM	**131T22**	**2995**	**492425**		14	-	2.2	3223
	4.5	6	7	9	0.42	0.54	0	2	2	-10	75	FKM	**131T21**	**4270**	**481000**		8	8	2.0	3223
	4.5	6	7	9	0.42	0.54	0	2	2	-10	75	FKM	**131T21**	**2995**	**481865**		8	9	2.0	3223
	4.5	6	7	9	0.42	0.54	0	2	2	-10	75	FKM	**131T21**	**4270**	**486265**		14	14	2.0	3223

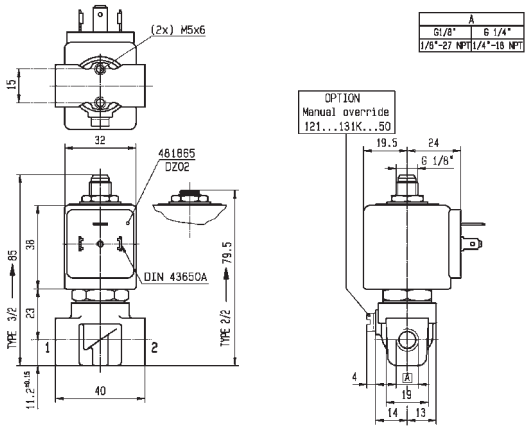
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	2.5	2.7	2	-40	-40
To	1/4"	4.5	7	10	130	50



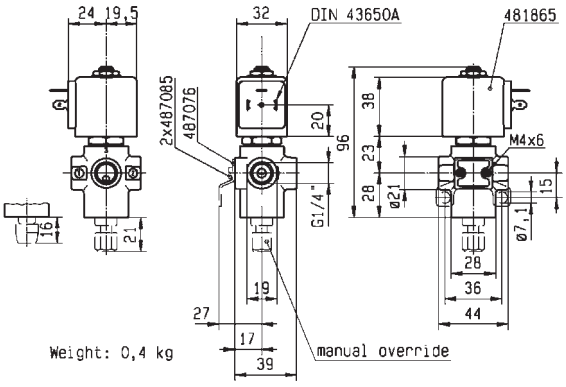


Drawing 3525





Drawing 3510

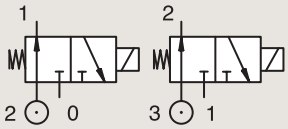




Drawing 3223

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

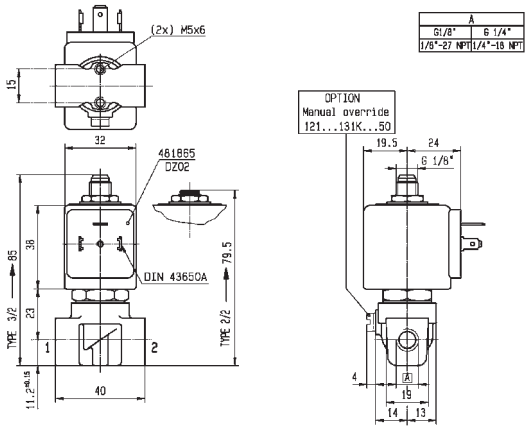
BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	1.5	1.5	1.4	1.4	0.08	0.08	0	16	16	-10	120	FKM	**132K04**	**4270**	**481000**	8	8	2.1	3510
	1.5	1.5	1.4	1.4	0.08	0.08	0	16	16	-10	100	FKM	**132K04**	**2995**	**481865**	8	9	2.1	3510
	2	2	1.8	1.8	0.11	0.11	0	10	10	-10	120	FKM	**132K06**	**4270**	**481000**	8	8	2.1	3510
	2	2	1.8	1.8	0.11	0.11	0	10	10	-10	100	FKM	**132K06**	**2995**	**481865**	8	9	2.1	3510
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	**132T23**	**4270**	**481000**	8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	**132T23**	**2995**	**481865**	8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	-	10	-10	75	FKM	**132T23**	**4270**	**486265**	-	14	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	**132T2301**[1]	**4270**	**481000**	8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	**132T2301**[1]	**2995**	**481865**	8	9	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	-	10	-10	75	FKM	**132T2301**[1]	**4270**	**486265**	-	14	2.0	3223
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	120	FKM	**132K03**	**4270**	**481000**	8	8	2.1	3510
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	100	FKM	**132K03**	**2995**	**481865**	8	9	2.1	3510
	3	4	4.5	6	0.27	0.36	0	10	-	-10	75	FKM	**132T22**	**4270**	**481044**	14	-	2.2	3223
	3	4	4.5	6	0.27	0.36	0	7	-	-10	75	FKM	**132T22**	**2995**	**492425**	14	-	2.2	3223

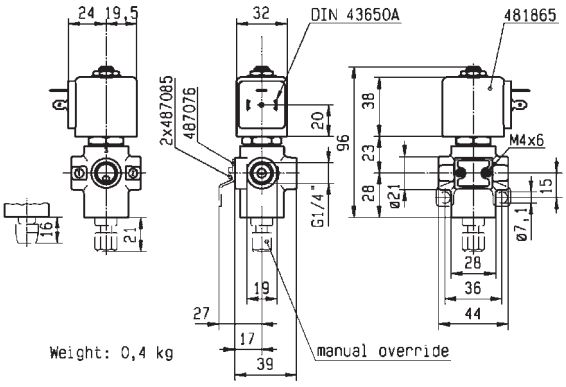
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.4	5	-10	-10
To	1/4"	3	4.5	16	120	50





Drawing 3510

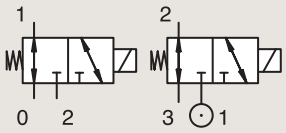




Drawing 3223

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

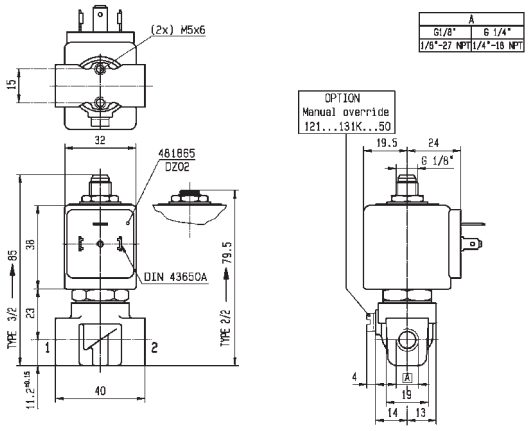
BRASS
PIPE MOUNTING
UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K14	2995	481865		8	9	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K14	4270	481000		8	8	2.1	3510
1/8"	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K16	2995	481865		8	9	2.1	3510
	2	2	2.5	-	0.15	-	0	7	7	-10	120	FKM	E133K16	4270	481000		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133K13	2995	481865		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K13	4270	481000		8	8	2.1	3510
	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	100	FKM	E133K05	2995	481865		8	9	2.1	3510
	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	120	FKM	E133K05	4270	481000		8	8	2.1	3510
	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	120	FKM	E133K05	4270	486265		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	3	-20	75	PUR	133K0497	2995	482740		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	3	3	-20	75	PUR	133K0497	-	495900		2.5	2	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	3	-20	75	PUR	133K0497	-	495910	*	-	0.3-1.2	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	3	-20	65	PUR	133K0497	2995	496125		-	1.6	6.0/8.0	8023
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K04	2995	481865		8	9	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K04	4270	481000		8	8	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K04	4270	486265		14	14	2.0	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K0450 [1]	2995	481865		8	9	2.1	3510
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	E133K0450 [1]	4270	481000		8	8	2.1	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	133T23	2995	481865		8	9	2.1	3223
1/4"	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	133T23	4270	481000		8	8	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	133T2301 [1]	2995	481865		8	9	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	75	FKM	133T2301 [1]	4270	481000		8	8	2.1	3223
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K06	2995	481865		8	9	2.0/3.0	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K06	4270	481000		8	8	2.0/3.0	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K06	4270	486265		14	14	2.0/3.0	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K0650 [1]	2995	481865		8	9	2.1	3510
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	E133K0650 [1]	4270	481000		8	8	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133K03	2995	481865		8	9	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K03	4270	481000		8	8	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K03	4270	486265		14	14	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	E133K0350 [1]	2995	481865		8	9	2.1	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	E133K0350 [1]	4270	481000		8	8	2.1	3510
	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	133T21	2995	481865		8	9	2.1	3223
	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	133T21	4270	481000		8	8	2.1	3223

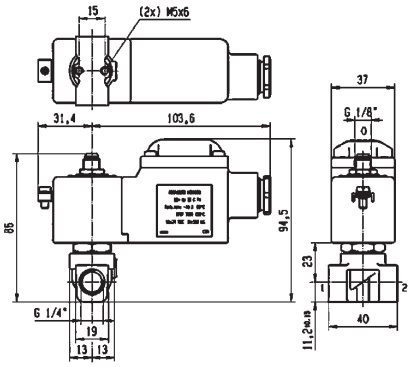
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	0.8	0.3	2	-20	-20
To	1/4"	3	4.5	30	120	50



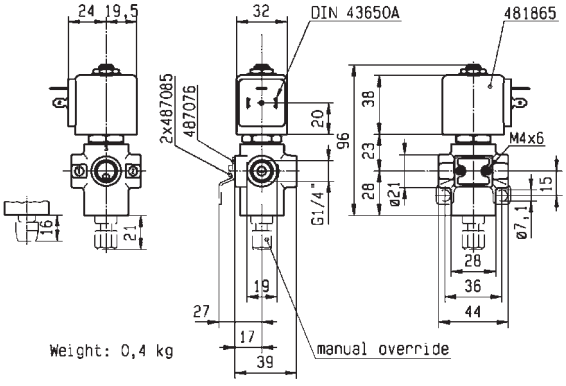


Drawing 3510





Drawing 8023



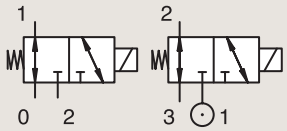


Drawing 3223

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

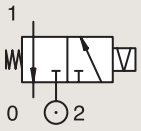
BRASS
PIPE MOUNTING
UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
1/4"	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	133T2101 [1]	2995	481865		8	9	2.1	3223
	3	3	4.5	4.5	0.27	0.27	0	2	2	-10	75	FKM	133T2101 [1]	4270	481000		8	8	2.1	3223

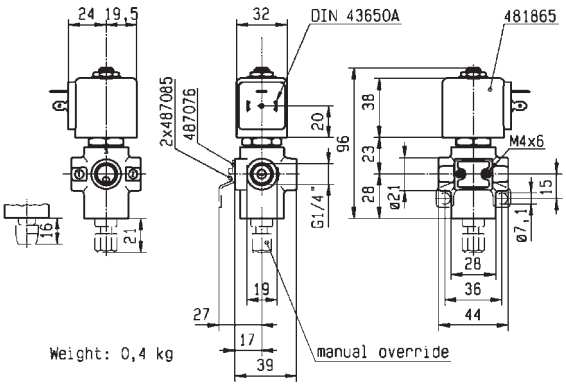
Notes:
1.With manual override

BRASS
PIPE MOUNTING
CONTROL BY ELECTRIC IMPULSE



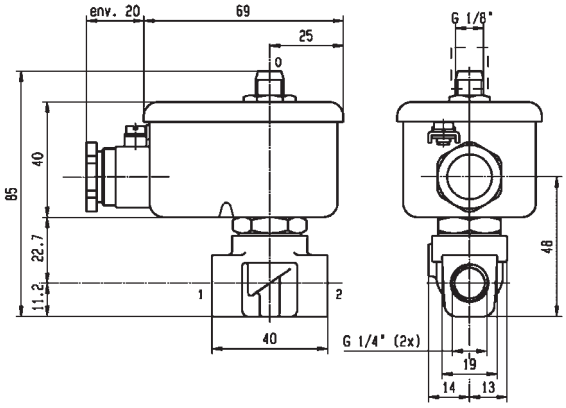
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max					AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C					W	W		
1/4"	1.5	1.5	1.5	1.5	0.09	0.09	0	-	16	-10	100	FKM	135K04	4269	485400	-	13	4.0	8104

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	2	-10	-10
To	1/4"	3	4.5	16	100	50





Drawing 3223

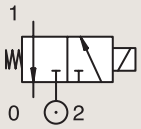




Drawing 8104

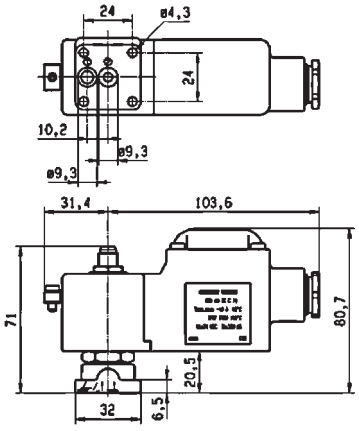
3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

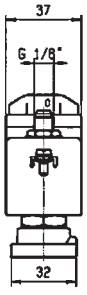
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø 1	Orifice Ø (2)	Flow factors 1 Kv l/min	Flow factors (2) Kv l/min	Flow factors 1 KV m³/h	Flow factors (2) KV m³/h	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
	mm																			
SB	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	**131M75**	**8993**	**488980**		2	2.5	1.1	3383
	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	**131M7550**[1]	**8993**	**488980**		2	2.5	1.1	3383
	1.5	1.5	0.9	0.9	0.05	0.05	0	7	7	-10	75	FKM	**131M74**	**8993**	**488980**		2	2.5	1.1	3383
	1.5	1.5	0.9	0.9	0.05	0.05	0	7	7	-10	75	FKM	**131M7450**[1]	**8993**	**488980**		2	2.5	1.1	3383
SB	1	1	0.6	0.6	0.04	0.036	0	-	10	-10	55	FKM	**131F4490**	**2995**	**48358001**	*	-	0.5-3	7.0	7057
	1	1	0.6	0.6	0.04	0.036	0	-	10	-10	75	FKM	**131F4490**	**-**	**495910**	*	-	0.3-1.2	7.0	7057
	1.5	2	1.5	2.2	0.09	0.13	0	-	16	-10	100	FKM	**131F4410**	**2995**	**481865**		-	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	**131F4497**	**2995**	**482740**		-	1.6	6.0/8.0	8022
	1.5	1.5	1.5	1.5	0.09	0.09	0	7	7	-20	75	PUR	**131F4497**	**-**	**495900**		2.5	2	6.0/8.0	8022
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	**131F4497**	**-**	**495910**	*	-	0.3-1.2	6.0/8.0	8022
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	65	PUR	**131F4497**	**2995**	**496125**		-	1.6	6.0/8.0	8022

Notes:
1.With manual override

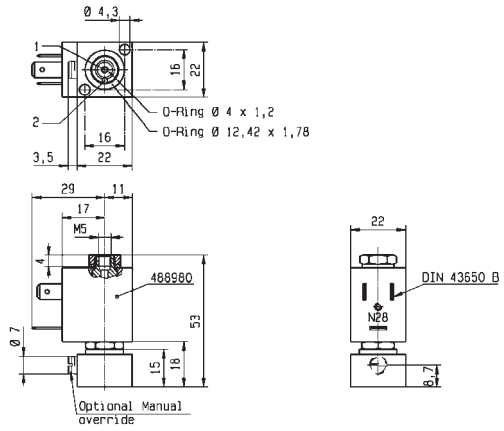






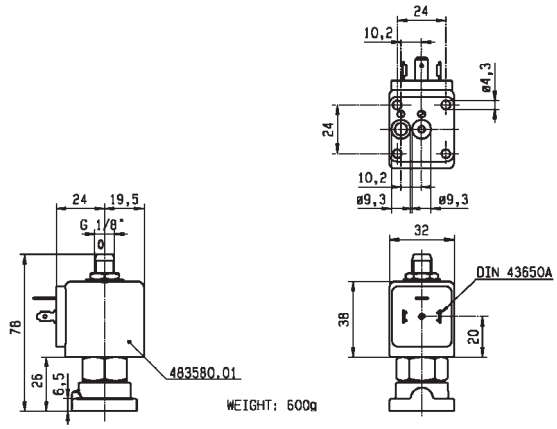
Drawing 8022

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1	0.6	7	-20	-20
To	SB	1.5	1.5	16	100	50



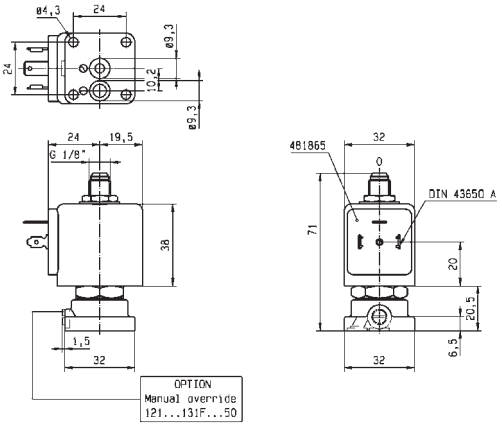


Drawing 3383





Drawing 7057

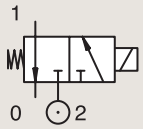




Drawing 3509

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

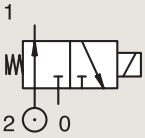
BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø 1 mm	Orifice Ø (2) mm	Flow factors 1 Kv l/min	Flow factors (2) Kv l/min	Flow factors 1 KV m³/h	Flow factors (2) KV m³/h	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131F44	2995	481865		8	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	E131F44	4270	481000		8	8	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131F4450 [1]	2995	481865		8	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	E131F4450 [1]	4270	481000		8	8	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131F46	2995	481865		8	9	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131F46	4270	481000		8	8	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	100	FKM	131F4650 [1]	2995	481865		8	9	2.1	3509
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131F4650 [1]	4270	481000		8	8	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131F43	2995	481865		8	9	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131F43	4270	481000		8	8	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131F4350 [1]	2995	481865		8	9	2.0	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131F4350 [1]	4270	481000		8	8	2.0	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131F4350 [1]	4270	486265		14	14	2.0	3509

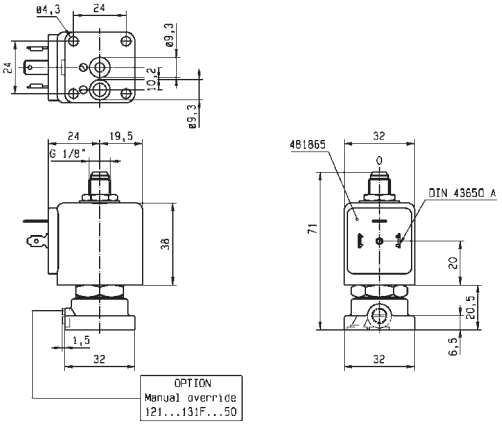
Notes:
1.With manual override

BRASS
SUB-BASE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø 1 mm	Orifice Ø (2) mm	Flow factors 1 Kv l/min	Flow factors (2) Kv l/min	Flow factors 1 KV m³/h	Flow factors (2) KV m³/h	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	1.5	1.5	1.4	1.4	0.08	0.08	0	15	15	-10	75	FKM	132F44	4270	481000	8	8	2.1	3509
	1.5	1.5	1.4	1.4	0.08	0.08	0	15	15	-10	75	FKM	132F44	2995	481865	8	9	2.1	3509
	2	2	1.8	1.8	0.11	0.11	0	10	10	-10	120	FKM	132F46	4270	481000	8	8	2.1	3509
	2	2	1.8	1.8	0.11	0.11	0	10	10	-10	100	FKM	132F46	2995	481865	8	9	2.1	3509
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	75	FKM	132F43	4270	481000	8	8	2.0	3509
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	75	FKM	132F43	2995	481865	8	9	2.0	3509
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10	75	FKM	132F43	4270	486265	14	14	2.0	3509

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.4	7	-10	-10
To	SB	2.5	3.5	15	120	50

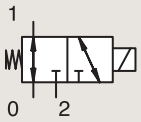




Drawing 3509

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

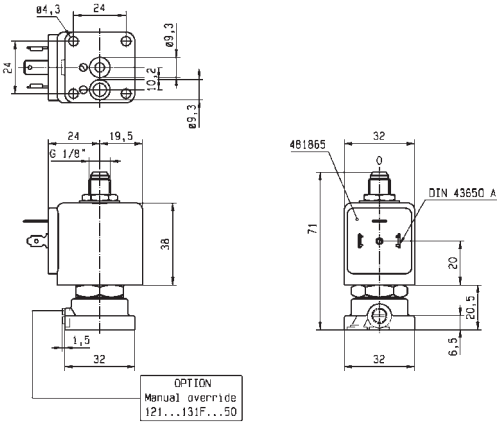
BRASS
SUB-BASE MOUNTING
UNIVERSAL



Port size	Orifice Ø 1 mm	Orifice Ø (2) mm	Flow factors 1 Kv l/min	Flow factors (2) Kv l/min	Flow factors 1 KV m³/h	Flow factors (2) KV m³/h	Operating Pressure Differential Min bar	Operating Pressure Differential Max (MOPD) AC bar	Operating Pressure Differential Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	**E133F4450**[1]	**4270**	**481000**	8	8	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	**E133F4450**[1]	**2995**	**481865**	8	9	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	**E133F44**	**4270**	**481000**	8	8	2.1	3509
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	**E133F44**	**2995**	**481865**	8	9	2.1	3509
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	120	FKM	**133F46**	**4270**	**481000**	8	8	2.1	3509
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	**133F46**	**2995**	**481865**	8	9	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	**E133F43**	**4270**	**481000**	8	8	2.1	3509
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	**E133F43**	**2995**	**481865**	8	9	2.1	3509

Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.5	4	-10	-10
To	SB	2.5	3.5	10	120	50

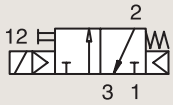




Drawing 3509

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

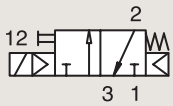
ANODIZED ALUMINIUM
BANJO
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max								
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
	1.2	50	0	10	10	-10	50	NBR	**131B14**$_{12}$	-	**496131**	3	3	1.2	8227
1/8"	1.2	50	0	10	10	-10	50	NBR	**131B14**$_{12}$	-	**496482**	3	3	1.2	8227
	1.2	50	0	10	10	-10	50	NBR	**131B14**$_{12}$	-	**496637**	3	3	1.2	8227

Notes:
1.Valve only compatible with air and neutral gases
2.With manual override

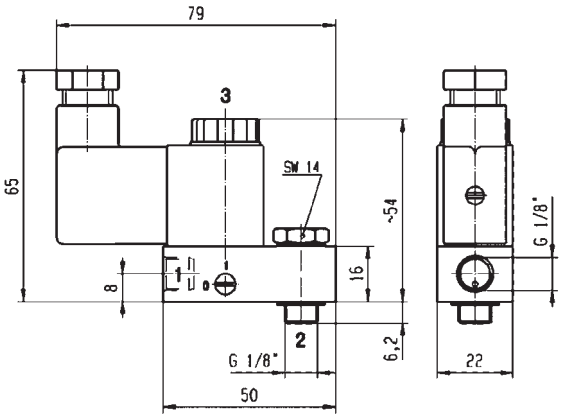
ANODIZED ALUMINIUM
BANJO
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max								
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
	1.2	50	0	10	10	-10	50	NBR	**131B04**$_{12}$	-	**496131**	3	3	1.2	8226
1/4"	1.2	50	0	10	10	-10	50	NBR	**131B04**$_{12}$	-	**496482**	3	3	1.2	8226
	1.2	50	0	10	10	-10	50	NBR	**131B04**$_{12}$	-	**496637**	3	3	1.2	8226

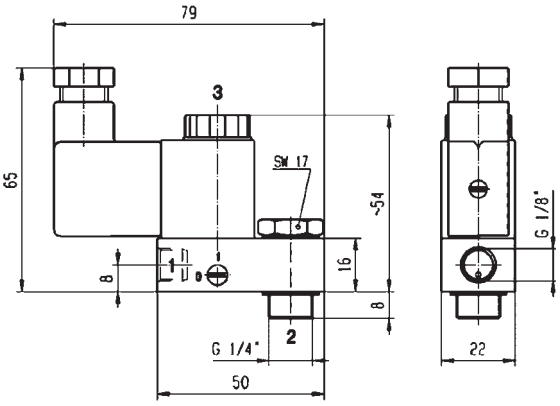
Notes:
1.Valve only compatible with air and neutral gases
2.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.2	50	10	-10	-10
To	1/4"	1.2	50	10	50	50





Drawing 8227



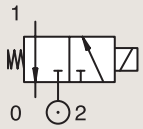


Drawing 8226

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

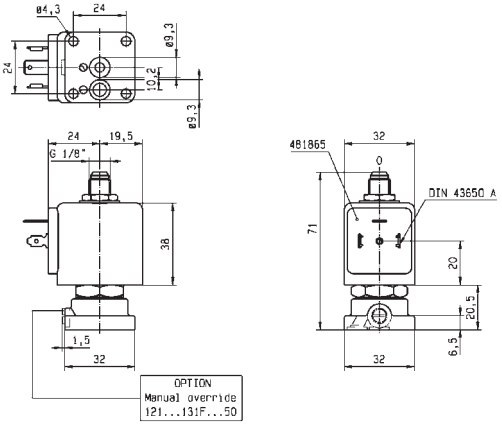
316L STAINLESS ST.
SUB-BASE MOUNTING



NORMALLY CLOSED

Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
BSP	mm		Kv l/min		KV m^3/h		bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	1.5	1.5	1.5	2.2	0.09	0.13	0	15	15	-10	100	FKM	**131F5406**	**2995**	**481865**	8	9	2.1	3509

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.5	15	-10	-10
To	SB	1.5	1.5	15	100	50

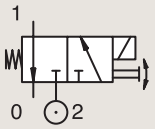




Drawing 3509

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

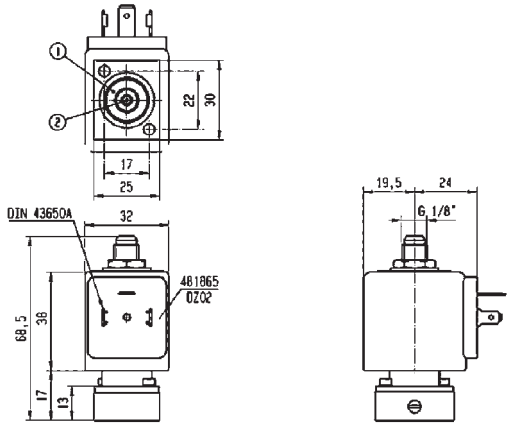
POM
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø 1	Orifice Ø (2)	Flow factors 1 Kv l/min	Flow factors (2) Kv l/min	Flow factors 1 KV m³/h	Flow factors (2) KV m³/h	Operating Pressure Differential Min bar	Operating Pressure Differential Max (MOPD) AC bar	Operating Pressure Differential Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
	mm						bar			°C									
SB	2	2	2	2	0.12	0.12	0	10	10	-10	50	FKM	E131F26 [12]	2995	481865	8	9	2.1/3.0	3601
	2	2	2	2	0.12	0.12	0	10	10	-10	50	FKM	E131F26 [2]	2995	482730	6	7	2.1/3.0	3601

Notes:
1.20% Switch-on - max. 2 min
2.With manual override

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2	2	10	-10	-10
To	SB	2	2	10	50	50





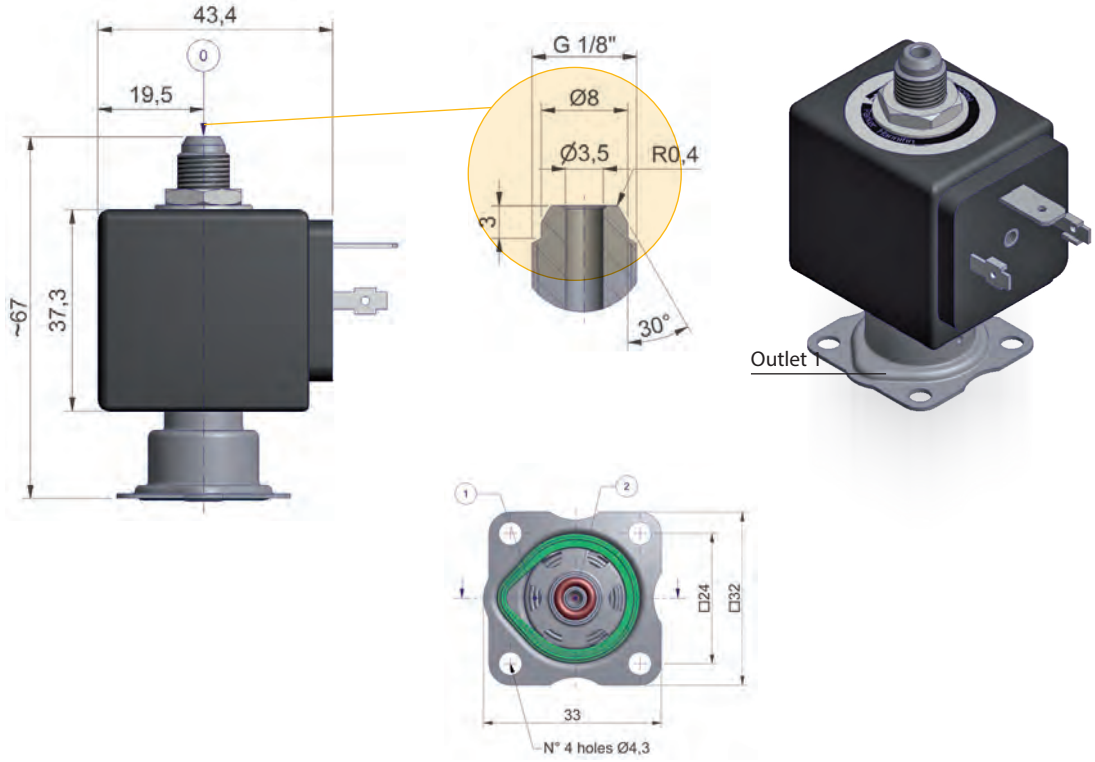
Drawing 3601

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

STAINLESS ST.
SUB-BASE MOUNTING
NORMALLY CLOSED

Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Coil Ref.	Power		Coil Group	Compatible Adapter Kit
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max				AC W	DC W		
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C							
SB	1.5	2.5	1.4	2.9	0.08	0.17	0	14	14	-10	140	Ruby	**3019F1GRG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	1.5	2.5	1.4	2.9	0.08	0.17	0	14	14	-10	140	FKM FDA	**3019F1GVG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	2.0	2.5	2.1	2.9	0.13	0.17	0	10	10	-10	140	Ruby	**3019F1JRG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	2.0	2.5	2.1	2.9	0.13	0.17	0	10	10	-10	140	FKM FDA	**3019F1JVG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	2.5	2.5	2.9	2.9	0.17	0.17	0	6.5	6.5	-10	140	Ruby	**3019F1LRG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	2.5	2.5	2.9	2.9	0.17	0.17	0	6.5	6.5	-10	140	FKM FDA	**3019F1LVG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	3.0	2.5	3.3	2.9	0.20	0.17	0	4	4	-10	140	Ruby	**3019F1NRG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	3.0	2.5	3.3	2.9	0.20	0.17	0	4	4	-10	140	FKM FDA	**3019F1NVG7**	481865	9	8	2.0	XGSPG1-XGSPG2
	4.0	2.5	6.5	2.9	0.39	0.17	0	3	3	-10	140	FKM FDA	**3019F1QVG7**	481865	9	8	2.0	XGSPG3
	4.0	2.5	6.5	2.9	0.39	0.17	0	3	3	-10	140	EPDM	**3019F1QEG7**	481865	9	8	2.0	XGSPG3
	5.0	2.5	7.2	0.43	0.43	0.17	0	2	2	-10	140	FKM FDA	**3019F1SVG7**	481865	9	8	2.0	XGSPG3
	5.0	2.5	7.2	0.43	0.43	0.17	0	2	2	-10	140	EPDM	**3019F1SEG7**	481865	9	8	2.0	XGSPG3

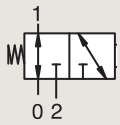
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2	2	10	-10	-10
To	SB	2	2	10	50	50



All dimensions are in mm

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
DIRECT OPERATED

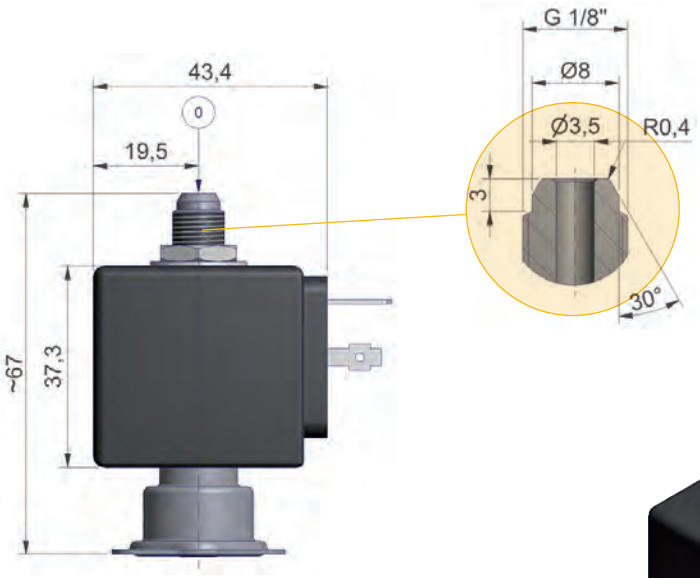
STAINLESS ST.
SUB-BASE MOUNTING

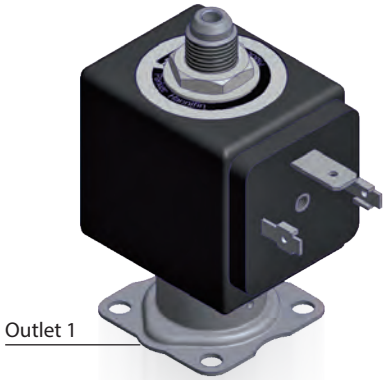


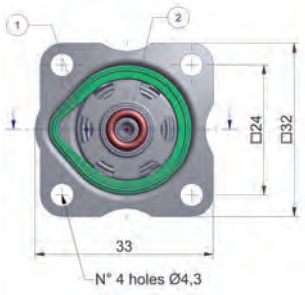
UNIVERSAL

Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Coil Ref.	Power		Coil Group	Compatible Adapter Kit
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max				AC	DC		
	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C				W	W		
SB	1.5	1.5	1.4	1.3	0.08	0.8	0	9.5	9.5	-10	140	FKM FDA	**3039F1GVG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	1.5	1.5	1.4	1.3	0.08	0.08	0	9.5	9.5	-10	140	EPDM	**3039F1GEG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	2.0	0.13	0.12	0	3.5	3.5	-10	140	FKM FDA	**3039F1JVG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	2.0	0.13	0.12	0	3.5	3.5	-10	140	EPDM	**3039F1JEG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	2.8	0.17	0.17	0	2	2	-10	140	FKM FDA	**3039F1LVG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	2.8	0.17	0.168	0	2	2	-10	140	EPDM	**3039F1LEG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	2.8	0.2	0.17	0	2	2	-10	140	FKM FDA	**3039F1NVG7**	481865	9	8	2.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	2.8	0.2	0.168	0	2	2	-10	140	EPDM	**3039F1NEG7**	481865	9	8	2.0	XGSPG1 - XGSPG2

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2	2	10	-10	-10
To	SB	2	2	10	50	50



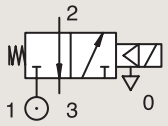




All dimensions are in mm

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

ANODIZED ALUMINIUM
PIPE MOUNTING



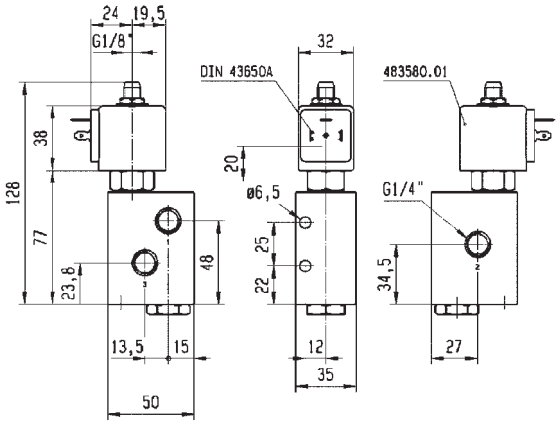
NORMALLY CLOSED

Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC W	DC W		
BSP	mm		Kv l/min		KV m^3/h		bar	AC bar	DC bar	°C	°C									
1/4"	6.5	6.5	10	-	0.6	-	1	-	10	-10	55	NBR	**331B7490$_{1}$**	**2995**	**48358001**	*	-	0.5-3	7.0/8.0	8270
	6.5	6.5	10	-	0.6	-	1	-	10	-10	75	NBR	**331B7490$_{1}$**	**-**	**495910**	*	-	0.3-1.2	7.0/8.0	8270
	6.5	6.5	10	-	0.6	-	1	10	10	-10	75	NBR	**E331B74$_{13}$**	**2995**	**481865**		8	9	2.1	3240
	6.5	6.5	10	-	0.6	-	1	10	10	-10	75	NBR	**E331B74$_{13}$**	**4270**	**485100**		8	8	2.1	3240
	8	8	20	20	1.2	1.2	1	15	15	-10	75	NBR	**E331B01$_{2}$**	**4270**	**481000**		8	8	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	75	NBR	**E331B01$_{2}$**	**2995**	**481865**		8	9	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	65	NBR	**E331B01$_{2}$**	**-**	**483371**		8	8	2.1	3234

Notes:
1.Valve only compatible with air and neutral gases
2.Valve only compatible with hydraulic oil and air/neutral gases
3.With manual override

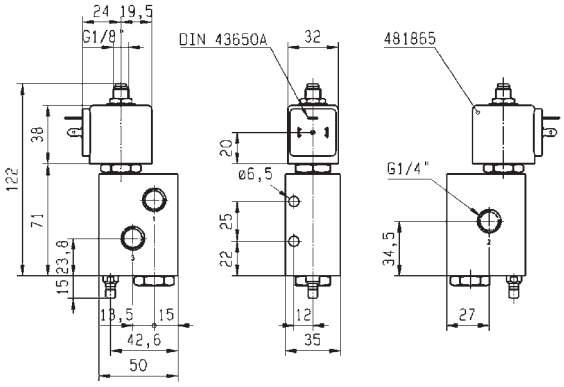
IECEx certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6.5	10	10	-10	-10
To	1/4"	8	20	15	75	50





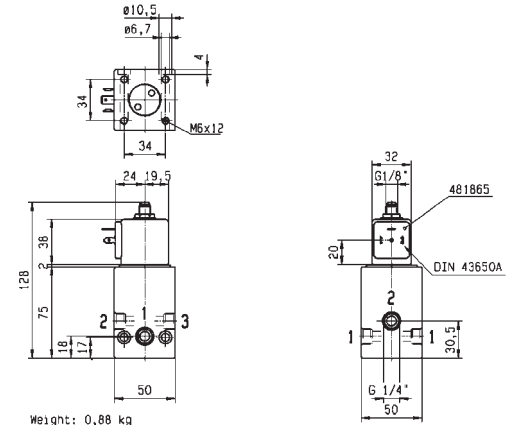
Drawing 8270



Weight: 0,51 kg



Drawing 3240



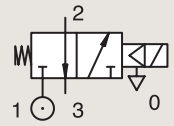
Weight: 0,88 kg



Drawing 3234

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

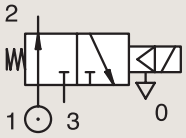
ANODIZED ALUMINIUM
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C						W	W		
1/2"	14	14	-	-	-	-	1	15	-	-10	75	NBR	E331B21 [1]	2995	482722		-	-	2.1	3238
	14	14	-	-	-	-	1	15	15	-10	65	NBR	E331B21 [1]	-	483371		8	8	2.1	3238

Notes:
1.Valve only compatible with air and neutral gases
2.Valve only compatible with hydraulic oil and air/neutral gases
3.With manual override

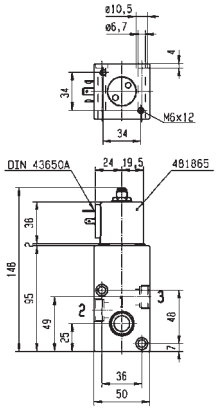
ANODIZED ALUMINIUM
PIPE MOUNTING
NORMALLY OPEN

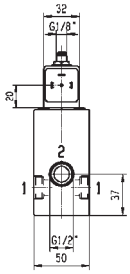


Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max					AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C					W	W		
1/4"	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	332B02 [23]	2995	481865	8	9	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	332B02 [23]	4270	481000	8	8	2.1	8114
	8	8	20	20	1.2	1.2	1	15	15	-10	75	NBR	E332B01 [3]	2995	481865	8	9	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	75	NBR	E332B01 [3]	4270	481000	8	8	2.1	3234
	8	8	20	20	1.2	1.2	1	15	15	-10	65	NBR	E332B01 [3]	-	483371	8	8	2.1	3234

Notes:
1.Valve only compatible with air and neutral gases
2.Pilot seat discs in Kel-F (PCTFE); valve with pilot return pipe
3.Valve only compatible with hydraulic oil and air/neutral gases

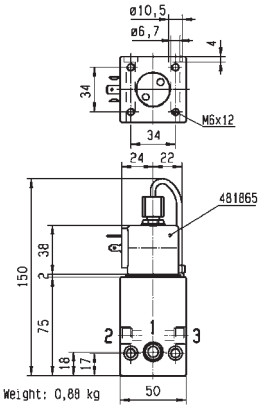
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	10	15	-10	-10
To	1/4"	14	20	40	75	50

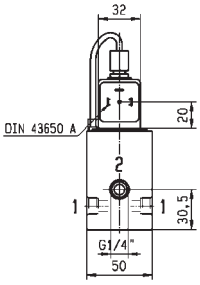






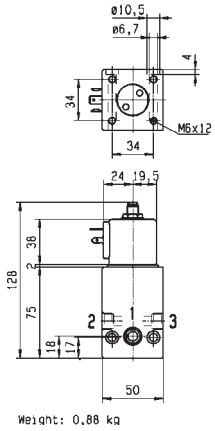
Drawing 3238

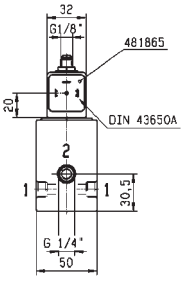






Drawing 8114



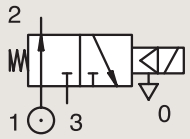




Drawing 3234

3/2 VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
PILOT OPERATED

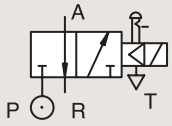
ANODIZED ALUMINIUM
PIPE MOUNTING
NORMALLY OPEN



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max					AC	DC		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C					W	W		
1/2"	14	14	37.5	-	-	-	1	15	15	-10	75	NBR	E332B21 [1]	2995	481865	8	9	2.1	3238
	14	14	37.5	-	-	-	1	15	15	-10	75	NBR	E332B21 [1]	4270	481000	8	8	2.1	3238

Notes:
1.Valve only compatible with air and neutral gases
2.With manual override

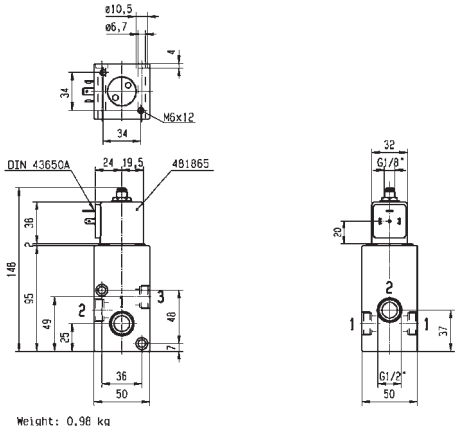
ANODIZED ALUMINIUM
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max					AC	DC		
	mm	Qn l'min	bar	AC bar	DC bar	°C	°C					W	W		
SB	15	5000	0.5	10	10	-10	75	NBR	E331L21 [12]	2995	481865	8	9	2.1/3.0	3130
	15	5000	0.5	10	10	-10	65	NBR	E331L21 [12]	-	483371	8	8	2.1/3.0	3130

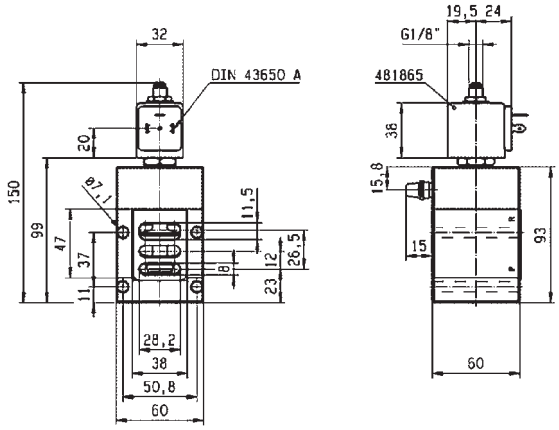
Notes:
1.Valve only compatible with air and neutral gases
2.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	14	-	10	-10	-10
To	1/2"	15	5000	15	75	50





Drawing 3238





Drawing 3130

NOTES



VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 75 BAR)

Oil Water

3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valve
Pilot Operated	**Anodized Aluminium/ Pipe Mounting**	**Normally Closed**	1/4"	8	10	40	75	**208**

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

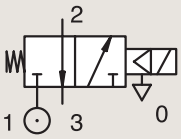
3/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS (UP TO 75 BAR)

PILOT OPERATED

ANODIZED ALUMINIUM

PIPE MOUNTING

NORMALLY CLOSED

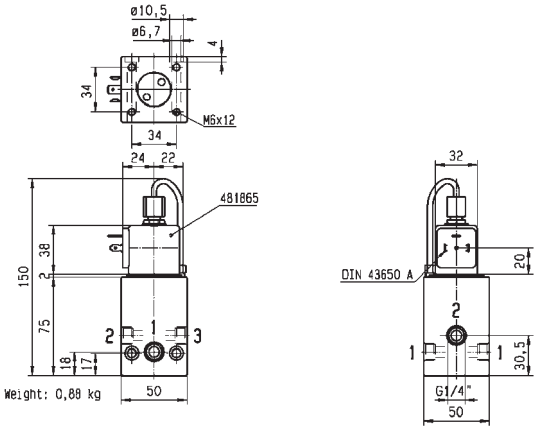


Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max					AC	DC		
BSP	mm		Kv l/min		KV m^3/h		bar	AC bar	DC bar	°C	°C					W	W		
1/4"	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	**331B02$_{12}$**	**2995**	**481865**	8	9	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	**331B02$_{12}$**	**4270**	**481000**	8	8	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	**331B0216$_{13}$**	**2995**	**481865**	8	9	2.1	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	**331B0216$_{13}$**	**4270**	**481000**	8	8	2.1	8114

Notes:

1.Pilot seat discs in Kel-F (PCTFE); valve with pilot return pipe
2.Valve only compatible with hydraulic oil
3.Valve only compatible with air/neutral gases

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	10	40	-10	-10
To	1/4"	8	10	40	75	50





Drawing 8114

NOTES



HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.)



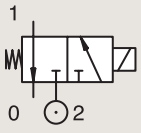
3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valve
Direct Operated	303 Stainless St./Pipe Mounting	Normally Closed	1/4"	1 to 2.5	3	15	180	212
		Universal	1/4"	1.5 to 2.5	3.5	10	180	214

3/2 HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.) DIRECT OPERATED

303 STAINLESS ST. PIPE MOUNTING

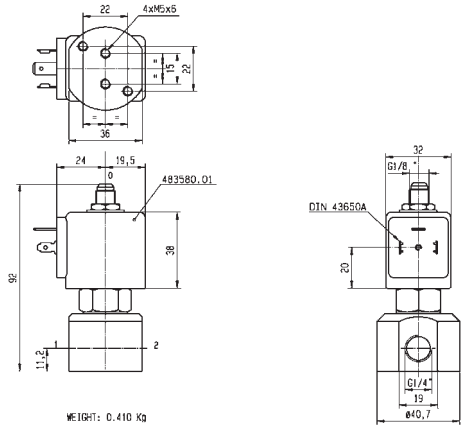
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max						AC	DC		
BSP	mm		Kv l/min		KV m^3/h		bar	AC bar	DC bar	°C	°C						W	W		
	1	1	0.6	0.6	0.04	0.04	0	-	10	-10	55	FKM	131V5490	2995	48358001	*	-	0.5-3	7.0/8.0	6740
	1	1	0.6	0.6	0.04	0.04	0	-	10	-10	75	FKM	131V5490	-	495910	*	-	0.3-1.2	7.0/8.0	6740
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	120	FKM	131V5406	4270	481000		8	8	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10	100	FKM	131V5406	2995	481865		8	9	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	0	130	Ruby	131V5463[1]	4270	481000		8	8	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	0	100	Ruby	131V5463[1]	2995	481865		8	9	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	0	180	Ruby	131V5463[1]	4270	486265		14	14	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131V5497	2995	482740		-	1.6	6.0/8.0	8024
	1.5	1.5	1.5	1.5	0.09	0.09	0	7	7	-20	75	PUR	131V5497	-	495900		2.5	2	6.0/8.0	8024
1/4"	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	75	PUR	131V5497	-	495910	*	-	0.3-1.2	6.0/8.0	8024
	1.5	1.5	1.5	1.5	0.09	0.09	0	-	7	-20	65	PUR	131V5497	2995	496125		-	1.6	6.0/8.0	8024
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	131V5306	4270	481000		8	8	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	131V5306	2995	481865		8	9	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	131V5363[1]	4270	481000		8	8	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	100	Ruby	131V5363[1]	2995	481865		8	9	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	180	Ruby	131V5363[1]	4270	486265		14	14	2.0	8116
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131V5397	2995	482740		-	1.6	6.0/8.0	8024
	2.5	2.5	3	3	0.18	0.18	0	2	2	-20	75	PUR	131V5397	-	495900		2.5	2	6.0/8.0	8024
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	75	PUR	131V5397	-	495910	*	-	0.3-1.2	6.0/8.0	8024
	2.5	2.5	3	3	0.18	0.18	0	-	2	-20	65	PUR	131V5397	2995	496125		-	1.6	6.0/8.0	8024

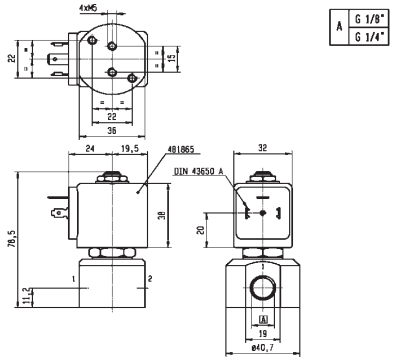
Notes:
1.Valve only compatible with hydraulic oil and neutral liquids

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1	0.6	2	-30	-20
To	1/4"	2.5	3.5	15	180	50



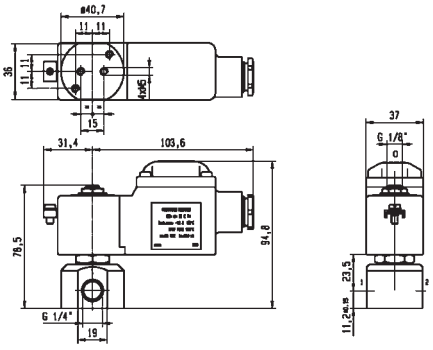


Drawing 6740





Drawing 8116

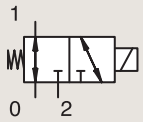




Drawing 8024

3/2 HIGH CORROSION RESISTANT VALVES (303 STAINLESS ST.) DIRECT OPERATED

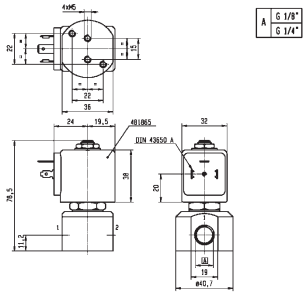
303 STAINLESS ST.
PIPE MOUNTING
UNIVERSAL



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max								
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	120	FKM	133V5406	4270	481000	8	8	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	133V5406	2995	481865	8	9	2.1	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	130	Ruby	133V5463[1]	4270	481000	8	8	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	4	4	0	100	Ruby	133V5463[1]	2995	481865	8	9	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	180	Ruby	133V5463[1]	4270	486265	14	14	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	120	FKM	133V5306	4270	481000	8	8	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	133V5306	2995	481865	8	9	2.1	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	130	Ruby	133V5363[1]	4270	481000	8	8	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	100	Ruby	133V5363[1]	2995	481865	8	9	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	180	Ruby	133V5363[1]	4270	486265	14	14	2.0	8116

Notes:
1.Valve only compatible with hydraulic oil and neutral liquids

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	1.5	1.5	4	-10	-10
To	1/4"	2.5	3.5	10	180	50





Drawing 8116

NOTES



VALVES FOR BEVERAGE DISPENSING AND LIQUIPURE®

Steam Water

3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Stainless St./Sub-base Mounting	Normally Closed	SB	1.5 to 5	7.2	14	140	222
	Stainless St/Pipe Mounting	Normally Closed	1/8"	1.5 to 2.5	1 to 2.3	8	140	218
			1/4"	1.5 to 3	1 to 4.5	8	140	218
	LLB Brass/Pipe Mounting	Normally Closed	1/8"	1.5 to 3	1.4 to 3.7	20	140	220
			1/4"	1.5 to 3	1.4 to 3.7	20	140	220
	LLB Brass/Sub-Base Mounting	Normally Closed	SB	1.5 to 3	1.3 to 3	20	140	220
		Universal	SB	1.5 to 3	1.4 to 3.3	9.5	140	224

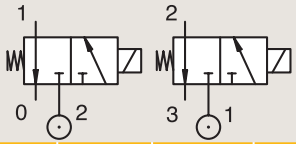
3/2 VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

DIRECT OPERATED

STAINLESS ST.

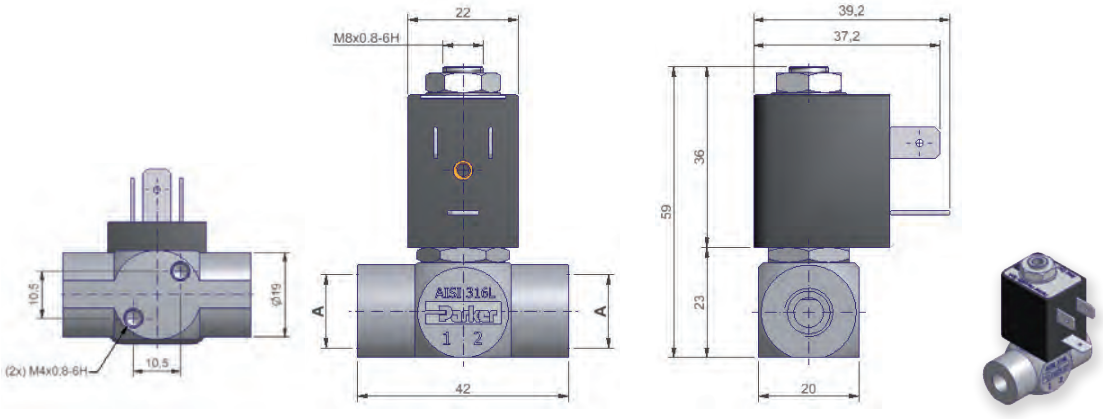
301LG SERIES - 3

NORMALLY CLOSED



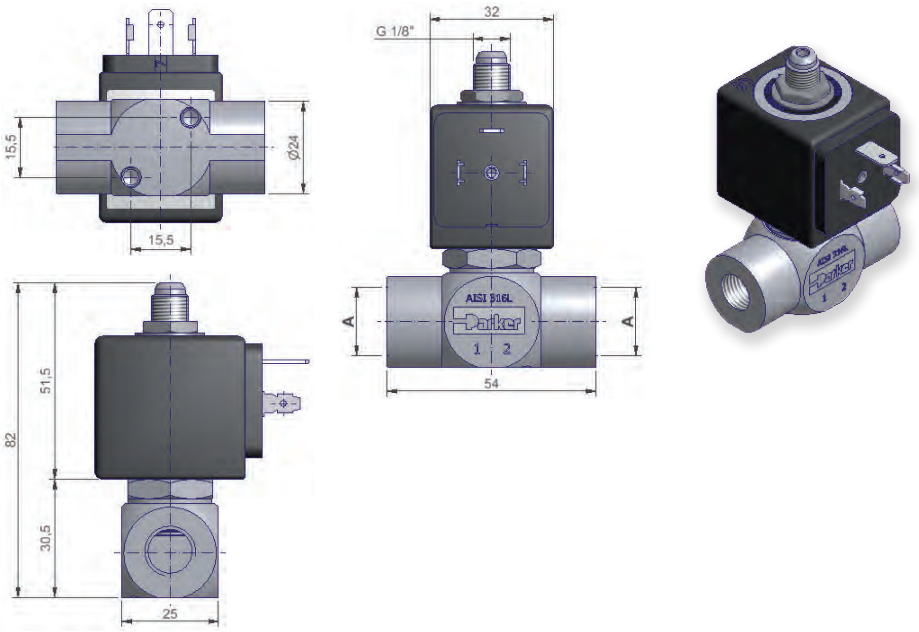
Port Size	Orifice	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves		Power		Coil Group	Fluid Compatibility	Drawing N°
		kv	Kv	Min.	Max. (MOPD)		Min.	Max.		Valve	Coil	AC	DC		Class	
BSP	mm	l/min	m³/h	Bar	AC bar	DC bar	°C	°C		Ref.	Ref.	W	W		Columm	
1/8"	1.5	1	0.06	0	8	8	-10	140	FKM	**301LG1GVG2**	**DG**	4	5	1.1/1.3	A	4
	2.5	2.3	0.14	0	3	3	-10	140	FKM	**301LG1LVG2**	**DG**	4	5	1.1/1.3	A	4
1/4"	1.5	1	0.06	0	8	8	-10	140	FKM	**301LG2GVG2**	**DG**	4	5	1.1/1.3	A	4
	2.5	2.3	0.14	0	3	3	-10	140	FKM	**301LG2LVG2**	**DG**	4	5	1.1/1.3	A	4
	1.5	1	0.06	0	12	12	-10	140	FKM	**301LG2GVG7**	**481865**	8	9	24/2.0	A	5
	3.0	4.5	0.27	0	4	4	-10	140	FKM	**301LG2NVG7**	**481865**	8	9	24/2.0	A	5

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1	3	-10	-10
To	1/4"	3	4.5	8	140	50



All dimensions are in mm

Dimensional Drawing N°4



All dimensions are in mm

Dimensional Drawing N°5

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

3/2 VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®
DIRECT OPERATED

The Parker range of low lead brass valves provides superior performance, resulting from the entire stainless steel structure of the valve pilots. Forged body is made of CW510L. The references listed in this page are NSF169 certified.

Compact and robust at the same time, the stainless steel nozzle included in all 32mm operated range improves valve life, endurance and resistance to lime-scale build up effect. A wide range of electrical parts can be used with this valve, including IP65 VDE and UL solutions. Typical applications include cold water loading function or hot water-steam on/off control.

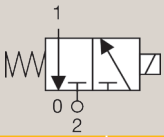
Valve body: moulded brass, CW510L UNI EN 12165

Seals: FDA FKM, Ruby

Sleeve, plungers and nozzle: stainless steel

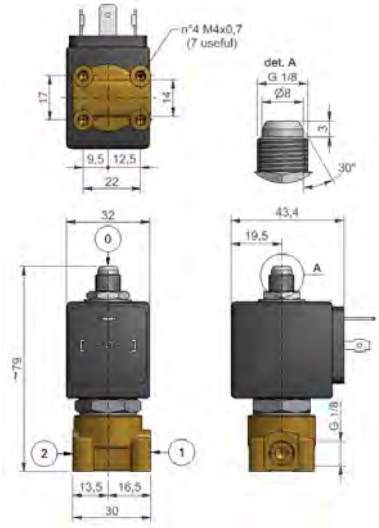


CW510L BRASS BODY
PIPE MOUNTING/FLANGED
NORMALLY CLOSED

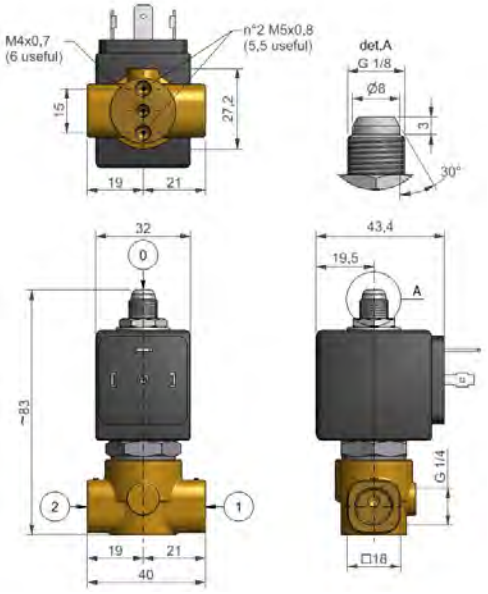


Port Size	Orifice Ø	Flow Factors Kv	Flow Factors KV	Operating Pressure Differential Min.	Operating Pressure Differential Max. (MOPD)		Fluid Temperature Min.	Fluid Temperature Max.	Seat Seal	Parker Valves			Power AC	Power DC	Coil Group	Dwg N°
										Valve Ref.	Housing Ref.	Coil Ref.				
	mm	l/min	m³/h	Bar	AC bar	DC bar	°C	°C					W	W		
G1/8	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	131ZH1115	2995	481865	9	8	2.0, 2.1, 2.2	6
	2.0	2.0	0.12	0	14	14	-10	140	FKM FDA	131ZH1120	2995	481865	9	8	2.0, 2.1, 2.2	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	FKM FDA	131ZH1125	2995	481865	9	8	2.0, 2.1, 2.2	
	3.0	3.7	0.22	0	6	6	-10	140	FKM FDA	131ZH1130	2995	481865	9	8	2.0, 2.1, 2.2	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	131ZH0115	2995	481865	9	8	2.0, 2.1, 2.2	
	2.0	2.0	0.12	0	14	14	-10	140	Ruby	131ZH0120	2995	481865	9	8	2.0, 2.1, 2.2	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	Ruby	131ZH0125	2995	481865	9	8	2.0, 2.1, 2.2	
	3.0	3.7	0.22	0	6	6	-10	140	Ruby	131ZH0130	2995	481865	9	8	2.0, 2.1, 2.2	
G1/4	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	131KH1115	2995	481865	9	8	2.0, 2.1, 2.2	7
	2.0	2.0	0.12	0	14	14	-10	140	FKM FDA	131KH1120	2995	481865	9	8	2.0, 2.1, 2.2	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	FKM FDA	131KH1125	2995	481865	9	8	2.0, 2.1, 2.2	
	3.0	3.7	0.22	0	6	6	-10	140	FKM FDA	131KH1130	2995	481865	9	8	2.0, 2.1, 2.2	
	4.0	5.2	0.31	0	3.5	3.5	-10	140	FKM FDA	131KH1140	2995	481865	9	8	2.0, 2.1, 2.2	8
	5.0	9.3	0.56	0	2	2	-10	140	FKM FDA	131KH1150	2995	492425	14	14	-	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	131KH0115	2995	481865	9	8	2.0, 2.1, 2.2	7
	2.0	2.0	0.12	0	14	14	-10	140	Ruby	131KH0120	2995	481865	9	8	2.0, 2.1, 2.2	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	Ruby	131KH0125	2995	481865	9	8	2.0, 2.1, 2.2	
	3.0	3.7	0.22	0	6	6	-10	140	Ruby	131KH0130	2995	481865	9	8	2.0, 2.1, 2.2	
SB	1.5	1.3	0.08	0	20	20	-10	140	FKM FDA	131FH1115	2995	481865	9	8	2.0, 2.1, 2.2	9
	2.0	2.0	0.12	0	15	15	-10	140	FKM FDA	131FH1120	2995	481865	9	8	2.0, 2.1, 2.2	
	2.5	2.6	0.16	0	10	10	-10	140	FKM FDA	131FH1125	2995	481865	9	8	2.0, 2.1, 2.2	
	3.0	3.0	0.18	0	7.5	7.5	-10	140	FKM FDA	131FH1130	2995	481865	9	8	2.0, 2.1, 2.2	
	1.5	1.3	0.08	0	20	20	-10	140	Ruby	131FH0115	2995	481865	9	8	2.0, 2.1, 2.2	
	2.0	2.0	0.12	0	15	15	-10	140	Ruby	131FH0120	2995	481865	9	8	2.0, 2.1, 2.2	
	2.5	2.6	0.16	0	10	10	-10	140	Ruby	131FH0125	2995	481865	9	8	2.0, 2.1, 2.2	
	3.0	3.0	0.18	0	7.5	7.5	-10	140	Ruby	131FH0130	2995	481865	9	8	2.0, 2.1, 2.2	

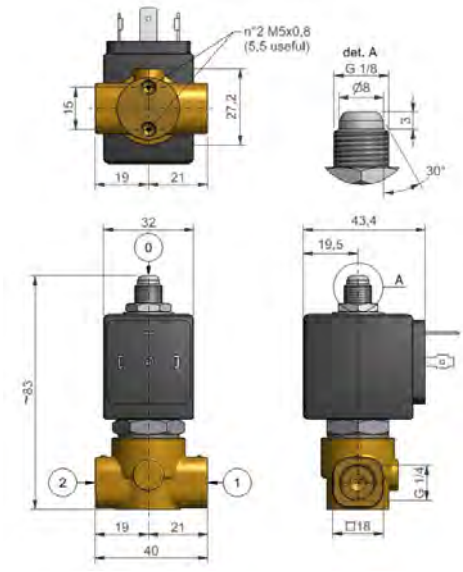
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.5	1.4	6	-10	-10
To	1/4"	3	3.7	20	140	50
From	SB	1.5	1.3	7.5	-10	-10
To	SB	3	3	20	140	50



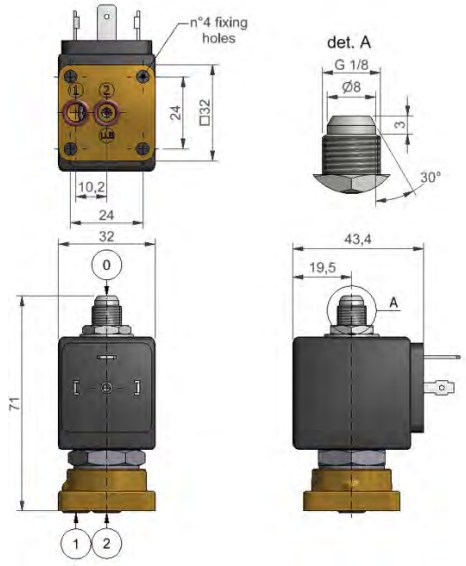
Dimensional drawing N° 6



Dimensional drawing N° 7



Dimensional drawing N° 8



Dimensional drawing N° 9

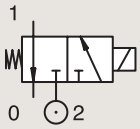
All dimensions are in mm

3/2 VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®
DIRECT OPERATED


Beverage Dispensing


Medical / Instrumentation

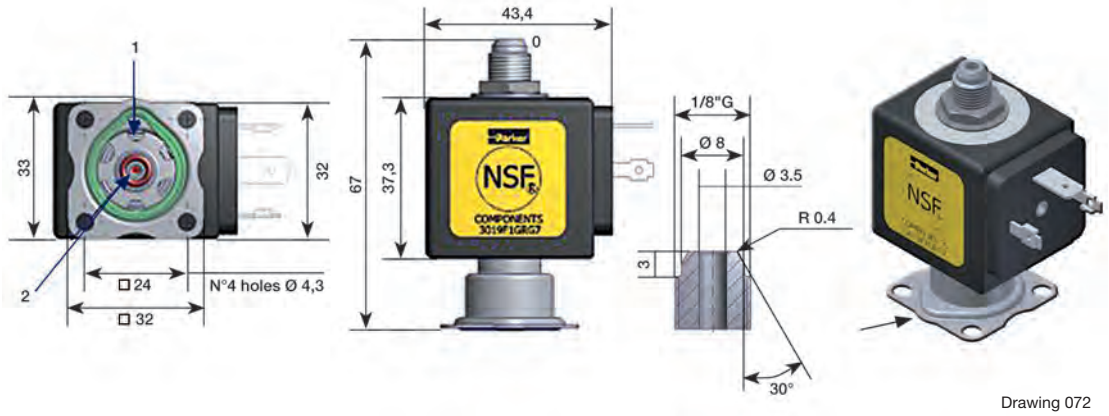
STAINLESS ST.
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.	Compatible adapter ki
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W			
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C									
SB	1.5	2.5	1.3	2.9	0.08	0.17	0	14	14	-10	140	Ruby	3019F1GRG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	1.5	2.5	1.3	2.9	0.08	0.17	0	14	14	-10	140	FKM FDA	3019F1GVG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	2	2.5	2.2	2.9	0.13	0.17	0	10	10	-10	140	Ruby	3019F1JRG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	2	2.5	2.2	2.9	0.13	0.17	0	10	10	-10	140	FKM FDA	3019F1JVG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	2	2.5	2.2	2.9	0.13	0.17	0	10	10	-10	140	Ruby	301XGFRTJ7	-	481865	8	9	2.0	073	XGSPG1-XGSPG2
	2.5	2.5	2.8	2.9	0.17	0.17	0	6.5	6.5	-10	140	Ruby	3019F1LRG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	2.5	2.5	2.8	2.9	0.17	0.17	0	6.5	6.5	-10	140	FKM FDA	3019F1LVG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	3	2.5	3.3	2.9	0.2	0.17	0	4	4	-10	140	Ruby	3019F1NRG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	3	2.5	3.3	2.9	0.2	0.17	0	4	4	-10	140	FKM FDA	3019F1NVG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	4	2.5	6.5	2.9	0.39	0.17	0	3	3	-10	140	FKM FDA	3019F1QVG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	4	4.0	6.5	2.9	0.39	0.17	0	3	3	-10	140	EPDM	3019F1QEG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	5	2.5	7.2	2.9	0.43	0.17	0	2	2	-10	140	FKM FDA	3019F1SVG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2
	5	5.0	7.2	2.9	0.43	0.17	0	2	2	-10	140	EPDM	3019F1SEG7	-	481865	8	9	2.0	072	XGSPG1-XGSPG2

Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.3	10	-10	-10
To	SB	2	2.2	14	140	50



Drawing 072

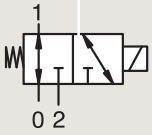
3/2 VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

DIRECT OPERATED

3/2 UNIVERSAL

1/8''G THREADED MALE EXHAUST PORT

NORMALLY CLOSED





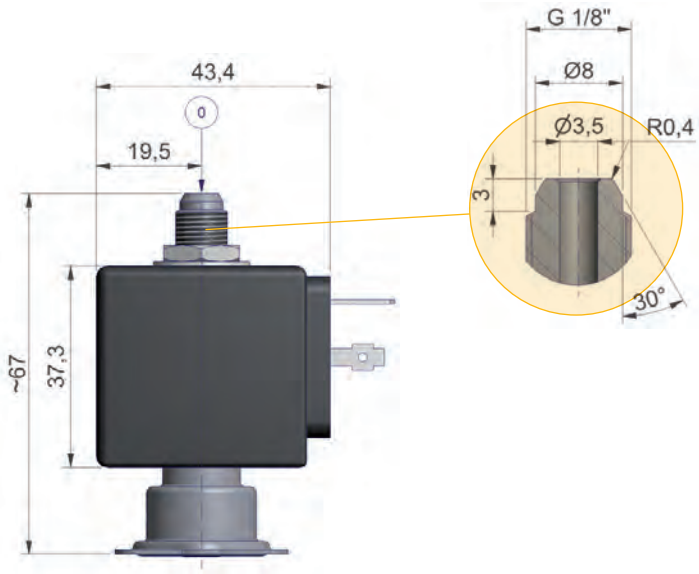
Port Size	Orifice mm		Flow Factors				Operating Pressure Differential			Fluid Temp.		Seat Seal	Reference		Power		Coil Group	Compatible Adapter Kit
	1	(2)	1		(2)		Min.	Max. (MOPD)		Min.	Max.		Valve Reference	Coil Ref.	AC W	DC W		
			Kv l/min	KV m³/h	Kv l/min	KV m³/h	bar	AC bar	DC bar	°C	°C							
SB	1.5	1.5	1.4	0.08	1.3	0.8	0	9.5	9.5	-10	140	FKM FDA	3039F1GVG7[1]	D5	9	8	24.0	XGSPG1 - XGSPG2
	1.5	1.5	1.4	0.08	1.3	0,08	0	9.5	9.5	-10	140	EPDM	3039F1GEG7	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	0.13	2.0	0.12	0	3.5	3.5	-10	140	FKM FDA	3039F1JVG7[1]	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	0.13	2.0	0.12	0	3.5	3.5	-10	140	EPDM	3039F1JEG7	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	0.17	2.8	0.17	0	2	2	-10	140	FKM FDA	3039F1LVG7[1]	D5	9	8	24.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	0.17	2.8	0.168	0	2	2	-10	140	EPDM	3039F1LEG7	D5	9	8	24.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	0.2	2.8	0.17	0	2	2	-10	140	FKM FDA	3039F1NVG7[1]	D5	9	8	24.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	0.2	2.8	0.168	0	2	2	-10	140	EPDM	3039F1NEG7	D5	9	8	24.0	XGSPG1 - XGSPG2

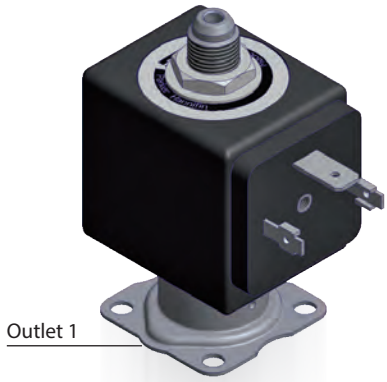
Nominal Pressure = 20 bar

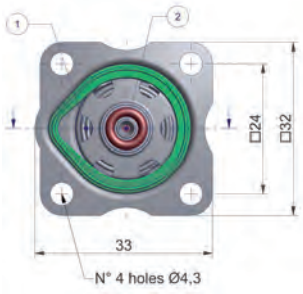
Notes:

1. NSF Certified

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	1.5	1.4	2	-10	-10
To	SB	3	3.3	9.5	140	50







All dimensions are in mm

NOTES



2 WAY VALVES FOR TRANSPORTATION

Water

2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Pilot Operated	Brass/Quick Coupling	Normally Closed	10 mm	11	12	3	90	228
	Brass/Barb Fitting	Normally Closed	10 mm	11	12	3	90	228
	Brass/Pipe Mounting	Normally Closed	1/2"	11	36	3	90	230
			12.7 mm	11	33	3	90	230
			15.9 mm	11	36	3	90	230

2/2 2 WAY VALVES FOR TRANSPORTATION

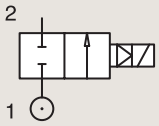
PILOT OPERATED



Transportation

BRASS QUICK COUPLING

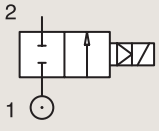
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Voltage	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max									
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C						AC W	DC W		
10 mm	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1543**	**2168**	**495294**	12 VDC	-	9	13.0	8242
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1543**	**2169**	**495294**	24 VDC	-	9	13.0	8242
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1543**	**2168**	**496193**	12 VDC	-	9	13.0	8242
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1543**	**2169**	**496193**	24 VDC	-	9	13.0	8242

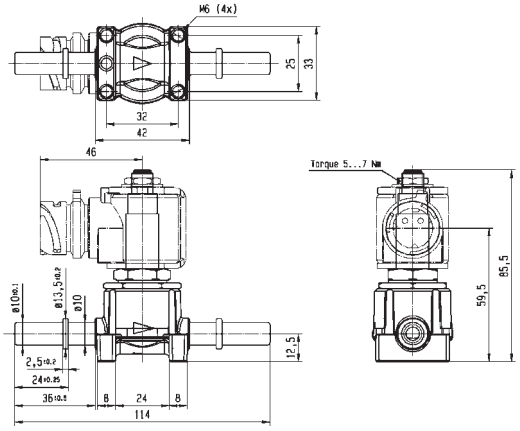
BRASS BARB FITTING

NORMALLY CLOSED



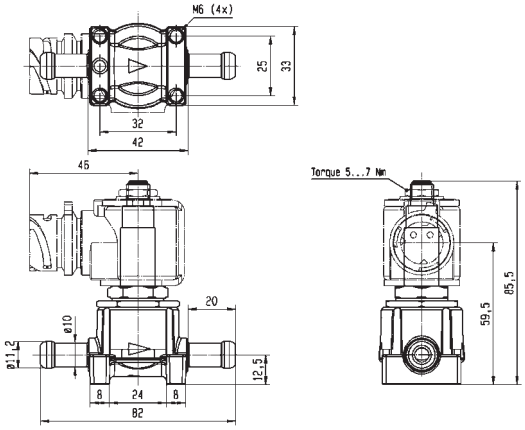
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Voltage	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max									
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C						AC W	DC W		
10 mm	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1535**	**2168**	**495294**	12 VDC	-	9	13.0	8241
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1535**	**2169**	**495294**	24 VDC	-	9	13.0	8241
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1535**	**2168**	**496193**	12 VDC	-	9	13.0	8241
	11	12	0.72	-	0.2	-	3	-40	90	EPDM	**321K1535**	**2169**	**496193**	24 VDC	-	9	13.0	8241

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	10 mm	11	12	3	-40	-40
To	10 mm	11	12	3	90	80





Drawing 8242



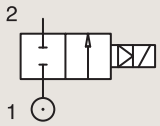


Drawing 8241

2/2 2 WAY VALVES FOR TRANSPORTATION

PILOT OPERATED

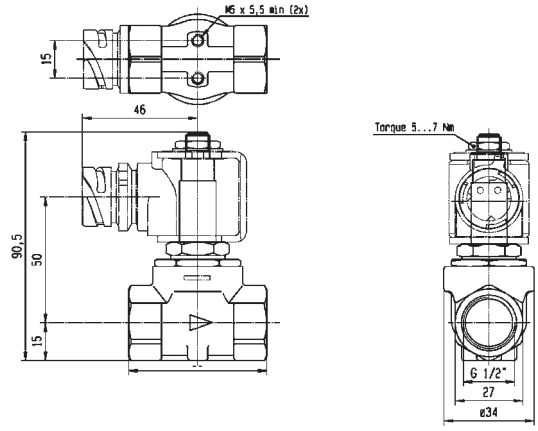
BRASS
PIPE MOUNTING



NORMALLY CLOSED

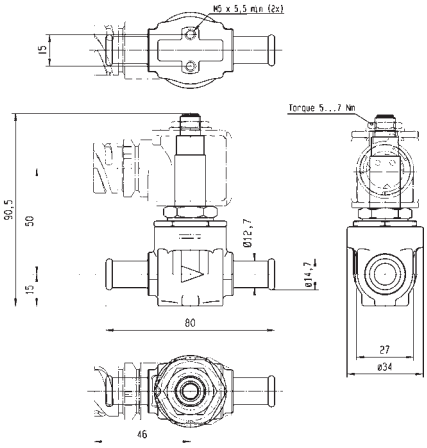
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Voltage	Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max									
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C						AC W	DC W		
1/2" BSP	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1523**	**2168**	**495294**	12 VDC	-	9	13.0	8238
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1523**	**2169**	**495294**	24 VDC	-	9	13.0	8238
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1523**	**2168**	**496193**	12 VDC	-	9	13.0	8238
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1523**	**2169**	**496193**	24 VDC	-	9	13.0	8238
12.7 mm	11	33	1.98	-	0.2	-	3	-40	90	EPDM	**321K1536**	**2168**	**495294**	12 VDC	-	9	13.0	8282
	11	33	1.98	-	0.2	-	3	-40	90	EPDM	**321K1536**	**2169**	**495294**	24 VDC	-	9	13.0	8282
	11	33	1.98	-	0.2	-	3	-40	90	EPDM	**321K1536**	**2168**	**496193**	12 VDC	-	9	13.0	8282
	11	33	1.98	-	0.2	-	3	-40	90	EPDM	**321K1536**	**2169**	**496193**	24 VDC	-	9	13.0	8282
15.9 mm	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1537**	**2168**	**495294**	12 VDC	-	9	13.0	8281
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1537**	**2169**	**495294**	24 VDC	-	9	13.0	8281
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1537**	**2168**	**496193**	12 VDC	-	9	13.0	8281
	11	36	2.16	-	0.2	-	3	-40	90	EPDM	**321K1537**	**2169**	**496193**	24 VDC	-	9	13.0	8281

For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	11	33	3	-40	-40
To	15.9 mm	11	36	3	90	80



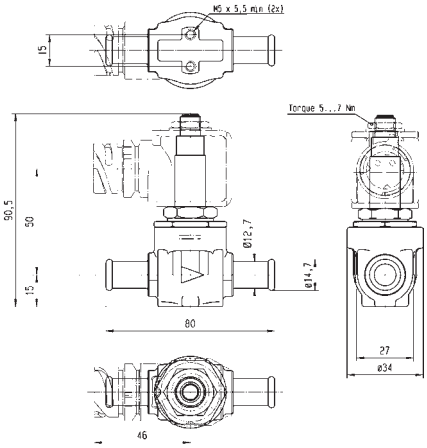


Drawing 8238





Drawing 8282





Drawing 8281

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

NOTES



3 WAY VALVES FOR TRANSPORTATION



3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page
Direct Operated	Brass/Quick Coupling	Normally Closed	1/8"	1.8	110	8	80	-	234

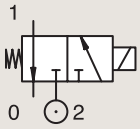
3/2 3 WAY VALVES FOR TRANSPORTATION

DIRECT OPERATED



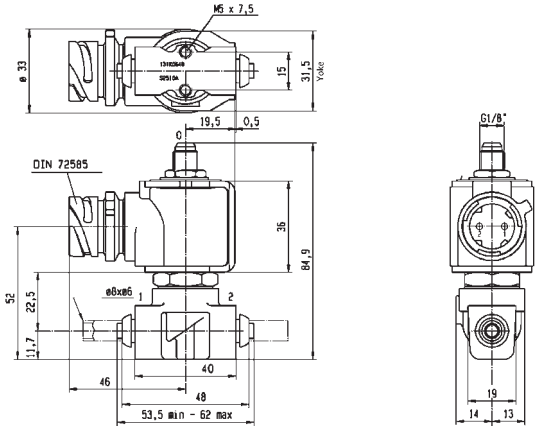
Transportation

BRASS
QUICK COUPLING
NORMALLY CLOSED



Port size	Orifice Ø		Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1	(2)		Min	Max (MOPD)		Min	Max								
BSP	mm		Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8"	1.8	1.5	110	0	-	8	-30	80	TPE/PVDF	**131K0648$_1$**	**2161**	**495294**	-	9	13.0	7872
	1.8	1.5	110	0	-	8	-30	80	TPE/PVDF	**131K0648$_1$**	**2161**	**496193**	-	9	13.0	7872

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.8	110	8	-30	-30
To	1/8"	1.8	110	8	80	85





Drawing 7872

NOTES



5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)



5/2

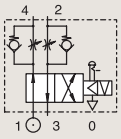
Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Pilot Operated	Anodized Aluminium/ Pipe Mounting	Normally Closed	1/8-1/4"	6	630	10	75	238
			1/4"	6 to 14	2500	40	75	238 and 240
			1/2"	14	2500	15	75	240
		Control by Electric Impulse	1/8-1/4"	6	630	10	75	242
			1/4"	8	1000	15	75	242
			1/2"	14	2500	15	75	242
	Anodized Aluminium/ Pipe Mounting/Poppet	Normally Closed	1/8"	4	400	10	75	244
			1/4"	8	1400	10	75	252
		Dual Solenoids	1/8"	4	315	10	75	252
			1/4"	8	1400	10	100	254
	Anodized Aluminium/ Sub-base Mounting	Normally Closed	SB	6	630	10	75	246
		Control by Electric Impulse	SB	6	630	10	75	246
	Anodized Aluminium/ Sub-base Mounting/ Poppet	Normally Closed	SB	4 to 15	5000	10	75	246
		Dual Solenoids	SB	4	400	10	75	248
		Control by Electric Impulse	SB	15	5000	10	75	250
	Anodized Aluminium/ CETOP/Poppet	Dual Solenoids	SB	6	800	10	75	250
	POM/CETOP/Poppet	Normally Closed	SB	6	800	10	75	254
		Control by Electric Impulse	SB	6	800	10	75	258
Externally Operated	Anodized Aluminium/ Sub-base Mounting	Normally Closed	SB	7	800	10	75	260

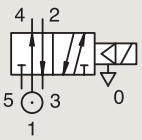
5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED


Process


Industrial Equipment

ANODIZED ALUMINIUM
PIPE MOUNTING
SPRING RETURN



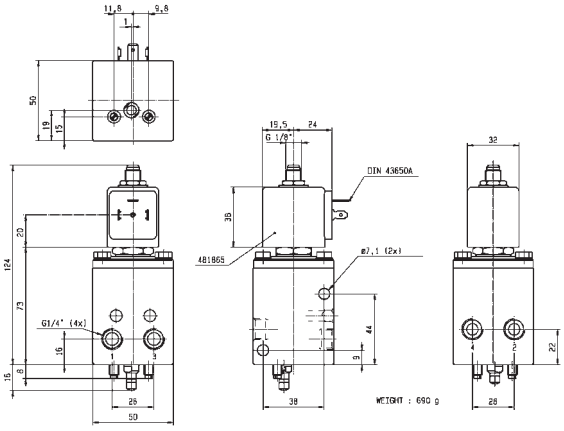


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8-1/4"	6	630	1	10	10	-10	75	FKM	**341B34$_3$**	**4270**	**481000**		8	8	2.0	3286
	6	630	1	10	10	-10	75	FKM	**341B34$_3$**	**2995**	**481865**		8	9	2.0	3286
	6	630	1	10	10	-10	75	FKM	**341B34$_3$**	**4270**	**486265**		14	14	2.0	3286
	6	630	1	10	10	-10	75	FKM	**341B3403**	**4270**	**481000**		8	8	2.1	3286
	6	630	1	10	10	-10	75	FKM	**341B3403**	**2995**	**481865**		8	9	2.1	3286
	6	560	1	-	10	-10	55	NBR	**341B3490**	**2995**	**48358001**	*	-	0.5-3	6.0/7.0/8.0	3561
	6	560	1	-	10	-10	75	NBR	**341B3490**	**-**	**495910**	*	-	0.3-1.2	6.0/7.0/8.0	3561
1/4"	6	630	1	10	10	-25	75	PUR	**341B3440**	**4270**	**481000**		8	8	2.1	3286
	6	630	1	10	10	-25	75	PUR	**341B3440**	**2995**	**481865**		8	9	2.1	3286
	8	640	1	40	40	-10	75	NBR	**341B02$_2$**	**4270**	**481000**		8	8	2.1	8115
	8	640	1	40	40	-10	75	NBR	**341B02$_2$**	**2995**	**481865**		8	9	2.1	8115

Notes:
1.Valve only compatible with air and neutral gases
2.Valve with pilot return pipe on exhaust port
3.With flow regulator

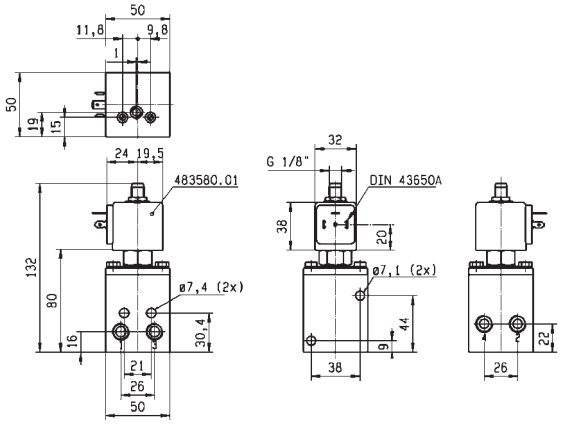
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8-1/4"	6	560	10	-25	-25
To	1/4"	8	640	40	75	50



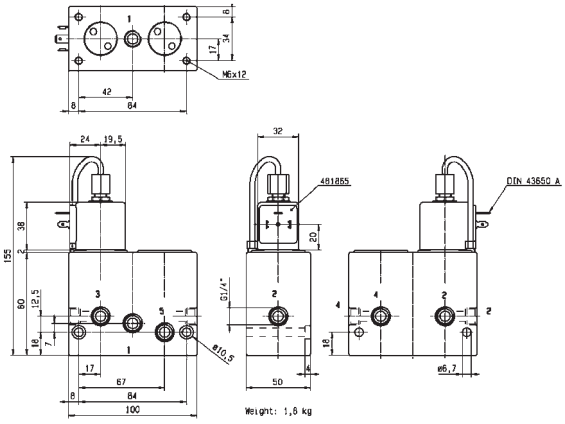


Drawing 3286





Drawing 3561

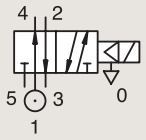




Drawing 8115

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED

ANODIZED ALUMINIUM
PIPE MOUNTING
SPRING RETURN

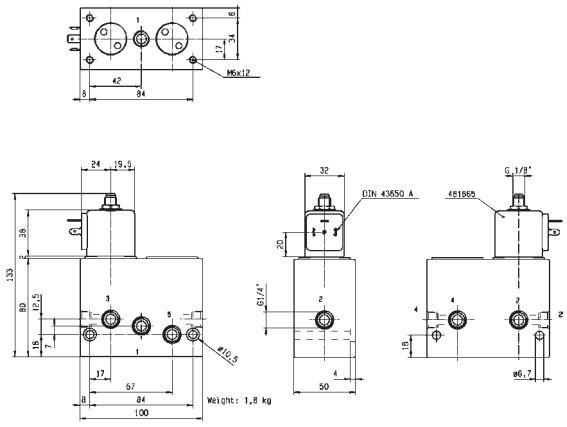


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max									
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C						AC W	DC W		
1/4"	8	1000	1	15	15	-10	75	NBR	**E341B01**	**2995**	**481865**		8	9	2.1	3309
	8	1000	1	15	15	-10	75	NBR	**E341B01**	**4270**	**485100**		8	8	2.1	3309
	14	2500	2	15	15	-10	75	NBR	**E341F21**	**4270**	**481000**		8	8	2.1	3310
1/2"	14	2500	1	15	15	-10	75	NBR	**E341B21** [1]	**2995**	**481865**		8	9	2.1	3315
	14	2500	1	15	15	-10	65	NBR	**E341B21** [1]	**-**	**483371**		8	8	2.1	3315

Notes:
1.Valve only compatible with air and neutral gases
2.Valve with pilot return pipe on exhaust port
3.With flow regulator

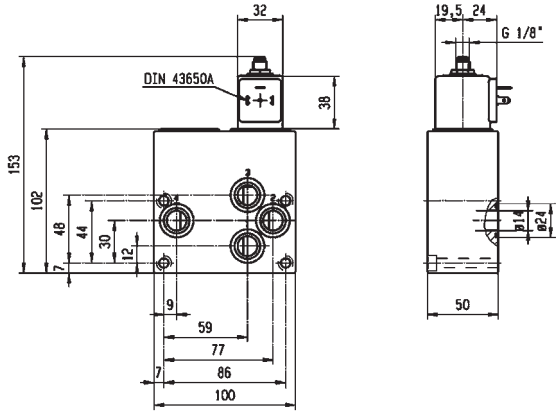
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	1000	15	-10	-10
To	1/2"	14	2500	15	75	50



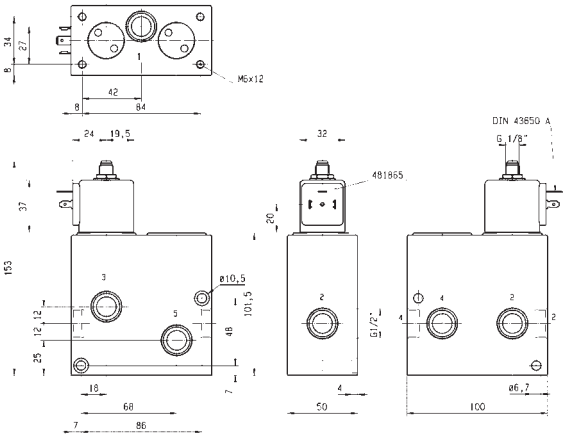


Drawing 3309





Drawing 3310





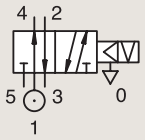
Drawing 3315

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

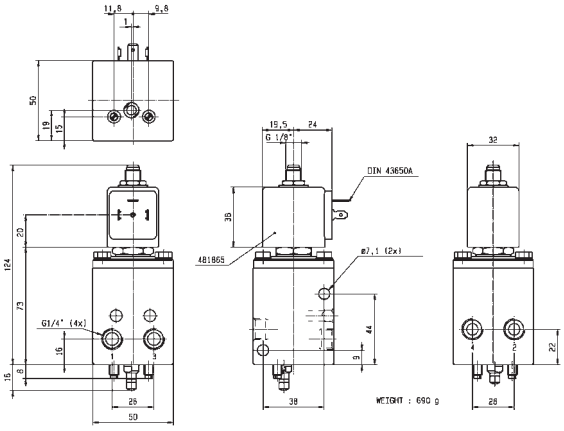


CONTROL BY ELECTRIC IMPULSE

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max								
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/8-1/4"	6	630	1	10	-	-10	75	NBR	**345B34 12**	**4269**	**484990**	11	-	4.0	3286
	6	630	1	-	10	-10	75	NBR	**345B34 12**	**4269**	**485400**	-	13	4.0	3286
1/4"	8	1000	1	15	-	-10	75	NBR	**345B04**	**4269**	**484990**	11	-	4.0	3309
	8	1000	1	-	15	-10	75	NBR	**345B04**	**4269**	**485400**	-	13	4.0	3309
1/2"	14	2500	1	15	-	-10	75	NBR	**345B24**	**4269**	**484990**	11	-	4.0	3315
	14	2500	1	-	15	-10	75	NBR	**345B24**	**4269**	**485400**	-	13	4.0	3315

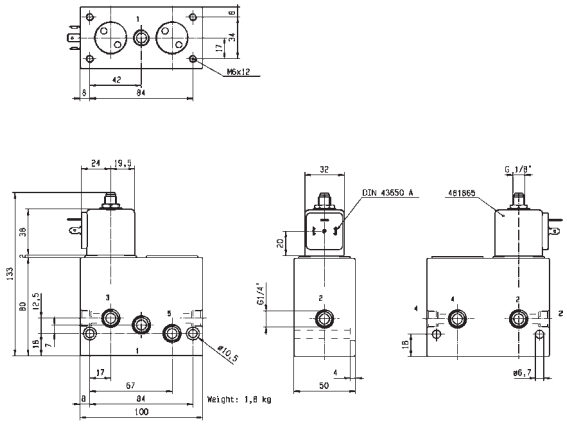
Notes:
1.Valve only compatible with air and neutral gases
2.With flow regulator

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8-1/4"	6	630	10	-10	-10
To	1/2"	14	2500	15	75	50



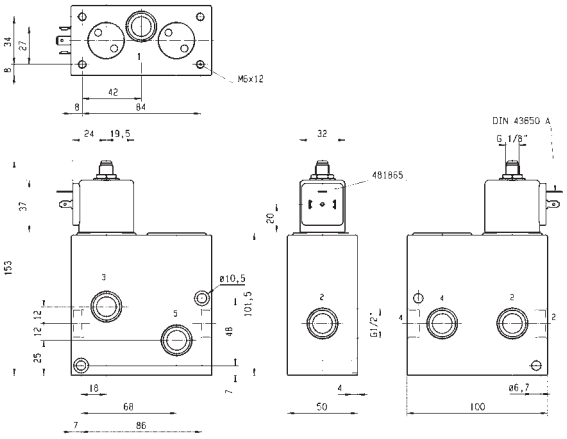


Drawing 3286





Drawing 3309

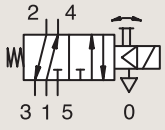




Drawing 3315

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED

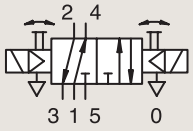
ANODIZED ALUMINIUM PIPE MOUNTING
SPRING RETURN



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"	4	400	1	10	10	-10	65	NBR	**341L9101**[1]	-	**482605**	4	5	1.1	3894
	4	400	1	10	10	-10	65	NBR	**341L9101**[1]	-	**482606**	2	2.5	1.1	3894
	4	400	1	10	10	-10	75	NBR	**341L9101**[1]	**8993**	**488980**	2	2.5	1.1	3894
	4	400	1	10	10	-10	50	NBR	**341L9101**[1]	**8993**	**495865**	2	2.5	1.1	3894

Notes:
1.With manual override

ANODIZED ALUMINIUM PIPE MOUNTING
DUAL SOLENOIDS

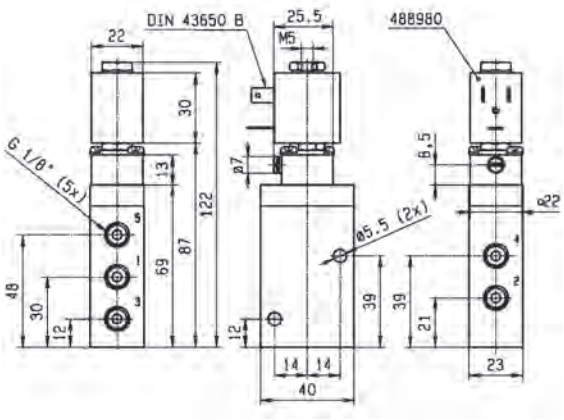


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"	4	315	2	10	10	-10	65	NBR	**347L9101**[1]	-	**482605**	4	5	1.1	3896
	4	315	2	10	10	-10	65	NBR	**347L9101**[1]	-	**482606**	2	2.5	1.1	3896
	4	315	2	10	10	-10	75	NBR	**347L9101**[1]	**8993**	**488980**	2	2.5	1.1	3896
	4	315	2	10	10	-10	50	NBR	**347L9101**[1]	**8993**	**495865**	2	2.5	1.1	3896

Notes:
1.With manual override

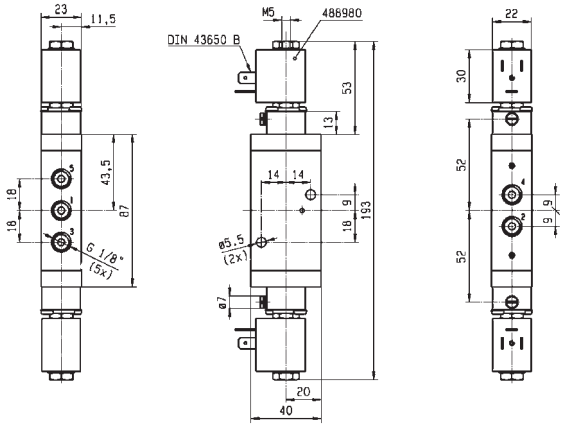
IECEx certified

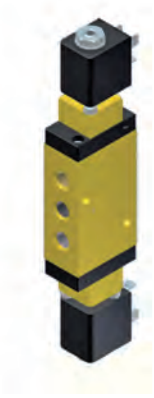
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	315	10	-10	-10
To	1/8"	4	400	10	75	50





Drawing 3894

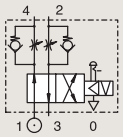




Drawing 3896

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED

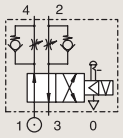
ANODIZED ALUMINIUM SUB-BASE MOUNTING
SPRING RETURN



Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	6	630	1	10	10	-10	75	FKM	**341F34 [1]**	**2995**	**481865**	8	9	2.1	3287
	6	630	1	10	10	-10	75	FKM	**341F34 [1]**	**4270**	**481000**	8	8	2.1	3287
	6	630	1	10	10	-10	75	FKM	**341F3403**	**2995**	**481865**	8	9	2.1	3287
	6	630	1	10	10	-10	75	FKM	**341F3403**	**4270**	**481000**	8	8	2.1	3287
	6	630	1	10	10	-25	75	NBR	**341F3440**	**2995**	**481865**	8	9	2.1	3287

Notes:
1.With flow regulator

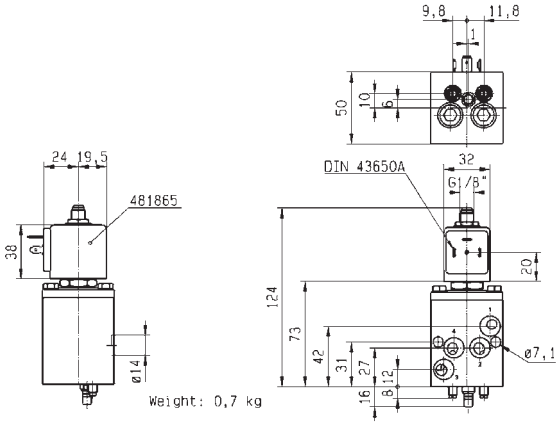
ANODIZED ALUMINIUM SUB-BASE MOUNTING
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	6	630	1	10	-	-10	75	FKM	**345F34 [1]**	**4269**	**484990**	11	-	4.0	3287
	6	630	1	-	10	-10	75	FKM	**345F34 [1]**	**4269**	**485400**	-	13	4.0	3287

Notes:
1.With flow regulator

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	6	630	10	-25	-25
To	SB	6	630	10	75	50





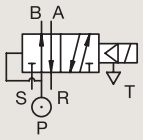
Drawing 3287

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

PILOT OPERATED

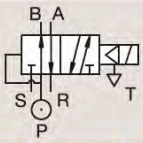
ANODIZED ALUMINIUM SUB-BASE MOUNTING



SPRING RETURN

Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	15	5000	0.5	10	10	-10	75	FKM	E341L21	2995	481865		8	9	2.1/3.0	3299
	15	5000	0.5	10	10	-10	75	FKM	E341L21	-	495905		8	8	2.1/3.0	3299
SB	15	5000	0.5	-	10	-10	55	NBR	341L2190	2995	48358001	*	-	0.5-3	6.0/7.0/8.0	8271
	15	5000	0.5	-	10	-10	75	NBR	341L2190	-	495910	*	-	0.3-1.2	6.0/7.0/8.0	8271
SB	4	400	1	10	10	-10	65	NBR	341L9201	-	482605		4	5	1.1	3895
	4	400	1	10	10	-10	65	NBR	341L9201	-	482606		2	2.5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201	8993	488980		2	2.5	1.1	3895
	4	400	1	10	10	-10	50	NBR	341L9201	8993	495865		2	2.5	1.1	3895

ANODIZED ALUMINIUM SUB-BASE MOUNTING



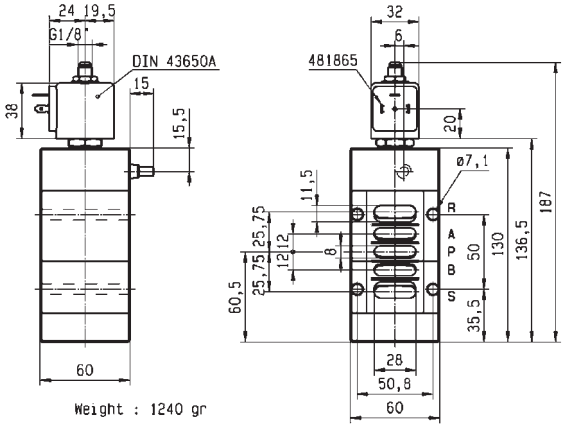
NORMALLY CLOSED

Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	4	400	1	10	10	-10	75	NBR	341L9201 [1]	-	482605	-	5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 [1]	-	482606	2	2.5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 [1]	8993	488980	2	2.5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 [1]	8993	495865	2	2.5	1.1	3895

Notes:

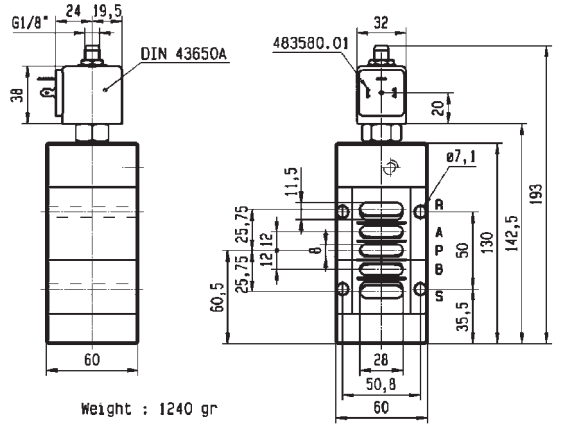
1. Valve with manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	4	400	10	-10	-10
To	SB	15	5000	10	75	50



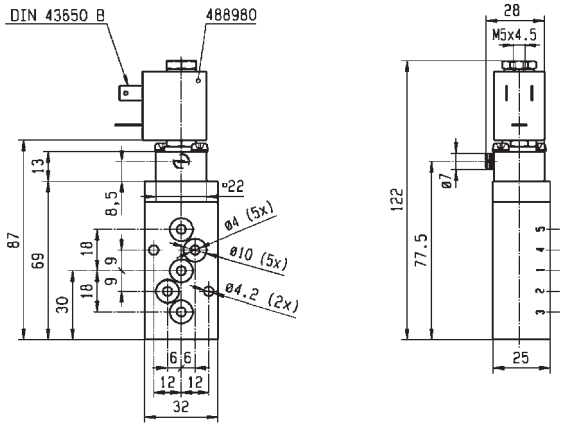


Drawing 3299





Drawing 8271





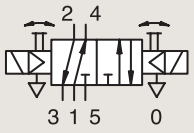
Drawing 3895

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM SUB-BASE MOUNTING

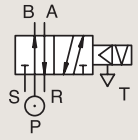
DUAL SOLENOIDS



Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	4	315	2	10	10	-10	65	NBR	**347L9201**	-	**482605**	4	5	1.1	3897
	4	315	2	10	10	-10	65	NBR	**347L9201**	-	**482606**	2	2.5	1.1	3897
	4	315	2	10	10	-10	75	NBR	**347L9201**	**8993**	**488980**	2	2.5	1.1	3897
	4	315	2	10	10	-10	50	NBR	**347L9201**	**8993**	**495865**	2	2.5	1.1	3897

ANODIZED ALUMINIUM SUB-BASE MOUNTING

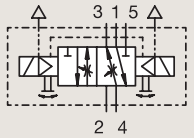
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	15	5000	0.5	10	-	-10	75	NBR	**345L21**	**4269**	**484990**	11	-	4.0	3299
	15	5000	0.5	-	10	-10	75	NBR	**345L21**	**4269**	**485400**	-	13	4.0	3299

ANODIZED ALUMINIUM CETOP

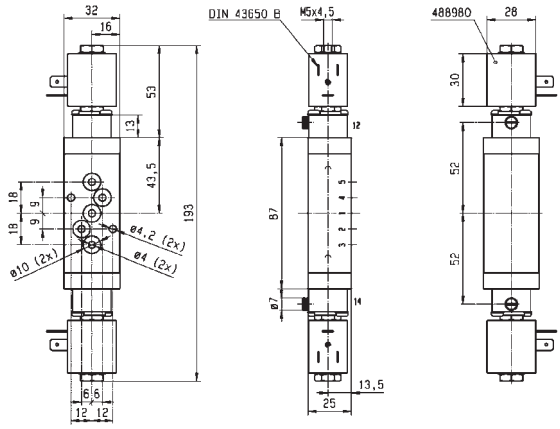
DUAL SOLENOIDS



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	6	800	1	10	10	-10	75	NBR	**347L04**	**8993**	**488980**	2	2.5	1.1	3694

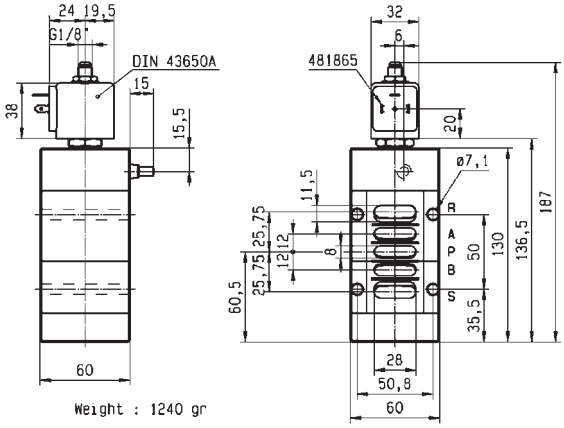
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	4	315	10	-10	-10
To	SB	15	5000	10	75	50



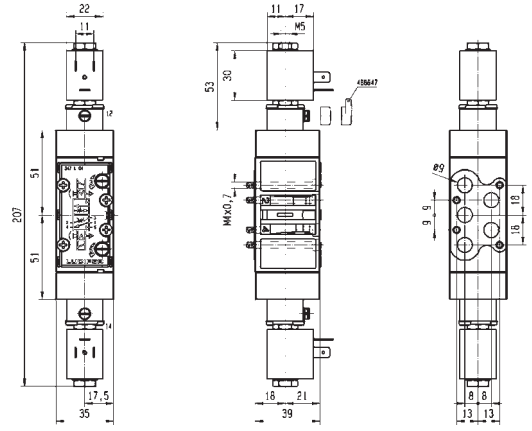


Drawing 3897





Drawing 3299





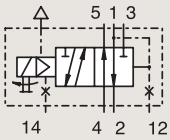
Drawing 3694

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM

PIPE MOUNTING

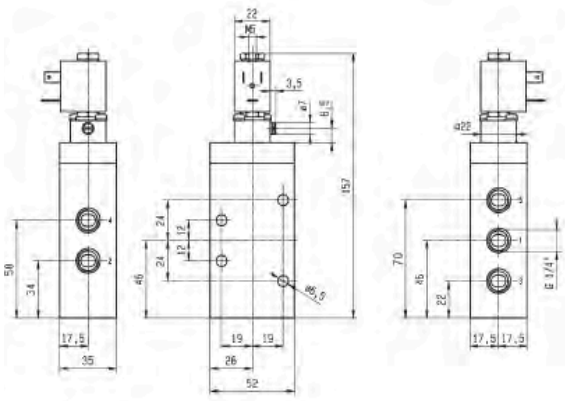


SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max								
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
1/4"	8	1400	1	10	10	-10	75	NBR	**341L11**	**8993**	**488980**	2	2.5	1.1	3434
	8	1400	1	10	10	-10	50	NBR	**341L11**	**8993**	**495865**	2	2.5	1.1	3434
	8	1400	1	10	10	-10	65	NBR	**341L11**	**-**	**482605**	4	5	1.1	3434
	8	1400	1	10	10	-10	65	NBR	**341L11**	**-**	**482606**	2	2.5	1.1	3434
	8	1400	1	10	10	-10	75	NBR	**E341L1130**	**2995**	**481865**	8	9	2.1/3.0	3539
	8	1400	1	10	10	-10	65	NBR	**E341L1130**	**-**	**483371**	8	8	2.1/3.0	3539
1/4" NPT	8	1400	1	10	10	-10	75	FKM	**U341L1130**	**2995**	**481865**	8	9	2.1	8297
	8	1400	1	10	10	-10	75	FKM	**U341L1130**	**2995**	**491514**	11	12	2.1	8297

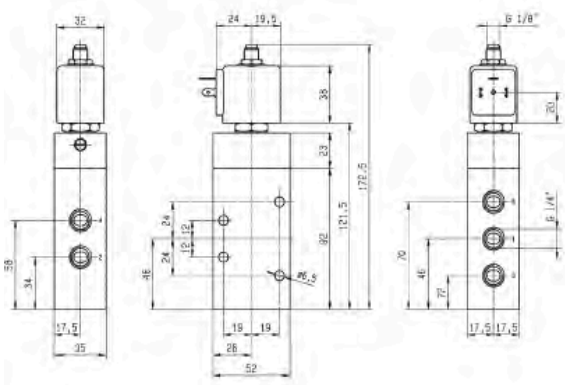
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	8	1400	10	-10	-10
To	1/4"	8	1400	10	75	50



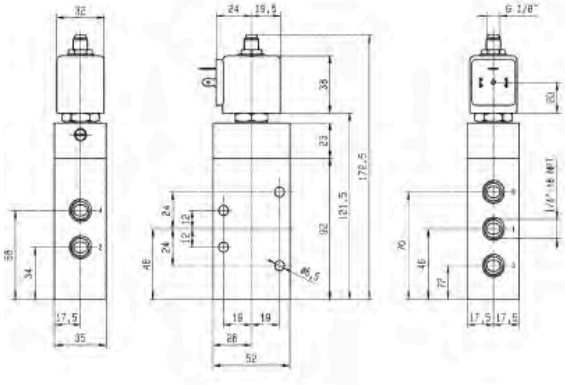


Drawing 3434





Drawing 3539

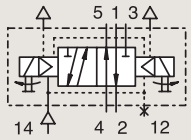




Drawing 8297

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED

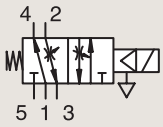
ANODIZED ALUMINIUM
PIPE MOUNTING
DUAL SOLENOIDS



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	8	1400	1	10	10	-10	65	NBR	**347L11**$_{1}$	-	**482605**	4	5	1.1	3461
	8	1400	1	10	10	-10	65	NBR	**347L11**$_{1}$	-	**482606**	2	2.5	1.1	3461
	8	1400	1	10	10	-10	75	NBR	**347L11**$_{1}$	**8993**	**488980**	2	2.5	1.1	3461
	8	1400	1	10	10	-10	50	NBR	**347L11**$_{1}$	**8993**	**495865**	2	2.5	1.1	3461
	8	1400	2	10	10	-10	100	FKM	**E347L1130**$_{1}$	**2995**	**481865**	8	9	2.1/3.0	3541
	8	1400	2	10	10	-10	100	FKM	**E347L1130**$_{1}$	**4270**	**481000**	8	8	2.1/3.0	3541

Notes:
1.With manual override

POM
CETOP
SPRING RETURN



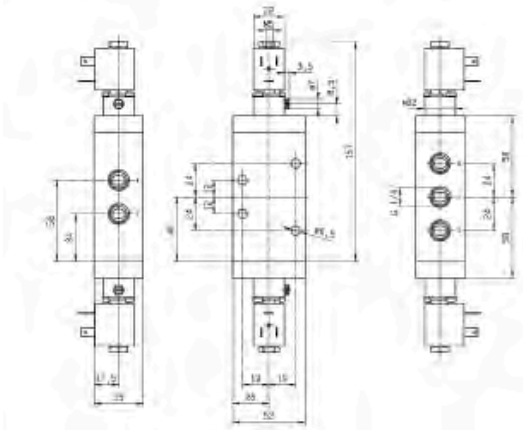
Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	6	800	1	10	10	-10	75	FKM	**E341L02**	**2995**	**481865**		8	9	2.1/3.0	3513
	6	800	1	10	10	-10	75	FKM	**E341L02**	**4270**	**481000**		8	8	2.1/3.0	3513

Notes:
1.Manual override and flow regulating screws standard
2.With manual override

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

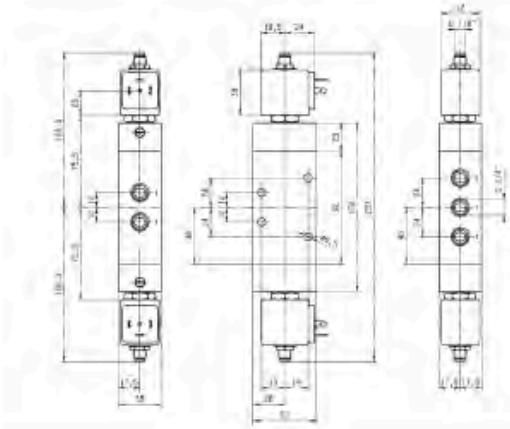
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4"	6	800	10	-10	-10
To	1/4"	8	1400	10	100	50



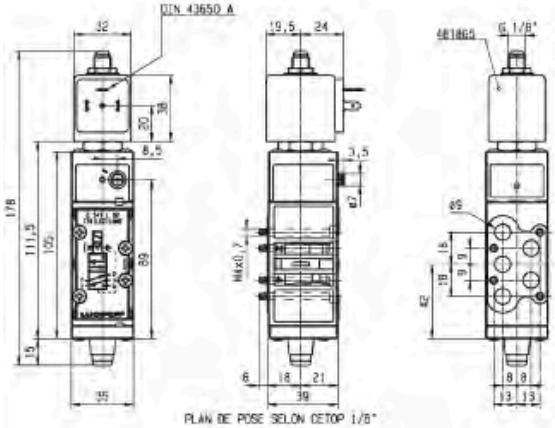


Drawing 3461





Drawing 3541





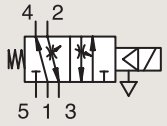
Drawing 3513

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

PILOT OPERATED

POM

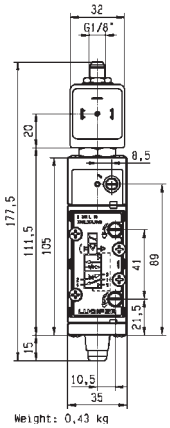
CETOP

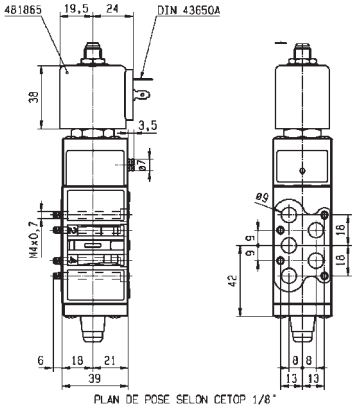


SPRING RETURN

Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	8	800	1	10	10	-10	65	FKM	341L04 1	-	482605		4	5	1.1	3437
	8	800	1	10	10	-10	65	FKM	341L04 1	-	482606		2	2.5	1.1	3437
	8	800	1	10	10	-10	75	FKM	341L04 1	8993	488980		2	2.5	1.1	3437
	8	800	1	10	10	-10	50	FKM	341L04 1	8993	495865		2	2.5	1.1	3437
SB	6	800	1	-	10	-10	75	NBR	341L0197	2995	482740		-	1.6	6.0/8.0	8021
	6	800	1	10	10	-10	75	NBR	341L0197	-	495900		2.5	2	6.0/8.0	8021
	6	800	1	-	10	-10	75	NBR	341L0197	-	495910	*	-	0.3-1.2	6.0/8.0	8021
	6	800	1	-	10	-10	65	NBR	341L0197	2995	496125		-	1.6	6.0/8.0	8021
	6	800	1	10	10	-10	65	NBR	341L05 2	-	482605		4	5	1.1	3430
	6	800	1	10	10	-10	65	NBR	341L05 2	-	482606		2	2.5	1.1	3430
	6	800	1	10	10	-10	75	NBR	341L05 2	8993	488980		2	2.5	1.1	3430
	6	800	1	10	10	-10	50	NBR	341L05 2	8993	495865		2	2.5	1.1	3430
	6	800	1	10	-	-10	75	FKM	E341L01 1	2995	482722		10	-	2.1/3.0	3255
	6	800	1	10	10	-10	65	FKM	E341L01 1	-	483371		8	8	2.1/3.0	3255
	6	800	1	10	10	-10	75	FKM	E341L01 1	299533	491514		11	12	2.1/3.0	3255

Notes:
1.Manual override and flow regulating screws standard
2.With manual override

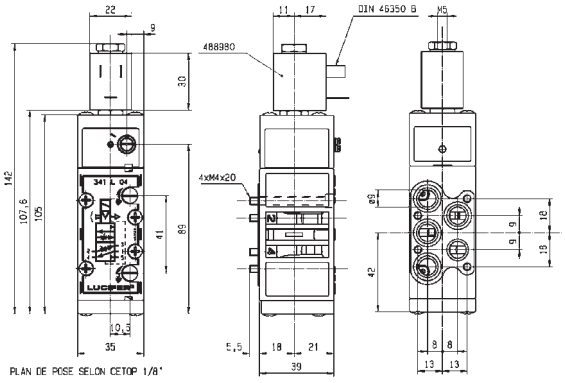






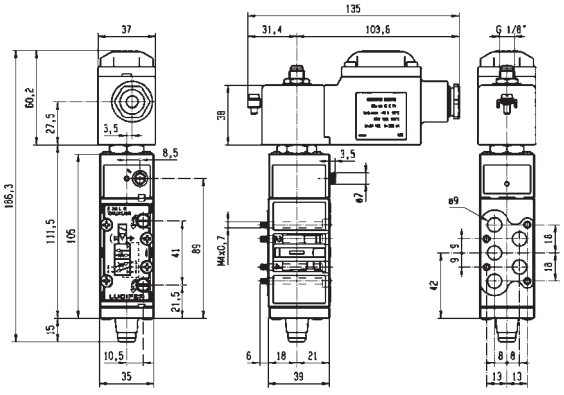
Drawing 3255

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	6	800	10	-10	-20
To	SB	8	800	10	75	50



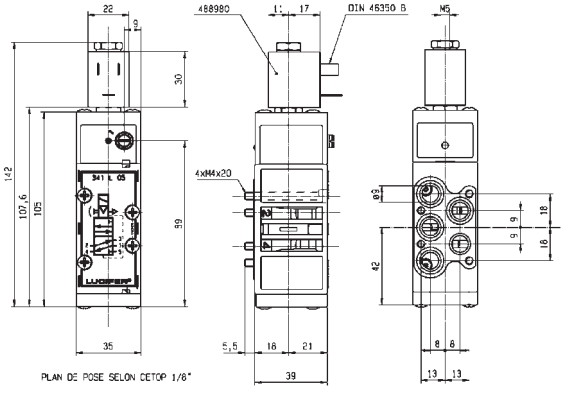


Drawing 3437





Drawing 8021





Drawing 3430

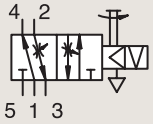
5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

PILOT OPERATED

POM

CETOP

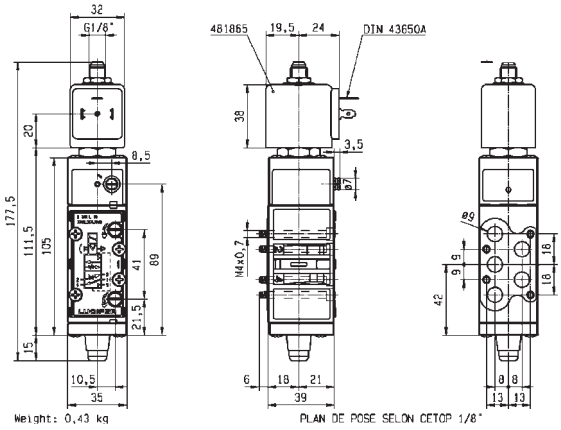
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max								
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	6	800	1	-	10	-10	75	FKM	**345L01** [1]	**4269**	**485400**	-	13	4.0	3255

Notes:
1.Manual override and flow regulating screws standard

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	6	800	10	-10	-10
To	SB	6	800	10	75	50





Drawing 3255

5/2 5 WAY PNEUMATIC DISTRIBUTORS (PIPE MOUNTING/SUB-BASE MOUNTING)

EXTERNALLY OPERATED



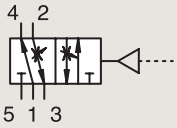
Process



Industrial Equipment

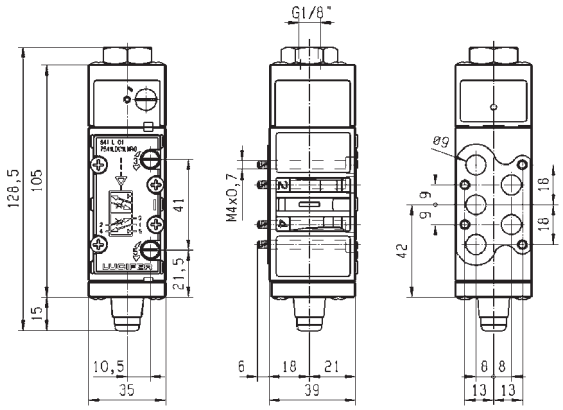
ANODIZED ALUMINIUM SUB-BASE MOUNTING

SPRING RETURN



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max								
	mm	Qn l'min	bar	AC bar	DC bar	°C	°C					AC W	DC W		
SB	7	800	1	10	10	-10	75	FKM/ NBR	541L01	-	-	-	-	-	3254

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	7	800	10	-10	-10
To	SB	7	800	10	75	50





Weight: 0,36 kg

PLAN DE POSE SELON CETOP 1/8"

Drawing 3254

NOTES



3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)



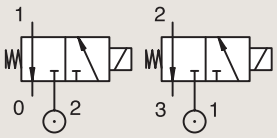
3/2
5/2

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Brass/Pipe mounting	Normally Closed	1/8''	1.2 to 1.5	70	10	75	264
			1/8''-1/4''	2.5	220	7	75	264
			1/4''	1	36	10	120	264
		Normally Open/Universal	1/4''	2.5 - 6	680	7-10	75	270
		Control by Electric Impulse	1/4''	2.5	220	7	100	272
	Brass/Sub-base mounting	Normally Closed	5 mm	2.5	180	2	75	274
		Universal	1/8''	2	140	7	120	274
	Anodized aluminium/ Pipe mounting	Universal	1/4''	6	680	10	75	276
Pilot Operated	Anodized aluminium/ Pipe mounting/Spool	Normally Closed	1/8''	4 to 15	600	10	80	278
			1/4''	7 to 8	1400	10	80	280
			1/2''	12	3000	10	50	284
		Dual Solenoids	1/8''	4	400	10	80	286
			1/4''	7 to 8	1400	10	80	288
			1/2''	12	3000	10	50	290
		Control by Electric Impulse	1/8''	4	600	10	80	290
Manual Reset	Brass/Pipe mounting	Universal	1/4''	6	680	10	65	292

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY CLOSED

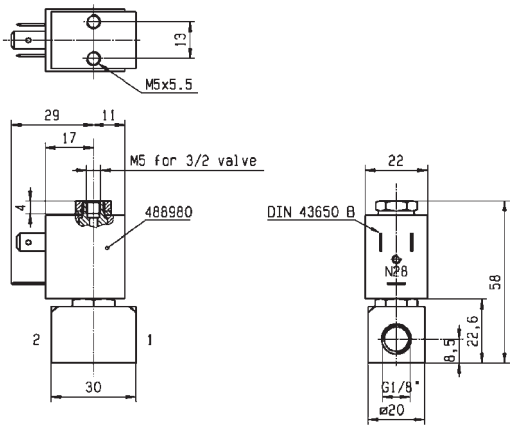


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"	1.2	50	0	10	10	-10	75	FKM	**131M15**	**8993**	**488980**	-	-	2	2.5	1.1	3382
	1.5	70	0	7	7	-10	75	FKM	**131M14**	**8993**	**488980**	-	-	2	2.5	1.1	3382
1/8"-1/4"	2.5	220	0	7	7	-40	75	PUR	**E131K0358** [1]	**2995**	**481865**	-	-	8	9	2.1	3510
	2.5	220	0	7	7	-40	75	PUR	**E131K0358** [1]	**4270**	**481000**	-	-	8	8	2.1	3510
1/4"	1	36	0	-	10	-10	55	FKM	**131K0490**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7058
	1	36	0	-	10	-10	75	FKM	**131K0490**	**-**	**488660.01**	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7058
	1	36	0	-	10	-10	75	FKM	**131K0490**	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7058

Notes:
1.With manual override

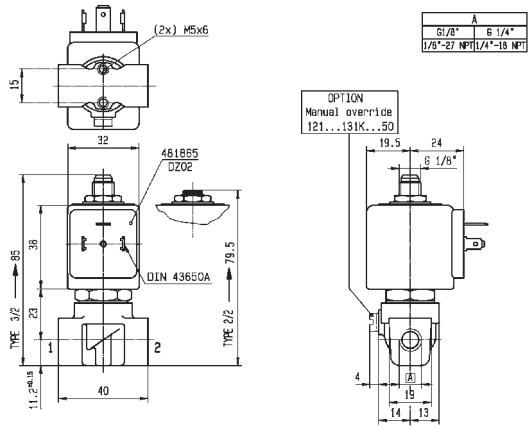
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1	36	7	-40	-40
To	1/4"	2.5	220	10	75	50



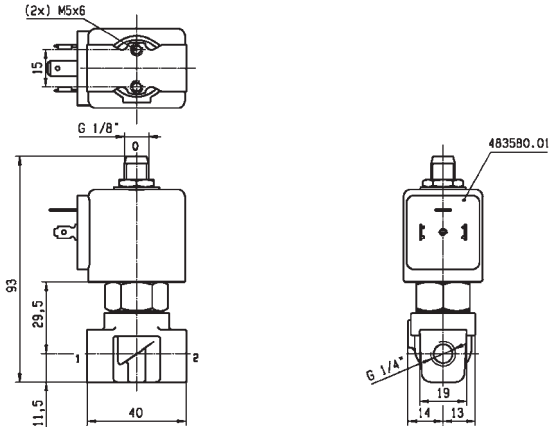


Drawing 3382





Drawing 3510





Drawing 7058

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

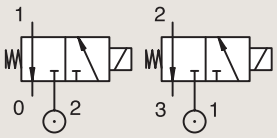
3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

DIRECT OPERATED

BRASS

PIPE MOUNTING

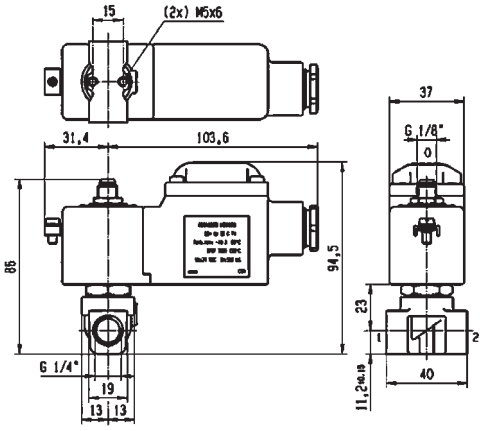


NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	1.5	80	0	-	7	-20	75	PUR	131K0497	2995	482740	-	-	-	1.6	6.0/8.0	8023
	1.5	80	0	7	7	-20	75	PUR	131K0497	-	495900	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8023
	1.5	80	0	-	7	-20	75	PUR	131K0497	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8023
	1.5	80	0	-	7	-20	75	PUR	131K0497	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8023
	1.5	80	0	16	16	-10	100	FKM	E131K04	2995	481865	-	-	8	9	2.0	3510
	1.5	80	0	16	16	-10	120	FKM	E131K04	4270	481000	-	-	8	8	2.0	3510
	1.5	80	0	16	16	-10	120	FKM	E131K04	4270	486265	-	-	14	14	2.0	3510
	1.5	80	0	15	15	-10	100	FKM	E131K0450 [1]	2995	481865	-	-	8	9	2.1	3510
	1.5	80	0	15	15	-10	120	FKM	E131K0450 [1]	4270	481000	-	-	8	8	2.1	3510
	2	140	0	10	10	-10	100	FKM	E131K06	2995	481865	-	-	8	9	2.0	8119
	2	140	0	10	10	-10	120	FKM	E131K06	4270	481000	-	-	8	8	2.0	8119
	2	140	0	10	10	-10	120	FKM	E131K06	4270	486265	-	-	14	14	2.0	8119
	2	140	0	10	10	-10	100	FKM	E131K0650 [1]	2995	481865	-	-	8	9	2.1	3510
	2	140	0	10	10	-10	120	FKM	E131K0650 [1]	4270	481000	-	-	8	8	2.1	3510

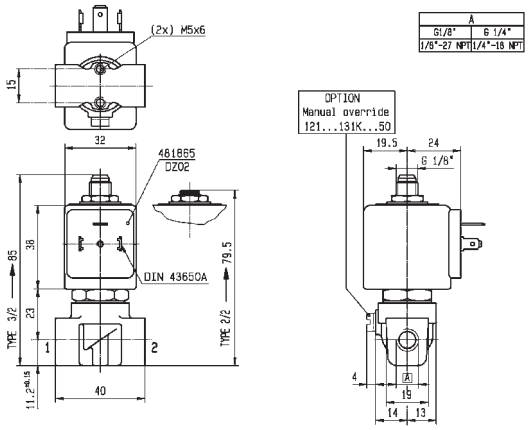
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	1.5	80	7	-20	-20
To	1/4''	2	140	16	120	50



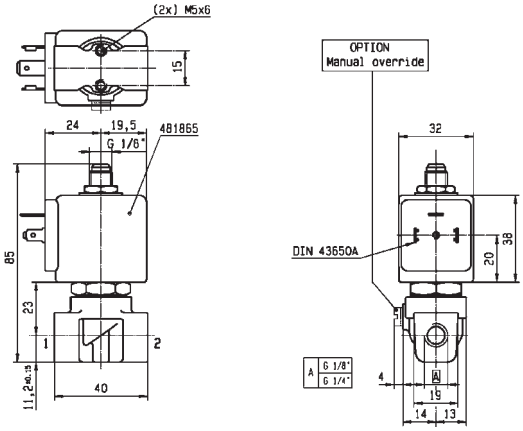


Drawing 8023





Drawing 3510



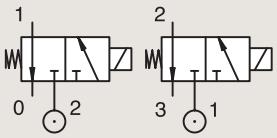


Drawing 8119

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)
DIRECT OPERATED

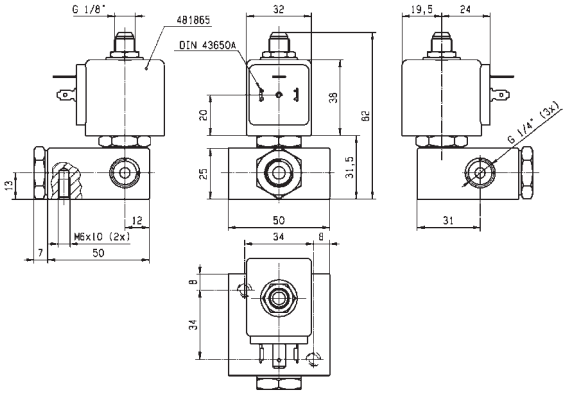
BRASS
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	2.5	220	0.1	7	7	-10	75	FKM	**E131E03**	**2995**	**481865**	-	-	8	9	2.0	3525
	2.5	220	0.1	7	7	-10	75	FKM	**E131E03**	**4270**	**481000**	-	-	8	8	2.0	3525
	2.5	220	0.1	7	7	-10	75	FKM	**E131E03**	**4270**	**486265**	-	-	14	14	2.0	3525
	2.5	220	0	7	7	-40	75	PUR	**E131K0308**	**2995**	**481865**	-	-	8	9	2.1	3510
	2.5	220	0	7	7	-40	75	PUR	**E131K0308**	**4270**	**481000**	-	-	8	8	2.1	3510
	2.5	220	0	7	7	-10	100	FKM	**E131K0350**[1]	**2995**	**481865**	-	-	8	9	2.1	3510
	2.5	220	0	7	7	-10	120	FKM	**E131K0350**[1]	**4270**	**481000**	-	-	8	8	2.1	3510
	4.5	500	0	2	2	-10	75	FKM	**131T2101**[1]	**2995**	**481865**	-	-	8	9	2.1	3223
	4.5	500	0	2	2	-10	75	FKM	**131T2101**[1]	**4270**	**481000**	-	-	8	8	2.1	3223

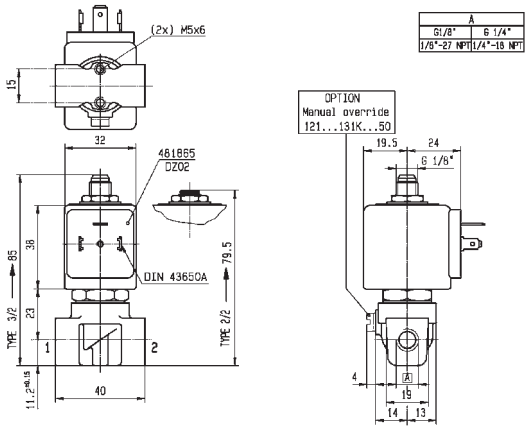
Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	2.5	220	2	-40	-40
To	1/4''	4.5	500	7	120	50



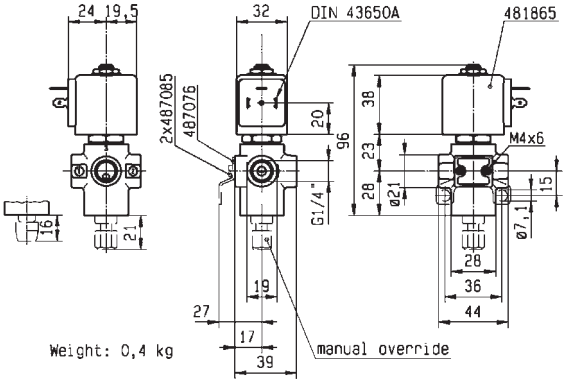


Drawing 3525





Drawing 3510

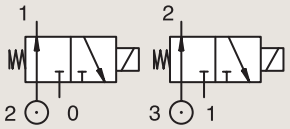




Drawing 3223

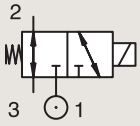
3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)
DIRECT OPERATED

BRASS
PIPE MOUNTING
NORMALLY OPEN



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	2.5	220	0	7	3.5	-10	75	FKM	**132T29**	**2995**	**481865**	-	-	8	9	2.0	3223
	2.5	220	0	7	3.5	-10	75	FKM	**132T29**	**4270**	**481000**	-	-	8	8	2.0	3223
	2.5	220	0	-	7	-10	75	FKM	**132T29**	**4270**	**486265**	-	-	-	14	2.0	3223

BRASS
PIPE MOUNTING
UNIVERSAL

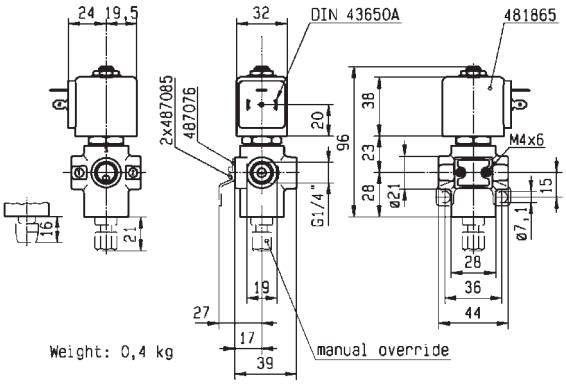


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4" NPT	6	680	0	10	10	-25	65	NBR	**U133X0111**	**-**	**492310**	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	7422
	6	680	0	-	10	-25	75	NBR	**U133X0111**	**-**	**492965.01**	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7422

Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)

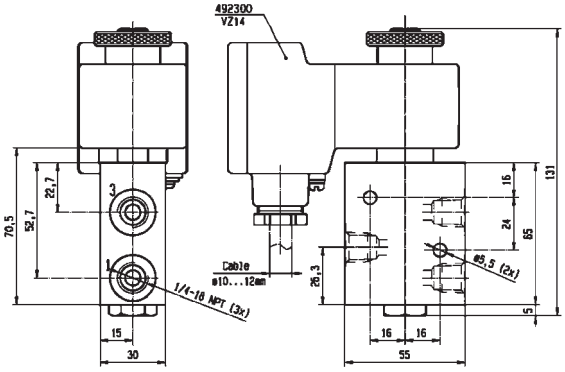
IECEx certified

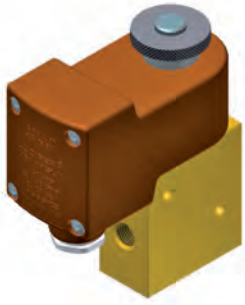
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	2.5	220	3.5	-25	-25
To	1/4''	6	680	10	75	50





Drawing 3223





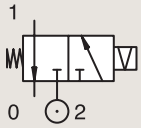
Drawing 7422

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

3/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)
DIRECT OPERATED

BRASS
PIPE MOUNTING
CONTROL BY ELECTRIC IMPULSE

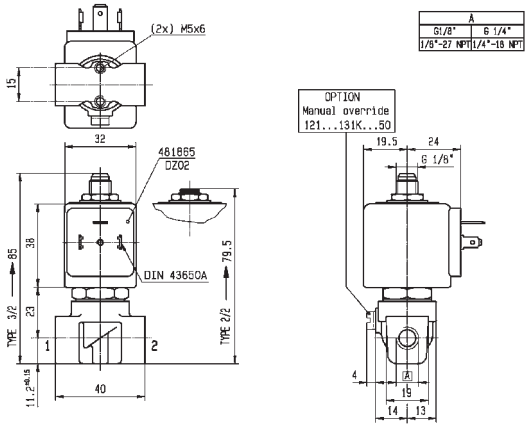


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
BSP	1 mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	2.5	220	0	-	7	-10	100	FKM	135K03	4269	485400	-	-	-	13	4.0	3510

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	2.5	220	7	-25	-25
To	1/4''	2.5	220	7	100	50



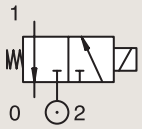


Drawing 3510

3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

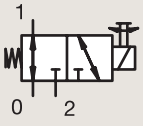
DIRECT OPERATED

BRASS
SUB-BASE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	2.5	180	0	-	2	-20	75	PUR	**131F4397**	**2995**	**482740**	-	-	-	1.6	6.0/8.0	8022
	2.5	180	0	2	2	-20	75	PUR	**131F4397**	**-**	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8022
	2.5	180	0	-	2	-20	75	PUR	**131F4397**	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8022
	2.5	180	0	-	2	-20	75	PUR	**131F4397**	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8022

BRASS
SUB-BASE MOUNTING
UNIVERSAL

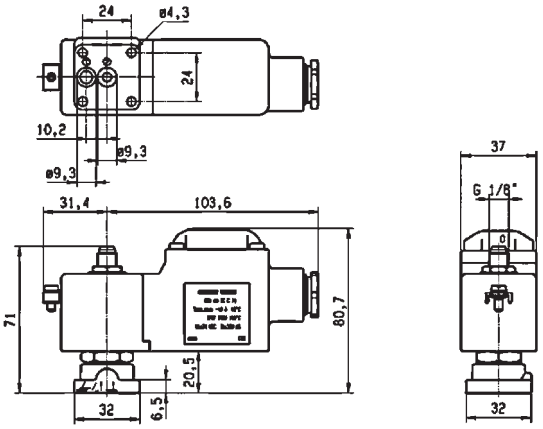


Port size	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
SB	2	140	0	7	7	-10	100	FKM	**133F4650**[1]	**2995**	**481865**	-	-	8	9	2.1	3509
	2	140	0	7	7	-10	120	FKM	**133F4650**[1]	**4270**	**481000**	-	-	8	8	2.1	3509

Notes:
1.With manual override

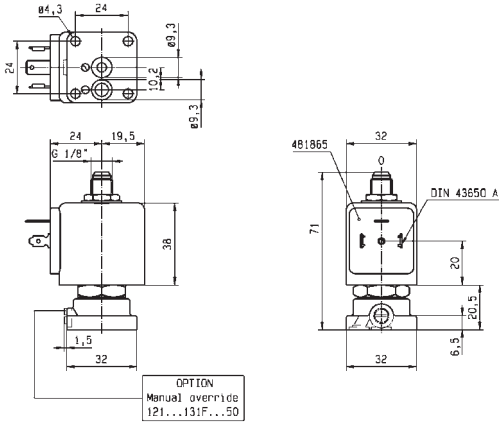
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	2	140	2	-20	-20
To	5 mm	2.5	180	7	120	50





Drawing 8022



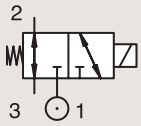


Drawing 3509

3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

DIRECT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

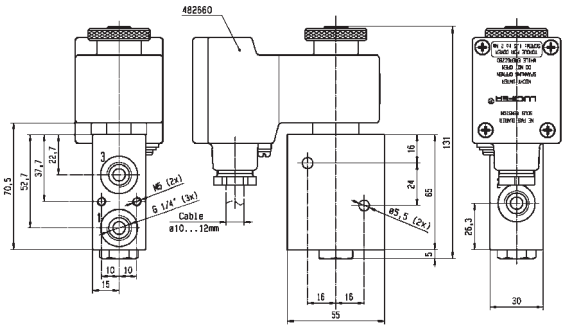


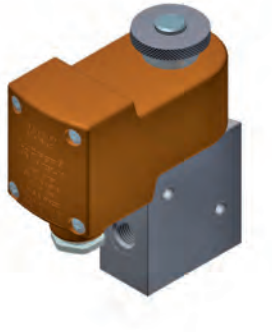
UNIVERSAL

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	6	680	0	10	10	-25	75	NBR	**133X01**	**-**	**492310**	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	6960
	6	680	0	-	10	-25	65	NBR	**133X01**	**-**	**492965.01**	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	6960
	6	680	0	10	10	-25	65	NBR	**133X01**	**-**	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	6960
	6	680	0	10	10	-25	65	NBR	**133X01**	**-**	**496895**	-	-	8	8	9.0/10.1/10.2	6960
1/4" NPT	6	680	0	10	10	-25	65	NBR	**U133X01**	**-**	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	7422

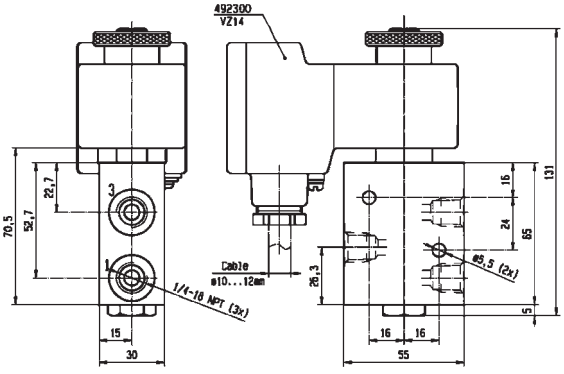
IECEx certified

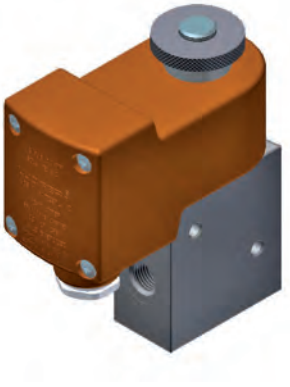
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	1/4''	6	680	10	75	50





Drawing 6960





Drawing 7422

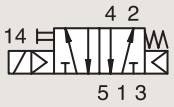
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

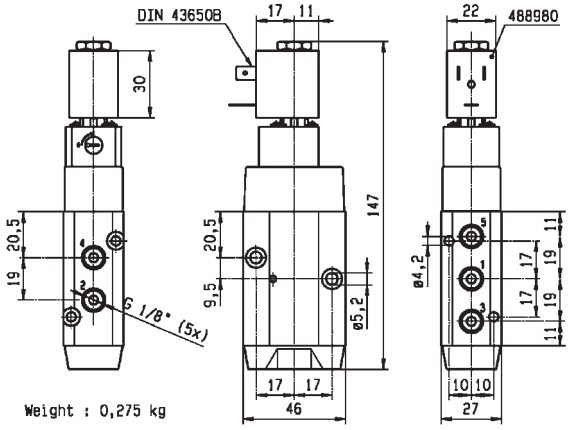


NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8"	4	600	2	10	10	-25	50	NBR	341P01 [2]	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7302
	4	600	2	10	10	-25	80	NBR	341P01 [2]	8993	488980	-	-	2	2.5	1.1	7302
	4	600	2	10	10	-25	80	NBR	341P21 [12]	2995	481865	-	-	8	9	2.1	7296
	4	600	2	10	10	-25	80	NBR	341P21 [12]	4270	481000	-	-	8	8	2.1	7296
	4	600	2	10	10	-40	65	PUR	341P2108 [2]	2995	481865	-	-	8	9	2.1	7296
	4	600	2	10	10	-40	65	PUR	341P2108 [2]	4270	481000	-	-	8	8	2.1	7296
	4	600	2	-	10	-20	65	NBR/ PUR	341P2197 [2]	2995	482740	-	-	-	1.6	6.0/8.0	8027
	4	600	2	10	10	-20	65	NBR/ PUR	341P2197 [2]	-	495900	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8027
	4	600	2	-	10	-20	65	NBR/ PUR	341P2197 [2]	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8027
	4	600	2	-	10	-20	65	NBR/ PUR	341P2197 [2]	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8027

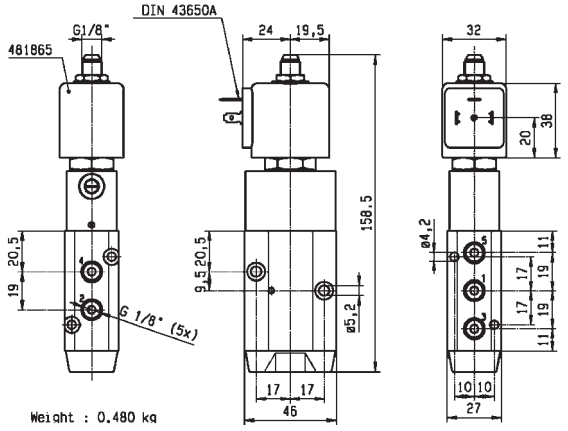
Notes:
1.Pilot seat in FKM
2.With manual override

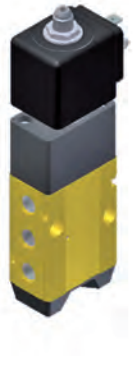
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	600	10	-40	-40
To	1/8"	4	600	10	80	50



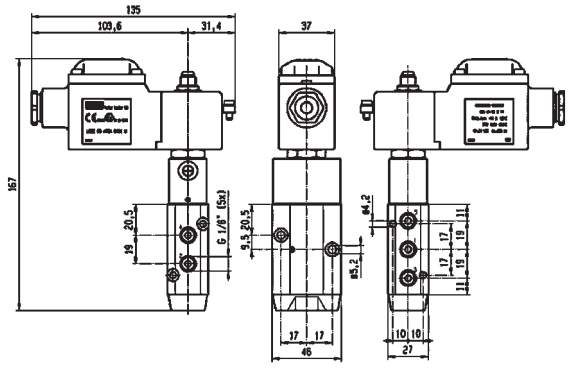


Drawing 7302





Drawing 7296





Drawing 8027

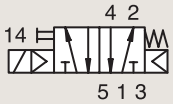
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

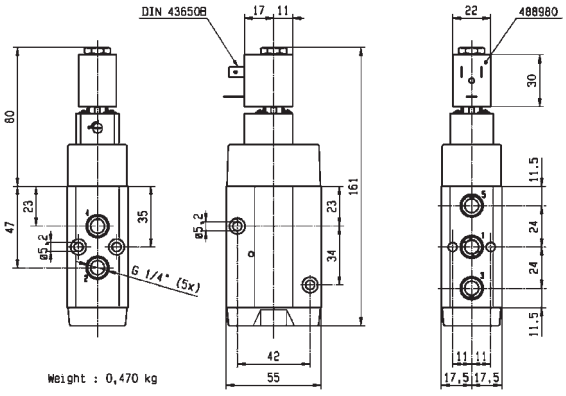
ANODIZED ALUMINIUM PIPE MOUNTING



NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8"	15	600	2	-	10	-10	55	NBR	341P2190$_2$	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190$_2$	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190$_2$	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7351
1/4"	7	1250	2.5	10	10	-10	50	NBR	341P03$_2$	-	496131	-	-	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P03$_2$	-	496482	-	-	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P03$_2$	-	496637	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8218
	7	1250	2.5	10	10	-20	50	NBR	341P33$_2$	2995	481865	-	-	8	9	2.1	8219
	7	1250	2.5	10	10	-20	50	NBR	341P33$_2$	-	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8219
	7	1250	2.5	10	10	-20	50	NBR	341P33$_2$	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8219
	8	1400	2	10	10	-25	80	NBR	341P02$_2$	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7314
	8	1400	2	10	10	-25	80	NBR	341P02$_2$	8993	488980	-	-	2	2.5	1.1	7314

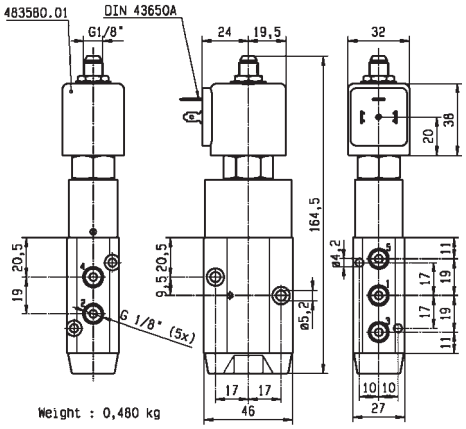
Notes:
1.Pilot seat in FKM
2.With manual override





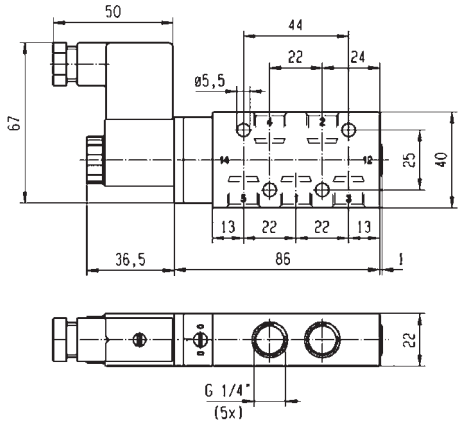
Drawing 7314

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	7	600	10	-25	-25
To	1/4"	15	1400	10	80	50



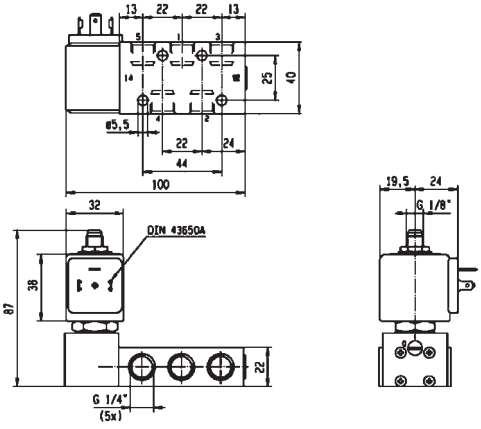


Drawing 7351





Drawing 8218





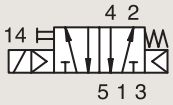
Drawing 8219

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

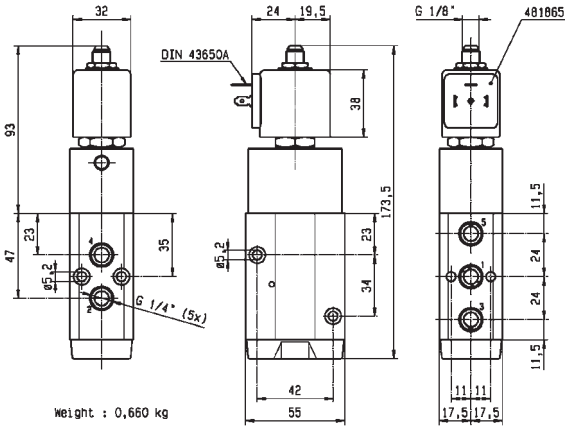


NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
BSP	1 mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	8	1400	2	10	10	-25	80	NBR	**341P22**$_{2}$	**2995**	**481865**	-	-	8	9	2.1	7319
	8	1400	2	10	10	-25	80	NBR	**341P22**$_{2}$	**4270**	**481000**	-	-	8	8	2.1	7319
	8	1400	2	-	10	-25	55	NBR	**341P2290**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7352
	8	1400	2	-	10	-25	75	NBR	**341P2290**	**-**	**488660.01**	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7352
	8	1400	2	-	10	-25	75	NBR	**341P2290**	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7352
	8	1400	2	-	10	-20	80	NBR/ PUR	**341P2297**$_{2}$	**2995**	**482740**	-	-	-	1.6	6.0/8.0	8030
	8	1400	2	10	10	-20	80	NBR/ PUR	**341P2297**$_{2}$	**-**	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8030
	8	1400	2	-	10	-20	80	NBR/ PUR	**341P2297**$_{2}$	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8030
	8	1400	2	-	10	-20	80	NBR/ PUR	**341P2297**$_{2}$	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8030

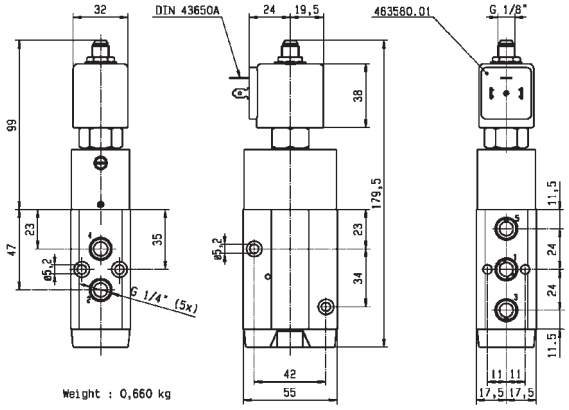
Notes:
1.Pilot seat in FKM
2.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	8	1400	10	-25	-25
To	1/4''	8	1400	10	80	50



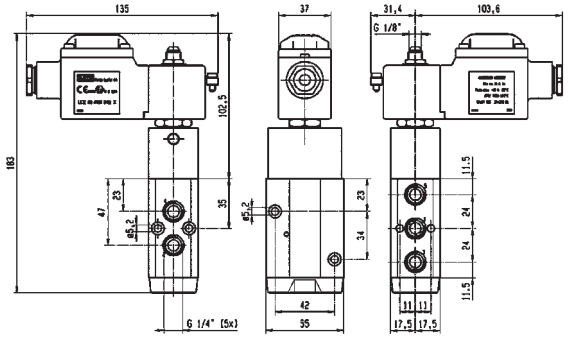


Drawing 7319





Drawing 7352





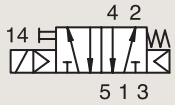
Drawing 8030

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

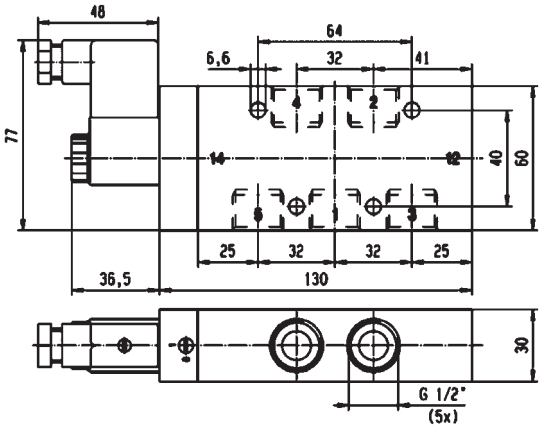


NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/2"	12	3000	2.5	10	10	-10	50	NBR	**341P04$_2$**	-	**496131**	-	-	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	**341P04$_2$**	-	**496482**	-	-	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	**341P04$_2$**	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	**341P34$_2$**	**2995**	**481865**	-	-	8	9	2.1	8221
	12	3000	2.5	10	10	-10	50	NBR	**341P34$_2$**	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	8221
	12	3000	2.5	10	10	-10	50	NBR	**341P34$_2$**	-	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	8221

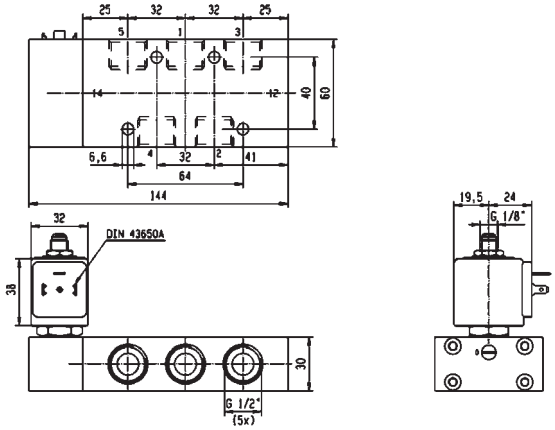
Notes:
1.Pilot seat in FKM
2.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2"	12	3000	10	-10	-10
To	1/2"	12	3000	10	50	50





Drawing 8220





Drawing 8221

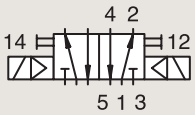
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

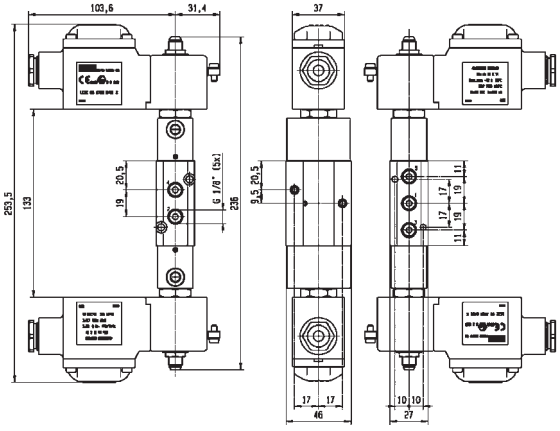
ANODIZED ALUMINIUM PIPE MOUNTING



DUAL SOLENOIDS

Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"	4	400	2	10	10	-25	80	NBR	**347P01**$_{2}$	-	**482606**	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7306
	4	400	2	10	10	-25	80	NBR	**347P01**$_{2}$	**8993**	**488980**	-	-	2	2.5	1.1	7306
	4	400	2	10	10	-25	80	NBR	**347P21**$_{12}$	**2995**	**481865**	-	-	8	9	2.1	7298
	4	400	2	10	10	-25	80	NBR	**347P21**$_{12}$	**4270**	**481000**	-	-	8	8	2.1	7298
	4	400	2	-	10	-25	55	NBR	**347P2190**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7353
	4	400	2	-	10	-25	75	NBR	**347P2190**	-	**488660.01**	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7353
	4	400	2	-	10	-25	75	NBR	**347P2190**	-	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7353
	4	400	2	-	10	-20	65	NBR/ PUR	**347P2197**$_{2}$	**2995**	**482740**	-	-	-	1.6	6.0/8.0	8028
	4	400	2	10	10	-20	65	NBR/ PUR	**347P2197**$_{2}$	-	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8028
	4	400	2	-	10	-20	65	NBR/ PUR	**347P2197**$_{2}$	-	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8028
	4	400	2	-	10	-20	65	NBR/ PUR	**347P2197**$_{2}$	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8028

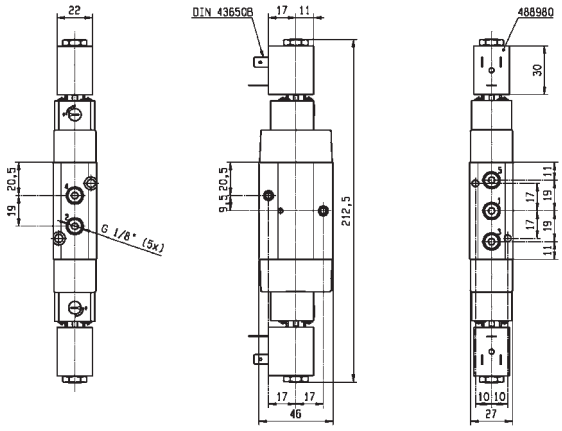
Notes:
1.Pilot seat in FKM
2.With manual override





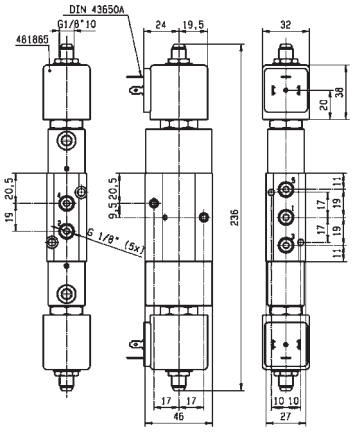
Drawing 8028

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''	4	400	10	-25	-25
To	1/8''	4	400	10	80	50



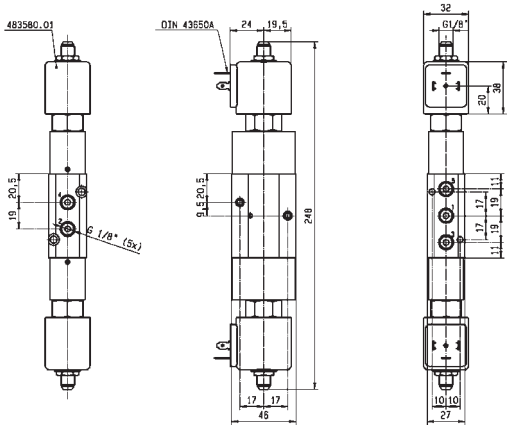


Drawing 7306





Drawing 7298





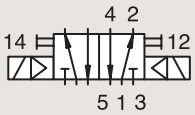
Drawing 7353

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3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

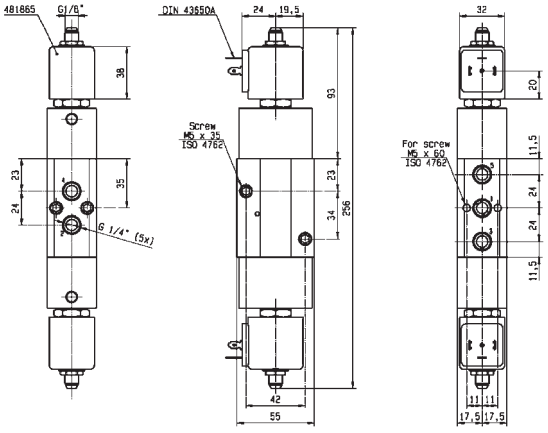
ANODIZED ALUMINIUM PIPE MOUNTING

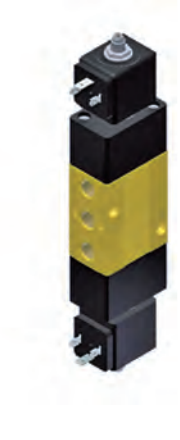


DUAL SOLENOIDS

Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	7	1250	2.5	10	10	-10	50	NBR	**347P03$_2$**	-	**496131**	-	-	3	3	1.2	8222
	7	1250	2.5	10	10	-10	50	NBR	**347P03$_2$**	-	**496482**	-	-	3	3	1.2	8222
	7	1250	2.5	10	10	-10	50	NBR	**347P03$_2$**	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8222
	7	1250	2.5	10	10	-10	50	NBR	**347P33$_2$**	**2995**	**481865**	-	-	8	9	2.1	8223
	7	1250	2.5	10	10	-10	50	NBR	**347P33$_2$**	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	8223
	7	1250	2.5	10	10	-10	50	NBR	**347P33$_2$**	-	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	8223
	8	1400	2	10	10	-25	80	NBR	**347P02$_2$**	-	**482606**	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7316
	8	1400	2	10	10	-25	80	NBR	**347P02$_2$**	**8993**	**488980**	-	-	2	2.5	1.1	7316
	8	1400	2	10	10	-25	80	NBR	**347P22$_2$**	**2995**	**481865**	-	-	8	9	2.1	7321
	8	1400	2	10	10	-25	80	NBR	**347P22$_2$**	**4270**	**481000**	-	-	8	8	2.1	7321

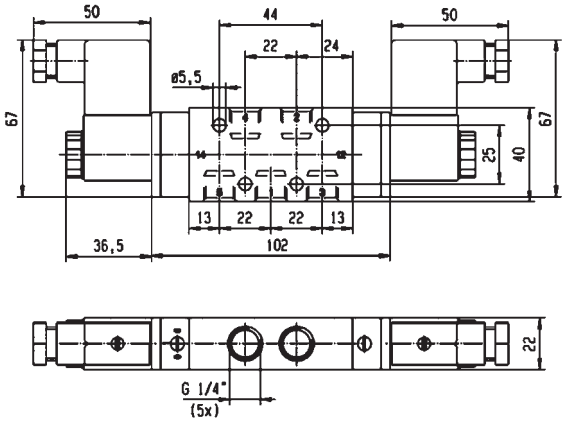
Notes:
1.Pilot seat in FKM
2.With manual override





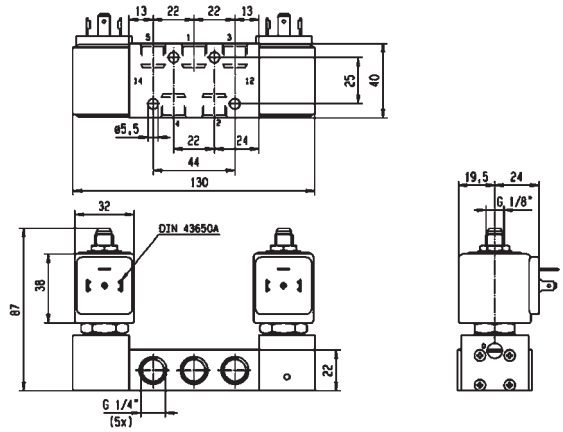
Drawing 7321

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-25	-25
To	1/4''	8	1400	10	80	50



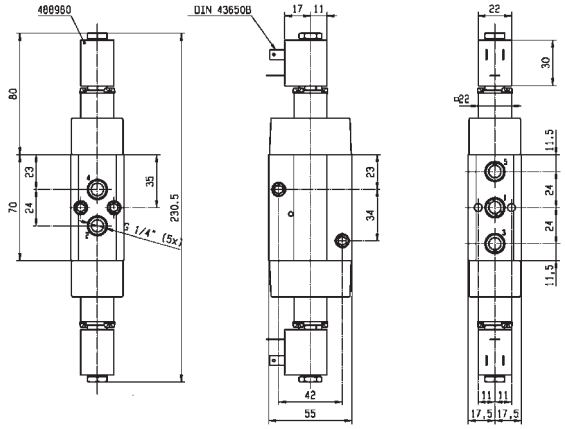


Drawing 8222





Drawing 8223





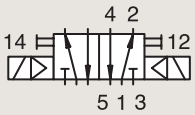
Drawing 7316

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

PILOT OPERATED

ANODIZED ALUMINIUM PIPE MOUNTING

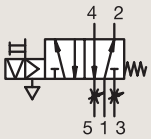


DUAL SOLENOIDS

Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/2"	12	3000	2.5	10	10	-10	50	NBR	347P04 [2]	-	496131	-	-	3	3	1.2	8224
	12	3000	2.5	10	10	-10	50	NBR	347P04 [2]	-	496482	-	-	3	3	1.2	8224
	12	3000	2.5	10	10	-10	50	NBR	347P04 [2]	-	496637	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8224
	12	3000	2.5	10	10	-10	50	NBR	347P34 [2]	2995	481865	-	-	8	9	2.1	8225
	12	3000	2.5	10	10	-10	50	NBR	347P34 [2]	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8225
	12	3000	2.5	10	10	-10	50	NBR	347P34 [2]	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8225

Notes:
1.Pilot seat in FKM
2.With manual override

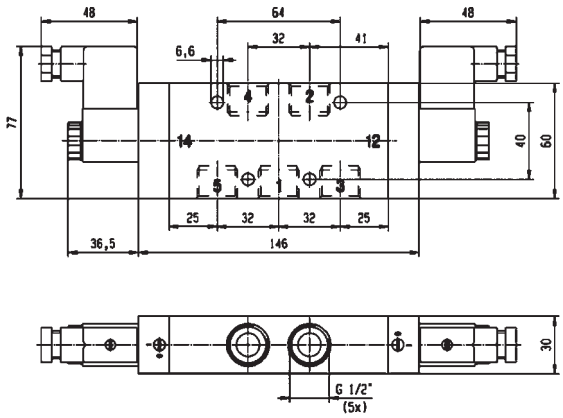
ANODIZED ALUMINIUM PIPE MOUNTING



CONTROL BY ELECTRIC IMPULSE

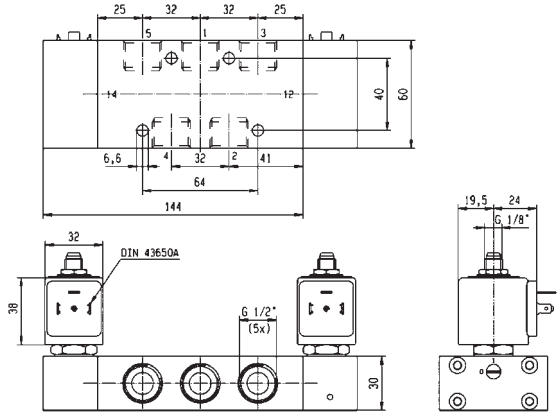
Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"	4	600	2	-	10	-25	80	NBR	345P21	4269	485400	-	-	-	13	4.0	8123

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	600	10	-25	-25
To	1/2"	12	3000	10	80	50



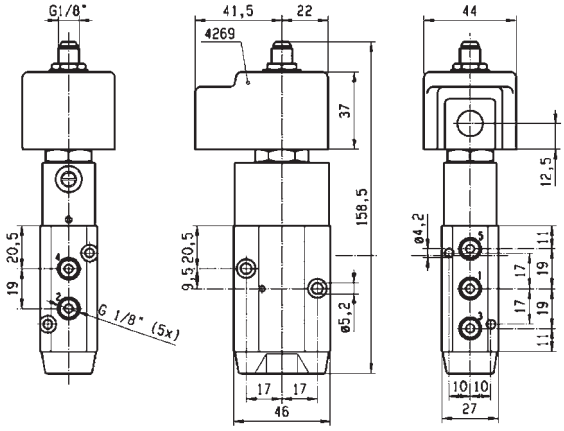


Drawing 8224





Drawing 8225





Drawing 8123

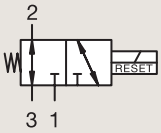
3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING)

MANUAL RESET

BRASS

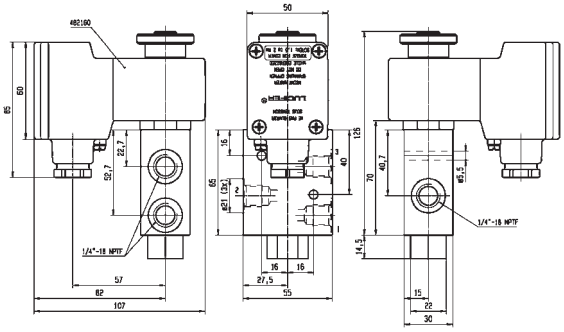
PIPE MOUNTING

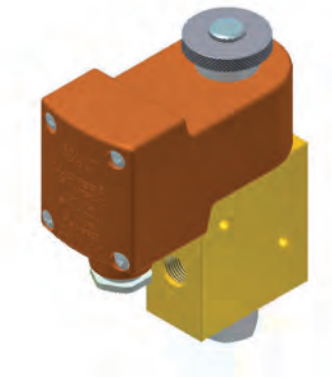
UNIVERSAL



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4" NPT	6	680	0	10	10	-25	65	NBR	**U033X0111**	-	**492310**	1-21	Ex e mb II T3 to T6	6	6	10.1/10.2/12.0	7641
	6	680	0	10	10	-25	65	NBR	**U033X0111**	-	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2/12.0	7641

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	1/4''	6	680	10	65	65





Drawing 7641

NOTES



3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)

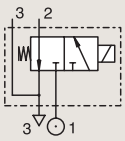


3/2
5/2
5/3

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page
Direct Operated	Anodized aluminium/ NAMUR	Normally Closed	1/4''	6	680	10	75	296
Pilot Operated	Anodized aluminium/ NAMUR/Spool	Solenoid operated - spring return	1/8''-1/4''	4 to 8	1400	10	80	302
			1/4''	7 to 8	1400	10	80	298
			1/2''	12	3000	10	50	298
		Dual Solenoids	1/8''-1/4''	4	400	10	80	314
			1/4''	7 to 8	1400	10	120	316
			1/2''	12	3000	10	120	318
		W1 closed center position	1/8''-1/4''	4	400	10	80	320
			1/4''	4 to 7	1250	10	120	320
		W3 exhausted in center position	1/4''	7	1250	10	50	322
		Control by Electric Impulse	1/8''-1/4''	4	600	10	80	324
	Anodized aluminium/ NAMUR/Poppet	Solenoid operated - spring return	1/8''-1/4''	4	355	10	75	324
Air Operated	Anodized aluminium/ NAMUR	Air operated - spring return	1/8''-1/4''	4	600	10	80	330
			1/4''	7	1250	10	50	330
			1/2''	12	3000	10	50	330
		Air operated and return	1/4''	7	1250	10	50	330
		W1 closed center position	1/4''	7	1250	10	50	334

3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
DIRECT OPERATED

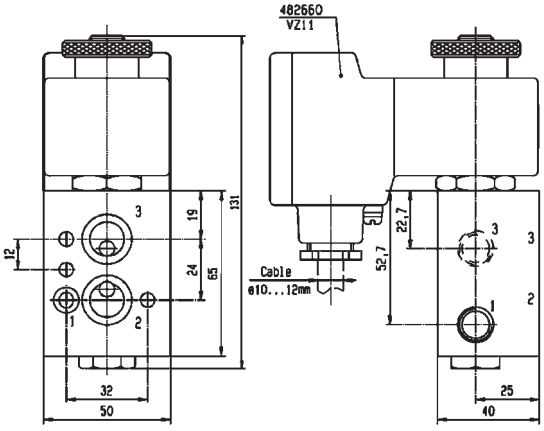
ANODIZED ALUMINIUM
NAMUR
NORMALLY CLOSED

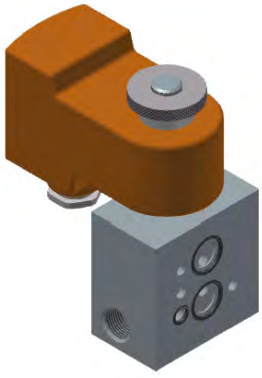


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	6	680	0	10	10	-25	75	NBR	**131X1101**	-	**492310**	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1	7336
	6	680	0	-	10	-25	75	NBR	**131X1101**	-	**492965.01**	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	7336
	6	680	0	10	10	-25	75	NBR	**131X1101**	-	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1	7336
	6	680	0	10	10	-25	75	NBR	**131X1101**	-	**496895**	-	-	8	8	9.0/10.1	7336
	6	680	0	-	10	-25	65	NBR	**131X1131**[1]	-	**492310**	1-21	Ex e mb II T3 to T6	-	6	10.1/10.2	7336
	6	680	0	-	10	-25	65	NBR	**131X1131**[1]	-	**496700**	1-21	Ex d mb IIC T4 to T6	-	6	10.1/10.2	7336
	6	680	0	-	10	-25	65	NBR	**131X1131**[1]	-	**496895**	-	-	-	8	10.1/10.2	7336
1/4" NPT	6	680	0	-	10	-25	75	NBR	**U131X1101**	-	**492965.01**	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2	7336
	6	680	0	10	10	-25	65	NBR	**U131X1101**	-	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2	7336
	6	680	0	10	10	-25	65	NBR	**U131X1101**	-	**496895**	-	-	8	8	10.1/10.2	7336

Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	1/4''	6	680	10	75	65

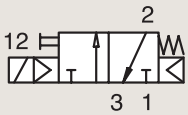




Drawing 7336

3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

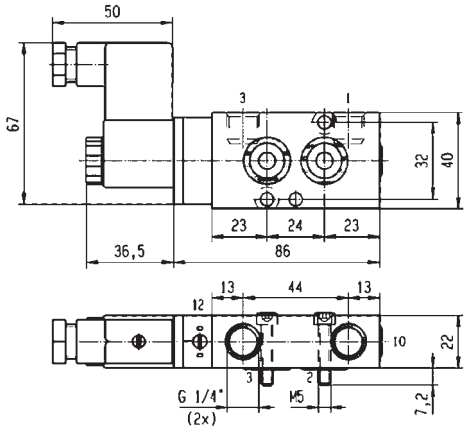
ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	7	1250	2.5	10	10	-10	50	NBR	**331N03$_3$**	-	**496131**	-	-	3	3	1.2	8056
	7	1250	2.5	10	10	-10	50	NBR	**331N03$_3$**	-	**496482**	-	-	3	3	1.2	8056
	7	1250	2.5	10	10	-10	50	NBR	**331N03$_3$**	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8056
1/2"	12	3000	2	10	10	-10	50	NBR	**331N04$_3$**	-	**496131**	-	-	3	3	1.2	8060
	12	3000	2	10	10	-10	50	NBR	**331N04$_3$**	-	**496482**	-	-	3	3	1.2	8060
	12	3000	2	10	10	-10	50	NBR	**331N04$_3$**	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8060

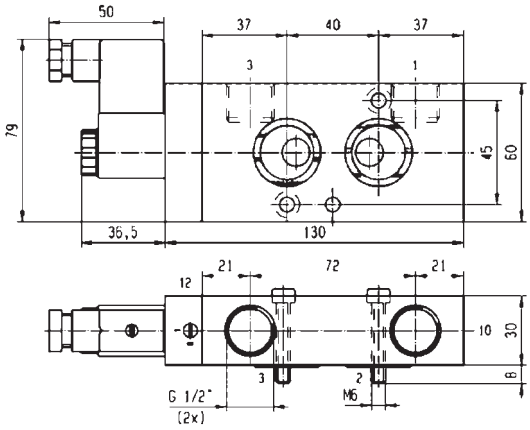
Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-10	-10
To	1/2''	12	3000	10	50	50





Drawing 8056

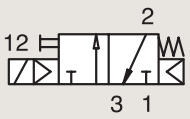




Drawing 8060

3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

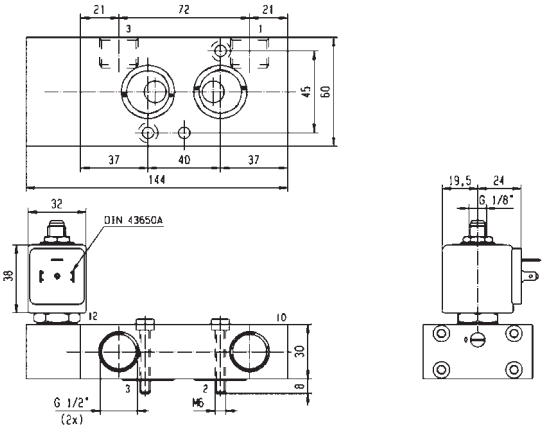
ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/2"	12	3000	2.5	10	10	-10	50	NBR	**331N34$_3$**	**2995**	**481865**	-	-	8	9	2.1	8210
	12	3000	2.5	10	10	-10	50	NBR	**331N34$_3$**	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	8210
	12	3000	2.5	10	10	-10	50	NBR	**331N34$_3$**	**-**	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	8210

Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2''	12	3000	10	-10	-10
To	1/2''	12	3000	10	50	50

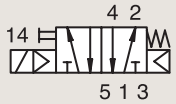




Drawing 8210

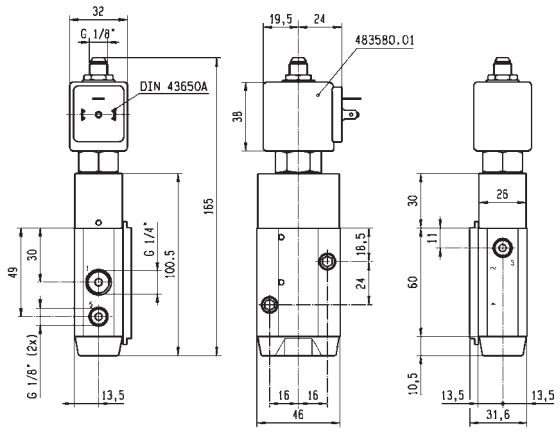
3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8''-1/4''	4	600	2	10	10	-25	80	NBR	**341N01**$_{23}$	**8993**	**488980**	-	-	2	2.5	1.1	7301
	4	600	2	10	10	-25	80	NBR	**341N11**$_{23}$	**8993**	**488980**	-	-	2	2.5	1.1	7300
	4	600	2	10	10	-25	80	FKM/NBR	**341N21**$_{3}$	**2995**	**481865**	-	-	8	9	2.1	7311
	4	600	2	10	10	-25	80	FKM/NBR	**341N21**$_{3}$	**4270**	**481000**	-	-	8	8	2.1	7311
	4	600	2	-	10	-25	55	FKM/NBR	**341N2190**$_{3}$	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7874
	4	600	2	-	10	-25	55	FKM/NBR	**341N2190**$_{3}$	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7874

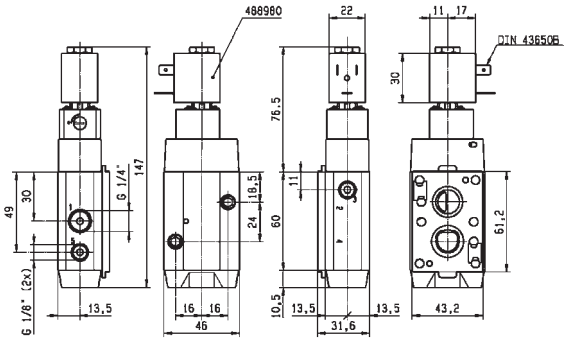
Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override





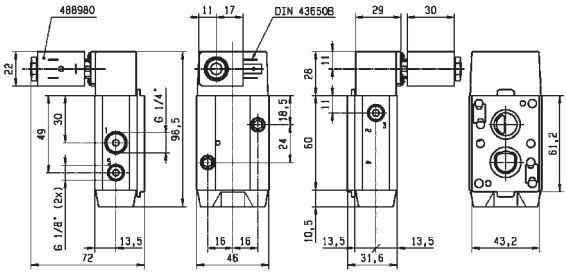
Drawing 7874

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	4	600	10	-25	-25
To	1/8''-1/4''	4	600	10	80	50



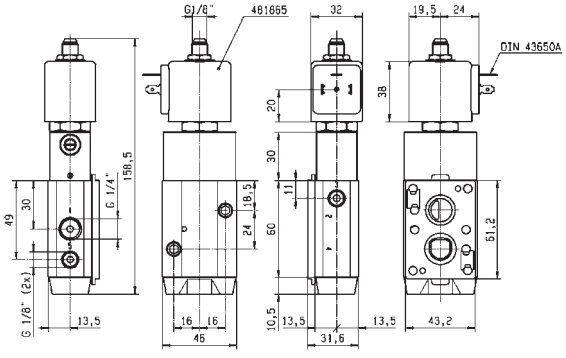


Drawing 7301





Drawing 7300

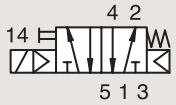




Drawing 7311

3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR



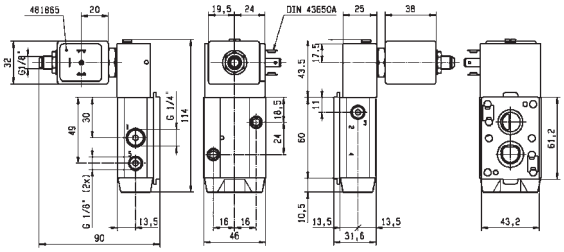
SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
BSP	1 mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
	4	600	2	10	10	-25	80	NBR	341N31 [3]	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-25	80	NBR	341N31 [3]	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	7295
	4	600	2	10	10	-25	65	NBR	341N31 [3]	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	7295
	4	600	2	10	10	-25	80	NBR	341N3102	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3108 [3]	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3108 [3]	4270	481000	-	-	8	8	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3128	2995	481865	-	-	8	9	2.1	7295
	4	600	2	10	10	-40	65	PUR	341N3128	4270	481865	-	-	8	9	2.1	7295
	4	600	2	-	10	-25	80	FKM/NBR	341N3130 [13]	2995	481865	-	-	-	9	2.1	7295
	4	600	2	-	10	-25	80	FKM/NBR	341N3130 [13]	-	492190	1-21	Ex e mb IIC T3/T4	-	9	2.1	7295
1/8"-1/4"	4	600	2	-	10	-25	80	FKM/NBR	341N3130 [13]	-	495905	1-21	Ex d mb IIC T4	-	8	2.1	7295
	4	600	2	-	10	-10	55	NBR	341N3190	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7349
	4	600	2	-	10	-10	75	NBR	341N3190	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7349
	4	600	2	-	10	-10	75	NBR	341N3190	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7349
	4	600	2	-	10	-25	65	NBR	341N3196	2995	482740	-	-	-	1.6	6.0/8.0	8017
	4	600	2	10	10	-25	65	NBR	341N3196	-	495900	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3196	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3196	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3197 [3]	2995	482740	-	-	-	1.6	6.0/8.0	8017
	4	600	2	10	10	-25	65	NBR	341N3197 [3]	-	495900	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3197 [3]	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8017
	4	600	2	-	10	-25	65	NBR	341N3197 [3]	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8017

Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override

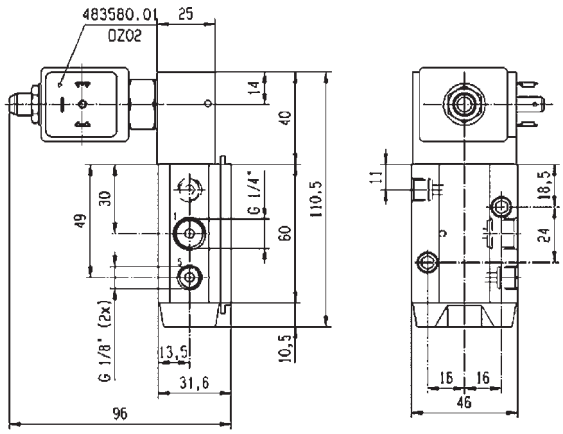
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	4	600	10	-40	-25
To	1/8''-1/4''	4	600	10	80	50



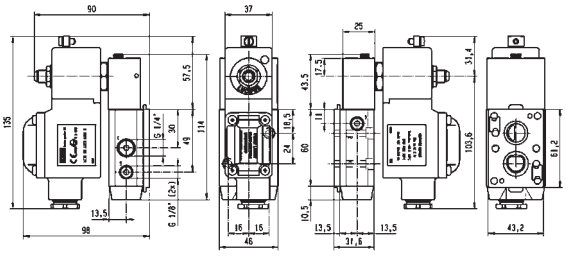


Drawing 7295





Drawing 7349

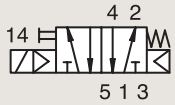




Drawing 8017

3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR



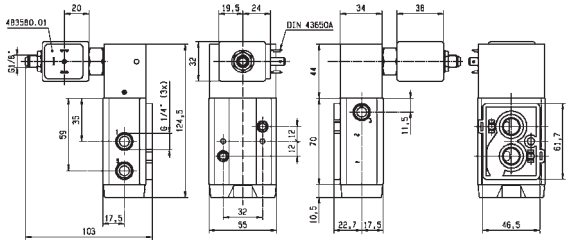
SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8"-1/4"	8	1400	2	-	10	-25	55	NBR	**341N3290**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7350
	8	1400	2	-	10	-25	75	NBR	**341N3290**	**-**	**488660.01**	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7350
	8	1400	2	-	10	-25	75	NBR	**341N3290**	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7350
	8	1400	2	-	10	-20	80	NBR	**341N3296**	**2995**	**482740**	-	-	-	1.6	6.0/8.0	8029
	8	1400	2	10	10	-20	80	NBR	**341N3296**	**-**	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	**341N3296**	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	**341N3296**	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	**341N3297**[3]	**2995**	**482740**	-	-	-	1.6	6.0/8.0	8029
	8	1400	2	10	10	-20	80	NBR	**341N3297**[3]	**-**	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	**341N3297**[3]	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8029
	8	1400	2	-	10	-20	80	NBR	**341N3297**[3]	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8029
1/4"	7	1250	2.5	10	10	-10	50	NBR	**341N05**[3]	**-**	**496131**	-	-	3	3	1.2	8162
	7	1250	2.5	10	10	-10	50	NBR	**341N05**[3]	**-**	**496482**	-	-	3	3	1.2	8162
	7	1250	2.5	10	10	-10	50	NBR	**341N05**[3]	**-**	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8162

Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override

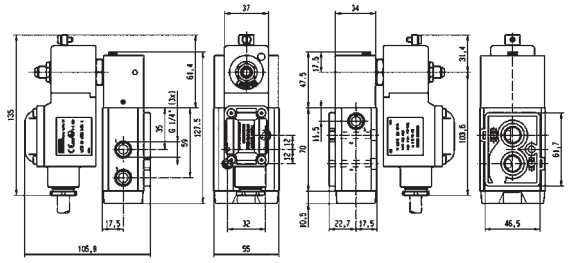
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	7	1250	10	-25	-25
To	1/4''	8	1400	10	80	50



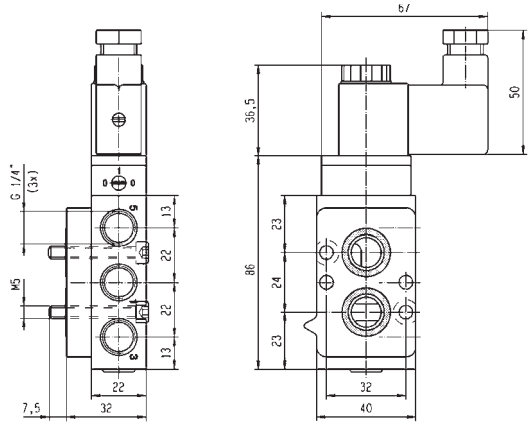


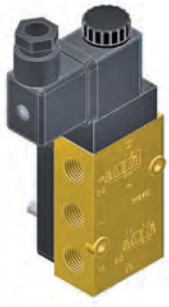
Drawing 7350





Drawing 8029



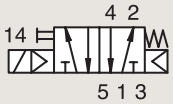


Drawing 8162

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

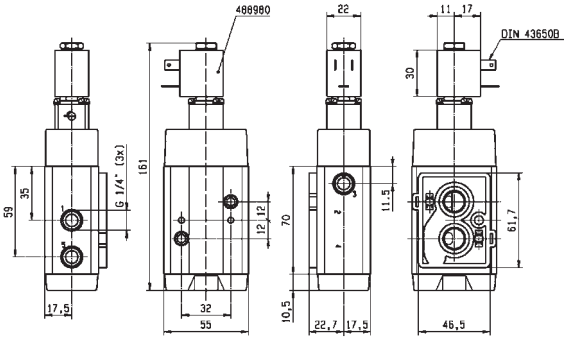
3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	7	1200	2.5	10	10	-10	50	NBR	**341N0502**	-	**496131**	-	-	3	3	1.2	8253
	7	1200	2.5	10	10	-10	50	NBR	**341N0502**	-	**496482**	-	-	3	3	1.2	8253
	7	1200	2.5	10	10	-10	50	NBR	**341N35**$_{3}$	**2995**	**481865**	-	-	8	9	2.1	8213
	7	1200	2.5	10	10	-10	50	NBR	**341N35**$_{3}$	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	8213
	7	1200	2.5	10	10	-10	50	NBR	**341N35**$_{3}$	-	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	8213
	7	1200	2.5	10	10	-10	50	NBR	**341N3502**	**2995**	**481865**	-	-	8	9	2.1	8254
	7	1200	2.5	10	10	-10	50	NBR	**341N3502**	**4270**	**481000**	-	-	8	8	2.1	8254
	8	1400	2	10	10	-25	80	NBR	**341N02**$_{23}$	**8993**	**488980**	-	-	2	2.5	1.1	7313

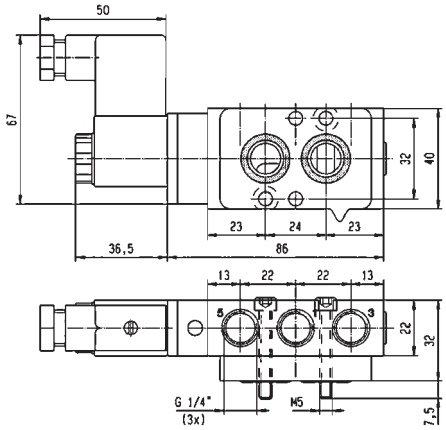
Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override





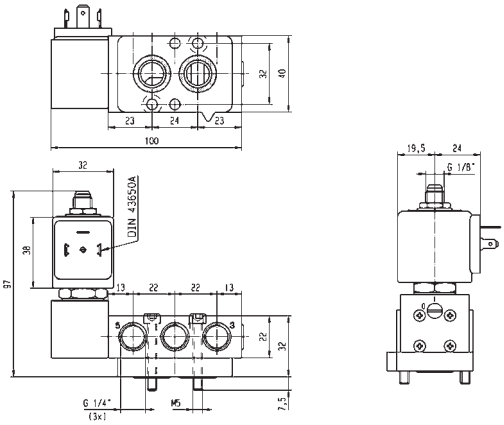
Drawing 7313

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1200	10	-25	-25
To	1/4''	8	1400	10	80	50



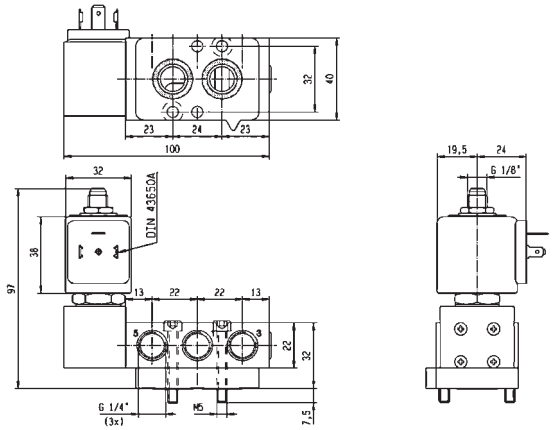


Drawing 8253





Drawing 8213

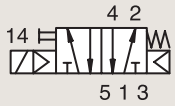




Drawing 8254

3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN

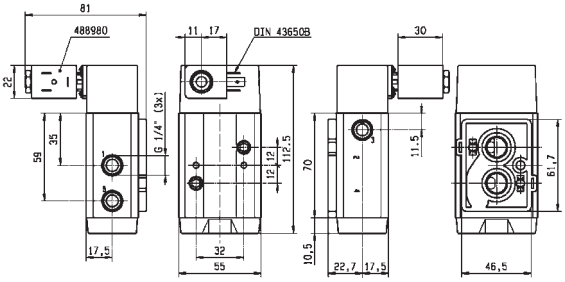


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	8	1400	2	10	10	-25	80	NBR	**341N12$_{23}$**	**8993**	**488980**	-	-	2	2.5	1.1	7312
	8	1400	2	10	10	-25	80	NBR	**341N22$_{3}$**	**2995**	**481865**	-	-	8	9	2.1	7318
	8	1400	2	10	10	-25	80	NBR	**341N22$_{3}$**	**4270**	**481000**	-	-	8	8	2.1	7318
	8	1400	2	10	10	-25	80	NBR	**341N32$_{3}$**	**2995**	**481865**	-	-	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	**341N32$_{3}$**	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	**341N32$_{3}$**	**-**	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	7317
	8	1400	2	10	10	-25	80	NBR	**341N3202**	**2995**	**481865**	-	-	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	**341N3202**	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	7317
	8	1400	2	10	10	-25	80	NBR	**341N3202**	**-**	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	7317

Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override

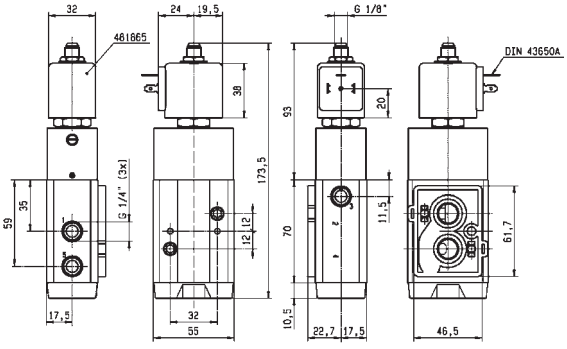
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	8	1400	10	-25	-25
To	1/4''	8	1400	10	80	50



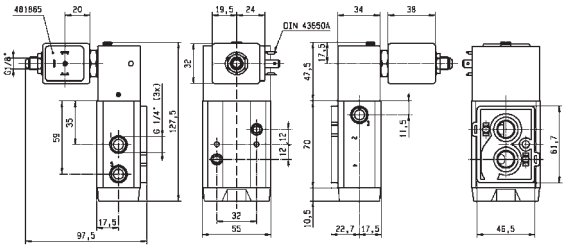


Drawing 7312





Drawing 7318



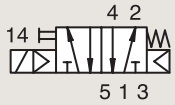


Drawing 7317

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

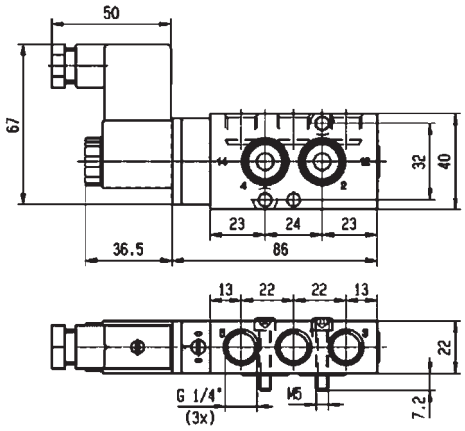


SOLENOID OPERATED - SPRING RETURN

Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	7	1250	2.5	10	10	-10	50	NBR	**341N03$_3$**	-	**496131**	-	-	3	3	1.2	8063
	7	1250	2.5	10	10	-10	50	NBR	**341N03$_3$**	-	**496482**	-	-	3	3	1.2	8063
	7	1250	2.5	10	10	-10	50	NBR	**341N03$_3$**	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8063
1/2"	12	3000	2	10	10	-10	50	NBR	**341N04$_3$**	-	**496131**	-	-	3	3	1.2	8065
	12	3000	2	10	10	-10	50	NBR	**341N04$_3$**	-	**496482**	-	-	3	3	1.2	8065
	12	3000	2	10	10	-10	50	NBR	**341N04$_3$**	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8065
	12	3000	2.5	10	10	-20	50	NBR	**341N34$_3$**	**2995**	**481865**	-	-	8	9	2.1	8211
	12	3000	2.5	10	10	-20	50	NBR	**341N34$_3$**	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	8211
	12	3000	2.5	10	10	-20	50	NBR	**341N34$_3$**	-	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	8211

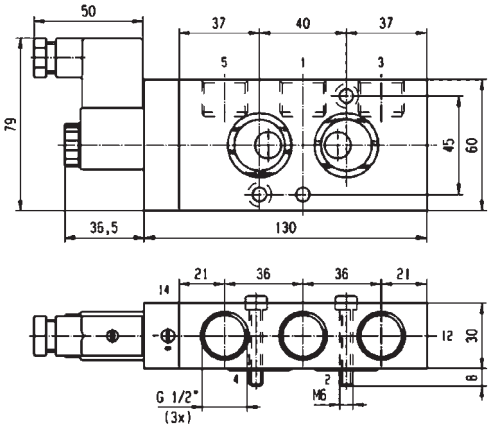
Notes:
1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.With captured exhaust
3.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-10	-10
To	1/2''	12	3000	10	50	50



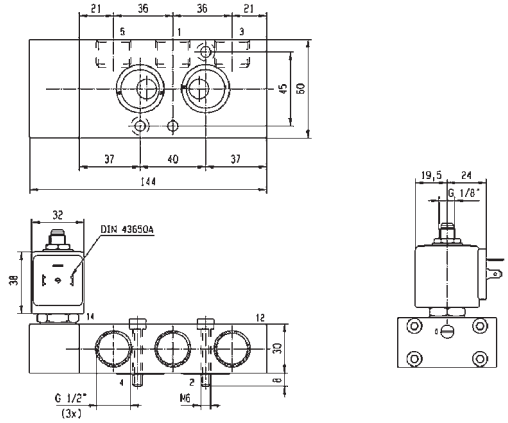


Drawing 8063





Drawing 8065





Drawing 8211

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

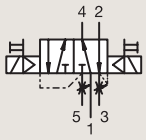
5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)

PILOT OPERATED

ANODIZED ALUMINIUM

NAMUR

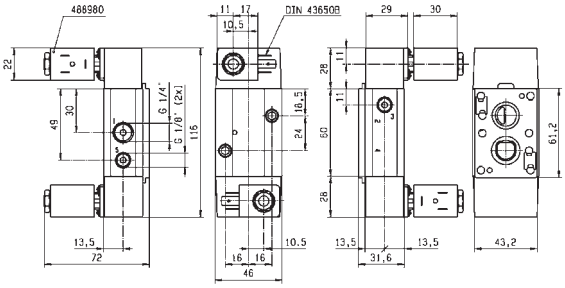


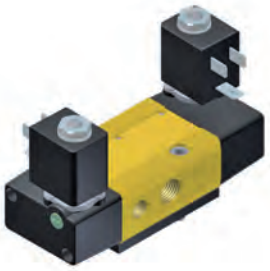
DUAL SOLENOIDS

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
BSP	1 mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8"-1/4"	4	400	2	10	10	-25	50	NBR	**347N11**$_{12}$	-	**482606**	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7305
	4	400	2	10	10	-25	80	NBR	**347N11**$_{12}$	**8993**	**488980**	-	-	2	2.5	1.1	7305
	4	400	2	10	10	-25	80	FKM	**347N31**$_{2}$	**2995**	**481865**	-	-	8	9	2.1	7297
	4	400	2	10	10	-25	80	FKM	**347N31**$_{2}$	**2995**	**495870**	2-22	Ex nAC IIC T3/T4	8	9	2.1	7297
	4	400	2	10	10	-25	80	FKM	**347N31**$_{2}$	-	**495905**	1-21	Ex d mb IIC T4	8	8	2.1	7297
	4	400	2	-	10	-25	55	PUR	**347N3190**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	8141
	4	400	2	-	10	-25	65	FKM	**347N3197**$_{2}$	**2995**	**482740**	-	-	-	1.6	3.0/6.0/8.0	7297
	4	400	2	10	10	-25	65	FKM	**347N3197**$_{2}$	-	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	3.0/6.0/8.0	7297
	4	400	2	-	10	-25	65	FKM	**347N3197**$_{2}$	-	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	3.0/6.0/8.0	7297
	4	400	2	-	10	-25	65	FKM	**347N3197**$_{2}$	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	3.0/6.0/8.0	7297

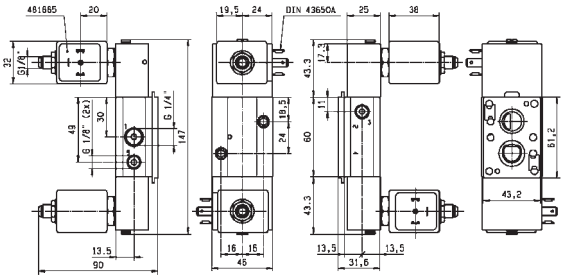
Notes:
1.With captured exhaust
2.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	4	400	10	-25	-25
To	1/8''-1/4''	4	400	10	80	50



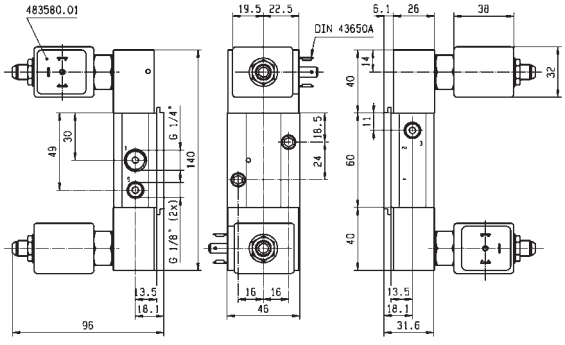


Drawing 7305





Drawing 7297

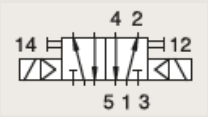




Drawing 8141

5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

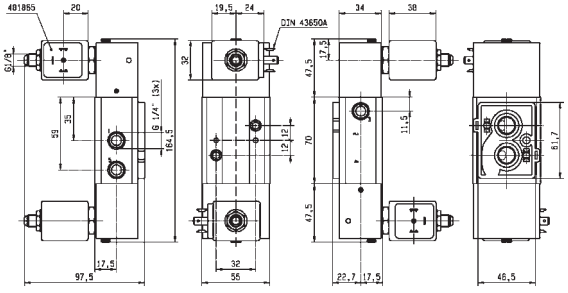
ANODIZED ALUMINIUM
NAMUR



DUAL SOLENOIDS

Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	7	1250	1.5	10	10	-10	50	NBR	347N03 $_{2}$	-	496131	-	-	3	3	1.2	8057
	7	1250	1.5	10	10	-10	50	NBR	347N03 $_{2}$	-	496482	-	-	3	3	1.2	8057
	7	1250	1.5	10	10	-10	50	NBR	347N03 $_{2}$	-	496637	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8057
	7	1250	2.5	10	10	-10	120	NBR	347N33 $_{2}$	2995	481865	-	-	8	9	2.1	8209
	7	1250	2.5	10	10	-10	120	NBR	347N33 $_{2}$	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8209
	7	1250	2.5	10	10	-10	120	NBR	347N33 $_{2}$	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8209
	8	1400	2	10	10	-10	65	NBR	347N12 $_{12}$	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7315
	8	1400	2	10	10	-25	80	NBR	347N12 $_{12}$	8993	488980	-	-	2	2.5	1.1	7315
	8	1400	2	10	10	-25	80	NBR	347N32 $_{2}$	2995	481865	-	-	8	9	2.1	7320
	8	1400	2	10	10	-25	80	NBR	347N32 $_{2}$	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	7320
	8	1400	2	10	10	-25	80	NBR	347N32 $_{2}$	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	7320

Notes:
1.With captured exhaust
2.With manual override

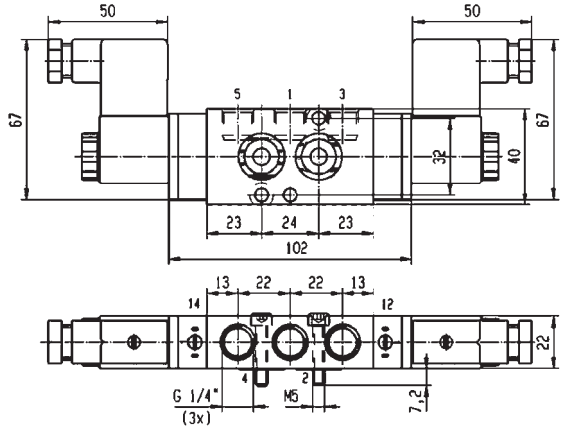




Drawing 7320

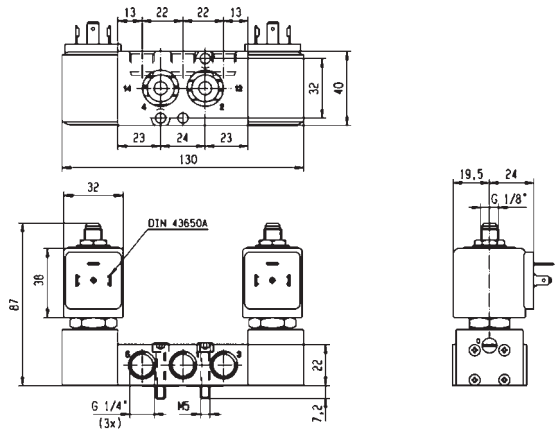
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-25	-25
To	1/4''	8	1400	10	120	50



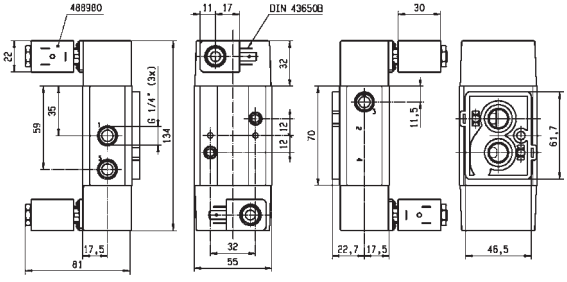


Drawing 8057





Drawing 8209





Drawing 7315

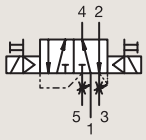
5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)

PILOT OPERATED

ANODIZED ALUMINIUM

NAMUR

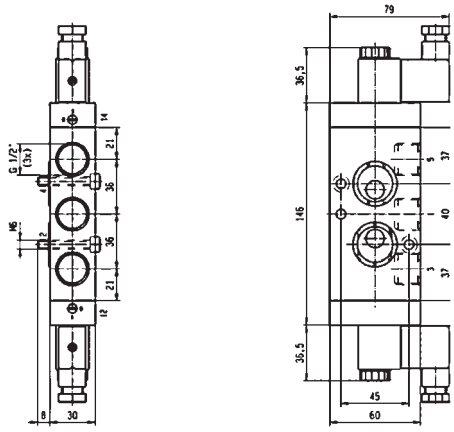


DUAL SOLENOIDS

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/2"	12	3000	1.5	10	10	-10	50	NBR	347N04$_2$	-	496131	-	-	3	3	1.2	8154
	12	3000	1.5	10	10	-10	50	NBR	347N04$_2$	-	496482	-	-	3	3	1.2	8154
	12	3000	1.5	10	10	-10	50	NBR	347N04$_2$	-	496637	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8154
	12	3000	2.5	10	10	-10	120	NBR	347N34$_2$	2995	481865	-	-	8	9	2.1	8212
	12	3000	2.5	10	10	-10	120	NBR	347N34$_2$	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8212
	12	3000	2.5	10	10	-10	120	NBR	347N34$_2$	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8212

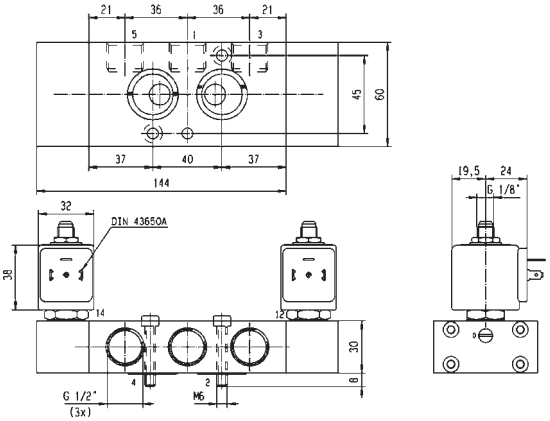
Notes:
1.With captured exhaust
2.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/2''	12	3000	10	-10	-10
To	1/2''	12	3000	10	120	50





Drawing 8154





Drawing 8212

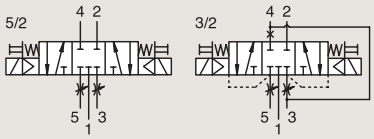
5/3

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)

PILOT OPERATED

ANODIZED ALUMINIUM

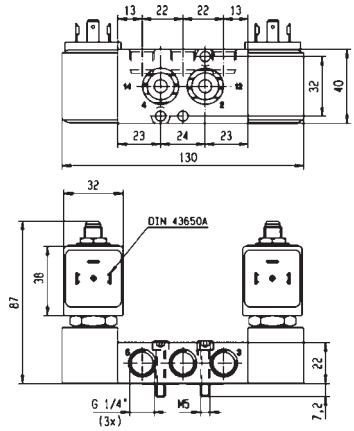
NAMUR

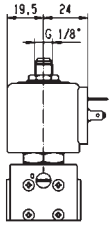


W1 CLOSED CENTER POSITION

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8"-1/4"	4	400	2	10	10	-25	80	NBR	342N11 $_{12}$	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7305
	4	400	2	10	10	-25	80	NBR	342N11 $_{12}$	8993	488980	-	-	2	2.5	1.1	7305
1/4"	4	400	2	-	10	-10	65	NBR	342N3197 $_{2}$	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	7297
	7	1250	3	10	10	-10	50	NBR	342N03 $_{2}$	-	496131	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	342N03 $_{2}$	-	496482	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	342N03 $_{2}$	-	496637	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8057
	7	1250	2.5	10	10	-10	120	NBR	342N33 $_{2}$	2995	481865	-	-	8	9	2.1	8209
	7	1250	2.5	10	10	-10	120	NBR	342N33 $_{2}$	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8209
	7	1250	2.5	10	10	-10	120	NBR	342N33 $_{2}$	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8209

Notes:
1.With captured exhaust
2.With manual override



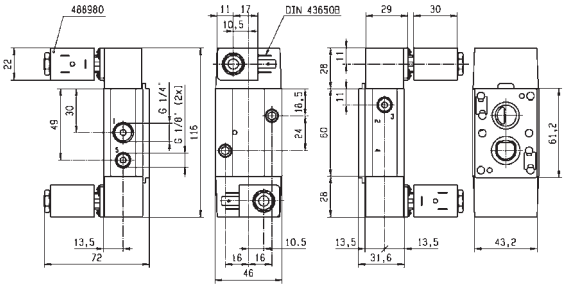


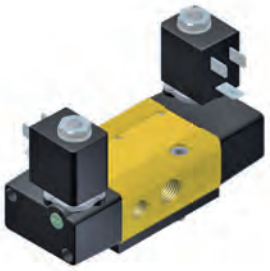


Drawing 8209

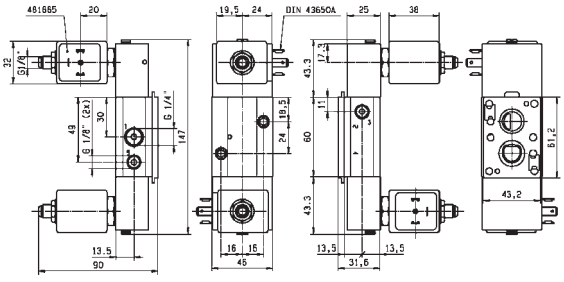
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"-1/4"	4	400	10	-25	-25
To	1/4"	7	1250	10	120	50



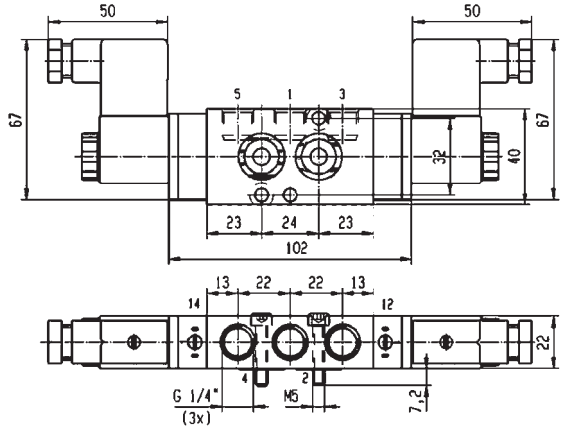


Drawing 7305





Drawing 7297



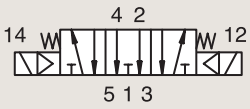


Drawing 8057

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

5/3 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR

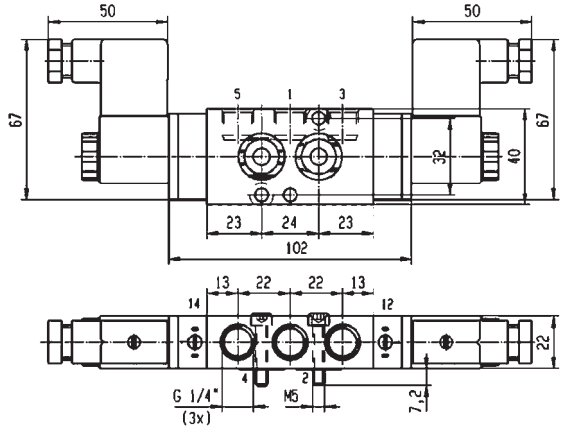


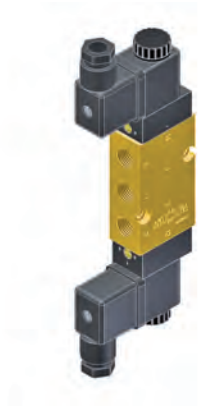
W3 EXHAUSTED IN CENTER POSITION

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
	7	1250	3	10	10	-10	50	NBR	**343N03**$_{1}$	-	**496131**	-	-	3	3	1.2	8057
1/4"	7	1250	3	10	10	-10	50	NBR	**343N03**$_{1}$	-	**496482**	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	**343N03**$_{1}$	-	**496637**	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8057

Notes:
1.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-10	-10
To	1/4''	7	1250	10	50	50

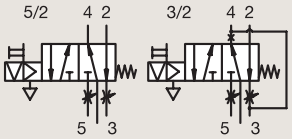




Drawing 8057

3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

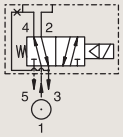
ANODIZED ALUMINIUM
NAMUR
CONTROL BY ELECTRIC IMPULSE



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"-1/4"	4	600	2	-	10	-25	80	FKM/NBR	345N31 12	4269	485400	-	-	-	13	4.0	7295

Notes:
1.Pilot seat in FKM
2.With manual override

ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN

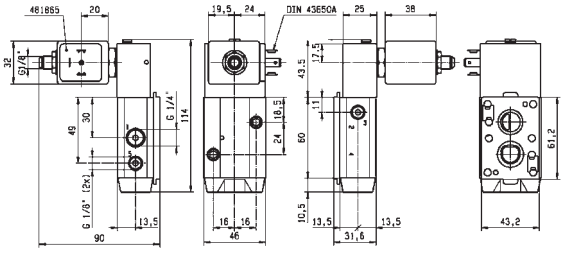


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"-1/4"	4	355	1	10	10	-10	75	NBR	341L9504 12	-	482605	1-21	Ex mb IIC T4	4	5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9504 12	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9504 12	8993	488980	-	-	2	2.5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9504 12	8993	495865	2-22	Ex nAC IIC T5	2	2.5	1.1	7009
	4	355	1	10	10	-10	75	NBR	341L9534 12	2995	481865	-	-	8	9	2.1/7.0	3990
	4	355	1	10	10	-10	75	NBR	341L9534 12	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1/7.0	3990
	4	355	1	10	10	-10	75	NBR	341L9534 12	-	495905	1-21	Ex d mb IIC T4	8	8	2.1/7.0	3990

Notes:
1.Pilot seat in FKM
2.With manual override

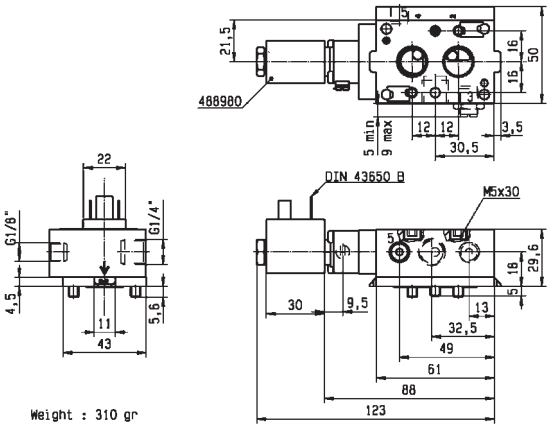
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	4	355	10	-25	-25
To	1/8''-1/4''	4	600	10	80	50



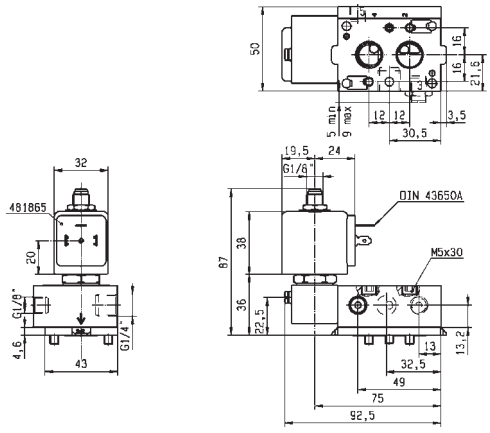


Drawing 7295





Drawing 7009

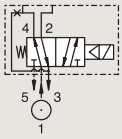




Drawing 3990

3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM
NAMUR
SOLENOID OPERATED - SPRING RETURN

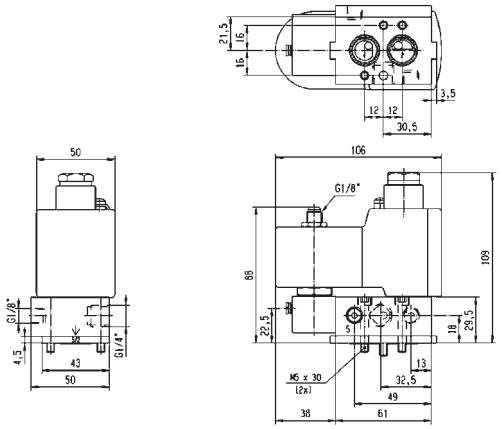


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/8"-1/4"	4	355	2	-	10	-10	55	NBR	**341L9594**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	3992
	4	355	1	-	10	-10	75	NBR	**341L9594**$_{12}$	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	3992
	4	355	2	-	10	-10	75	NBR/PUR	**341L9597**$_{2}$	**2995**	**482740**	-	-	-	1.6	6.0/8.0	8025
	4	355	2	10	10	-10	75	NBR/PUR	**341L9597**$_{2}$	**-**	**495900**	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8025
	4	355	2	-	10	-10	75	NBR/PUR	**341L9597**$_{2}$	**-**	**495910**	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	6.0/8.0	8025
	4	355	2	-	10	-10	75	NBR/PUR	**341L9597**$_{2}$	**2995**	**496125**	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8025
	4	355	2	-	10	-25	55	NBR/PUR	**341L9598**	**2995**	**483580.01**	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	3992

Notes:
1.Pilot seat in FKM
2.With manual override

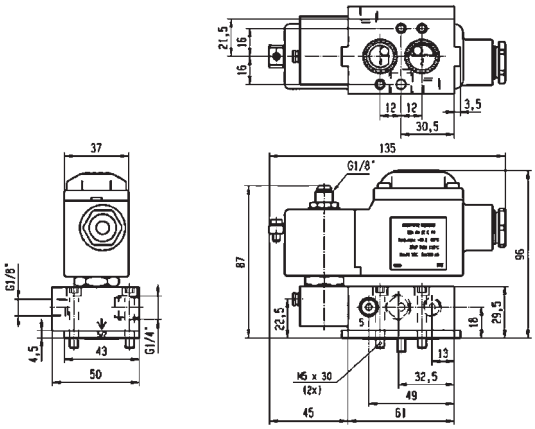
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	4	355	10	-25	-10
To	1/8''-1/4''	4	355	10	75	50





Drawing 3992

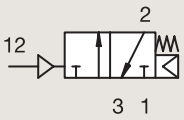




Drawing 8025

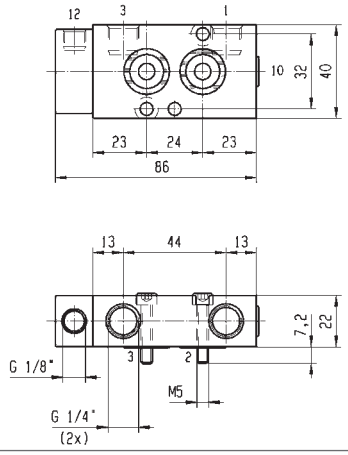
3/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
EXTERNALLY OPERATED

ANODIZED ALUMINIUM
NAMUR
AIR OPERATED - SPRING RETURN



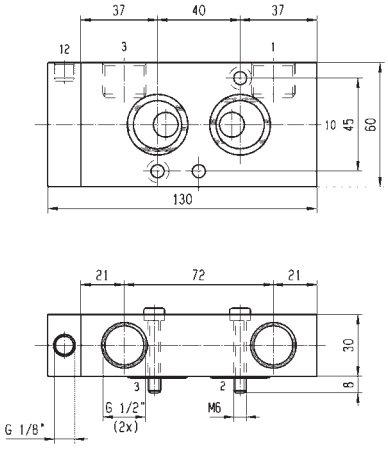
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l'/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	7	1250	2.5	10	10	-10	50	NBR	**531N03**	-	-	-	-	-	-	-	8058
1/2"	12	3000	2.5	10	10	-10	50	NBR	**531N04**	-	-	-	-	-	-	-	8061

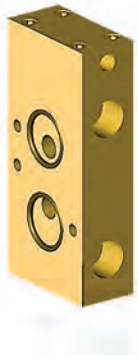
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-10	-10
To	1/2''	12	3000	10	50	50





Drawing 8058





Drawing 8061

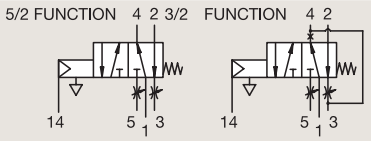
3/2-5/2 3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)

EXTERNALLY OPERATED

ANODIZED ALUMINIUM

NAMUR

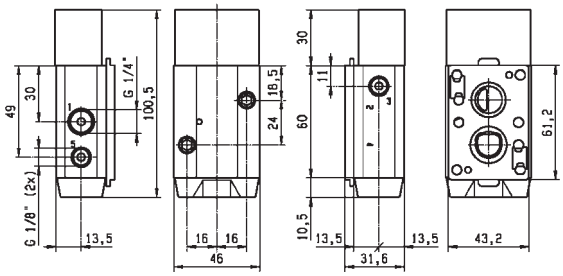
AIR OPERATED - SPRING RETURN



Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/8"-1/4"	4	600	2	10	10	-40	50	NBR	**541N0108**	**-**	**-**	-	-	-	-	-	7309

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8''-1/4''	4	600	10	-40	-40
To	1/8''-1/4''	4	600	10	80	50





Drawing 7309

5/2

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)

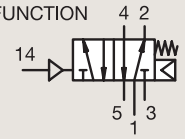
EXTERNALLY OPERATED

ANODIZED ALUMINIUM

NAMUR

AIR OPERATED - SPRING RETURN

5/2 FUNCTION

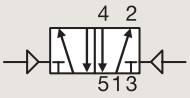


Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	7	1250	2.5	10	10	-10	50	NBR	**541N03**	-	-	-	-	-	-	-	8064
1/2"	12	3000	2.5	10	10	-10	50	NBR	**541N04**	-	-	-	-	-	-	-	8066

ANODIZED ALUMINIUM

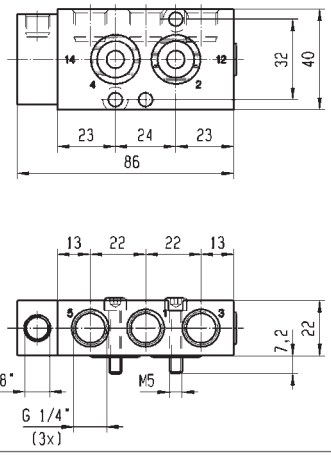
NAMUR

AIR OPERATED AND RETURN



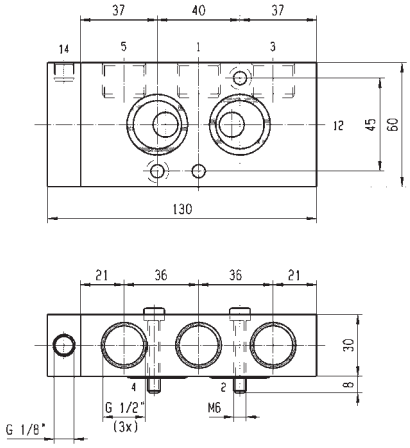
Port size BSP	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4"	7	1250	2.5	10	10	-10	50	NBR	**547N03**	-	-	-	-	-	-	-	8059

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-10	-10
To	1/2''	12	3000	10	50	50



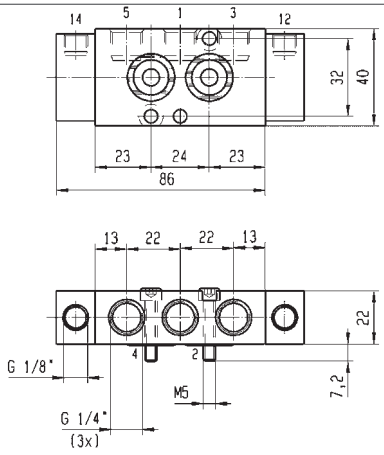


Drawing 8064





Drawing 8066



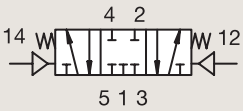


Drawing 8059

5/3

3 & 5 WAY PNEUMATIC VALVES FOR ACTUATOR CONTROL (NAMUR)
EXTERNALLY OPERATED

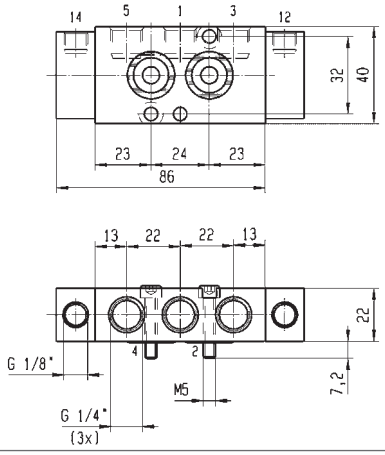
ANODIZED ALUMINIUM
NAMUR



W1 CLOSED CENTER POSITION

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	7	1250	2.5	10	10	-10	50	NBR	**542N03**	**-**	**-**	-	-	-	-	-	8059

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	7	1250	10	-10	-10
To	1/4''	7	1250	10	50	50





Drawing 8059

NOTES



316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)



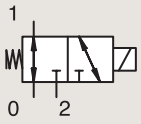
3/2
5/2

Actuation	Body	Function	Port Size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	316L Stainless St./Pipe mounting	Universal	1/4''	2 to 6	680	12	75	338
			3/8''	6	680	10	75	346
	316L Stainless St./Sub-base mounting	Normally Closed	5 mm	2.5	220	12	14	348
		Universal	1/4''	6	680	10	65	348
	316L Stainless St./ NAMUR	Normally Closed	3/8''	6	680	10	75	350
Pilot Operated	316L Stainless St./Pipe mounting	Normally Closed	3/8''	8	1400	10	80	352
	316L Stainless St./Pipe mounting/Spool	Normally Closed	3/8''	8	1400	10	80	352
		Dual Solenoids	3/8''	8	1400	10	80	356
	316L Stainless St./ NAMUR/Spool	Normally Closed	3/8''-1/4''	8	1400	10	80	358
		Solenoid operated - spring return	3/8''-1/4''	8	1400	10	80	360
		Dual Solenoids	3/8''-1/4''	8	1400	10	80	362
Manual Reset	316L Stainless St./Pipe mounting	Universal	1/4''	6	680	10	65	364
			3/8''	6	680	10	65	370

3/2 3 WAY VALVES DIRECT OPERATED

V SERIES - STAINLESS STEEL VALVES FOR PIPE MOUNTING

316L STAINLESS ST.
PIPE MOUNTING



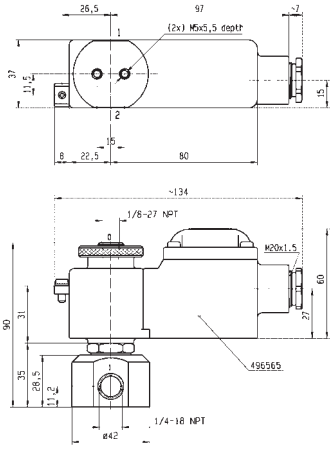
UNIVERSAL

Port size	Orifice Ø	Flow factor			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
					Min			Min	Max										
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4" NPT	2	2.5	0.15	140	0	-	12	-25	65	FKM	U133V5595 [1]	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1	8024
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V5595 [1]	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1	6713
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V5595 [1]	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	8024
	2	2.5	0.15	140	0	-	12	-25	75	FKM	U133V5595 [1]	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1	6713
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V5595 [1]	-	496560	1-21	Ex db mb IIC T4	8	8	9.0/10.1	8024
	2	2.5	0.15	140	0	12	12	-25	50	FKM	U133V5595 [1]	-	496895	-	-	8	8	9.0/10.1	8024
	2	2.5	0.15	140	0	-	12	-25	65	FKM	U133V7595	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.3	8166
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V7595	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.3	8166
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V7595	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.3	8299
	2	2.5	0.15	140	0	12	12	-25	50	FKM	U133V7595	-	496895	-	-	8	8	9.0/10.1/10.3	8166
	2.5	3.5	0.21	220	0	-	8.5	-25	65	FKM	U133V5695 [1]	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1	8024
	2.5	3.5	0.21	220	0	-	8.5	-25	75	FKM	U133V5695 [1]	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1	6713
	2.5	3.5	0.21	220	0	8.5	8.5	-25	75	FKM	U133V5695 [1]	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1	6713
	2.5	3.5	0.21	220	0	8.5	8.5	-25	65	FKM	U133V5695 [1]	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	8024
	2.5	3.5	0.21	220	0	8.5	8.5	-25	65	FKM	U133V5695 [1]	-	496560	1-21	Ex db mb IIC T4	8	8	9.0/10.1	8024
	2.5	3.5	0.21	220	0	8.5	8.5	-25	50	FKM	U133V5695 [1]	-	496895	-	-	8	8	9.0/10.1	8024
	2.5	3.5	0.21	220	0	-	8.5	-25	65	FKM	U133V7695	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.3	8166
	2.5	3.5	0.21	220	0	8.5	8.5	-25	65	FKM	U133V7695	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.3	8166
	2.5	3.5	0.21	220	0	8.5	8.5	-25	65	FKM	U133V7695	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.3	8299
	2.5	3.5	0.21	220	0	8.5	8.5	-25	50	FKM	U133V7695	-	496895	-	-	8	8	9.0/10.1/10.3	8166

Notes:
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

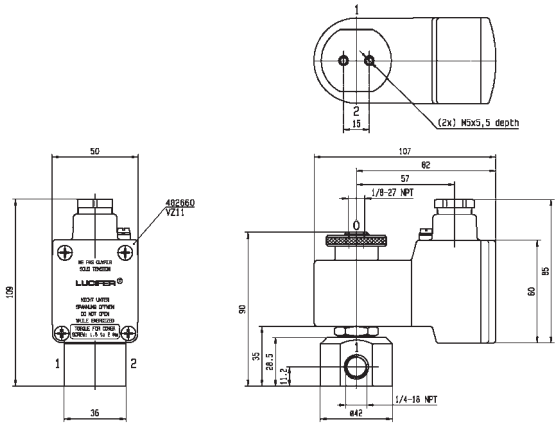
IECEx certified

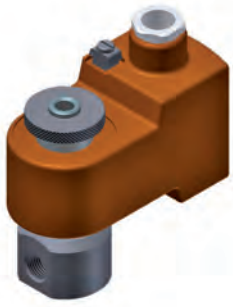
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	2	140	8.5	-25	-25
To	1/4''	2.5	220	12	75	50



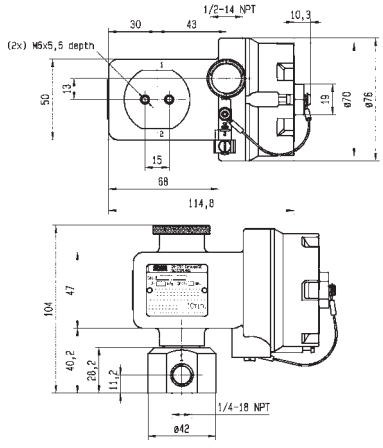


Drawing 8024





Drawing 6713





Drawing 8299

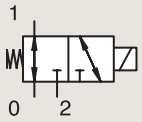
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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

DIRECT OPERATED

316L STAINLESS ST.
PIPE MOUNTING

UNIVERSAL

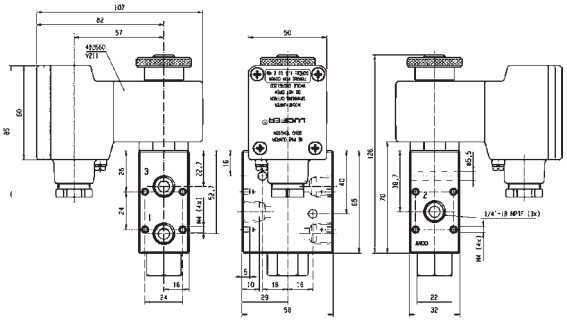


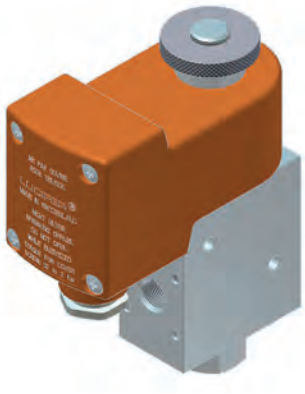
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4" NPTF	6	680	0	-	10	-25	65	NBR	**U133X5156**$_{24}$	-	**492965.01**	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7770
	6	680	0	10	10	-25	65	NBR	**U133X5156**$_{24}$	-	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	7770
	6	680	0	-	10	-25	65	NBR	**U133X5196**$_{2}$	-	**492210**	1-21	Ex e mb II T3 to T6	-	1.8	9.0/10.1/10.2	6904
	6	680	0	-	10	-25	65	NBR	**U133X5196**$_{2}$	-	**492965.01**	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	6904
	6	680	0	10	10	-25	65	NBR	**U133X5196**$_{2}$	-	**496700**	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	6904

Notes:
1.DC voltage only (or coil with rectifier). Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
2.Valve delivered with an individual material traceability certificate (3.1 following EN10204)
3.Valve only compatible with hydraulic oil and air/neutral gases
4.With manual override

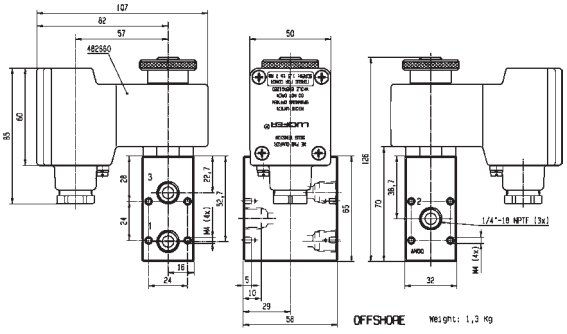
IECEx certified

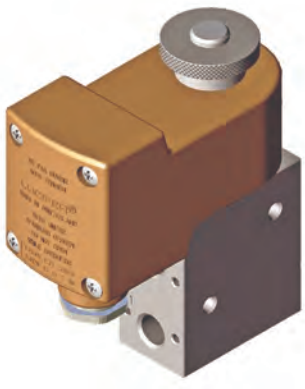
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	1/4''	6	680	10	75	65





Drawing 7770





Drawing 6904

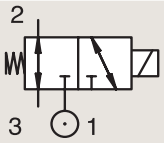
3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

DIRECT OPERATED

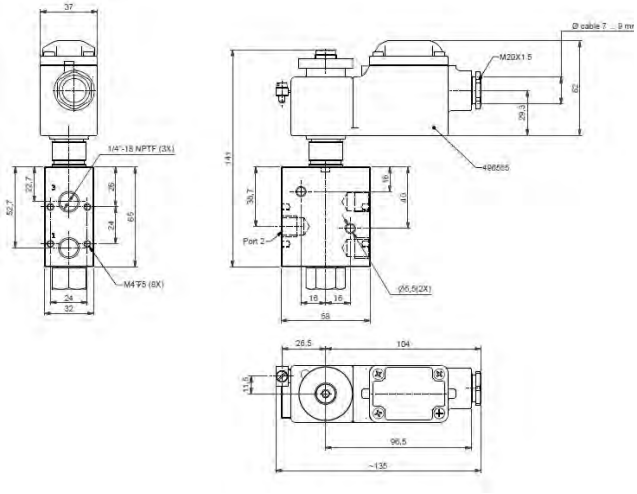
316L STAINLESS ST.
PIPE MOUNTING

UNIVERSAL



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max(MOPD)		Min	Max										
NPT	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	6	680	0	12	12	-40	65	VMQ	U133X7759$_{1-2}$	-	496895	-	-	8	8	9.0; 10.1; 10.2; 10.3	8544
	6	680	0	-	12	-40	65	VMQ	U133X7759$_{1-2}$	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0; 10.1; 10.2; 10.3	8539
	6	680	0	12	12	-40	65	VMQ	U133X7759$_{1-2}$	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0; 10.1; 10.2; 10.3	8537
	6	680	0	12	12	-40	65	VMQ	U133X7759$_{1-2}$	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0; 10.1; 10.2; 10.3	8545
	6	680	0	12	12	-40	65	VMQ	U133X7759$_{1-2}$	-	492310	1-21	Ex mb II T4 to T5	9	8	9.0; 10.1; 10.2; 10.3	8546
	6	680	0	-	12	-40	65	VMQ	U133X7759$_{1-2}$	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1.8	9.0; 10.1; 10.2; 10.3	8546
	6	680	0	12	12	-40	65	VMQ	U133X7709$_{1}$	-	496895	-	-	8	8	9.0; 10.1; 10.2; 10.3	8551
	6	680	0	-	12	-40	65	VMQ	U133X7709$_{1}$	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0; 10.1; 10.2; 10.3	8550
	6	680	0	12	12	-40	65	VMQ	U133X7709$_{1}$	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0; 10.1; 10.2; 10.3	8538
	6	680	0	12	12	-40	65	VMQ	U133X7709$_{1}$	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0; 10.1; 10.2; 10.3	8549
	6	680	0	12	12	-40	65	VMQ	U133X7709$_{1}$	-	492310	1-21	Ex mb II T4 to T5	9	8	9.0; 10.1; 10.2; 10.3	8548
	6	680	0	-	12	-40	65	VMQ	U133X7709$_{1}$	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1.8	9.0; 10.1; 10.2; 10.3	8548

Note:
1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)
2. With manual override

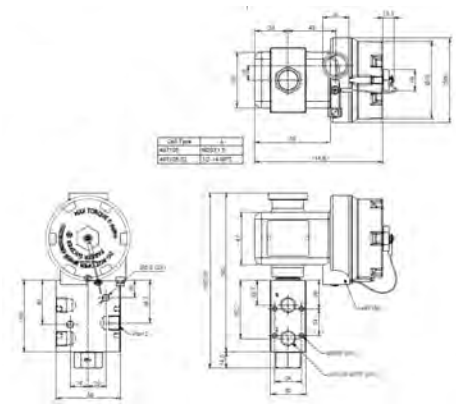




Drawing 8539

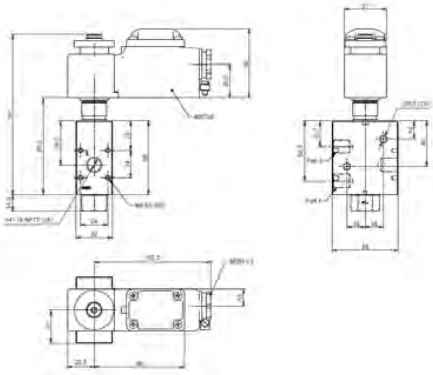
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	12	-25	-25
To	1/4''	6	680	12	65	65



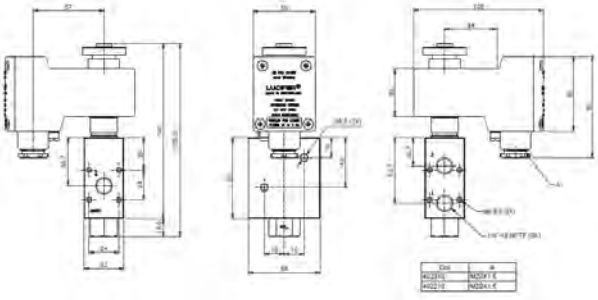


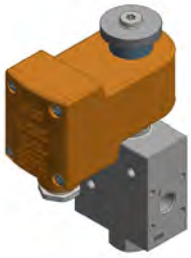
Drawing 8537





Drawing 8545

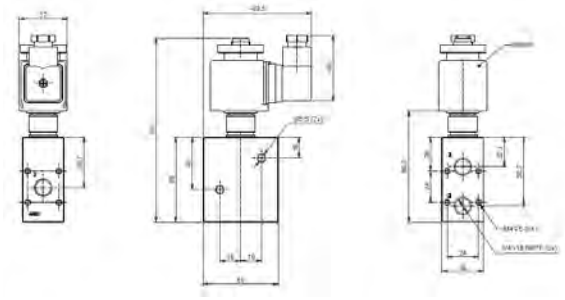




Drawing 8546

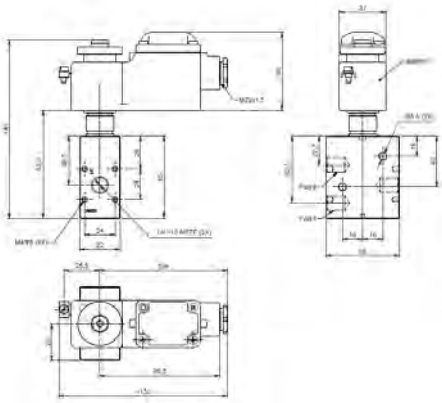
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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)



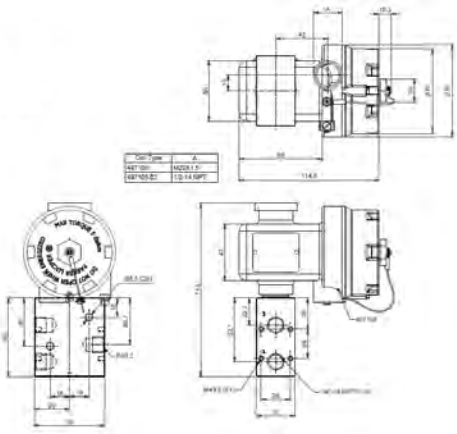


Drawing 8551





Drawing 8550

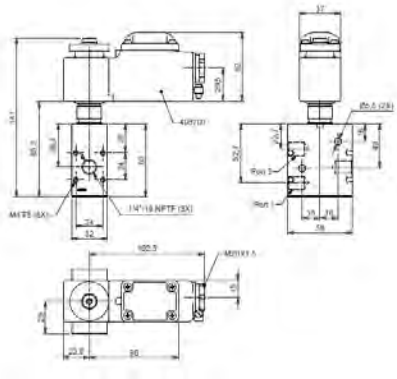




Drawing 8538

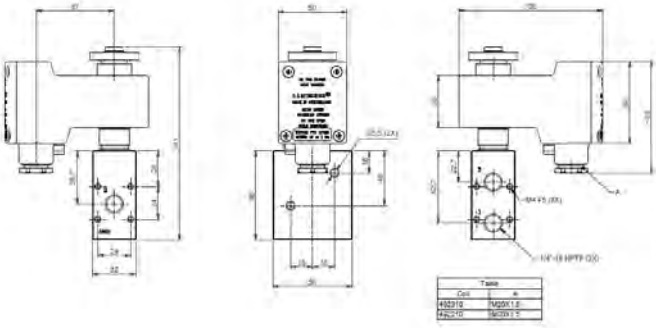
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	1/4''	6	680	10	65	65





Drawing 8549





Drawing 8548

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

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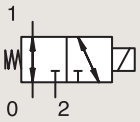
316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

DIRECT OPERATED

316L STAINLESS ST.

PIPE MOUNTING

UNIVERSAL

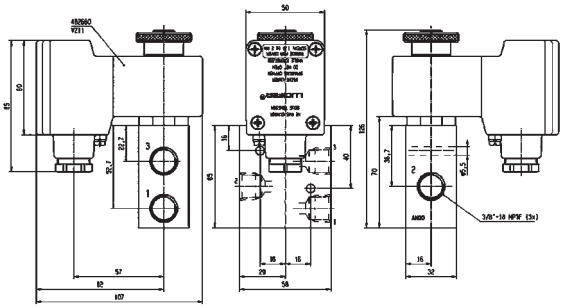


Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
3/8" NPTF	6	680	0	10	10	-25	75	NBR	U133X5296 [1]	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	7669
	6	680	0	-	10	-25	65	NBR	U133X5296 [1]	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7669
	6	680	0	10	10	-25	65	NBR	U133X5296 [1]	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	7669

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)

IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''	6	680	10	-25	-25
To	3/8''	6	680	10	75	65





Drawing 7669

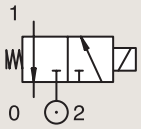
3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

DIRECT OPERATED

316L STAINLESS ST.
SUB-BASE MOUNTING

NORMALLY CLOSED

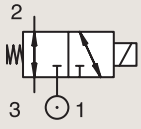


Port size	Orifice Ø	Flow factor			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
					Min	Max (MOPD)		Min	Max										
	mm	Kv l/min	KV m³/h	Qn l'min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
SB	2.5	3.5	0.21	220	0	-	12	-25	75	FKM	U131F5295 [1]	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2	8174
	2.5	3.5	0.21	220	0	12	12	-25	65	FKM	U131F5295 [1]	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2	8174
	2.5	3.5	0.21	220	0	12	12	-25	65	FKM	U131F5295 [1]	-	496560	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2	8174
	2.5	3.5	0.21	220	0	-	12	-25	75	FKM	U131F5295 [1]	-	492210	1-21	Ex eb mb IIC T5 to T6	-	1 to 1.8	9.0/10.1/10.2	8343
	2.5	3.5	0.21	220	0	12	12	-25	75	FKM	U131F5295 [1]	-	492310	1-21	Ex mb II T4 to T5	6	6	9.0/10.1/10.2	8343
	2.5	3.5	0.21	220	0	12	12	-25	50	FKM	U131F5295 [1]	-	496895	-	-	8	8	9.0/10.1/10.2	8174
	2.5	3.5	0.21	220	0	-	12	-25	50	FKM	U131F7695	-	496565	0-20	Ex ia IIB/IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8174
	2.5	3.5	0.21	220	0	12	12	-25	75	FKM	U131F7695	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0/10.1/10.2/10.3	8302
	2.5	3.5	0.21	220	0	12	12	-25	65	FKM	U131F7695	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1/10.2/10.3	8174
	2.5	3.5	0.21	220	0	12	12	-25	50	FKM	U131F7695	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8174

Notes:
1. Valve only compatible with air and neutral gases

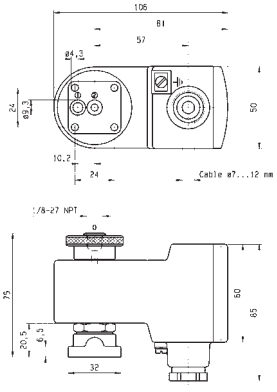
316L STAINLESS ST.
SUB-BASE MOUNTING

UNIVERSAL



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4" NPTF	6	680	0	10	10	-25	65	FKM	U133X5195 [1]	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	3572
	6	680	0	10	10	-25	65	FKM	U133X5195 [1]	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	3572

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)



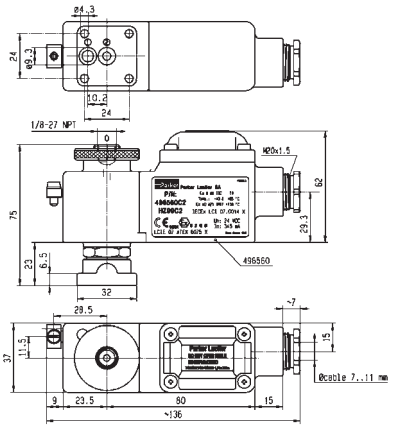


Drawing 8343

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

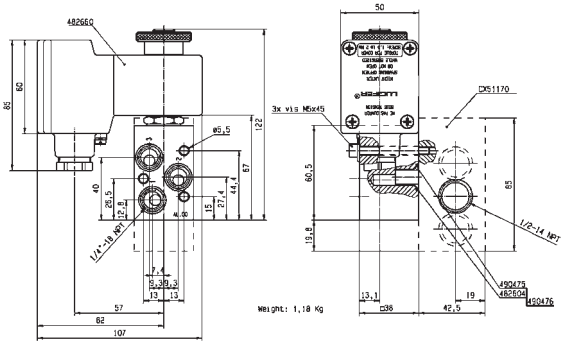
IECEx certified

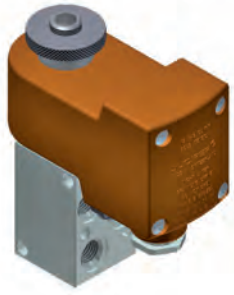
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	SB	2.5	220	10	-25	-25
To	SB	6	680	14	80	50



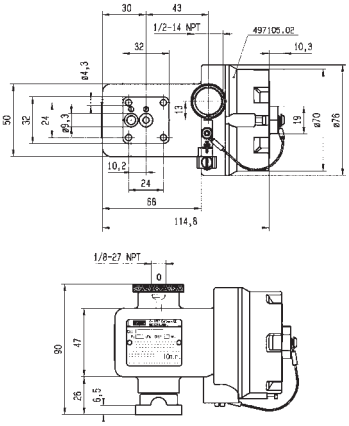


Drawing 8174





Drawing 3572





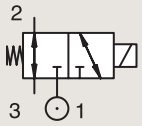
Drawing 8302

3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

DIRECT OPERATED

316L STAINLESS ST.
SUB-BASE MOUNTING

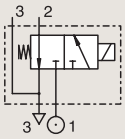


UNIVERSAL

Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4" NPTF	6	680	0	-	10	-25	65	FKM	U133X7195	-	492210	1-21	Ex e mb II T3 to T6	-	1.8	9.0/10.1/10.2	8172
	6	680	0	-	10	-25	65	FKM	U133X7195	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	8172
	6	680	0	10	10	-25	65	FKM	U133X7195	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	8172

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)

316L STAINLESS ST.
NAMUR



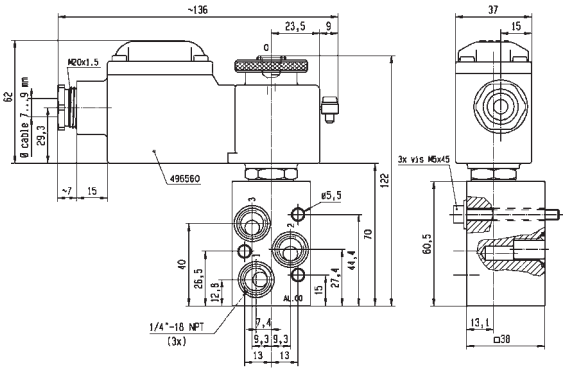
NORMALLY CLOSED

Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
3/8" NPT	6	680	0	10	10	-25	65	NBR	U131X1201$_1$	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	7668
	6	680	0	-	10	-25	75	NBR	U131X1201$_1$	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7668
	6	680	0	10	10	-25	65	NBR	U131X1201$_1$	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	7668

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)

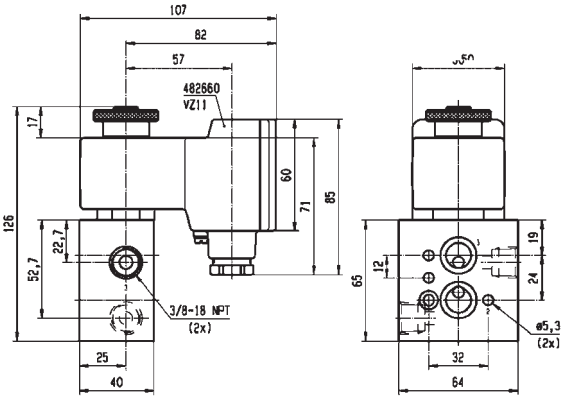
IECEx certified

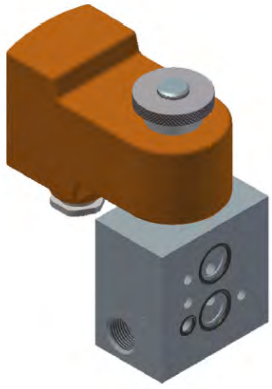
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	3/8''	6	680	10	75	65





Drawing 8172





Drawing 7668

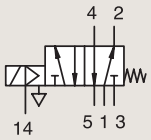
5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

PILOT OPERATED



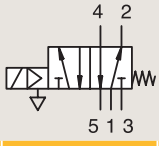
316L STAINLESS ST.
PIPE MOUNTING
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
3/8" NPT	8	1400	2	10	10	-25	80	NBR	U441P3250 $_{12}$	4270	481000	-	-	8	8	2.1	7565
	8	1400	2	10	10	-25	80	NBR	U441P3250 $_{12}$	2995	481865	-	-	8	9	2.1	7565

Notes:
1.Pilot seat in FKM
2.Valve with external pilot pressure minimum 4 bar

316L STAINLESS ST.
PIPE MOUNTING
NORMALLY CLOSED

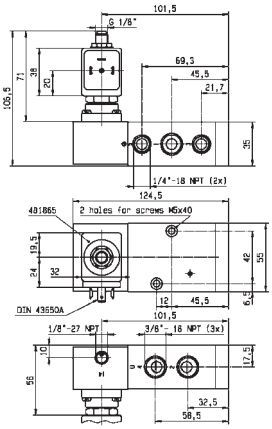


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4" 1/8" NPT	8	1400	2	10	10	-25	80	NBR	U341P0250 $_{123}$	8993	481045	-	-	2	2.5	1.1	7578
	8	1400	2	10	10	-25	80	NBR	U341P0250 $_{123}$	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7578
1/4" 3/8" NPT	8	1400	2	10	10	-25	80	NBR	U341P3250 $_{1}$	4270	481000	-	-	8	8	2.1	7558
	8	1400	2	10	10	-25	80	NBR	U341P3250 $_{1}$	2995	481865	-	-	8	9	2.1	7558
	8	1400	2	10	10	-25	80	NBR	U341P3250 $_{1}$	2995	492453	-	-	8	9	2.1	7558

Notes:
1.Pilot seat in FKM
2.With captured exhaust
3.With manual override

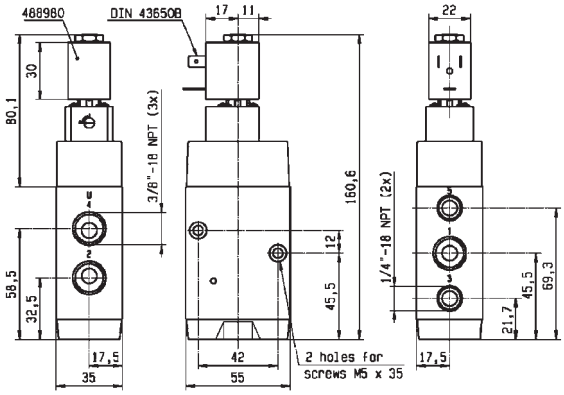
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''	8	1400	10	-25	-25
To	3/8''	8	1400	10	80	50



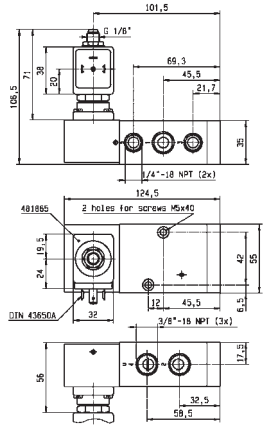


Drawing 7565





Drawing 7578





Drawing 7558

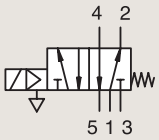
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

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316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

PILOT OPERATED

316L STAINLESS ST.
PIPE MOUNTING



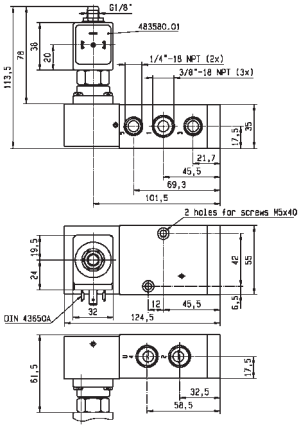
NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
	1													AC	DC		
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							W	W		
3/8" NPT	8	1400	2	-	10	-25	55	NBR	U341P3292 [1]	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7560
	8	1400	2	10	10	-25	75	NBR	U341P3295 [1]	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1	7561
	8	1400	2	-	10	-25	75	NBR	U341P3295 [1]	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	7561

Notes:
1.Pilot seat in FKM

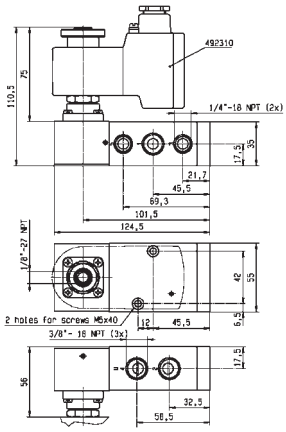
IECEx certified

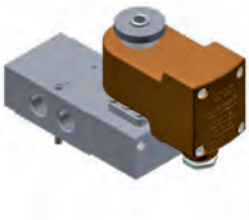
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''	8	1400	10	-25	-25
To	3/8''	8	1400	10	75	50





Drawing 7560





Drawing 7561

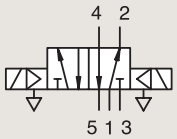
5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

PILOT OPERATED

316L STAINLESS ST.

PIPE MOUNTING



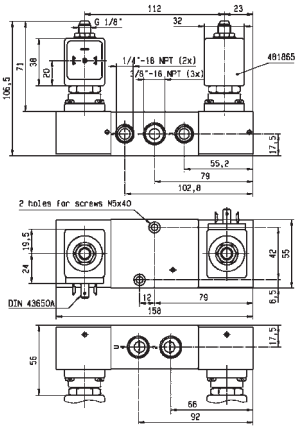
DUAL SOLENOIDS

Port size	Orifice Ø 1 mm	Flow factor Qn l'/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
3/8" NPT	8	1400	2	10	10	-25	80	NBR	U347P3250 [1]	4270	481000	-	-	8	8	2.1	7563
	8	1400	2	10	10	-25	80	NBR	U347P3250 [1]	-	483371	1-21	Ex e mb IIC T4	8	8	2.1	7563
	8	1400	2	10	10	-25	75	NBR	U347P3295 [1]	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1	7564
	8	1400	2	10	10	-25	75	NBR	U347P3295 [1]	-	496800	1-21	Ex d mb IIC T4	8	8	10.1	7564

Notes:
1.Pilot seat in FKM

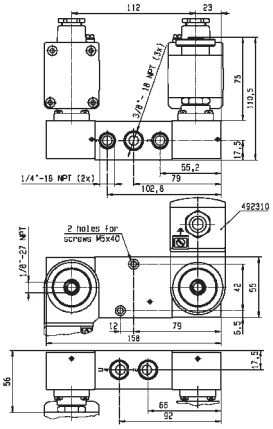
IECEx certified

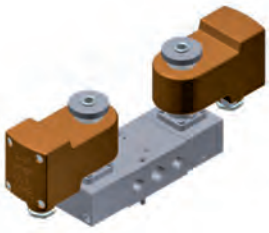
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''	8	1400	10	-25	-25
To	3/8''	8	1400	10	80	50





Drawing 7563





Drawing 7564

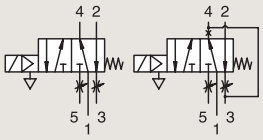
3/2-5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

PILOT OPERATED

316L STAINLESS ST.

NAMUR



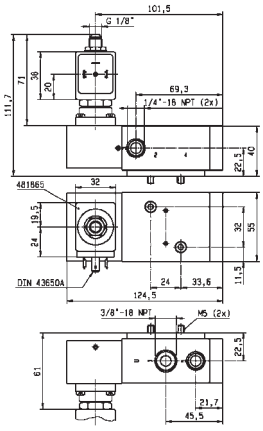
NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
3/8''-1/4'' NPT	8	1400	2	10	10	-25	80	NBR	U341N3250$_1$	2995	481865	-	-	8	9	2.1	7554
	8	1400	2	10	10	-25	80	NBR	U341N3250$_1$	-	492190	1-21	Ex e mb IIC T3/T4	11	9	2.1	7554
	8	1400	2	-	10	-25	55	NBR	U341N3292$_1$	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7556
	8	1400	2	10	10	-25	75	NBR	U341N3295$_1$	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1	7696
	8	1400	2	10	10	-25	75	NBR	U341N3295$_1$	-	496800	1-21	Ex d mb IIC T4	8	8	10.1	7696

Notes:
1.Pilot seat in FKM
2.With captured exhaust
3.With manual override

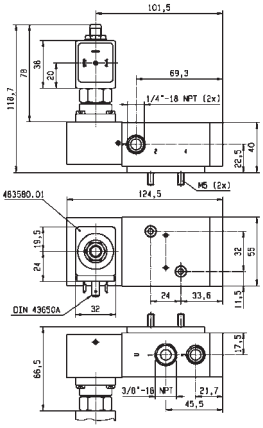
IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''-1/4''	8	1400	10	-25	-25
To	3/8''-1/4''	8	1400	10	80	50



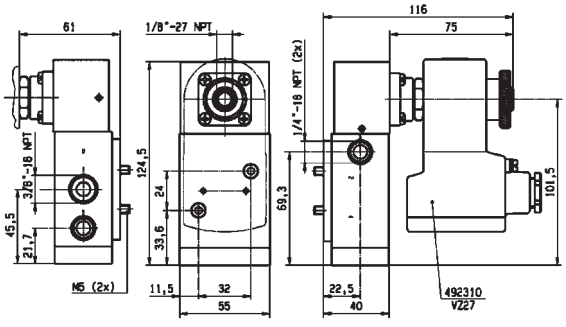


Drawing 7554





Drawing 7556





Drawing 7696

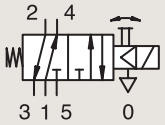
3/2-5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

PILOT OPERATED

316L STAINLESS ST.

NAMUR

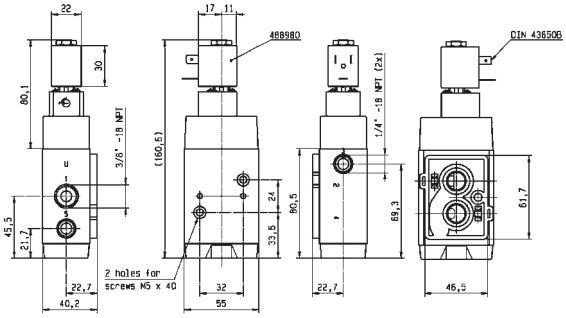


SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
	1																
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
3/8"-1/4"NPT	8	1400	2	10	10	-25	80	NBR	U341N0250 $_{123}$	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7577
	8	1400	2	10	10	-25	80	NBR	U341N0250 $_{123}$	8993	488980	-	-	2	2.5	1.1	7577

Notes:
1.Pilot seat in FKM
2.With captured exhaust
3.With manual override

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''-1/4''	8	1400	10	-25	-25
To	3/8''-1/4''	8	1400	10	80	50





Drawing 7577

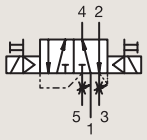
5/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

PILOT OPERATED

316L STAINLESS ST.

NAMUR

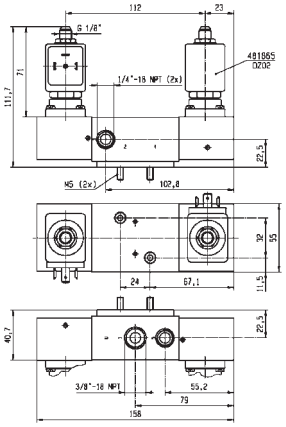


DUAL SOLENOIDS

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max										
	1																
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
3/8''-1/4''NPT	8	1400	2	10	10	-25	80	NBR	U347N3250 [1]	4270	481000	-	-	8	8	2.1	7557
	8	1400	2	10	10	-25	80	NBR	U347N3250 [1]	2995	481865	-	-	8	9	2.1	7557

Notes:
1.Pilot seat in FKM

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''-1/4''	8	1400	10	-25	-25
To	3/8''-1/4''	8	1400	10	80	50





Drawing 7557

3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

MANUAL RESET

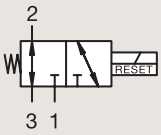


Process

316L STAINLESS ST.

PIPE MOUNTING

UNIVERSAL

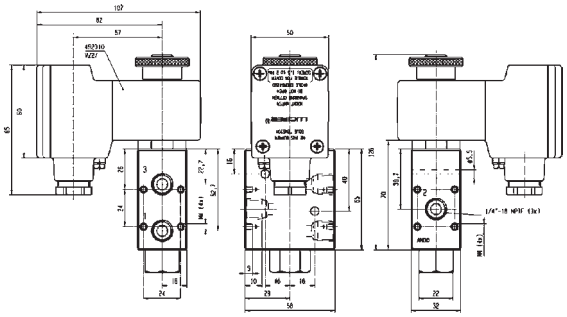


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max										
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4" NPTF	6	680	0	-	10	-25	65	NBR	U033X5156$_{1}$	-	482870.01	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2/12.0	7771
	6	680	0	10	10	-25	65	NBR	U033X5156$_{1}$	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1/10.2/12.0	7771
	6	680	0	-	10	-25	65	NBR	U033X5156$_{1}$	-	492335	0-20	NEMA 4-4X	-	0.3 to 3	10.1/10.2/12.0	7771
	6	680	0	10	10	-25	65	NBR	U033X5156$_{1}$	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2/12.0	7771

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)

IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-25	-25
To	1/4''	6	680	10	65	65





Drawing 7771

3/2

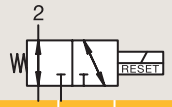
316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

MANUAL RESET

316L STAINLESS ST.

PIPE MOUNTING

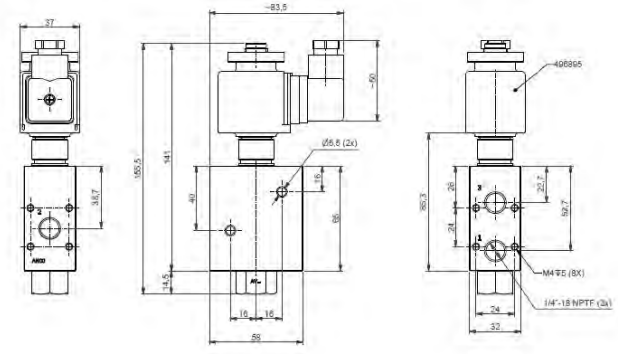
UNIVERSAL - MANUAL RESET



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max(MOPD)		Min	Max										
NPT	mm	Qn l/min	bar	AC bar	DC bar	°C	°C							AC W	DC W		
1/4"	6	680	0	12	12	-40	65	VMQ	U033X7759[1]	-	496895	-	-	8	8	9.0; 10.1; 10.2; 10.3	8544
	6	680	0	12	12	-40	65	VMQ	U033X7759[1]	-	497105	1-21	Ex db IIC T4 to T6	8	8	9.0; 10.1; 10.2; 10.3	8537
	6	680	0	12	12	-40	65	VMQ	U033X7759[1]	-	496700	1-21	Ex db mb IIC T4 to T6	6	6	9.0; 10.1; 10.2; 10.3	8545
	6	680	0	12	12	-40	65	VMQ	U033X7759[1]	-	492310	1-21	Ex mb II T4 to T5	9	8	9.0; 10.1; 10.2; 10.3	8546

Note:

1. Valve delivered with an individual material traceability certificate (3.1 following EN10204)

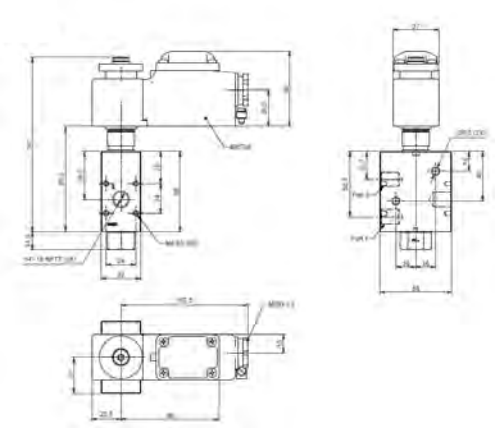




Drawing 8544

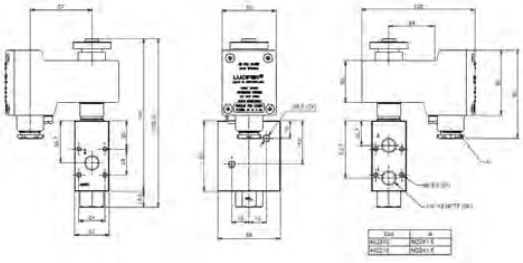
IECEx certified

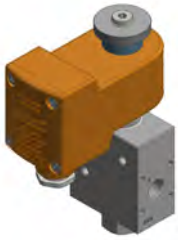
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	680	10	-40	-25
To	1/4''	6	680	10	65	65



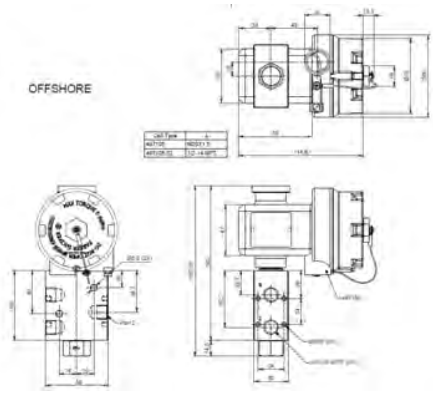


Drawing 8545





Drawing 8546





Drawing 8537

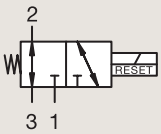
3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

MANUAL RESET

316L STAINLESS ST.
PIPE MOUNTING

UNIVERSAL

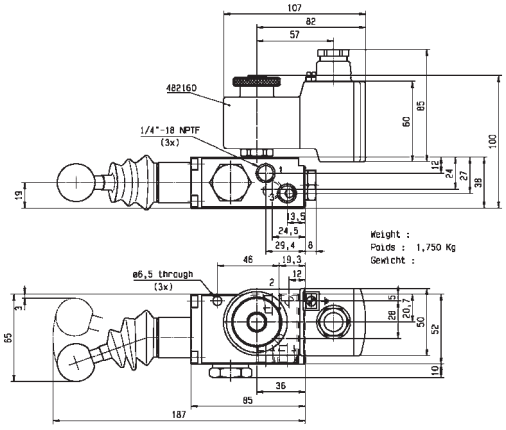


Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
1/4" NPTF	6	560	0	10	10	-25	65	NBR	U033X5195$_{1}$	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1/10.2/12.0	3594
	6	560	0	10	10	-25	65	NBR	U033X5195$_{1}$	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2/12.0	3594

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)

IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/4''	6	560	10	-25	-25
To	1/4''	6	680	10	65	65





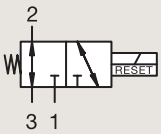
Drawing 3594

3/2

316L STAINLESS STEEL 3 & 5 WAY VALVES FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

MANUAL RESET

316L STAINLESS ST.
PIPE MOUNTING



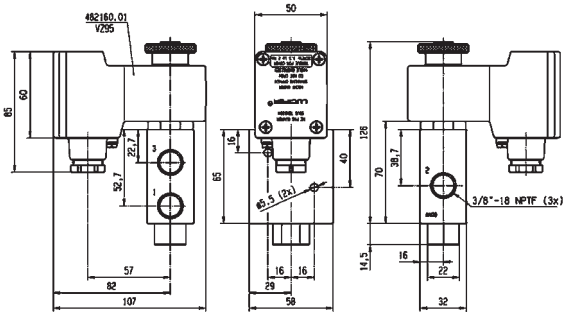
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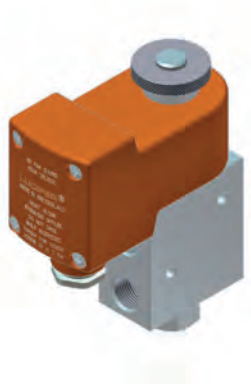
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Fluid Temp. Min °C	Fluid Temp. Max °C	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power AC W	Power DC W	Coil Group	Dwg. No.
3/8'' NPTF	6	680	0	-	10	-25	65	NBR	U033X5256$_1$	-	482870.01	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2/12.0	7671
	6	680	0	10	10	-25	65	NBR	U033X5256$_1$	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1/10.2/12.0	7671
	6	680	0	10	10	-25	65	NBR	U033X5256$_1$	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2/12.0	7671

Notes:
1.Valve delivered with an individual material traceability certificate (3.1 following EN10204)

IECEx certified

For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	3/8''	6	680	10	-25	-25
To	3/8''	6	680	10	65	65





Drawing 7671

NOTES

ELECTROPNEUMATIC PRESSURE REGULATORS





aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

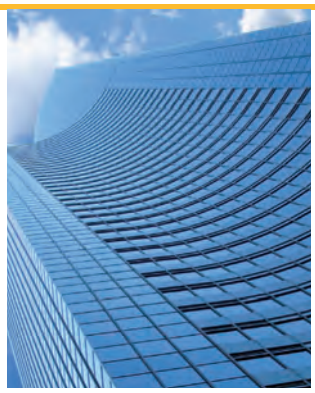
Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" 1" HP 2"
Comfort ATEX	1/2" 1" 2"



Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

ELECTROPNEUMATIC PRESSURE REGULATORS

EPP4 Programmable Pressure Regulator



EPP4 is an electro pneumatic pressure regulator with integrated electronic system.
A pulsed width modulated solenoid valve controls the output pressure proportionally to an analog input signal.
Very high accuracy is guaranteed thanks to a high precision closed loop signal provided by a built in pressure sensor.

Market



Robotics
Paper industry
Machine tools
Mobile
Buildings
Textile
Instrumentation
Semi conductor



Description of Applications

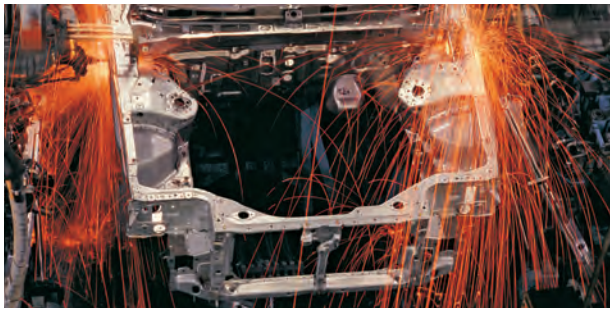
Welding
Speed and brake control
Sanding
Cutting
Humidification
Tension regulation
Painting
Presses
Polishing
Adaptative suspension control



Value Propositions for the EPP4 Range of Proportional Pressure Regulators



- All parameters fully adjustable through the PC software Calys
- Easy to use software
- Long life expectancy
- Compact and light
- Limited inventory
- Low power
- Flexible remote display positioning
- Proven expertise of Parker, a pioneer in pressure regulation technology



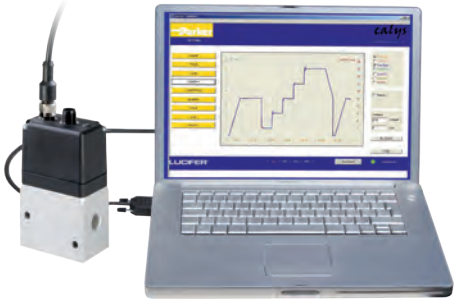
calys Software for EPP Comfort



Calys is a unique software in house developed to configurate all the parameters of the EPP4 Comfort range.
Calys is an option of the EPP4. To use CALYS, you need to order cable reference 496449 wich permits the communication between the EPP4 and a PC.

Calys offers many capabilities:

- It enables distributors to reduce inventory by keeping a generic EPP4 in stock and adjust it to the needs of each customer application. They can switch for example from 0-10 V to 4-20 mA, or from 0-7 bar pressure range to 0-5 bar.
- Engineers designing a pneumatic system are able to monitor precisely all the important values (electrical or pneumatical) directly on their laptop.
- After sales technicians are able to receive via email all the parameters measured by the EPP4 installed on a machine wherever its location allowing remote ma intenance operation.
- PID regulation parameters can be adjusted with Calys to match required regulator response (like slow or reactive).



To download free Calys software click on **www.parker.com**

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

ELECTROPNEUMATIC PRESSURE REGULATORS

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EPP4 Comfort HP Range ..... page 388

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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

INTRODUCTION

Description Operation

The EPP4 Series is a family of electrically remote-controlled pneumatic pressure regulators with closed loop integrated electronic control.

It allows regulating the outlet pressure proportionally to an electrical control signal.
The EPP4 regulator comprises a traditional servo-operated pneumatic pressure regulator, where the pilot chamber is fed y one or the other of two pulse width modulated 2-way solenoid valves.

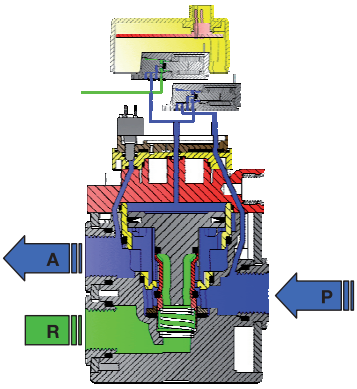
The pressure sensor measures the outlet pressure of the regulator and provides a feedback signal to the controller.
Any difference between the control signal and the feedback signal is converted to a digital signal to energise the coil of one or the other 2-way valves to correct the position of the regulator.

The control signal can be a voltage (0-10 V) or a current (4-20 mA). The inlet of the **"Filling Valve"** is connected directly to the main inlet P of the regulator; when energised this valve will fill the servo-chamber for increasing the pressure at the outlet A of the regulator.

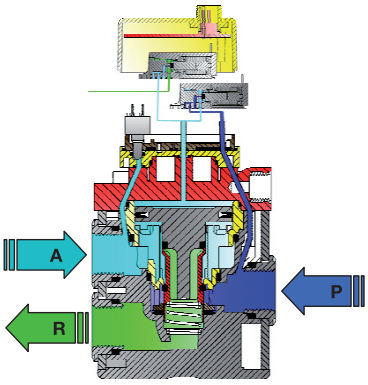
When the other **"exhaust valve"** is energised (reduction of pressure at the outlet A of the regulator), the pressure of the servo-chamber will be exhausted through a discharge orifice located between the cover and the body and directly fed to the atmosphere without silencer.

The exhaust of the main regulated pressure will be made through the quick exhaust R.
The use of a conventional silencer is recommended.
Both solenoid valves assure the Filling or Emptying of the servo-chamber in order to increase or decrease the pressure at the outlet of the regulator.

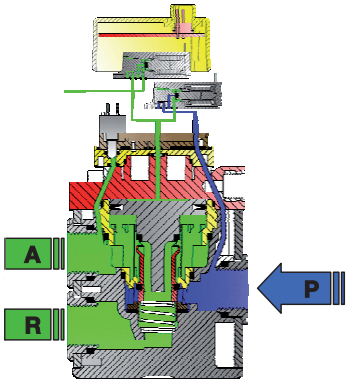
In rest position of the valves all ports are blocked.



Filling positon



Stand by position



Emptying position

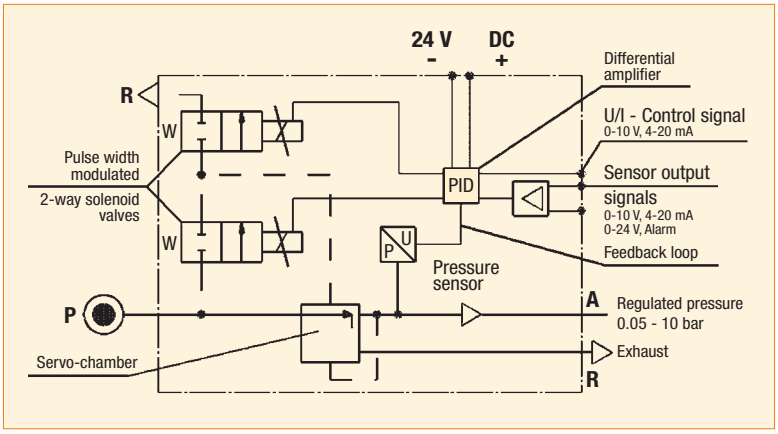
Block Diagram

The controller receives both the control signal (set pressure) and the feedback signal from the sensor (outlet pressure).

Any difference between the two amplifier inputs results in a corresponding output which drives the appropriate 2-way pulse width modulated solenoid valve so that the pilot piston moves to correct the pressure.

The same feedback signal from the sensor is used for the output feedback in voltage and current.

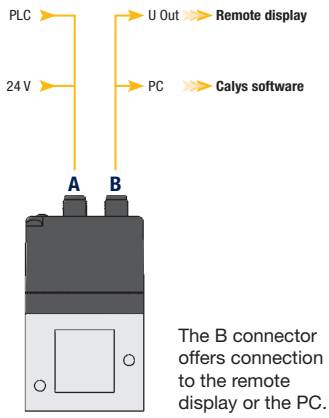
The digital signal (alarm) is activated when the conditions (out of pressure or time tolerance) are met.



EPP4 possible executions : Basic and Comfort

EPP4 Basic and Comfort ranges share the same reliable mechanical parts. Proportional regulation is also identical for the two different executions, giving the same characteristics for hysteresis or precision for instance.

Comfort range regulators have a second M12 connector, that can be used to connect a remote display showing the current regulated pressure, or a PC to easily set the regulation's parameters. These are the key feature options for a comfortable use.



The B connector offers connection to the remote display or the PC.

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EPP4 BASIC 1/4" & 1/2"

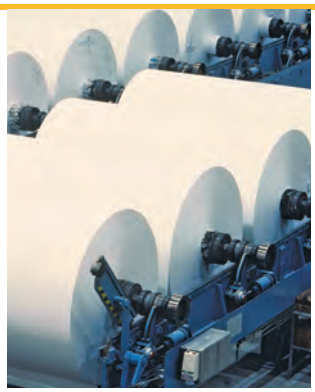
Basic	1/4" 1/2"
Comfort	1/4" 1/2"
Comfort	1/2" HP 1" 2"
Comfort ATEX	1/2" 1" 2"

TECHNICAL DATA

	Basic 1/4"	Basic 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases Recommended fi ltration: 50 µm	
Temperature range:	**Ambient:** 0°C to +50°C **Fluid:** 0°C to +50°C	
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 12 bar	1 to 12 bar
Outlet pressure range:	0.05 to 10 bar	
Hysteresis:	± 50 mbar (factory set up)	
Air consumption at constant control signal:	0	
Supply voltage:	24 V DC ± 15% (Max. ripple 1 V)	
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA	
Max. flow: **Indicative response time:** With a volume of 330 cm^3 at the outlet of the regulator	70 m^3/h	150 m^3/h
Filling 2 to 4 bar: **Filling 2 to 8 bar:** **Emptying 4 to 2 bar:** **Emptying 8 to 2 bar:**	50 msec 100 msec 70 msec 130 msec	60 msec 120 msec 90 msec 190 msec
Safety position:	In case of control signal failure or if it is less than 50mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 4 pin; 4 x 0.34 mm^2	
Life expectancy:	> 50 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP 65	
Assembly:	Silicone free	
Electromagnetic compatibility: **In accordance with:**	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 EN 61000-6-4: 2001	
Installation and setting instructions:	See our "Notice 408038, 408014" and appendix supplied with the product.	

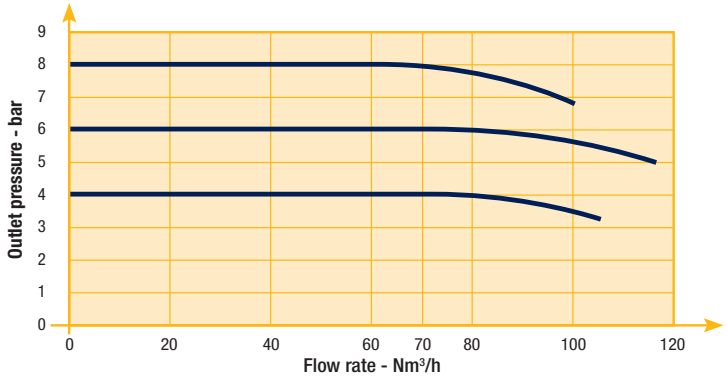
Note: Parker reserves the right to change specifications without notification.

EPP4 BASIC 1/4" & 1/2"

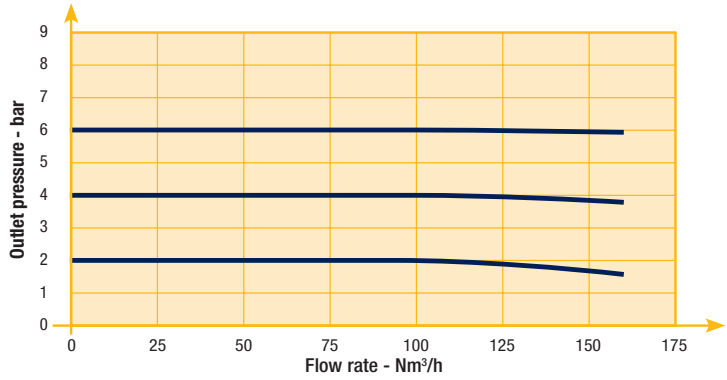


FLOW CURVES

Flow Curve Basic 1/4"



Flow Curve Basic 1/2"



Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

EPP4 BASIC 1/4" & 1/2"

REFERENCES

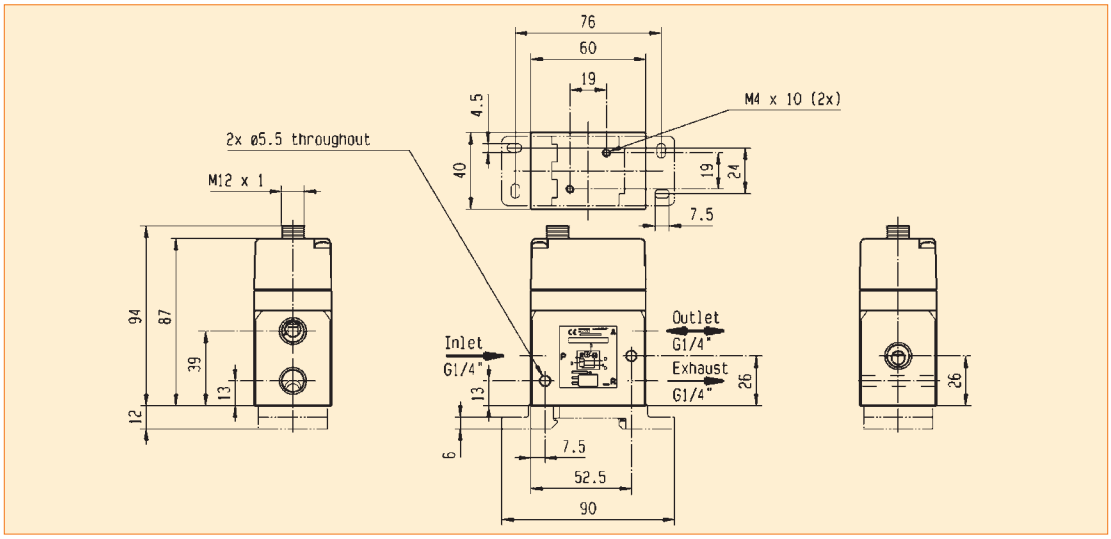
Codes	Pipe	Pressure Range (bar)		Control Signal (see options)	Drawing Number
P4BG2001A001	G 1/4''	0	4 bar	4 - 20 mA	1
P4BG2001A002	G 1/4"	0	10 bar	0 - 10 V	1
P4BG2001A003	G 1/4"	0	10 bar	4 - 20 mA	1
P4BG2001A004	G 1/4"	0	6 bar	0 - 10 V	1
P4BG2001A005	G 1/4"	0	6 bar	4 - 20 mA	1
P4BG2001A006	G 1/4"	0	5 bar	0 - 10 V	1
P4BG2001A007	G 1/4"	0	5 bar	4 - 20 mA	1
P4BG2001A008	G 1/4"	0	7 bar	0 - 10 V	1
P4BG2001A009	G 1/4"	0	7 bar	4 - 20 mA	1
P4BG2003A002 *	G 1/4''	0	10 bar	0 - 10 V	1
P4BG2003A003 *	G 1/4''	0	10 bar	4 - 20 mA	1
P4BG4001A002	G 1/2"	0	10 bar	0 - 10 V	2
P4BG4001A003	G 1/2"	0	10 bar	4 - 20 mA	2
P4BG4001A004	G 1/2"	0	6 bar	0 - 10 V	2
P4BG4001A005	G 1/2"	0	6 bar	4 - 20 mA	2
P4BG4001A006	G 1/2''	0	5 bar	0 - 10 V	2
P4BG4001A007	G 1/2''	0	5 bar	4 - 20 mA	2
P4BG4001A008	G 1/2"	0	7 bar	0 - 10 V	2
P4BG4001A009	G 1/2"	0	7 bar	4 - 20 mA	2
P4BG4004A010 ***	G 1/2''	0	4 bar	0 - 10 V	2
P4BG4051A002 **	G 1/2''	0	10 bar	4 - 20 mA	2
P4BN2001A002	NPT 1/4''	0	10 bar	0 - 10 V	2
P4BN2001A003	NPT 1/4''	0	10 bar	4 - 20 mA	2
P4BN4001A002	NPT 1/2''	0	10 bar	0 - 10 V	2
P4BN4001A003	NPT 1/2''	0	10 bar	4 - 20 mA	2

* Integrated pilot exhaust
** O2
*** External pressure supply



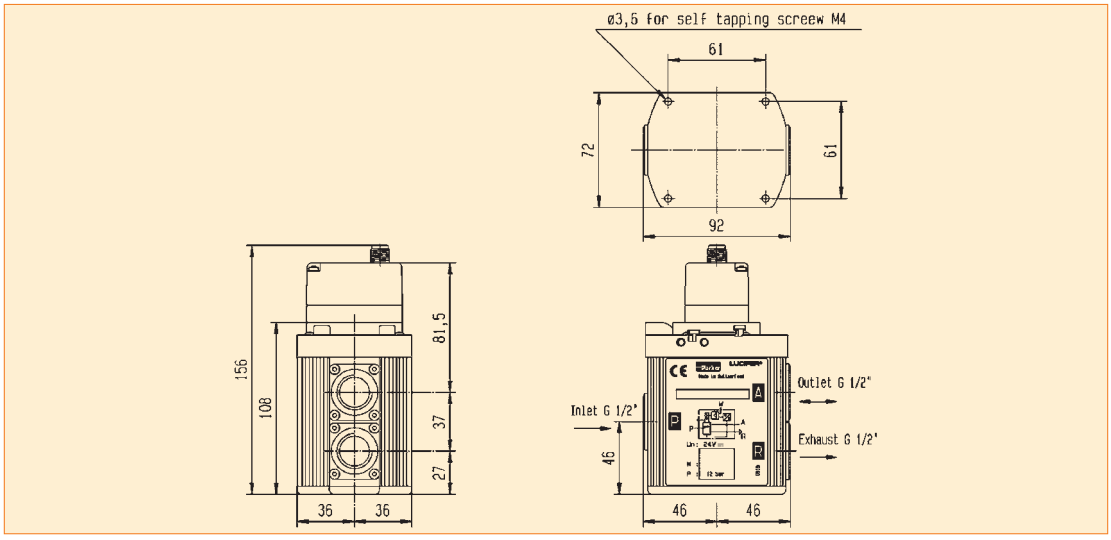
EPP4 BASIC 1/4" & 1/2"

DIMENSIONS DRAWINGS EPP4 BASIC 1/4"



Drawing 1

DIMENSIONS DRAWINGS EPP4 BASIC 1/2"



Drawing 2

EPP4 COMFORT 1/4" & 1/2"



TECHNICAL DATA

	Comfort 1/4"	Comfort 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended fi ltration: 50 µm	
Temperature range:	**Ambient:** 0°C to +50 °C **Fluid:** 0°C to +50 °C	
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 12 bar	1 to 12 bar
Outlet pressure range:	0.05 bis 10 bar	
Hysteresis:	± 50 mbar (factory set up)	
Air consumption at constant control signal:	0	
Supply voltage:	24 V DC ± 15 % (Max. ripple 1 V)	
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA	
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable	Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)
Max. flow:	70 m^3/h	150 m^3/h
Indicative response time:	With a volume of 330 cm^3 at the outlet of the regulator	
Filling 2 to 4 bar : Filling 2 to 8 bar: Emptying 4 to 2 bar: Emptying 8 to 2 bar:	50 msec 100 msec 70 msec 130 msec	60 msec 120 msec 90 msec 190 msec
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication	
Life expectancy:	> 50 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP 65	
Assembly:	Silicone free	
Electromagnetic compatibility: **In accordance with:**	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001	
Installation and setting instructions:	See our "Notice 408128, 408134" and appendix supplied with the product.	

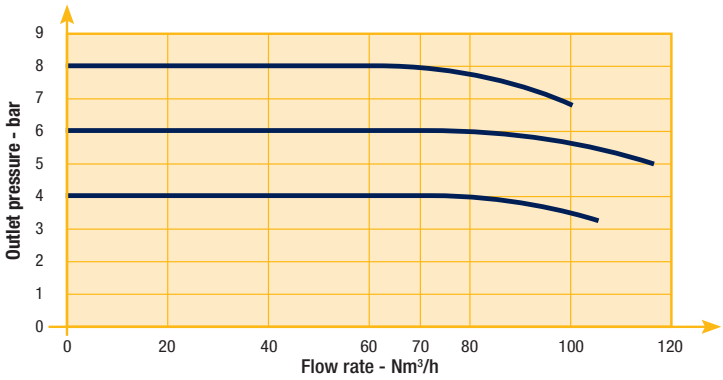
Note: Parker reserves the right to change specifications without notification.

EPP4 COMFORT 1/4" & 1/2"

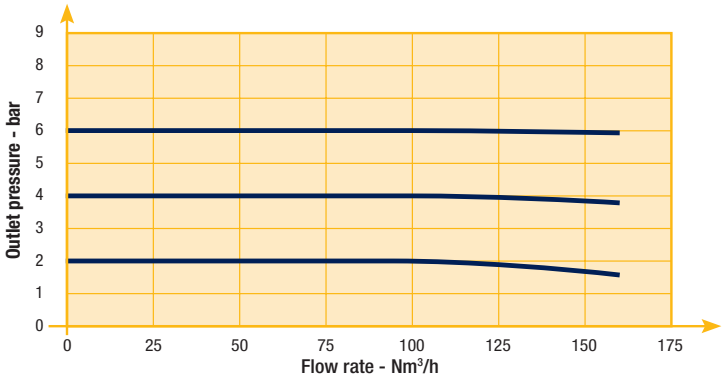


Flow Curves

Flow Curve 1/4"



Flow Curve 1/2"



EPP4 COMFORT1/4" & 1/2"

REFERENCES

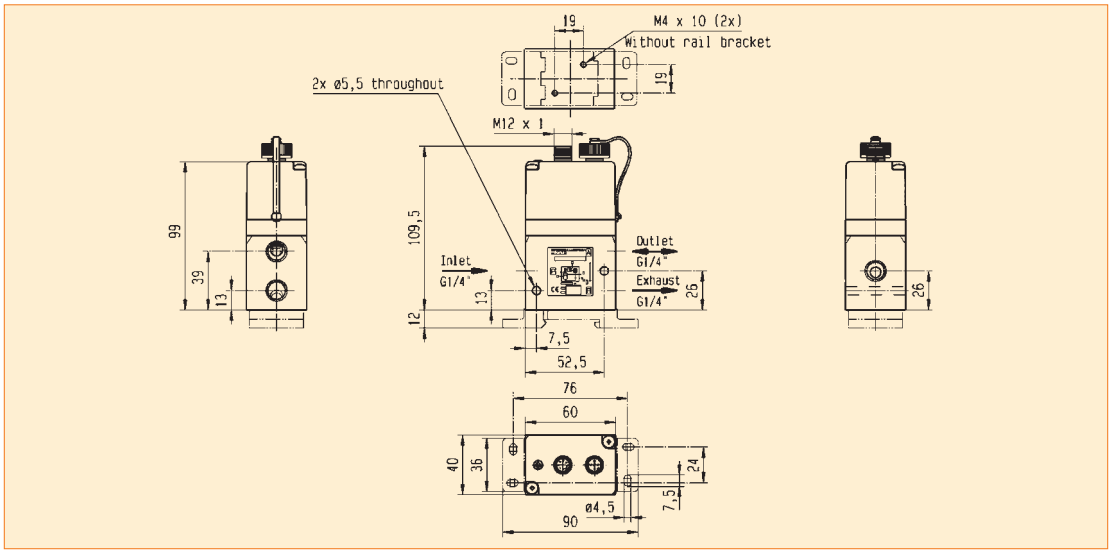
Codes	Pipe	Pressure Range (bar)		Control Signal (see options)	Display	Drawing Number
P4CG2001C001	G 1/4	0	10	0-10 V	-	3
P4CG2001C002	G 1/4	0	10	4-20 mA	-	3
P4CG2001C005	G 1/4	0	7	0-10 V	-	3
P4CG2001C006	G 1/4	0	7	4-20 mA	-	3
P4CG2002C001	G 1/4	0	10	0-10 V	included	3
P4CG2002C002	G 1/4	0	10	4-20 mA	included	3
P4CG2003C001 *	G 1/4	0	10	0-10 V	-	3
P4CG2003C002 *	G 1/4	0	10	4-20 mA	-	3
P4CG2002C007	G 1/4	0	7	0-10 V	-	3
P4CG2002C008	G 1/4	0	7	4-20 mA	-	3
P4CN2001C001	1/4 NPT	0	10	0-10 V	-	3
P4CN2001C002	1/4 NPT	0	10	4-20 mA	-	3
P4CN2002C001	1/4 NPT	0	10	0-10 V	included	3
P4CN2002C002	1/4 NPT	0	10	4-20 mA	included	3
P4CG4001C001	G 1/2	0	10	0-10 V	-	4
P4CG4001C002	G 1/2	0	10	4-20 mA	-	4
P4CG4001C005	G 1/2	0	7	0-10 V	-	4
P4CG4001C006	G 1/2	0	7	4-20 mA	-	4
P4CG4002C001	G 1/2	0	10	0-10 V	included	4
P4CG4002C002	G 1/2	0	10	4-20 mA	included	4
P4CG4002C005	G 1/2	0	7	0-10 V	-	4
P4CG4002C006	G 1/2	0	7	4-20 mA	-	4
P4CG4051C001 **	G 1/2	0	10	0-10 V	-	4
P4CG4051C002 **	G 1/2	0	10	4-20 mA	-	4
P4CN4001C001	1/2 NPT	0	10	0-10 V	-	4
P4CN4001C002	1/2 NPT	0	10	4-20 mA	-	4
P4CN4002C001	1/2 NPT	0	10	0-10 V	included	4
P4CN4002C002	1/2 NPT	0	10	4-20 mA	included	4

* Integrated pilot exhaust
** O2



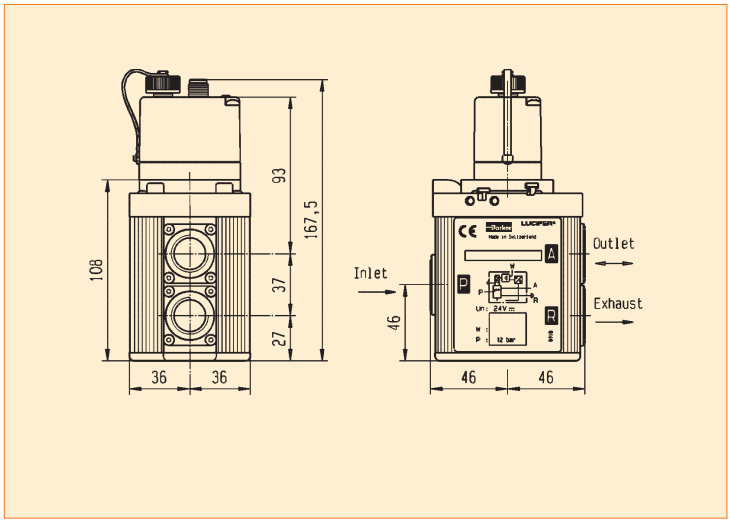
EPP4 COMFORT 1/4" & 1/2"

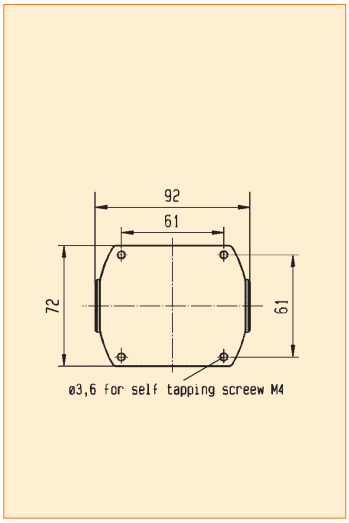
DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1/4"



Drawing 3

DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1/2"





Drawing 4

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

EPP4 COMFORT 1/2"HP, 1" & 2"

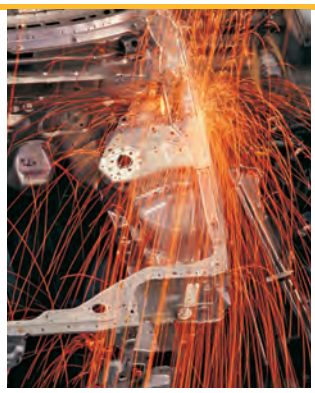


TECHNICAL DATA

	Comfort 1/2" HP	Comfort 1"	Comfort 2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended fi ltration: 50 µm		
Temperature range:	**Ambient:** 0°C to +50°C **Fluid:** 0°C to +50°C		
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 21 bar	1 to 21 bar	1 to 12 bar
Outlet pressure range:	0.05 to 20 bar	0.05 to 20 bar	0.05 to 10 bar
Hysteresis:	≤ 100 mbar if P inlet ≤ 10 bar ≤ 200 mbar if P inlet > 10 bar		
Air consumption at constant control signal:	**0**		
Supply voltage:	**24V DC** ± 15%		
Power consumption:	Max. 6 W with 24 V DC and constant changes of thecontrol signal < 2 W without change of control signal		
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA		
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable		Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)
Max. flow:	150 m^3/h	1 000 m^3/h	2 700 m^3/h
Indicative response time: Filling 2 to 8 bar: Emptying 8 to 2 bar:	With a volume of 330 cm^3 at the outlet of the regulator 120 msec 190 msec	250 msec 400 msec	250 msec 400 msec
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10 bar, 100 mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.		
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication		
Life expectancy:	> 20 Million changes of control signal steps		
Mounting position:	Indifferent (recommended position: upright; electronic part on top)		
Resistance to vibrations:	30 g in all directions		
Degree of protection:	IP 65		
Assembly:	Silicone free		
Electromagnetic compatibility: **In accordance with:**	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001		
Installation and setting instructions:	See our "408 193" and appendix supplied with the product.		

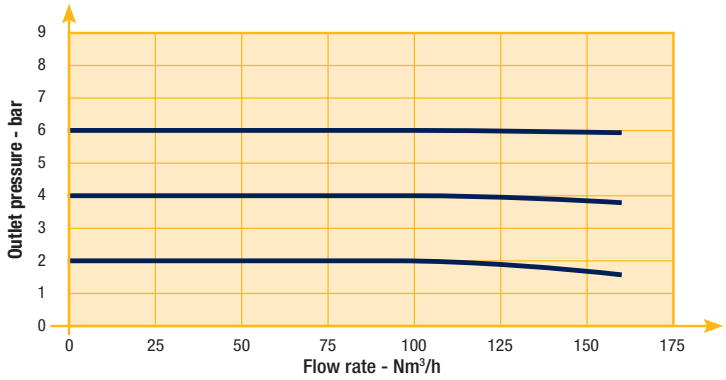
Note: Parker reserves the right to change specifications without notification.

EPP4 COMFORT 1/2"HP, 1" & 2"

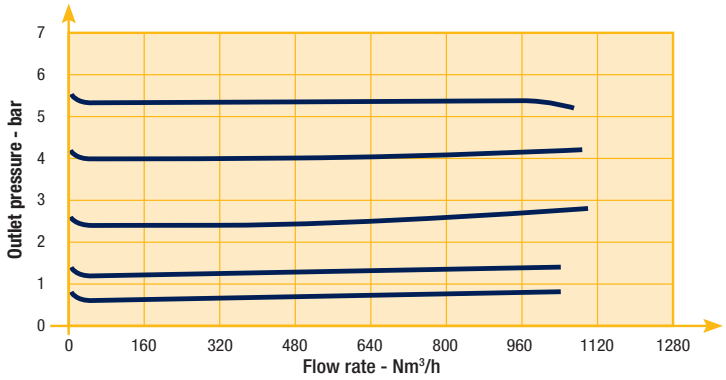


FLOW CURVES

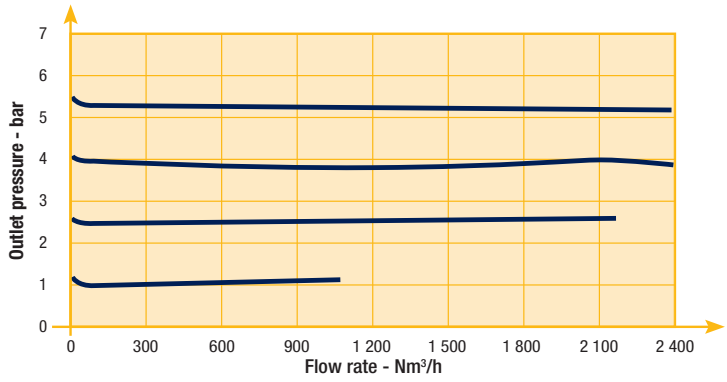
Flow Curve 1/2"HP



Flow Curve 1"



Flow Curve 2"



EPP4 COMFORT 1/2"HP

REFERENCES

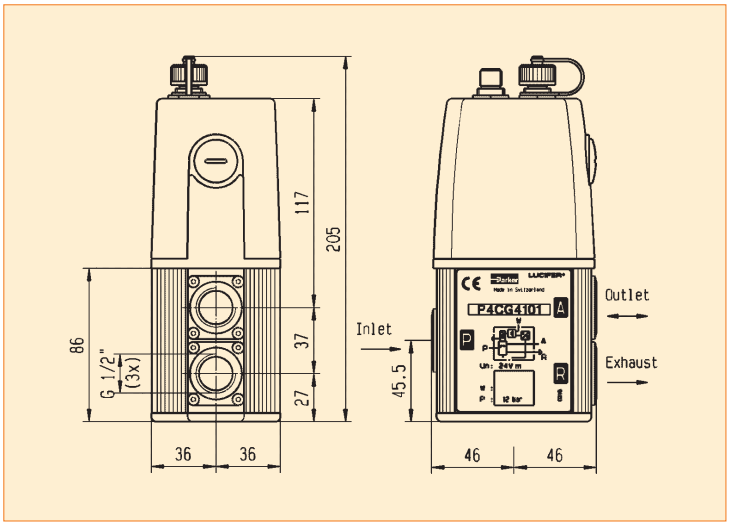
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG4101D001	G1/2	15	0	12	0-10 V	5
P4CG4201D005	G1/2	21	0	16	0-10 V	6
P4CG4201D003	G1/2	21	0	20	0-10 V	6
P4CG4201D004	G1/2	21	0	20	4-20 mA	6

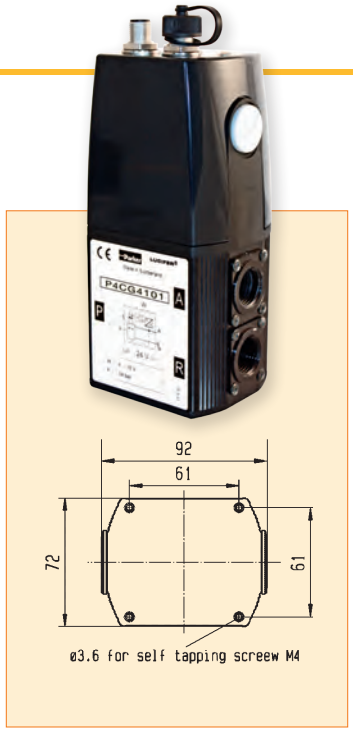
Other specific settings or specialties are available, please contact us.



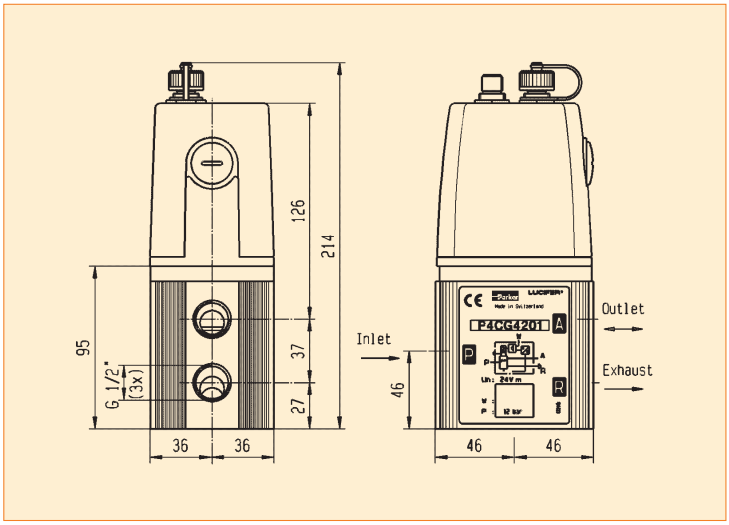
EPP4 COMFORT 1/2"HP

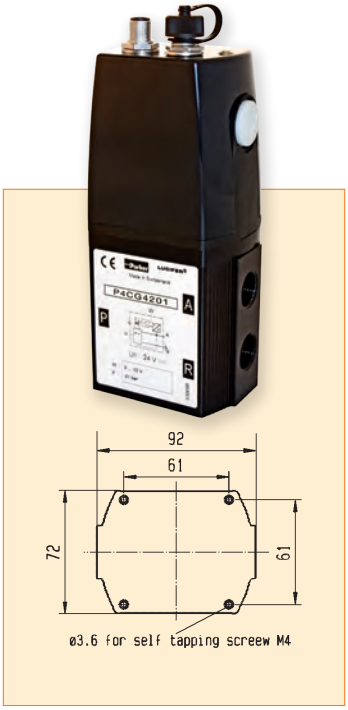
DIMENSIONS DRAWINGS





Drawing 5





Drawing 6

EPP4 COMFORT 1" & 2"

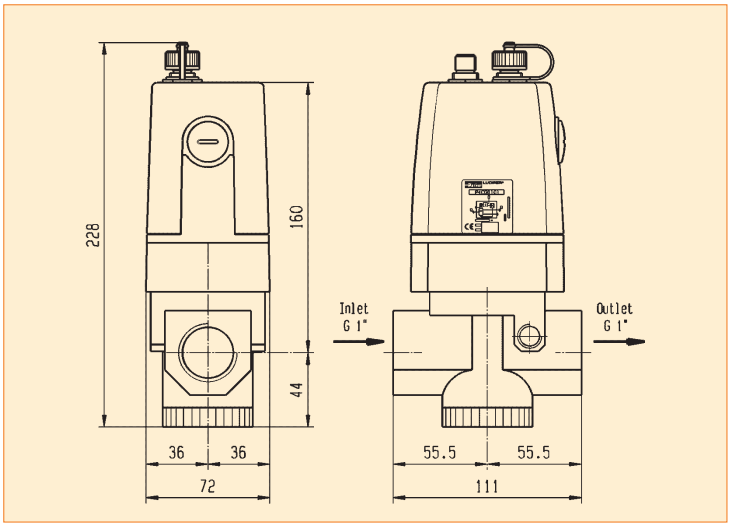
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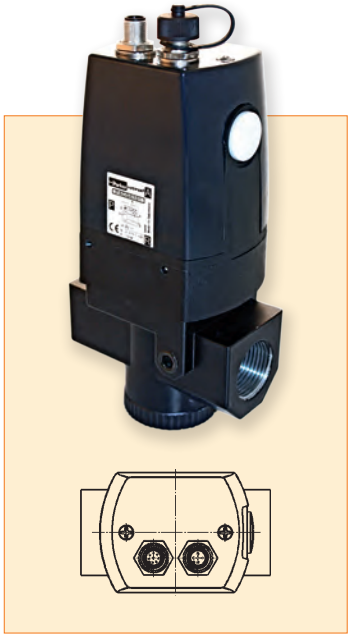
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG6101C009	G1	12	0	3.5	4-20 mA	7
P4CG6101C011	G1	12	0	5.0	0-10 V	7
P4CG6101C010	G1	12	0	6.0	4-20 mA	7
P4CG6101C001	G1	12	0	10	0-10 V	7
P4CG6101C002	G1	12	0	10	4-20 mA	7
P4CG6201D001	G1	21	0	12	0-10 V	7
P4CG6201D003	G1	21	0	20	0-10 V	7
P4CG9101C012	G2	12	0	4.0	4-20 mA	8
P4CG9101C010	G2	12	0	6.0	4-20 mA	8
P4CG9101C001	G2	12	0	10	0-10 V	8
P4CG9101C002	G2	12	0	10	4-20 mA	8

Other specific settings or specialties are available, please contact us.

EPP4 COMFORT 1" & 2"

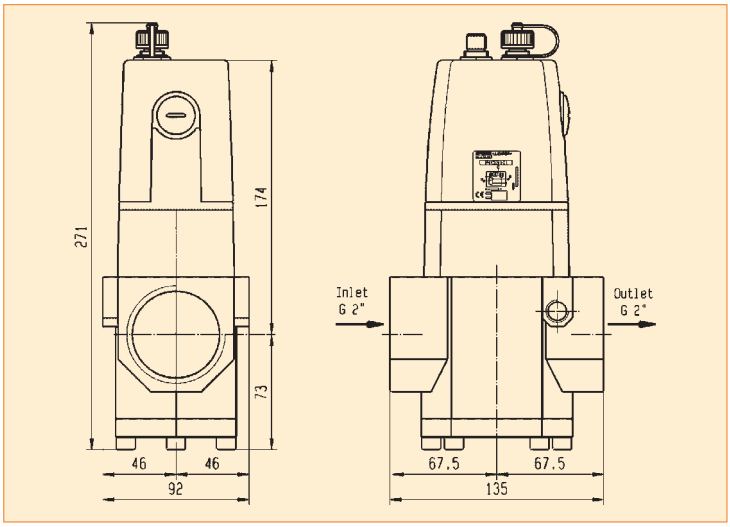
DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1"





Drawing 7

DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 2"

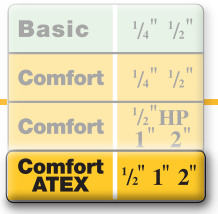




Drawing 8

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

EPP4 COMFORT 1/2", 1" & 2" ATEX



TECHNICAL DATA

	Comfort 1/2" ATEX	Comfort 1" ATEX	Comfort 2" ATEX
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended fi ltration: 50 µm		
Temperature range:	**Ambient:** 0°C to +50°C **Fluid:** 0°C to +50°C		
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	Inlet pressure range: 1 to 12 bar		
Outlet pressure range:	Outlet pressure range: 0.05 to 10 bar		
Hysteresis:	≤ 100 mbar		
Air consumption at constant control signal:	**0**		
ATEX certification:	Ex II 3 G/D Ex nA IIC T4 Gc Ex tc IIIB T130°C Dc		
Supply voltage:	**24V DC** ± 15 %		
Power consumption:	Max. 6 W with 24 V DC and constant changes of thecontrol signal < 2 W without change of control signal		
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA		
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable	Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)	
Max. flow:	150 m^3/h	1 000 m^3/h	2 700 m^3/h
Indicative response time:	With a volume of 330 cm^3 at the outlet of the regulator		
Filling 2 to 8 bar: Emptying 8 to 2 bar:	120 msec 190 msec	250 msec 400 msce	250 msec 400 msec
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10 bar, 100 mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.		
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication		
Life expectancy:	> 20 Million changes of control signal steps		
Mounting position:	Indifferent (recommended position: upright; electronic part on top)		
Resistance to vibrations:	30 g in all directions		
Degree of protection:	IP 54		
Assembly:	Silicone free		
Electromagnetic compatibility: **In accordance with:**	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001		
Installation and setting instructions:	See our "408 283" and appendix supplied with the product.		

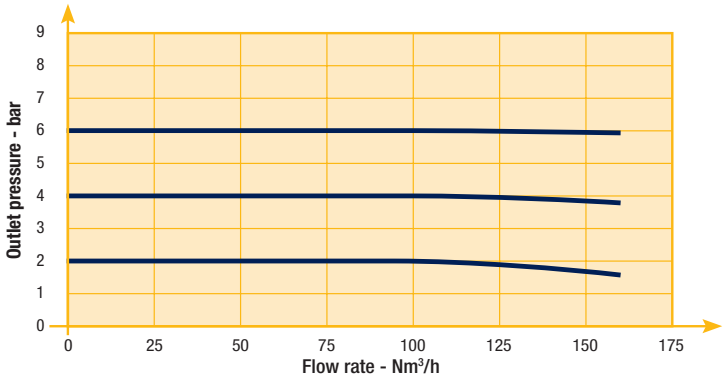
Note: Parker reserves the right to change specifications without notification.

EPP4 COMFORT 1/2", 1" & 2" ATEX

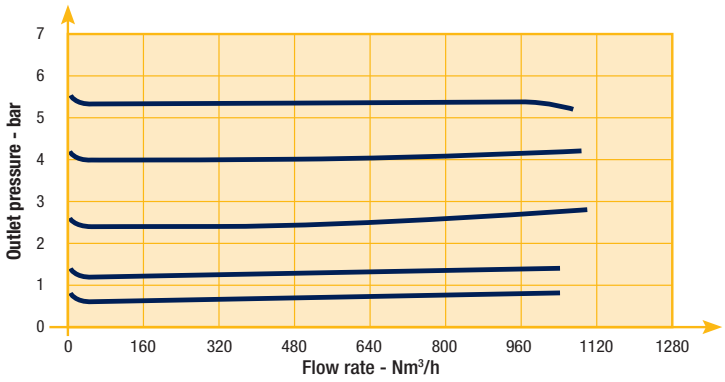


FLOW CURVES

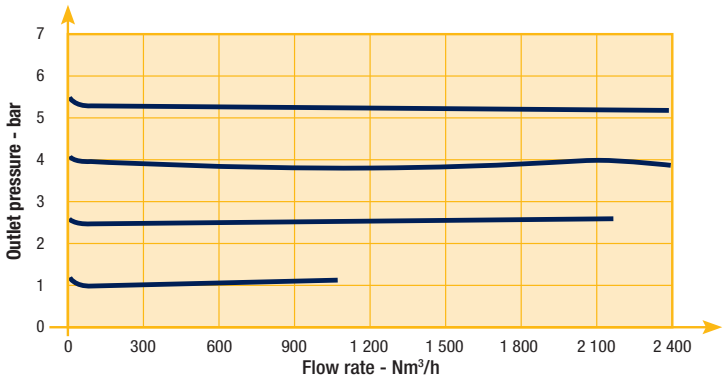
Flow Curve 1/2"



Flow Curve 1"



Flow Curve 2"



EPP4 COMFORT 1/2" ATEX

REFERENCES

Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG4461C001	G1/2	12	0	10	0-10 V	9
P4CG4461C002	G1/2	12	0	10	4-20 mA	9
P4CG4465C001 **	G1/2	12	0	10	0-10 V	9
P4CG4465C002 **	G1/2	12	0	10	4-20 mA	9

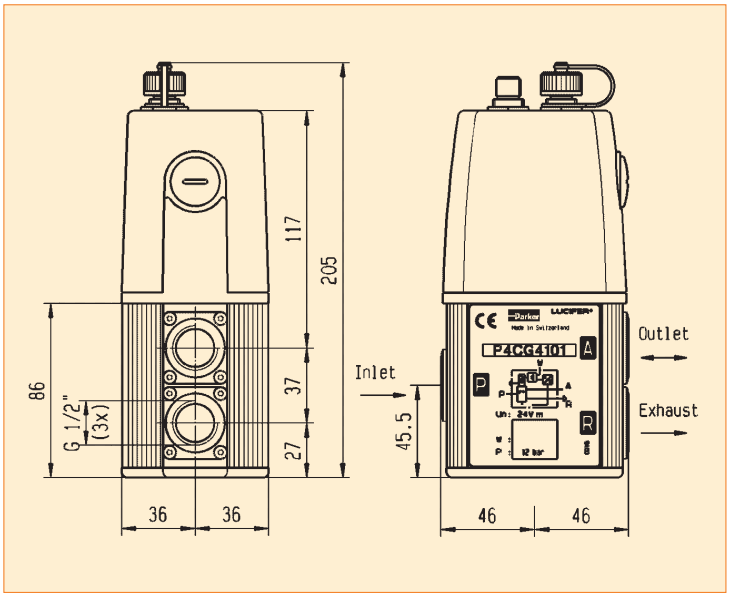
** O2

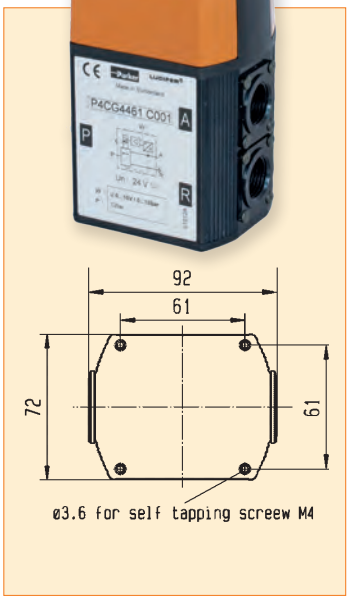
Other specific settings or specialties are available, please contact us.



EPP4 COMFORT 1/2" ATEX

DIMENSIONS DRAWINGS





Drawing 9

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

EPP4 COMFORT 1" & 2" ATEX

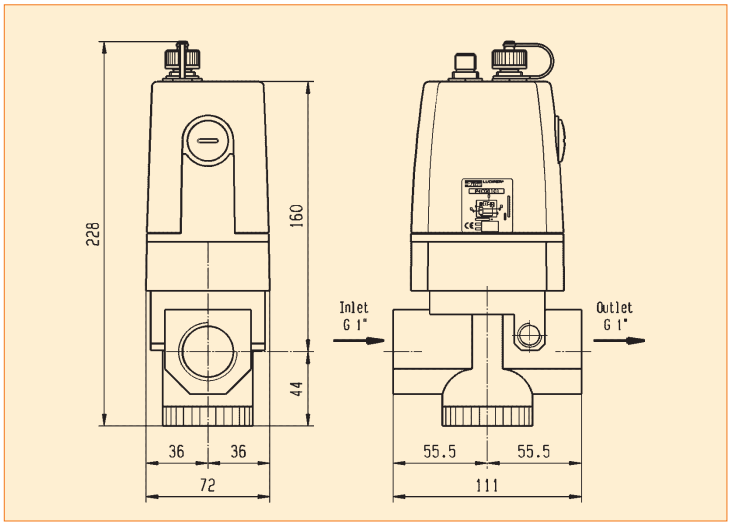
REFERENCES

Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG6161C001	G1	12	0	10	0-10 V	11
P4CG6161C002	G1	12	0	10	4-20 mA	11
P4CG9161C001	G2	12	0	10	0-10 V	12
P4CG9161C002	G2	12	0	10	4-20 mA	12

Other specific settings or specialties are available, please contact us.

EPP4 COMFORT 1" & 2" ATEX

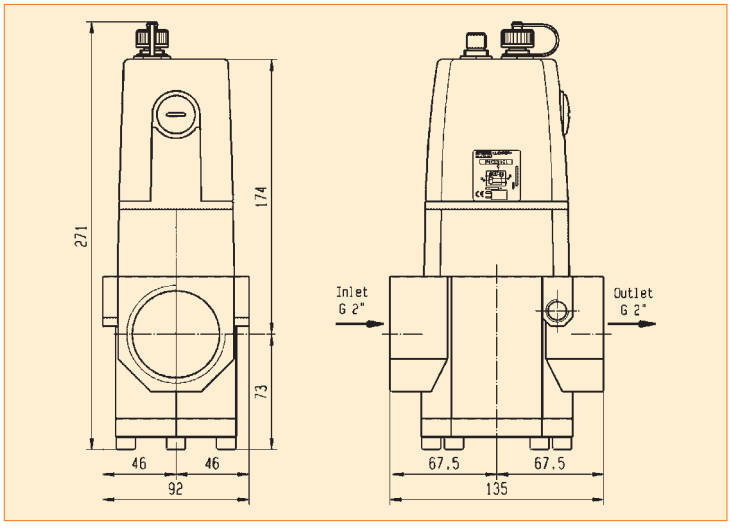
DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1"





Drawing 11

DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 2"





Drawing 12

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

EPP4 ACCESSORIES

MOUNTING BRACKETS FOR EPP4 1/4" BASIC / COMFORT



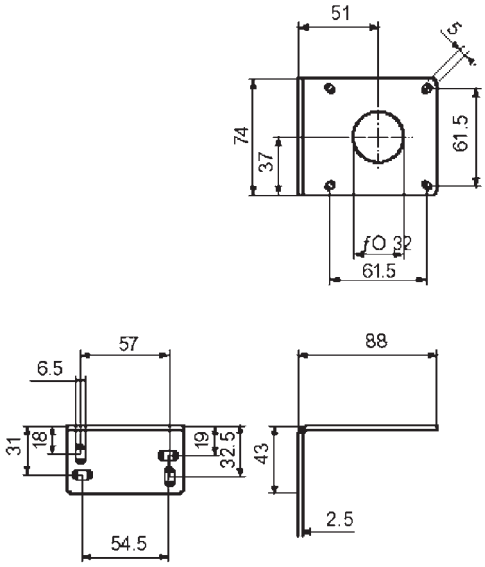


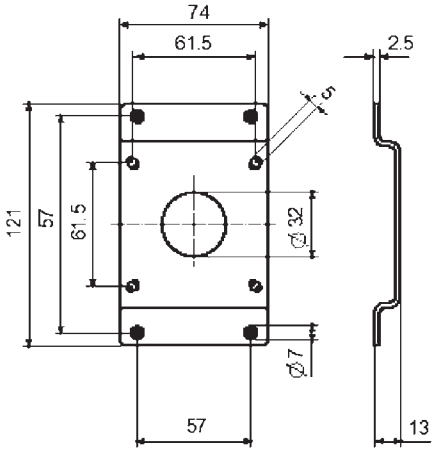


This mounting bracket is delivered as a standard with all EPP4 1/4".

EPP4 ACCESSORIES

MOUNTING BRACKETS FOR EPP4 1/2" BASIC / COMFORT









Order reference 491367

Order reference 491366

EPP4 ACCESSORIES

POWER SUPPLY/CONTROL SIGNAL CABLE FOR BASIC AND COMFORT VERSIONS.



Cable for Comfort EPP4

- 2 m cable with moulded straight M12-8 pole

Order Reference 496796

EPP4 COMFORT ACCESSORIES

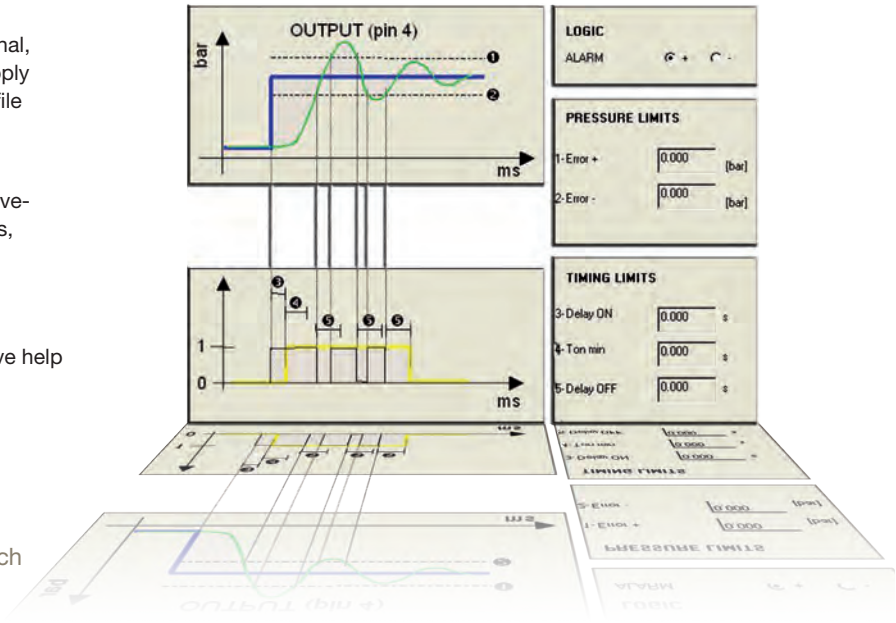
calys SOFTWARE



Calys is a unique software in house developed to configurate all the parameters of the EPP4 Comfort range. Calys is an option of the EPP4. A specific cable is needed for the communication between the EPP4 and a PC.

Calys offers many capabilities:

- Live monitoring (control signal, regulated pressure, supply voltage,...)
- Recording of the main parameters (control signal, regulated pressure, supply voltage,...) in an Excel file
- Free calibration for the inputs and outputs
- Adjustable alarm (positive-negative, pressure limits, delays)
- Configuration files easy to duplicate
- Complete and interactive help file



Data in 4 different pressure units

Menus in 4 languages (English, German, French and Italian)

Specific communication cable PC-EPP4 with RS232 and USB connection

Order Reference 496449

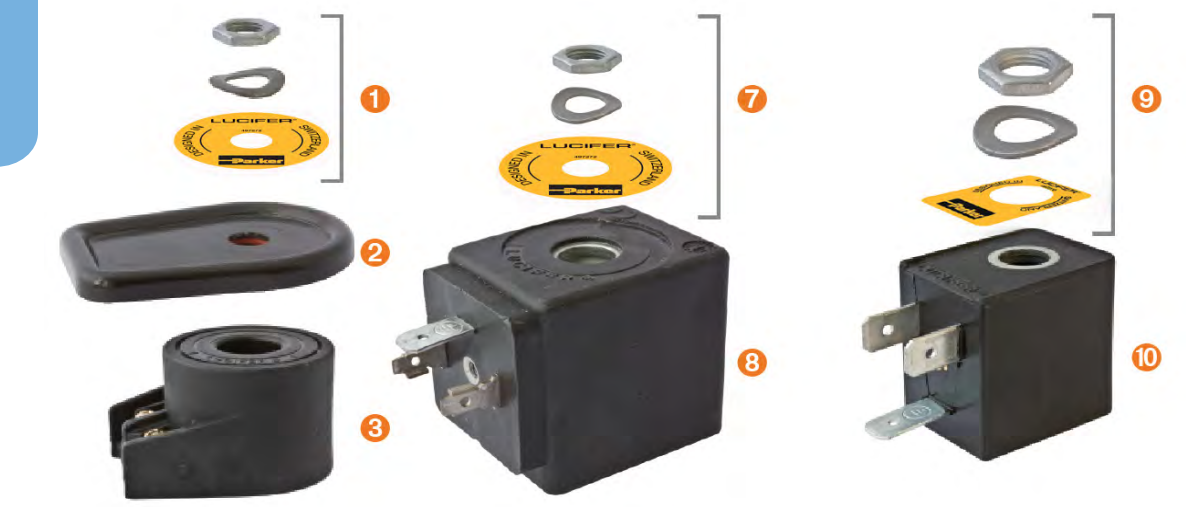
This option is for safe area only.

A COMPLETE RANGE OF COILS, HOUSINGS AND ELECTRICAL PARTS FOR SOLENOID VALVES



DEFINITIONS

HOUSINGS OR COIL ASSEMBLY KITS, COILS AND ELECTRICAL PARTS





Housing:
We define a **housing** as the combination of the fixing elements including the nameplate 1, the cover 2 or the subplate 6 and the envelope itself 4 or 5 which protects the coil and its electrical components. The housings may be made of metal or plastic material.

Coil assembly kit:
The coil assembly kit 7 or 9 is the set comprising a plate, washer and nut. Sometimes coil assembly kits consist only of a nut or a special fixing device.

Coil:
This consists of the winding and its plastic moulding. There are three different types of coils distinguished by their shape and dimensions: 40 mm 3, 32 mm 8 and 22 mm 10.

Electric part:
The electric part is the set comprising the housing, the assembly kit and the coil.

Attention:
Any coil or electrical part must be energised only when properly mounted on a valve.
If not, a risk of damaging the product and its surroundings (overheating, explosion, fire, etc.) can take place.

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Level of protection "mb" 447

Level of protection "db mb" 452

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INDEX FOR EXPLOSION PROOF ELECTRICAL PARTS

Coil Reference	Coil Group	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
496637	1.2	Explosion proof electrical part "nAc nCc", 22 mm, double frequency	3.0	3.0	-20°C to +50°C	-	IP65	II 3 D Ex tc IIIC T 95°C	439
495880	2.0/2.2	Explosion proof electrical part "nAc nCc", 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3	443
496155	2.0/2.2	Explosion proof increased safety electrical part "nAc nCc", 50 mm	14.0	14.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	445
495915	4.0	Explosion proof increased safety electrical part "nAc nCc", 50 mm	13.0	11.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	444
495870	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	440
495875	3.0	Explosion proof electrical part "nAc nCc", 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	442
496110	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	-	9.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	440
495865	1.1	Explosion proof electrical part "nAc nCc", low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5	438
496125	6.0	Explosion proof electrical part "nAc nCc", low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5/T6	441
492670	2.0/2.1	Explosion proof encapsulated electrical part "mb", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 2 G Ex mb IIC T4	448
482605	1.1	Explosion proof encapsulated electrical part "mb", 32 mm	5.0	4.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	447
482606	1.1	Explosion proof encapsulated electrical part "mb", low power, 32 mm	2.5	2.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	447
492070	2.0/2.1	Explosion proof encapsulated electrical part "mb", with water proof metal housing, 50 mm	8.0	9.0	-40°C to +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	449
HZ10	2.0/2.1	Explosion proof encapsulated electrical part "mb", double frequency	8.0	8.0	-40°C to +85°C	-	IP65	II 2 G - Ex mb IIC T3/T4/T5	450
HZ11	2.0/2.2	Explosion proof encapsulated electrical part "mb", double frequency	14.0	14	-40°C to +85°C	-	IP65	II 2 G - Ex mb IIC T3/T4/T5	451
497105	10.3	Flame proof electrical part "db", 50 mm	8.0	8.0	-50°C to +80°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	446
493640	2.0/2.1	Flame proof encapsulated electrical part "db mb", double frequency	8.0	8.0	-40°C to +75°C	-	IP65	II 2 G Ex db mb IIC T4/T5	456
495905	2.0/2.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	453
496560	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	454
496800	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	455
495900	6.0	Flame proof encapsulated electrical part "db mb", low power, 37 mm	2.0	2.5	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	452
496555	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	454
496700	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	455
494040	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +90°C	-	IP67	II 2 G Ex eb IIC T3/T4	457
483371	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex eb IIC T4	457
492190	2.0/2.1	Explosion proof increased safety and encapsulated elect. part "eb", 50 mm	9.0	11.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T3/T4	460
492310	10.1	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	6.0	6.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T4/T5	458
492210	9.0	Explosion proof increased safety and encapsulated electrical part "eb", " Booster", 50 mm	1.0 to 1.8	-	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T5/T6	459
495910	8.0	Explosion proof intrinsically safe electrical part "ia", "booster", 37 mm	0.3 to 1.2	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	462
496565	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 37 mm	0.77 to 2.58	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	463
483580.01	7.0	Explosion proof intrinsically safe electrical part "ia", 32 mm	3.0	-	-40°C to +55°C	-	IP65	II 1 G Ex ia IIC T6	461
488650.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	465
492965.01	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 50 mm	0.3 to 2.3	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	464
482870.01	12.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	466
490885	7.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	465

LIST OF COIL GROUPS

Parker coils and electrical parts are classified by groups determining their compatibility with Parker solenoid valves.

Group	For application with
1.1	Standard valves or on 2000 Series with standard pilot
1.2	Standard valves or on 2000 Series for high flow
1.3	Standard valves or on 2000 Series of W coil
2.0	Standard valves or on 7000 Series with standard pilot
2.1	Standard valves or on 7000 Series, for coils 8 - 9 W
2.2	Standard valves or on 7000 Series, for coils 14 W
3.0	Standard valves or on 7000 Series with reduced power
4.0	Standard valves or on 7000 Series, for bistable (Impulse) coils or electrical parts
6.0	Special valves "97" or on 7000 Series, for Intrinsicaly safe coils or electrical parts
7.0	Special valves "90", for coils and intrinsically safe electrical parts
8.0	Special valves "97" or on 7000 Series, for Intrinsicaly safe coils or electrical parts with booster
9.0	Special valves "xx" or on 9000 Series, for Intrinsicaly safe coils or electrical parts with booster
10.1	Standard valves or on 9000 Series with standard pilot
10.2	Standard valves or on 9000 Series "db mb"
10.3	Special valves or on 8000 Series "d"
12.0	Standard valves or on 9000 Series with manual reset
13.0	Special valves or on 7000 Series for Transportation
14.1	Special valves or on 7000 Series for Oil Burners
14.2	Special valves or on 7000 Series for Oil Burners
14.3	Special valves or on 7000 Series for Oil Burners

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Level of protection "mb" 447

Level of protection "db mb" 448

Level of protection "eb" 457

Level of protection "eb mb" 458

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COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Standard		Double frequency	
Ref. (without DIN plug) Ref. (with DIN plug)			481865		483510	
Coil Group			2.0 / 2.1			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	9 W		-	
		P (cold) 20°C	12 W		-	
	AC	**Pn** (holding)	8 W		9 W	
		Attraction cold	26 VA (9 W)		32 VA (10 W)	
Weight			130 g (without plug)			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 48/50 110/50 220-230/50	A2 A4 A5 3D	24 48 110	C2 C4 C5

Specification			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un			24/50 48/50 110/50 220-230/50	A2 A4 A5 3D	24 48 110	C2 C4 C5	24/50, 24/60 48/50, 48/60 110-115/50, 120/60 220-240/50, 240/60	P0 S4 S5 S6

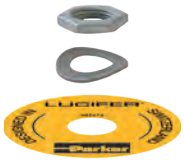
To Order a Coil choose Coil Ref + Voltage Code, example: **481865** for **24 VDC = 481865C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

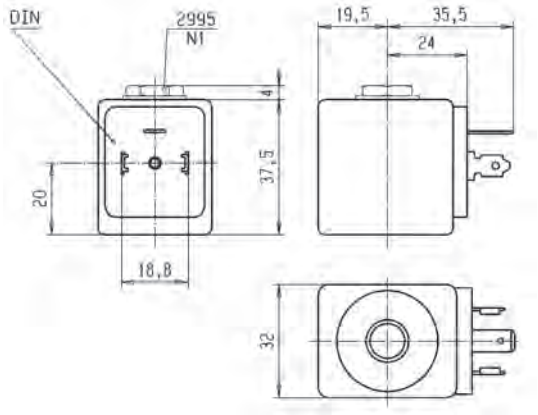
These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995**.

It is composed of a nameplate giving details of the valve type,

a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





COIL GROUP
2.0/2.1
2.2

COILS FOR DIN PLUG CONNECTION

HIGH TEMPERATURE COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			High temperature				High temp. + high power			
Ref. (without DIN plug) Ref. (with DIN plug)			492453				492425			
Coil Group			2.0 / 2.1				2.0 / 2.2			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).							
Class of insulation			H 180°C							
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A							
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.							
Elect. Power	DC	**Pn** (hot)	9 W				14 W			
		P (cold) 20°C	12 W				21 W			
	AC	**Pn** (holding)	8 W				14 W			
		Attraction cold	26 VA (9 W)				55 VA (18 W)			
Weight			130 g (without plug)							
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 110/50 220/50-	A2 A5 3D	24 110	C2 C5	24/50 110/50 230/50	A2 A5 F4	24	C2

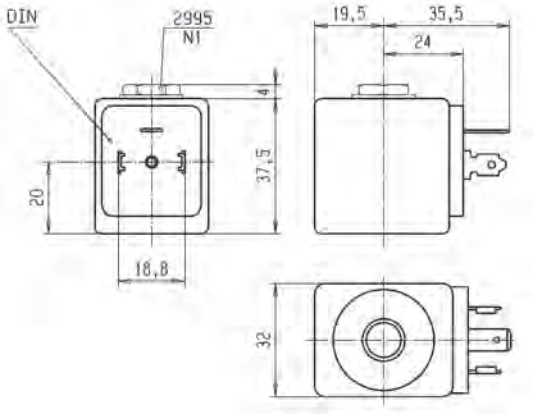
To Order a Coil choose Coil Ref + Voltage Code, example: **492453** for **24 VDC= 492453C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995**.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





REDUCED POWER COIL 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



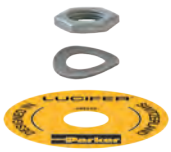
Specification			Reduced power			
Ref. (without DIN plug) Ref. (with DIN plug)			482730			
Coil Group			3.0			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	7 W			
		P (cold) 20°C	9 W			
	AC	**Pn** (holding)	6 W			
		Attraction cold	20 VA (7 W)			
Weight			130 g (without plug)			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			220-230/50	3D	24	C2

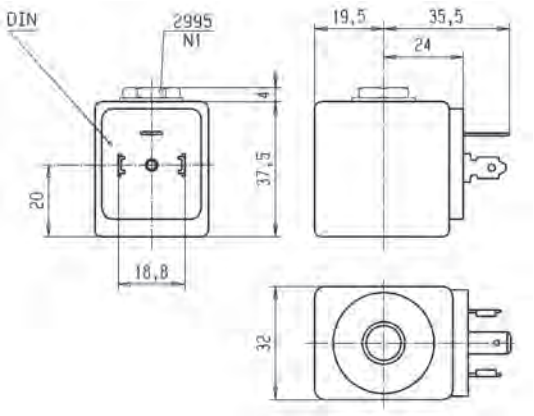
To Order a Coil choose Coil Ref + Voltage Code, example: **482730** for **24 VDC** = **482730C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995**.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





COIL GROUP

6.0

COILS FOR DIN PLUG CONNECTION

LOW POWER COIL 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Miniwatt	
Reference (without DIN plug) Reference (with DIN plug)			**482740**	
Coil Group			**6.0**	
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	**Pn** (hot)	1.6 W	
		P (cold) 20°C	2.1 W	
	AC	**Pn** (holding)	-	
		Attraction cold	-	
Weight			130 g (without plug)	
Voltages "Un"			VDC	Code
-10% to +10% of the Un			24	C2

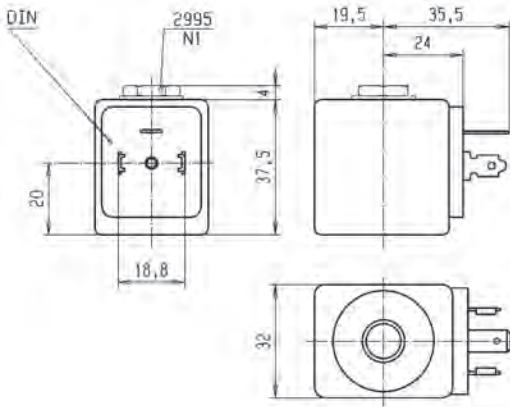
To Order a Coil choose Coil Ref + Voltage Code, example: **482740** for **24 VDC** = **482740C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995**.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





UL COIL 32 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.
DIN plug connector to be ordered separately (see coil accessories section)



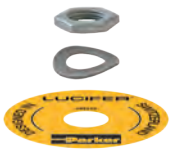
Specification			UL-recognized coil - UL File E200N - designation AMIF			
Reference (without DIN plug)			491514			
Coil Group			2.0 / 2.1			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F (155°C)			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to 50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	-		12 W	
		P (cold) 20°C	-		16 W	
	AC	**Pn** (holding)	11 W		-	
		Attraction cold	40 VA (13 W)		-	
Weight			130 g (without plug)			
Voltages "Un"			VAC/Hz	Code	VDC	Code
- 15% to +10% of the Un			110/50-120/60 220/50-240/60	P3 Q3	24	C2

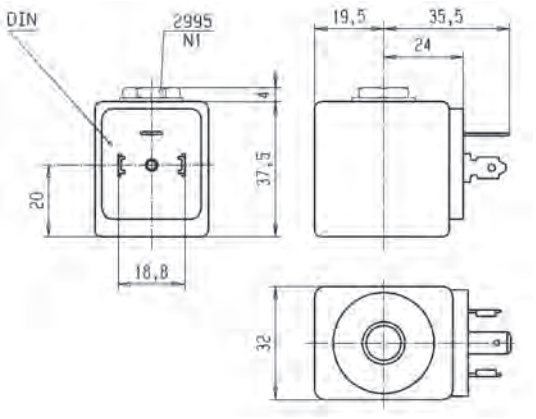
To Order a Coil choose Coil Ref + Voltage Code, example: **491514** for **24 VDC** = **491514C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995** with non UL valve and Ref. 2995.03 with UL valve.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





COIL GROUP
14.2

COILS FOR DIN PLUG CONNECTION

UL COIL 32 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Coil for oil burner - UL recognized	
Reference (without DIN plug)			**483764**	
Coil group			**14.2**	
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			With DIN 43650 A Plug	
Ambient temperature			-40°C to 50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	**Pn** (hot)	-	
		P (cold) 20°C	-	
	AC	**Pn** (holding)	9 W	
		Attraction cold	-	
Weight			138 g	
Voltages "Un"			**VAC/Hz**	**Code**
- 15% to +10% of the Un			240/50-60 110/50-115/60 230/50-240/60	Q1 Q9 T1

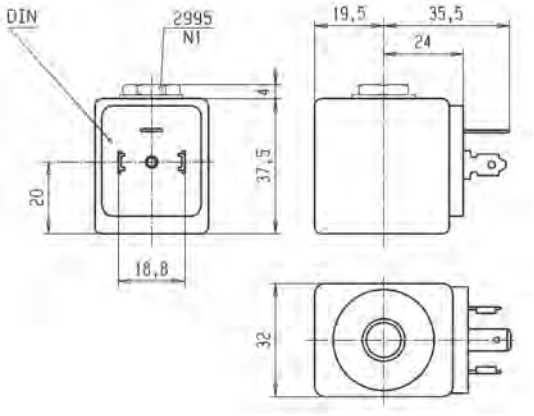
To Order a Coil choose Coil Ref + Voltage Code, example: **483764** for **240/50-60** = **483764Q1**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995**.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





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COIL 32 mm FOR JET VALVES

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.
DIN plug connector to be ordered separately (see coil accessories section)



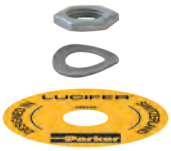
Specification			32 mm coil 14 W			
Reference			483816			
Coil Group			2.2			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	14 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	14 W			
		Attraction cold	-			
Weight			160 g			
Voltages "Un"			**VAC/Hz**	**Code**	**VDC**	**Code**
-10% to +10% of the Un			24/50	A2	24 V	C2

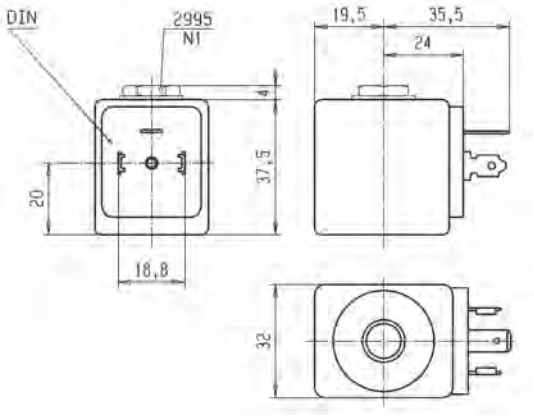
To Order a Coil choose Coil Ref + Voltage Code, example: 483816 for 24 VDC = **483816C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 2995**.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.





COIL GROUP

1.1

COILS FOR DIN PLUG CONNECTION

COILS 22 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Low power			High power		
Ref. (without DIN plug) Ref. (with DIN plug)			488980			481180		
Coil Group			1.1					
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).					
Class of insulation			F 155°C					
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.					
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	**Pn** (hot)	2.5 W			5 W		
		P (cold) 20°C	3 W			6.5 W		
	AC	**Pn** (holding)	2 W			4 W		
		Attraction cold	5.7 VA (2.5 W)			8.9 VA (5 W)		
Weight			100 g with DIN Plug					
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 48/50 110/50-115/50 220/50-230/50	A2 A4 0A 3D	24 48 110	C2 C4 C5	24/50 110/50-115/50 220/50-230/50	A2 0A 3D	24	C2

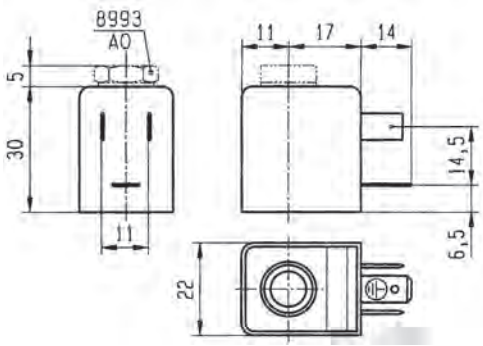
To Order a Coil choose Coil Ref + Voltage Code, example: **488980** for **24 VDC** = **488980C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 8993.**

It is composed of a nameplate with the details of the valve type, a washer and a nut to secure the 22 mm coil to the valve.





COILS FOR DIN PLUG CONNECTION

COIL 22 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Standard (only if used with 321K, 121M, 131M valves)			
Reference (without DIN plug) Reference (with DIN plug)			492912			
Coil Group			1.1			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			A 105°C for UL/CSA			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	4 W			
		P (cold) 20°C	4.5 W			
	AC	**Pn** (holding)	3 W			
		Attraction cold	7.5 VA (4 W)			
Weight			100 g with DIN Plug			
Voltages "Un"			VAC/Hz	Code	VDC	Code
- 15% to +10% of the Un			115/50-120/60	P8	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **492912** for **24 VDC** = **492912C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

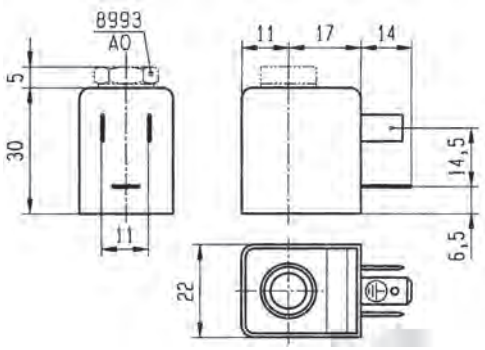
These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 8993.**

It is composed of a nameplate giving details of the valve type,

a round washer and a nut to ensure the fixing between 22 mm coil and the valve.





COIL GROUP

1.1

COILS FOR DIN PLUG CONNECTION

DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).



Specification			Double frequency	
Reference (without DIN plug)			483590	
Coil group			1.1	
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	**Pn** (hot)	-	
		P (cold) 20°C	-	
	AC	**Pn** (holding)	3 W	
		Attraction cold	7.5 VA (4 W)	
Weight			100 g with DIN Plug	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			24/50-60 110-115/50, 120/60 220-240/50, 240/60	P0 S5 S6

To Order a Coil choose Coil Ref + Voltage Code, example: **483590** for **24/50,24/60** = **483590P0**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

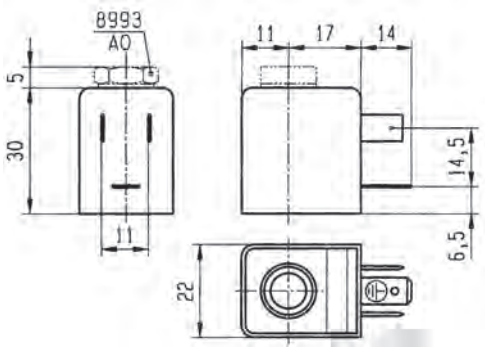
These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 8993.**

It is composed of a nameplate giving details of the valve type,

a round washer and a nut to ensure the fixing between 22 mm coil and the valve.





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DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately (see coil accessories section).



Specification			Double frequency	
Reference (without DIN Plug)			488143	
Coil group			1.1	
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	**Pn** (hot)	-	
		P (cold) 20°C	-	
	AC	**Pn** (holding)	2.5 W	
		Attraction cold	-	
Weight			60 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			100/50-60 200/50-60	P1 P6

To Order a Coil choose Coil Ref + Voltage Code, example: **488143** for **100/50-60** = **488143P1**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

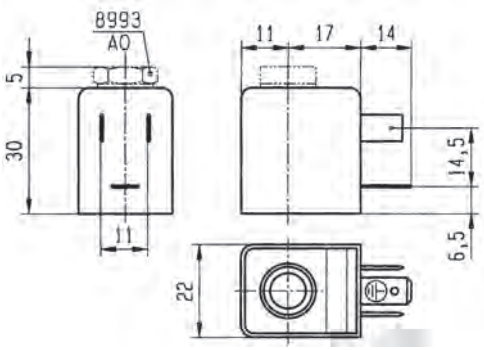
These coils must be used with suitable housings, see example below:

Please use the coil assembly kit **Ref. 8993**.

It is composed of a nameplate giving details of the valve type,

a round washer and a nut to ensure the fixing between 22 mm coil and the valve.





COIL GROUP

1.2

COILS FOR DIN PLUG CONNECTION

DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

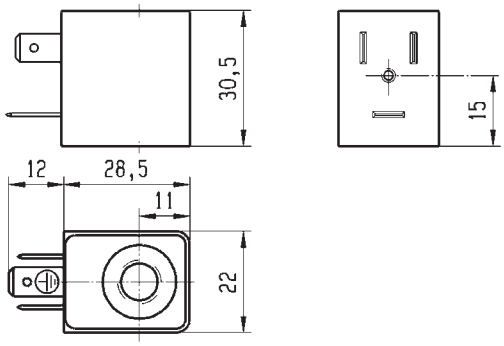
The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.
DIN plug connector to be ordered separately (see coil accessories section).



Specification			Double frequency			
Reference (without DIN Plug)			496131			
Coil group			1.2			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	3 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	3 W			
		Attraction cold	-			
Weight			60 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60	P0	24 V	C2
			110/50-60	P2	48 V	C4
			230/50-60	P9	110 V	C5
			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: **496131** for **24 VDC** = **496131C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

"The housing kit is already included in the valve reference, it is not needed to order it separately."



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DOUBLE FREQUENCY COIL 22 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

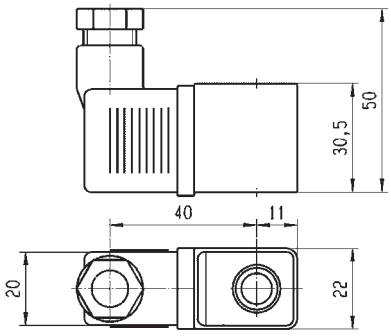
DIN plug connector included.



Specification			Double frequency			
Reference			496482			
Coil group			1.2			
Degree of protection			**IP65** according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation			F 155°C			
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type B.			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	3 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	3 W			
		Attraction cold	-			
Weight			75 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60	P0	24 V	C2
			110/50-60	P2	48 V	C4
			230/50-60	P9	110 V	C5
			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: **496482** for **24 VDC** = **496482C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

"The housing kit is already included in the valve reference, it is not needed to order it separately."



COIL GROUP
10.1

COILS FOR DIN PLUG CONNECTION

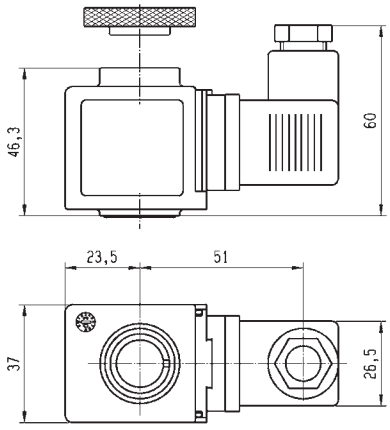
COIL FOR OIL AND GAS 37 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.
This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.
The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive. DIN plug connector included (The AC electrical connection is delivered with a rectifier bridge).



Specification			Coil for Oil and Gas			
Reference (with DIN plug)			496895			
Coil group			10.1			
Degree of protection			**IP65** according to IEC / EN 60529 standards			
Class of insulation			H 180°C			
Electrical connection			With DIN plug 492459 (AC) or 486586 (DC)			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	8 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	8 W			
		Attraction cold	-			
Weight			273 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			230/50-60 110/50-60	P9 P2	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **496895** for **24 VDC** = **496895C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.
The fixing nut (housing kit) is already inclued in the coil kit.



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COIL 32 mm IP67

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



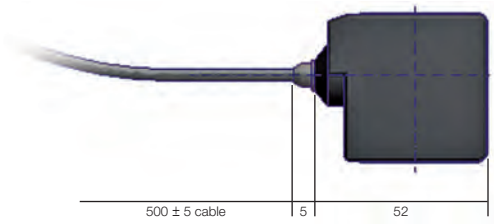
Specification			Coil with two 500 mm flying leads			
Reference			496081			
Coil Group			2.0 / 2.1			
Degree of protection			**IP67** according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-40 °C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	9 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	9 W			
		Attraction cold	32 VA			
Weight			180 g			
Voltages "Un"			**VAC/Hz**	**Code**	**VDC**	**Code**
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC			24/50 - 24/60 110-115/50 - 120/60 220-240/50 - 240/60	**P0** **S5** **S6**	24 12	**C2** **C1**

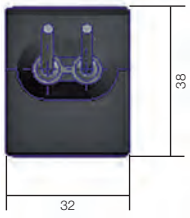
To Order a Coil: Coil Ref + Voltage Code, example: 496081 for 24 VDC = **496081C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

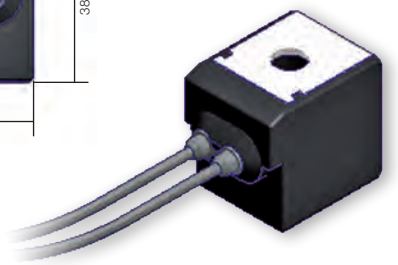
COIL GROUP

2.0/2.1

To assemble this coil on our solenoid valves, please order housing Ref: 2995







STANDARD COILS 40 mm

These coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

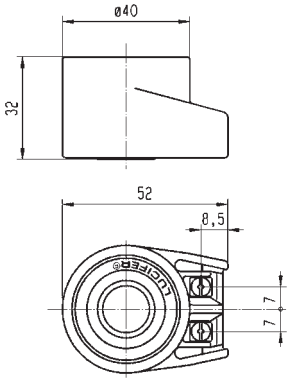
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Standard				Double Frequency	
Reference			481000				483520	
Coil Group			2.0 / 2.1					
Class of insulation			F 155°C					
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve..					
Elect. Power	DC	Pn (hot)	8W				-	
		P (cold) 20°C	9W				-	
	AC	Pn (holding)	8W				9W	
		Attraction cold	32 VA (9 W)				36 VA (10 W)	
Weight			130 g				130 g	
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un (-15 % to +5 % for double-frequency coil with voltage code S6 if 240 V/50/Hz is used).			24/50 48/50 110/50-115/50 220/50-230/50	A2 A4 0A 3D	24 48 110	C2 C4 C5	24/50-60 220-240/50-240/60	P0 S6

To Order a Coil choose Coil Ref + Voltage Code, example: **4828** for **24 VDC** = **481000C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:





Ref. 4270 - Protection **IP 44** according to IEC / EN 60529 standard (with cable gland)



Ref. 4538 - Protection **IP 67** according to IEC / EN 60529 standard

COIL GROUP

2.0/2.2

COILS WITH SCREW TERMINALS

HIGH POWER COILS 40 mm

This coil can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

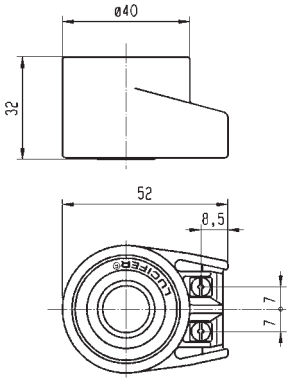
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			High Power	
Reference			481044	
Coil Group			2.0 / 2.2	
Class of insulation			F 155°C	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-	
		P (cold) 20°C	-	
	AC	Pn (holding)	14 W	
		Attraction cold	56 VA (20 W)	
Weight			130 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			24/50 110/50 220/50 230/50	A2 A5 A7 F4

To Order a Coil choose Coil Ref + Voltage Code, example: **481044** for **24VAC/50Hz = 481044A2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:





Ref. 4270 - Protection **IP 44** according to IEC / EN 60529 standard (with cable gland)



Ref. 8520 - Protection **IP 67** according to IEC / EN 60529 standard

HIGH TEMPERATURE COILS 40 mm

These coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

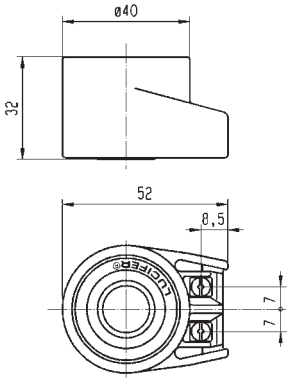
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			High Temperature & High Power			
Reference			486265			
Coil Group			2.0 / 2.2			
Class of insulation			H 180°C			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	14 W			
		P (cold) 20°C	21 W			
	AC	Pn (holding)	14 W			
		Attraction cold	56 VA (20 W)			
Weight			140 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50	A2	12	C1
			110/50	A5	24	C2
			220/50	A7	48	C4
			230/50	F4		

To Order a Coil choose Coil Ref + Voltage Code, example:486265 for **24VAC/50Hz = 486265**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:





Ref. 4270 - Protection **IP 44** according to IEC / EN 60529 standard (with cable gland)



Ref. 8520 - Protection **IP 67** according to IEC / EN 60529 standard

COIL GROUP
14.1

COILS WITH SCREW TERMINALS

HIGH TEMPERATURE & HIGH POWER COILS 40 mm OIL BURNER

This coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

It can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

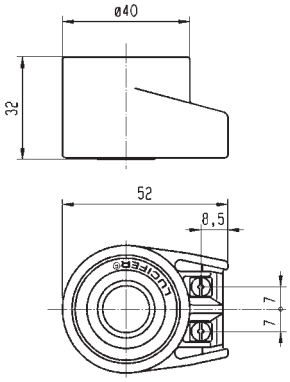
Coil conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.
This coil is used only in safety application according to DIN/EN/ISO 23551-1:2009-10 (Oil burners)



Specification			High Temperature & High Power	
Reference			483824	
Coil Group			14.1	
Class of insulation			H 180°C	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	19 W	
		P (cold) 20°C	19 W	
	AC	Pn (holding)	19 W	
		Attraction cold	56 VA (20 W)	
Weight			130 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			120/50 240/50 110/60 220/60 58/50-60/60 55/60	A6 A8 B5 B7 T6 4J

To Order a Coil choose Coil Ref + Voltage Code, example: **483824** for **120/50** = **483824A6**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, Ref: 8760.24 and Ref: 8520.23





Ref. 8760.24



Ref. 8520.23

HIGH TEMPERATURE & HIGH POWER COILS 40 mm OIL BURNER

This coils can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

It can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

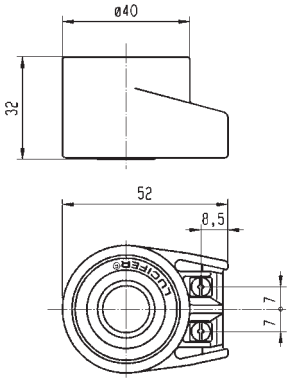
Coil conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.
This coil is used only in safety application according to DIN/EN/ISO 23551-1:2009-10 (Oil burners)



Specification			High Temperature & High Power	
Reference			483541	
Coil Group			14.3	
Class of insulation			H 180°C	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	20 W	
		P (cold) 20°C	20 W	
	AC	Pn (holding)	20 W	
		Attraction cold	56 VA (20 W)	
Weight			130 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			120/50 240/50 110/60 220/60 58/50-60/60 55/60	A6 A8 B5 B7 T6 4J

To Order a Coil choose Coil Ref + Voltage Code, example: **483541** for **120/50** = **483541A6**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, Ref: 8760.24 and Ref: 8520.23





Ref. 8760.24



Ref. 8520.23

COIL GROUP
2.0/2.1

COILS WITH
SCREW TERMINALS

COIL DOUBLE FREQUENCY 40 mm H CLASS

This coil can be mounted with every Parker Solenoid Valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

They can be mounted with all metal housings.

The coil winding is completely encapsulated in synthetic material.

Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².

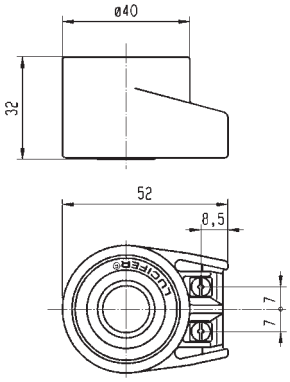
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			Double Frequency 100 V - 200 V	
Reference			488553	
Coil Group			2.0/2.1	
Class of insulation			H 180°C	
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	Pn (hot)	-	
		P (cold) 20°C	-	
	AC	Pn (holding)	9 W	
		Attraction cold	-	
Weight			130 g	
Voltages "Un"			VAC/Hz	Code
-10% to +10% of the Un			100/50-60 200/50-60	P1 P6

To Order a Coil choose Coil Ref + Voltage Code, example: **488553** for **110/50-60** = **488553P1**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see examples below:





Ref. 4270 - Protection **IP 44**



Ref. 8520 - Protection **IP 54**

BISTABLE COILS 40 mm FOR IMPULSE APPLICATIONS

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

These coils are specially designed for Lucifer® bistable (or impulse or magnetic latch) solenoid valves for Heating Applications.

They can be mounted only with the Lucifer® metallic housing 4269 or 4538.
The coil winding is completely encapsulated in synthetic material.
Easy mounting in confined spaces. Electrical connection with screw terminals for wire up to 1.5 mm².
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



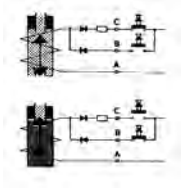
Specification			Bistable (Impulse)			
Reference			484990		485400	
Coil Group			4.0			
Class of insulation			F 155°C			
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Length of impulses			Switch on (terminals A-B): minimum 50 ms Switch off (terminals A-C): minimum 35 ms			
Electr. Power consuption	DC	Attraction (hot)	-		13 W	
		Attraction (cold)	-		19 W	
		Release (hot)	-		8 W	
		Release (cold)	-		10 W	
	AC	Attraction (hot)	11 W		-	
		Attraction (cold)	17 W		-	
		Release (hot)	4 W		-	
		Release (cold)	7 W		-	
Weight			150 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-24/60 110-115/50-115/60 220-230/50-60	P0 1P 3P	24 48 110	C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **485400** for **24 VDC** = **485400C2**
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

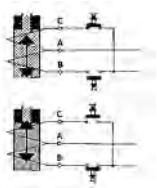
These coils must be used with suitable housings, see examples below:

DIAGRAM

Alternating Current



Direct Current



Only an electrical impulse given to terminals A-C reverses the magnetic field. This magnetic field demagnetises the reversible magnet enough to allow the return spring to bring the plunger back to its initial position and close the valve.



Ref. 4269 - Protection **IP 44**



Ref. 4538 - Protection **IP 67**

COIL GROUP
13.0

COILS WITH ISO-DIN CONNECTORS

COILS 12 V - 24 V FOR TRANSPORTATION APPLICATIONS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

These coils are specially designed for Lucifer® solenoid valves for Transportation Applications.
They can be mounted with the standard Lucifer® housing 2161 or customized housing.

The coil winding is completely encapsulated in epoxy.
Easy mounting and dismounting in confined spaces. Bayonet twist and lock coupling for tight, vibration resistant connection.

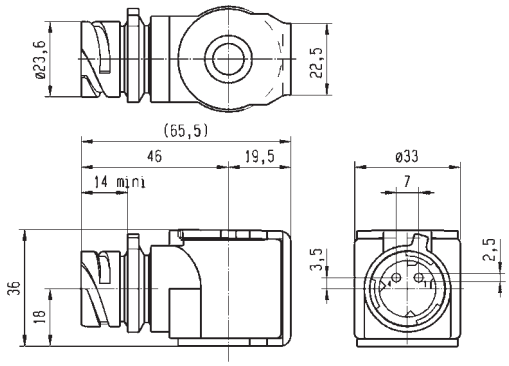
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

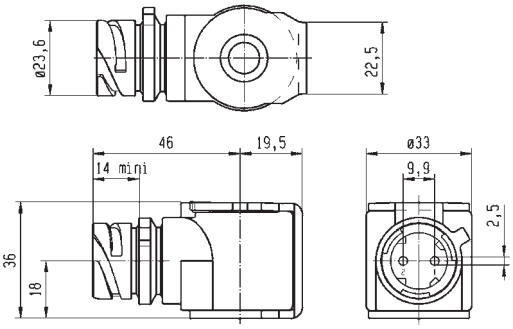


Specification			Transportation			
Reference			**496193** with diode		**495294** without diode	
Coil Group			**13.0**			
Degree of protection			**IP69K** for DIN 400050 part 9			
Ambiant temperature			- 40°C to +120°C The application is limited also by the temperature range of the valve and duty cycle of the valve.			
Insulation Class			F 155°C			
Electrical connection			ISO 15170-A1-2.3-Sn/K2		DIN 72585-A3-2.1	
Elect. Power	DC	**Pn** (hot)	9 w			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	-			
		Attraction cold	-			
Weight			147 g			
Voltages "Un"			**VDC**	**Code**	**VDC**	**Code**
- 30% to + 30% of the Un			12 24	C1 C2	12 24	C1 C2

To Order a Coil choose Coil Ref + Voltage Code, example: **496193** for **24 VDC** = **496193C2**

These coils must be used with suitable housings Ref.2168 for 12Vdc and 2169 for 24 VDC.





Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

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ELECTRICAL PART LOW POWER 22 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

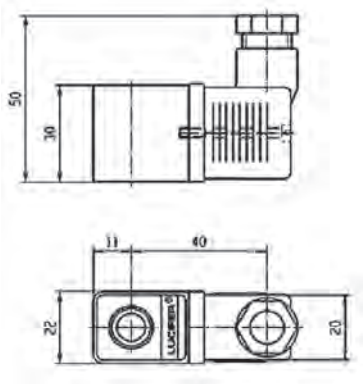
Application:
Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T5 is required.

Benefits:
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.
Small size for ease of mounting in confined spaces.



Reference			495865			
Certificate			LCIE 05 ATEX 6003 X			
Coil Group			1.1			
Type of protection		Gas	II 3 G Ex nAc nCc IIC T5			
		Dust	II 3 D - Ex tc IIIC - T 95°C			
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards			
Ambiant temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.			
Insulation Class			F 155°C			
Electrical connection			These coils with connection 2P + G - when mounted together with the supplied Pg 9 plug (delivered with the coil),			
Elect. Power	DC	**Pn** (hot)	2.5 W			
		P (cold) 20°C	3 W			
	AC	**Pn** (holding)	2 W			
		Attraction cold	5.7 VA (2.5 W)			
Weight			120 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 110/50-115/50 220/50-230/50	A2 0A 3D	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **495865** for **24 VDC** = **495865C2**



COIL GROUP

1.2

ELECTRICAL PARTS "nAc nCc"

ELECTRICAL PART DOUBLE FREQUENCY 22 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

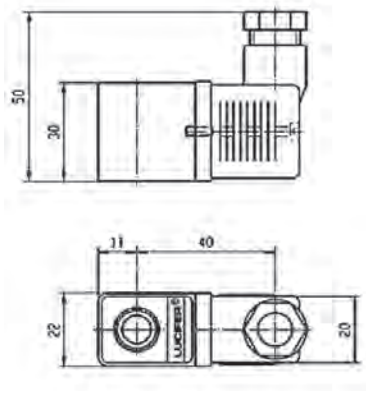
Application:
Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T5 is required.

Benefits:
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.
Small size for ease of mounting in confined spaces.



Specification			Double Frequency			
Reference			496637			
Certificate			ATEX			
Coil group			1.2			
Type of protection		Gas	Ex nAc nCc IIC T5			
		Dust	II 3 D - Ex tc IIIC - T 95°C			
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Sandards			
Ambiant temperature			-20°C to +50°C The application is limited also by the temperature range of the valve.			
Insulation Class			F 155°C			
Elect. Power	DC	**Pn** (hot)	3 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	3 W			
		Attraction cold	5.7 VA (2.5 W)			
Weight			75 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60 110/50-60 230/50-60 48/50-60	P0 P2 P9 S4	24 V 48 V 110 V	C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **496637** for **24 VDC** = **496637C2**



Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

ELECTRICAL PART 32 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

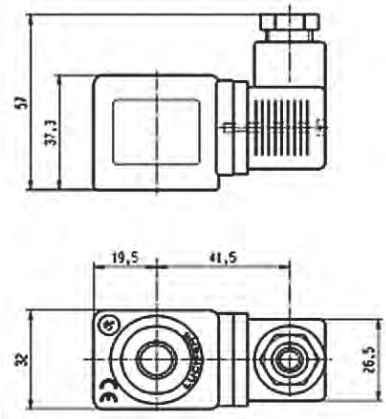
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3/T4 is required.
Ease of mounting in confined space - offers shock and corrosion protection-simplifies conversion of existing equipment to other requirements, etc.

Benefits:
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.
Small size for ease of mounting in confined spaces.



Reference			495870			496110	
Certificate			LCIE 05 ATEX 6003 X				
Coil Group			2.0 / 2.1				
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3/T4			II 3 G Ex nAc nCc IIC T3/T4	
		Dust	II 3 D - Ex tc IIIC - T195°C / T130°C			II 3 D - Ex tc IIIC - T195°C / T130°C	
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards				
Insulation Class			F (155°C)				
Duty cycle			100%				
Ambiant temperature			-40°C to +65°C / 50°C The application is limited also by the temperature range of the valve.				
Elect. Power	DC	**Pn** (hot)	9 W			-	
		P (cold) 20°C	12 W			-	
	AC	**Pn** (holding)	8 W			9 W	
		Attraction cold	26 VA (9 W)			32 VA (10 W)	
Weight			150 g				
Voltages "Un" -10% to +10% of the Un			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
			24/50 48/50 110/50 220-230/50	A2 A4 A5 3D	24 48 110	C2 C4 C5	24/50-60 110/50-60 220/50-60	P0 S5 S6

To Order a Coil choose Coil Ref + Voltage Code, example: **495870** for **24 VDC** = **495870C2**



ELECTRICAL PART LOW POWER 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

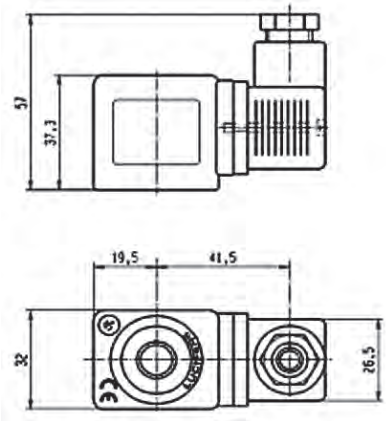
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T5/T6 is required.
Ease of mounting in confined space - offers shock and corrosion protection-simplifies conversion of existing equipment to other requirements, etc.

Benefits:
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.
Small size for ease of mounting in confined spaces.



Reference			496125	
Certificate			LCIE 05 ATEX 6003 X	
Coil group			6.0	
Type of protection		Gas	II 3 G Ex nAc nCc IIC T5/T6	
		Dust	II 3 D Ex tc IIIC T95°C/80°C	
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards	
Insulation Class			F (155°C)	
Duty cycle			100%	
Ambiant temperature			-40°C to +65°C / 50°C The application is limited also by the temperature range of the valve.	
Elect. Power	DC	**Pn** (hot)	1.6 W	
		P (cold) 20°C	2.1 W	
	AC	**Pn** (holding)	-	
		Attraction cold	-	
Weight			150 g	
Voltages "Un" -10% to +10% of the Un			VDC	Code
			24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **496125** for **24 VDC** = **496125C2**



ELECTRICAL PART 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

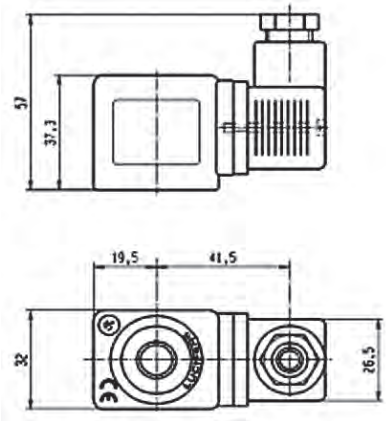
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3/T4 is required.
Ease of mounting in confined space - offers shock and corrosion protection-simplifies conversion of existing equipment to other requirements, etc.

Benefits:
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.
Small size for ease of mounting in confined spaces.



Specification			32 mm Coil "nAc nCc"			
Reference			495875			
Certificate			LCIE 05 ATEX 6003 X			
Coil Group			3.0			
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3/T4			
		Dust	II 3 D - Ex tc IIIC - T195°C / T130°C			
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards			
Insulation Class			F 155°C			
Duty cycle			100%			
Ambiant temperature			-40°C to +65°C / 50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	7 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	6 W			
		Attraction cold	-			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			220-230/50	3D	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **495875** for **24 VDC** = **495875C2**



COIL GROUP
2.0/2.2

NON ENCAPSULATED ELECTRICAL PARTS "nAc nCc"

ELECTRICAL PART 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

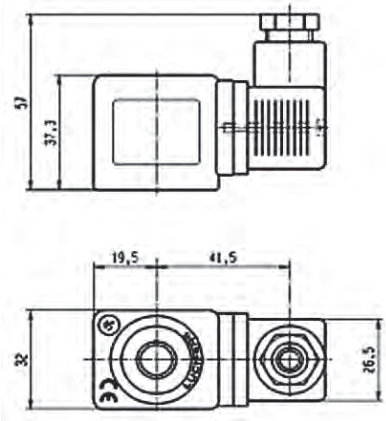
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3 is required.
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Benefits:
The synthetic material encapsulation of the coil provides an effective compact housing, offering full protection against dust, oil, water, etc.
Small size for ease of mounting in confined spaces.



Specification			32 mm Coil "nAc nCc"			
Reference			495880			
Certificate			LCIE 05 ATEX 6003X			
Coil Group			2.0 / 2.2			
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3			
		Dust	II 3 D - Ex tc IIIC - T195°C			
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards			
Insulation Class			H 180°C			
Duty cycle			100%			
Ambiant temperature			-40°C to +65°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	**Pn** (hot)	14 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	14 W			
		Attraction cold	-			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 110/50 230/50	A2 A5 F4	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **495880** for **24 VDC** = **495880C2**



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495915 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection - Ex nAc nCc IIC T3 is required.

Benefits: Rotatable housing 360°, epoxy vernished steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference			495915	
Certificate			LCIE 05 ATEX 6010 X	
Coil group			4.0	
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3	
		Dust	II 3 D - Ex tc IIIC - T 195°C	
Degree of protection			**IP67** according to IEC/EN 60529 Standards	
Ambient temperature			-40°C to +65°C The application is limited also by the temperature range of the valve.	
Insulation Class			F 155°C	
Electrical connection			By special cable gland M20 x 1.5 on screw terminals for wires up to 1.5 mm². Cable with outside diameter 6.5 mm to 13.5 mm can be simply sealed using the rubber gland with resilient sealing rings supplied	
Consomation Electrique	AC	Attraction (hot)	11 W	-
		Attraction (cold) 20°C	17 W	-
		Release (hot)	4 W	-
		Release (cold) 20°C	7 W	-
	DC	Attraction (hot)	-	13 W
		Attraction (cold) 20°C	-	19 W
		Release (hot)	-	8 W
		Release (cold) 20°C	-	10 W
Weight			320 g	
Duty cycle			Continuous duty solenoid (ED 100%)	

Voltages "Un"	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un	110-115/50-60	1P	24	C2
	220-230/50-60	3P	48	C4
	48/50-60	S4		
	24/50-60	P0		

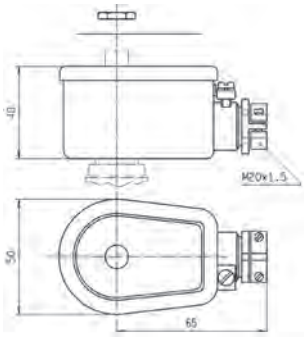
To Order a Coil choose Coil Ref + Voltage Code,
example: **495915** for **24 VDC** = **495915C2**

Schema



As soon as an electrical impulse is given to the terminals A-B, the electromagnetical force attracts the plunger and simultneously magnetizes a reversible permanent magnet ring. This magnet retains the plunger in place. It stays in position even without current. Only an electrical impulse given to terminals A-C reserves the magnetic field. This magnetic field demagnetises the reversible magnet enough to allow the return spring to bring the plunger back to its initial position and close the valve.

Switch: Switch on (terminals A-B): Minimum 50 ms (maximum 1 s)
AC: Switch off (terminals A-C): Minimum 35 ms (maximum 1 s)



COIL GROUP
2.0/2.2

INCREASED SAFETY ELECTRICAL PARTS "nAc nCc"

3.5.1 ELECTRICAL PARTS 496155

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Compatibility Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex nAc nCc IIC T3 is required.

Benefits: Rotatable housing 360°, epoxy vernished steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space.Simplifies conversion of existing equipment to hazardous area requirements.

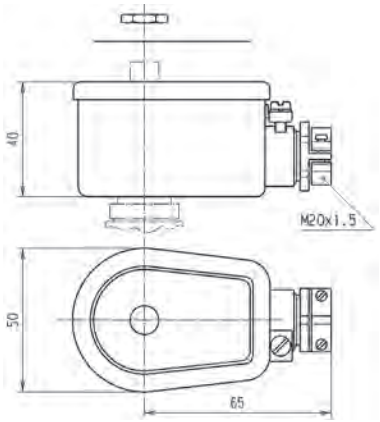


Reference			496155			
Certificate			LCIE 05 ATEX 6010 X			
Coil Group			2.0/2.2			
Type of protection		Gas	II 3 G Ex nAc nCc IIC T3			
		Dust	II 3 G D - Ex tc IIIC - T 195 °C			
Degree of protection			**IP67** according to IEC/EN 60529 Standards			
Ambiant temperature			-40°C to +65°C The application is limited also by the temperature range of the valve.			
Insulation Class			F 155°C			
Electrical connection			By special cable gland or M20x1.5 on screw terminals for wires up to 1.5 mm². Cables with outside diameter 6.5 mm to 13.5 mm can be simply sealed using the rubber gland with resilient sealing rings supplied.			
Elect. Power	DC	**Pn** (hot)	14 W			
		P (cold) 20°C	21 W			
	AC	**Pn** (holding)	14 W			
		Attraction cold	56 VA (20 W)			
Weight			320 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50 230/50	A2 F4	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **496155** for **24VAC/50Hz** = **496155A2**

Fuses:

Both electrical parts have to be connected in series with a safety fuse according to IEC 60127-3.



COIL GROUP
10.3

FLAMEPROOF
ELECTRICAL PARTS
"db"

ZONE 1/21

497105 & 497105.02 - ELECTRICAL PARTS

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db IIC T4 / T5 / T6 is required.

Benefits: Rotatable 360°, stainless steel with internal and external screw terminals for earth connection.

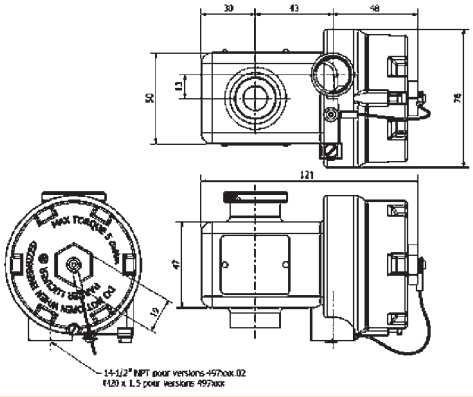
Small size for ease of mounting in confined space. Simplifies conversion of existing equipement to hazardous area requirements.



Reference			497105 (M20x1.5) 497105.02 (NPT 1/2")
Certificate			INERIS 12ATEX0041X - IECEx INE 12.0034X
Coil Group			10.3
Type of protection		Gas	II 2 G - Ex db IIC T4 / T5 / T6
		Dust	II 2 D - Ex tb IIIC - 130°C / 95°C / 80°C
Degree of protection			**IP66** (with relevant cable gland) according to IEC/EN 60529 Standards
Ambient temperature			-50°C to +80°C / +60°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve
Insulation Class			F 155°C
Electrical connection			Electric connection is done in the connection chamber on an easily accessible connector terminals. The cable entry to the connection chamber is made through a 1/2" NPT or M20x1.5 thread in which an approved Exdb IIC cable gland must be installed.
Electrical consumption	DC	**Pn** (hot)	8 W
		P (cold) 20°C	9 W
	AC	**Pn** (holding)	8 W
		Attraction cold	9 W
Voltage Tolerance			+/- 10% of nominal voltage
Emergising Cuty			ED 100%

Voltages	VAC/Hz	Code	VDC	Code
	24/50-60 110-115 / 50-60 220-230 / 50-60	P0 1P 3P	12 24 48 110	C1 C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **497105** for **24 VDC** = **497105C2**



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COIL GROUP
1.1

ENCAPSULATED
ELECTRICAL PARTS
"mb"

RoHS IECEx certified

ZONE 1/21

ELECTRICAL PART LOW POWER 22 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application:
Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T4 / T5 is required.

Benefits:
Coil and magnetic circuit encapsulated in synthetic material - offering shock and corrosion protection. AC coils with integrated thermal fuse. Small size for ease of mounting in confined spaces.



Reference			482605	482606 or 482606.160*
Certificate			LCIE 02 ATEX 6014 X - IECEx LCI 07.0026 X	
Coil Group			1.1	
Type of protection		Gas	II 2 G - Ex mb IIC T4 / T5	
		Dust	II 2 D - Ex tb IIIC - T130°C / 95°C	
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards	
Ambiant temperature			-40°C to +65°C / +40°C The application is limited also by the temperature range of the valve.	-40°C to +65°C / +35°C
Insulation Class			F 155°C	
Electrical connection			Cable connection (3 x 0.75 mm²) encapsulated with coil, cable material according to application	
Elect. Power	DC	**Pn** (hot)	5 W	2.5 W
		P (cold) 20°C	6.5 W	3 W
	AC	**Pn** (holding)	4 W	2 W
		Attraction cold	8.9 VA (5 W)	5.7 VA (2.5 W)
Weight			150 g	

Voltages "Un"	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un	12 24	C1 C2	24/50 48/50 110/50-115/50 220/50-230/50	A2 A4 0A 3D	24 48 110	C2 C4 C5

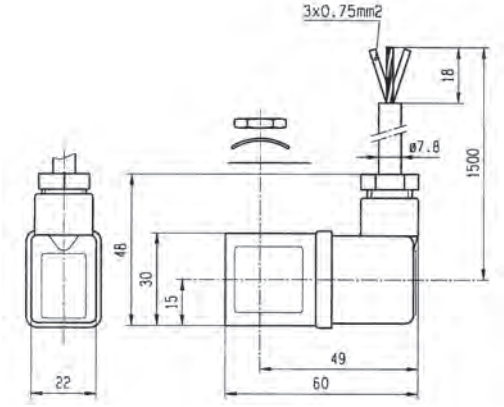
To Order a Coil choose Coil Ref + Voltage Code, example: **482605** for **24 VDC** = **482605C2**

* 482606.160 - 6 m cable length - available only in C2 and 3D
* 482606 - 1.5 m cable length

Fuses:
Both electrical parts 482605 & 482606 have to be connected in series with a safety fuse according to CEI 60127-3. Indicating example bellow:

482605:
DC: 12 V, 1000 mA - 24 V, 500 mA

482606:
DC: 12 V, 400 mA - 24 V, 200 mA - 48 V, 100 mA - 110 V, 50 mA
AC 50 HZ: 24 V, 250 mA - 48 V, 125 mA - 110/115 V, 63 mA - 220/230 V, 32 mA
AC 60 Hz: 24 V, 315 mA - 110/115 V, 63 mA - 220/230 V, 32 mA



Parker Hannifin Corporation
Fluid Control Solutions Europe
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COIL GROUP
2.0/2.1

ENCAPSULATED
ELECTRICAL PARTS
"**mb**"

ELECTRICAL PART 32 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T4 is required.

Benefits: Coil and magnetic circuit encapsulated in synthetic material offering shock and corrosion protection. AC/DC coils with integrated thermal fuse. DC coils with integrated surge suppression diode.

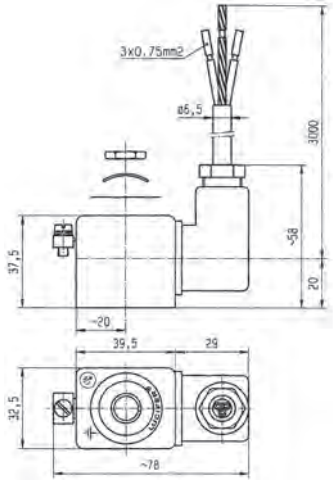
Small size for ease of mounting in confined spaces. This electrical



Reference			492670*			
Certificate			LCIE 02 ATEX 6015 X			
Coil Group			2.0 / 2.1			
Type of protection		Gas	II 2 G - Ex mb IIC T4			
		Dust	II 2 D - Ex tb IIIC - T130°C			
Degree of protection			**IP65** (With DIN Plug connector) according to IEC/EN 60529 standards			
Ambiant temperature			-40°C to +40°C The application is limited also by the temperature range of the valve.			
Class of insulation			F 155°C			
Electrical connection			Cable connection (3 x 1.5 mm²) encapsulated with coil, cable material according to application			
Elect. Power	DC	**Pn** (hot)	9 W			
		P (cold) 20°C	12 W			
	AC	**Pn** (holding)	8 W			
		Attraction cold	26 VA (9 W)			
Weight			320 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			48/50 230/50	A4 F4	24 48 110	C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **492670** for **24 VDC** = **492670C2**

* 492670 3 m cable length



Special conditions:

The supply connection lines have to be fixed and positioned in such a way that they are protected against mechanical damages.

It is necessary to use a safety fuse with a nominal current corresponding to the coil current (max. 3 x nominal according to IEC 60127 and IEC 60269) against short-circuits.

Recommended values:

DC: 12 V, 1250 mA - 24 V, 630 mA - 48 V, 315 mA - 110 V, 125 mA
AC 50 HZ: 24 V, 1000 mA - 48 V, 500 mA - 110 V, 250 mA - 230 V, 100 mA
AC 60 Hz: 240 V, 100 mA

COIL GROUP
2.0/2.1

ENCAPSULATED ELECTRICAL PARTS "mb"

WITH WATER PROOF METAL HOUSING 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T4/ T5 is required.

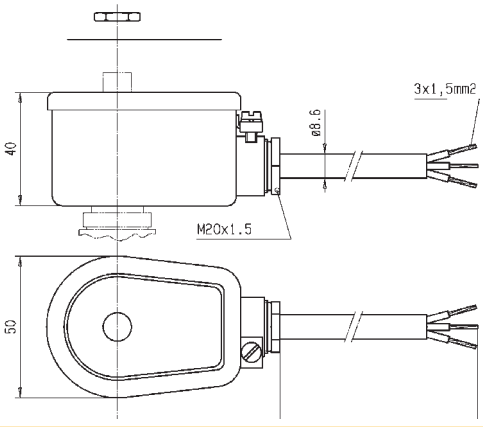
Benefits: Epoxy-vernished steel housing - solenoid coil, rectifier (silicium diodes), fuse and varistor protection element are completely encapsulated in the coil housing by means of epoxy resin.

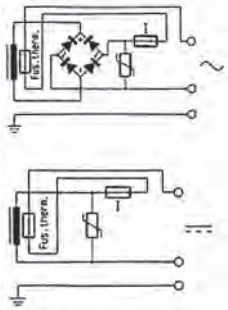
Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



Reference			**492070 (with 3 m cable length)** **492070.160 (with 6 m cable length)**			
Certificate			**LCIE 02 ATEX 6017 X - IECEx LCI 09.0024 X**			
Coil Group			**2.0 / 2.1**			
Type of protection		**Gas**	II 2 G - Ex mb IIC T4/ T5			
		Dust	II 2 D - Ex tb IIIC - T130 / 95°C			
Degree of protection			**IP67** according to IEC/EN 60529 standards			
Ambient temperature			-40°C to +65°C / 40°C The application is limited also by the temperature range of the valve.			
Insulation Class			F 155°C			
Electrical connection			Cable connection (3 x 1.5 mm²) with cable gland M20 x 1.5, external earth screw connection.			
Elect. Power	**DC**	**Pn** (hot)	8 W			
		P (cold) 20°C	10 W			
	AC	**Pn** (holding)	9 W			
		Attraction cold	11 W			
Weight			500 g			
Voltages "Un"			**VAC/Hz**	**Code**	**VDC**	**Code**
-10% to +10% of the Un			24/50-60	P0	24	C2
			110/50-60	P2	48	C4
			220/50-60	R5	110	C5
			230/50-60	P9		
			240/50-60	Q1		

To Order a Coil choose Coil Ref + Voltage Code, example: **492070** for **24 VDC** = **492070C2**





COIL GROUP
2.0/2.1

ENCAPSULATED ELECTRICAL PARTS "mb"

HZ10 COIL DOUBLE FREQUENCY

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T3/T4/T5 is required.

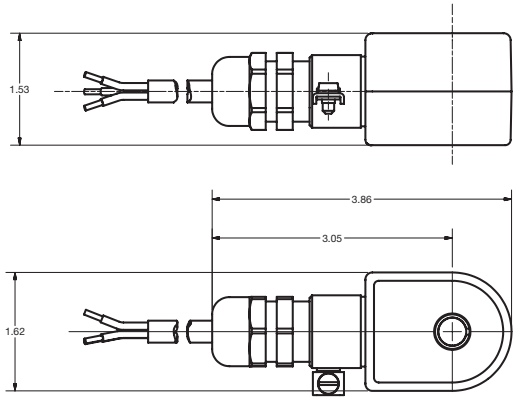
The coil is delivered with a 3m cable.



Specification			Double Frequency
Reference			HZ10
Certificate			LCIE 02 ATEX 6020 X - IECEx LCI 08.0027 X
Coil Group			2.0 / 2.1
Type of protection		Gas	II 2 G - Ex mb IIC T3/T4/T5
		Dust	II 2 D - Ex tb IIIC T195°C / 130°C / 95°C
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards
Ambient temperature			-40°C to +80°C / 65°C / 40°C The application is limited also by the temperature range of the valve.
Insulation Class			H 180°C
Duty cycle			100% continuous
Electrical connection			Cable connection (3 x 1.5 mm²) with cable gland M20 x 1.5, external earth screw connection.
Elect. Power	DC	**Pn** (hot)	8 W
		P (cold) 20°C	-
	AC	**Pn** (holding)	8 W
		Attraction cold	-
Weight			299 g

Voltages "Un"	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un	24/60	B2	12	C1
	110/50-120/60	P3	24	C2
	220/50-240/60	Q3	120	C6

To Order a Coil choose Coil Ref + Voltage Code, example: **HZ10** for **24 VDC** = **HZ10C2**



Dimensions in Inches.

COIL GROUP
2.0/2.2

ENCAPSULATED ELECTRICAL PARTS "mb"

RoHS CE Ex IECEx certified

HZ11 COIL DOUBLE FREQUENCY

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

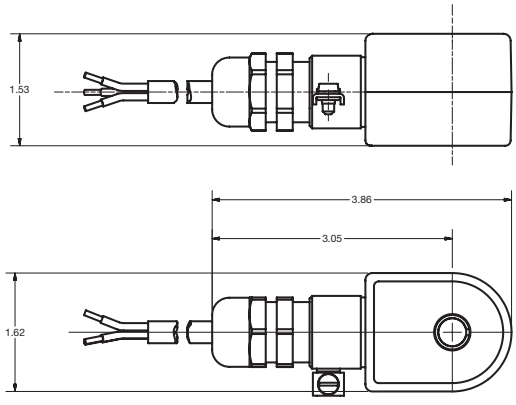
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T3/T4/T5 is required.

The coil is delivered with a 3m cable.



Specification			Double Frequency			
Reference			HZ11			
Certificate			LCIE 02 ATEX 6020 X - IECEx LCI 08.0027 X			
Coil Group			2.0 / 2.2			
Type of protection		Gas	II 2 G - Ex mb IIC T3/T4/T5			
		Dust	II 2 D - Ex tb IIIC T195°C / 130°C / 95°C			
Degree of protection			**IP65** (with plug) according to IEC/EN 60529 Standards			
Ambient temperature			-40°C to + 65°C / 40°C The application is limited also by the temperature range of the valve..			
Insulation Class			H 180 °C			
Duty cycle			100% continuous			
Elect. Power	DC	**Pn** (hot)	14 W			
		P (cold) 20°C	-			
	AC	**Pn** (holding)	14 W			
		Attraction cold	-			
Weight			299 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/60	B2	12	C1
			110/50-120/60	P3	24	C2
			220/50-240/60	Q3	120	C6

To Order a Coil: Coil Ref + Voltage Code, example: **HZ11** for **24 VDC** = **HZ11C2**



Dimensions in Inches.

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

495900 - LOW POWER ELECTRICAL PARTS 37 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

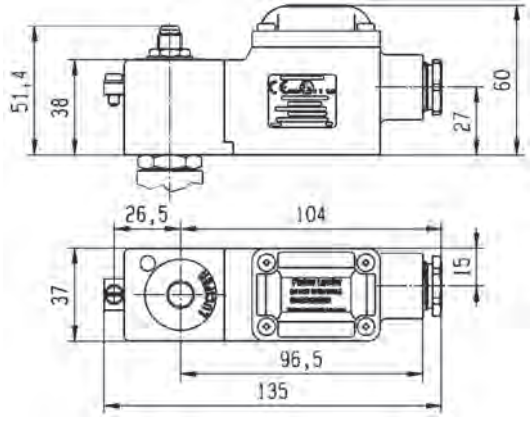
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

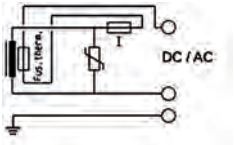
The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



Reference			495900 (VAC)		495900 (VDC)	
Certificate			LCIE 03 ATEX 6451 X - IECEx LCI 06.0004 X			
Coil Group			6.0			
Type of protection		Gas	II 2 G - Ex db mb IIC T4 / T5 / T6		II 2 G - Ex db mb IIC T4 / T5 / T6	
		Dust	II 2 D Ex tb IIIC - 130°C / 95°C / 80°C		II 2 D Ex tb IIIC - T130°C / 95°C / 80°C	
Degree of protection			**IP67** according to IEC/EN 60529 Standards			
Ambient temperature			-40°C to +80°C / 55°C / 40°C		-40°C to +80°C / 65°C / 55°C	
			The application is limited also by the temperature range of the valve.			
Class of insulation			H (180 °)			
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland			
Elect. Power	DC	Pn (hot)	-		2 W	
		P (cold) 20°C	-		2.5 W	
	AC	Pn (holding)	2.5 W		-	
		Attraction cold	3 W		-	
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 10 % to + 10 % for Un DC.			24/50 48/50 115/50 230/50	A2 A4 E5 F4	24 48 110	C2 C4 C5

To Order a Coil: Coil Ref + Voltage Code, example: 495900 for 24 VDC = **495900C2**





COIL GROUPS
2.0/2.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"

495905 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 is required.

Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

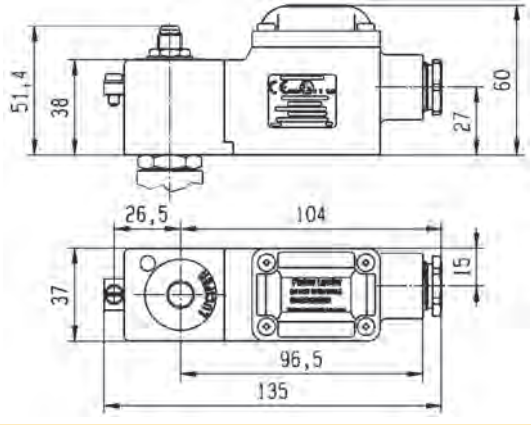
The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



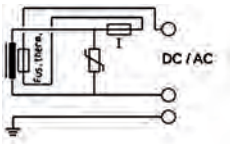
Reference			495905		495905.05*	
Certificate			LCIE 03 ATEX 6451 X - IECEx LCI 06.0004 X			
Coil Group			2.0 / 2.1			
Type of protection		Gas	II 2 G - Ex db mb IIC T4			
		Dust	II 2 D - Ex tb IIIC - 130°C			
Degree of protection			**IP67** according to IEC/EN 60529 Standards			
Ambient temperature			-40°C to +80°C The application is limited also by the temperature range of the valve.			
Class of insulation			H (180 °)			
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland.			
Elect. Power	DC	**Pn** (hot)	8 W			
		P (cold) 20°C	9 W			
	AC	**Pn** (holding)	8 W			
		Attraction cold	9 W			
Voltages "Un"			**VAC/Hz**	**Code**	**VDC**	**Code**
-10% to +10% of Un for AC -10% to +10% for Un DC			24/50 48/50 115/50 230/50	A2 A4 E5 F4	24 48 110	C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **495905** for **24 VDC** = **495905C2**

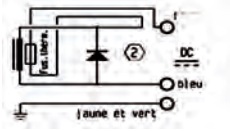
* 495905.05 available only in C4



495905



***495905.05**



COIL GROUP
10.2/10.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"

RoHS IECEx certified

ZONE 1/21

496555 & 496560 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

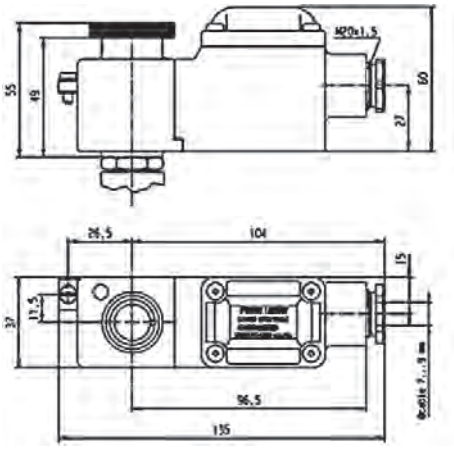
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

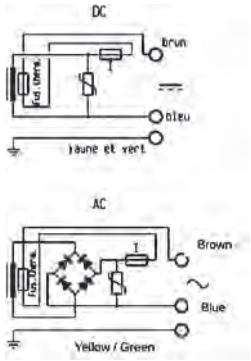
The plastic housing is delivered with M20 x 1.5 cable gland certified for use "db" protection. Small size for ease of mounting in confined space.



Reference			496555				496560			
Certificate			LCIE 07 ATEX 6075 X - IECEx LCI 07.0014X							
Coil Group			10.2				10.1			
Type of protection		Gas	II 2 G - Ex db mb IIC T4 / T5 / T6				II 2 G - Ex db mb IIC T4			
		Dust	II 2 D - Ex tb IIIC - T130°C / 95°C / 80°C				II 2 D - Ex tb IIIC - T130°C			
Degree of protection			IP 67 according to IEC/EN 60529 Standards							
Ambiant temperature			-40°C to +65 / 50 / 35°C The application is limited also by the temperature range of the valve.				-40°C to +65°C			
Class of insulation			H (180 °)							
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland.							
Elect. Power	DC	Pn (hot)	-		6 W		-		8 W	
		P (cold) 20°C	-		7.5 W		-		10.5 W	
	AC	Pn (holding)	6 W		-		8 W		-	
		Attraction cold	7.5 W		-		10.5 W		-	
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			230/50-60 110/50-60 24/50-60 48/50-60	P9 P2 P0 S4	24 48 110	C2 C4 C5	230/50-60 110/50-60 24/50-60 48/50-60	P9 P2 P0 S4	24 48 110	C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **496555** for **24 VDC** = **496555C2**





Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

COIL GROUP
10.2/10.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"

RoHS IECEx certified

496700 & 496800 - ELECTRICAL PARTS 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4 to T6 is required.

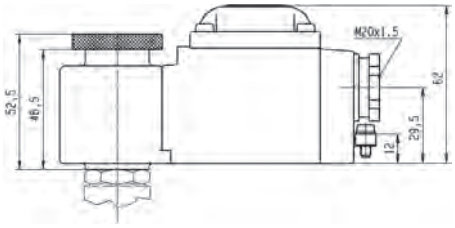
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

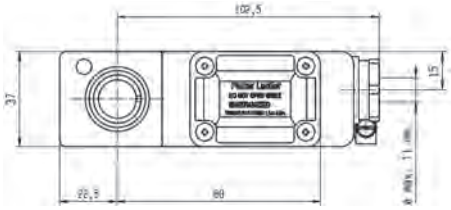
The plastic housing is delivered with 1/2" NPT or M20 x 1.5 threaded hole for wide range of cable glands. Small size for ease of mounting in confined space.

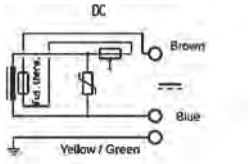


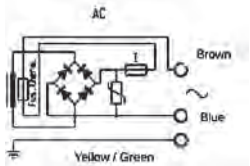
Reference			496700 or 496700.02 (NPT)				496800 or 496800.02 (NPT)			
Certificate			LCIE 10 ATEX 3059 X - IECEx LCI 10.0023X							
Coil Group			10.2				10.1			
Type of protection		Gas	II 2 G - Ex db mb IIC T4 / T5 / T6				II 2 G - Ex db mb IIC T4			
		Dust	II 2 D - Ex tb IIIC - T130 / 95 / 80°C				II 2 D - Ex tb IIIC - T130°C			
Degree of protection			**IP67** according to IEC/EN 60529 Standards							
Ambiant temperature			-40°C to +35°C / +50°C / +65°C The application is limited also by the temperature range of the valve.				-40°C to +65°C			
Class of insulation			H (180°)							
Electrical connection			Electric connection is done in the connection box passes through a 1/2 NPT or M20x1.5 thread in which a certified Ex dBIIC cable gland must be installed							
Elect. Power	DC	**Pn** (hot)	-		6 W		-		8 W	
		P (cold) 20°C	-		7.5 W		-		10.5 W	
	AC	**Pn** (holding)	6 W		-		8 W		-	
		Attraction cold	7.5 W		-		10.5 W		-	
Voltages "Un"			**VAC/Hz**	**Code**	**VDC**	**Code**	**VAC/Hz**	**Code**	**VDC**	**Code**
-10% to +10% of the Un			230/50-60	P9	24	C2	230/50-60	P9	24	C2
			110/50-60	P2	48	C4	110/50-60	P2	48	C4
			24/50-60	P0	110	C5	24/50-60	P0	110	C5
			48/50-60	S4			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: **496700** for **24 VDC** = **496700C2**









COIL GROUP
2.0/2.1

FLAME PROOF ENCAPSULATED ELECTRICAL PART "db mb"

493640 OR HZ09 - ELECTRICAL PARTS

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex db mb IIC T4/T5 is required.

Benefits: Metal armature encapsulated in synthetic material provides high shock and corrosion protection.

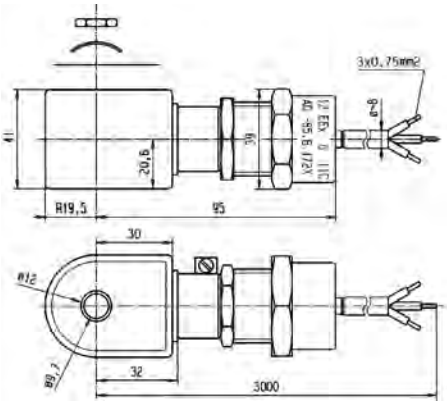
Small size for ease of mounting in confined space.



Reference			493640 493640.60*			
Certificate			LCIE 02 ATEX 6009 X			
Coil Group			2.0 / 2.1			
Type of protection	Gas		II 2 G Ex db mb IIC T4/T5			
	Dust		II 2 D - Ex tb IIIC - T130°C / T95°C			
Degree of protection			**IP65** according to IEC/EN 60529 Standards			
Ambiant temperature			- 40°C to +100°C / +75°C The application is limited also by the temperature range of the valve.			
Class of insulation			F (155 °)			
Electrical connection			Special "Ex db" cable gland, galvanized steel, with EPDM sealing. (EPR) cable, outside diameter 7.3 ± 0.5 mm and 3000 mm long.			
Elect. Power	DC	**Pn** (hot)	8 W			
		P (cold) 20°C	9 W			
	AC	**Pn** (holding)	8 W			
		Attraction cold	32 VA (9 W)			
Weight			500 g			
Voltages "Un"			**VAC/Hz**	**Code**	**VDC**	**Code**
- 15% to +10% of the Un			110/50	A5	24	C2
			110-120/50-60	P3	48	C4
			220-240/50-60	Q3	120	C6

To Order a Coil choose Coil Ref + Voltage Code, example: **493640** for **24 VDC** = **493640C2**

* 493640.60 - 6 m cable length - Available only in C2



Fuses

This electrical part is equipped with a standard thermal cut-off fuse on all models and voltages

This electrical part must be connected in series with a safety fuse according to IEC 60127-3.

DC: 24V, 400 mA

AC: 110/50-120/60, 200 mA
220/50-240/60, 100 mA
230/50, 95 mA

COIL GROUP
2.0/2.1

INCREASED SAFETY ELECTRICAL PARTS "eb"

483371 & 494040 - ELECTRICAL PARTS 50 MM

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb IIC T3 orT4 is required.

Benefits: Rotatable housing 360°, epoxy vernished steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space.Simplifies conversion of existing equipment to hazardous area requirements.



Reference			483371	494040
Certificate			LCIE 02 ATEX 6011 X	LCIE 02 ATEX 6013 X
Coil Group			2.0 / 2.1	
Type of protection		Gas	II 2 G - Ex eb IIC T4	II 2 G - Ex eb IIC T3 / T4
		Dust	II 2 D - Ex tb IIIC - T130°C	II 2 D - Ex tb IIIC - T195°C / T130 °C
Degree of protection			**IP67** according to IEC/EN 60529 Standards	
Ambiant temperature			-40°C to +65°C The application is limited also by the temperature range of the valve.	-40°C to +90°C / to +65°C
Class of insulation			F 155°C	H (180°)
Electrical connection			By special cable gland or M20 x 1.5 "Ex eb" on screw terminals for wires up to 1.5 mm². Cables with outside diameter 6.5 mm to 13.5 mm can be simply sealed using the ru bber gland with resilient sealing rings supplied.	
Elect. Power	DC	**Pn** (hot)	8 W	8 W
		P (cold) 20°C	9 W	9 W
	AC	**Pn** (holding)	8 W	8 W
		Attraction cold	32 VA (9 W)	32 VA (9 W)
Weight			320 g	

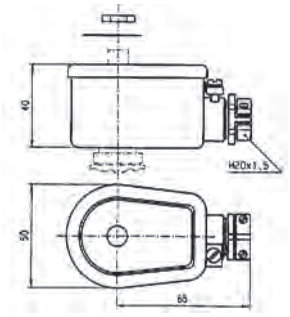
Voltages "Un"	VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un	24/50 48/50 110-115/50 220-230/50	A2 A4 OA 3D	24 48 110	C2 C4 C5	220-230/50	3D	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: **483371** for **24 VDC** = **483371C2**

Fuses:
Both electrical parts have to be connected in series
with a safety fuse according to IEC 60127-3.

483371:
DC: 24 V, 400 mA - 48V, 250 mA - 110 V, 100 mA
AC 50HZ: 24 V, 630 mA - 48V, 315 mA - 110 V, 160 mA - 220/230 V, 80 mA

494040:
DC: 12 V, 400 mA - 24V, 200 mA - 48 V, 100 mA - 110V, 50 mA
AC 50HZ: 24 V, 250 mA - 48V, 125 mA - 110/115 V, 63 mA - 220/230 V, 32 mA



492310 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb mb II T4 to T5 is required.

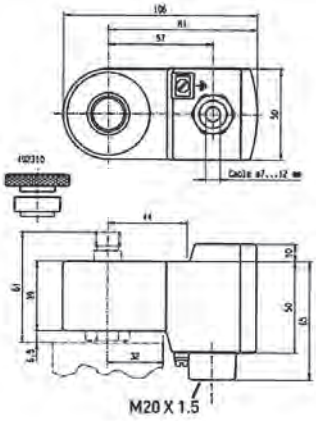
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

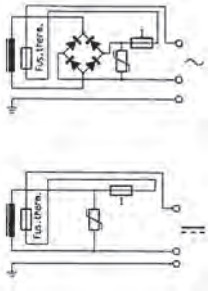
Small size for ease of mounting in confined space.



Reference			492310			
Certificate			LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X			
Coil group			10.1			
Type of protection		Gas	II 2 G - Ex eb mb II T4 / T5			
		Dust	II 2 D - Ex tb IIIC - T130°C / T95°C			
Degree of protection			**IP66** according to IEC/EN 60529 Standards			
Ambiant temperature			-40°C to +75°C / to +40°C The operating temperature of the valve/coil can be limited by that of the valve			
Class of insulation			F 155°C			
Electrical connection			Connection box with terminals and cable entry via gland M20 x 1.5 - Possibility for additional earth via external screw.			
Elect. Power	DC	**Pn** (hot)	6 W			
		P (cold) 20°C	7.5 W			
	AC	**Pn** (holding)	6 W			
		Attraction cold	7.5 W			
Weight			500 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60	P0	24	C2
			48/50-60	S4	48	C4
			230/50-60	P9	110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: **492310** for **24 VDC** = **492310C2**





COIL GROUP
9.0

INCREASED SAFETY AND ENCAPSULATED ELECTRICAL PARTS "eb mb"

492210 - ELECTRICAL PARTS "BOOSTER" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection - Ex eb mb IIC T5/T6 is required.

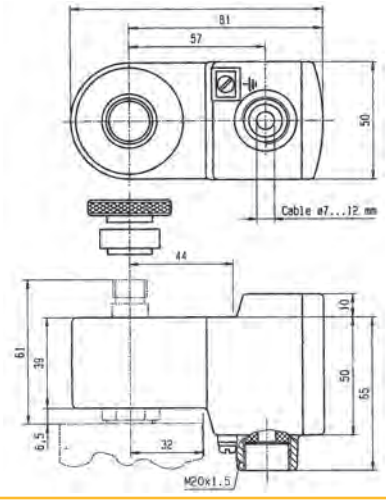
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Available only in 24 VDC (suffix code : C2)



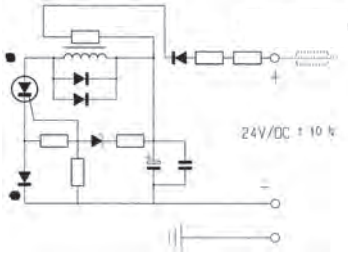
Reference		492210
Certificate		LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X
Coil group		9.0
Type of protection	Gas	II 2 G - Ex eb mb IIC T5 / T6
	Dust	II 2 D - Ex tb IIIC - T95°C / T80°C
Degree of protection		**IP66** according to IEC/EN 60529 Standards
Ambient temperature		-40°C to +75°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve
Insulation Class		F 155°C
Electrical connection		Connection box with terminals and cable entry via gland M20 x 1.5 Possibility for additional earth via external screw
Power consumption DC		1 to 1.8 W according to length of cable
Attraction current		I min = 60 mA (I nominal = 75 mA)
Voltage DC		U nominal = 24 VDC (C2), Umin = 21.6 VDC
Resistance		23 Ω + (R = 270 Ω)
Inductance		0 mH
Capacitance		0 µF
Response time		2 - 4 s
Weight		500 g

To Order a Coil choose Coil Ref + Voltage Code, example: **492210 for 24 VDC = 492210C2**



Indications:

Booster for Offshore valves



These electrical parts need an external fuse of I = 100 mA

COIL GROUP
2.0/2.1

INCREASED SAFETY
AND ENCAPSULATED
ELECTRICAL PARTS "**eb mb**"

492190 - ELECTRICAL PARTS 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex eb mb IIC T3 to T4 is required.

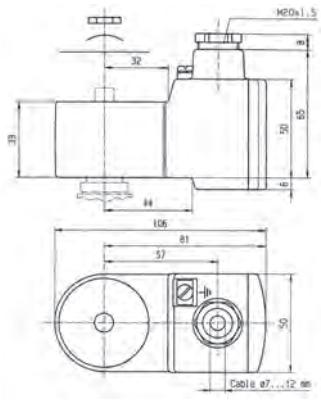
Benefits: Rotatable 360°, fiberglass -reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

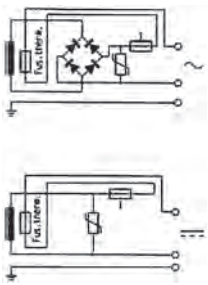
Small size for ease of mounting in confined space.



Reference			492190			
Certificate			LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X			
Coil Group			2.0 / 2.1			
Type of protection		Gas	II 2 G - Ex eb mb IIC T3 / T4			
		Dust	II 2 D - Ex tb IIIC - 195°C / 130°C			
Degree of protection			**IP66** according to IEC/EN 60529 Standards			
Ambient temperature			-40°C to +75°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve			
Insulation Class			F 155°C			
Electrical connection			Connection box with terminals and cable entry via gland M20 x 1.5 Possibility for additional earth via external screw			
Electrical consumption	DC	**Pn** (hot)	9 W			
		P (cold) 20°C	11 W			
	AC	**Pn** (holding)	11 W			
		Attraction cold	13 W			
Weight			320 g			
Voltages "Un" -10% to +10% of the Un			VAC/Hz	Code	VDC	Code
			24/50-60 110/50-60 230/50-60	P0 P2 P9	24 48 110	C2 C4 C5

To Order a Coil choose Coil Ref + Voltage Code, example: **492190** for **24 VDC** = **492190C2**





COIL GROUP
7.0

INTRINSICALLY SAFE ELECTRICAL PARTS "ia"

483580 - 483960 ELECTRICAL PARTS 32 mm "IS"

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T6 is required.

Benefits: Fully encapsulated assembly comprising a coil, metal armature, three diodes circuit and DIN plug connection.

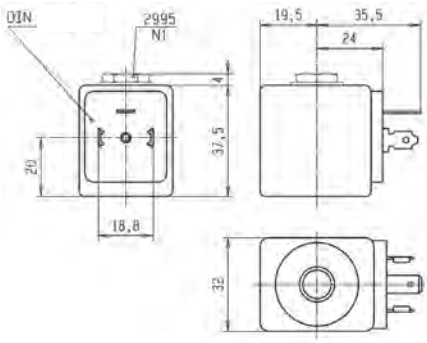
The encapsulation provides an effective compact housing offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined space. Available only in 28 VDC (suffix code : N7)



Reference (without plug) (with plug)			483580.01 483960.01
Certificate			LCIE 02 ATEX 6065 X - IECEx LCI 07.0025 X
Coil Group			7.0
Type of protection		Gas	II 1 G - Ex ia IIC - T6
		Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection			**IP65** with plug according to IEC/EN 60529 Standards
Ambiant temperature			- 40°C à + 55°C The operating temperature of the valve/coil can be limited by that of the valve.
Electrical connection			The coil is connected with a 2P + E plug according to EN 175301-803 type A Contact 1 is marked as the positive pole ⊕.
Maximum supply voltage			28 VDC (N7) - 110 mA The minimum operating voltage at maximum 60°C is 14 VDC.
Power	DC	Minimum	500 mW
		Maximum	3 W
			Depending on applied voltage, IS barrier type and resistance of connected cable
Coil resistance at 20°C Impedance Apparent inductance Apparent capacitance			340 Ω 340 Ω 0 mH 0 µF
Weight			160 g (with plug)

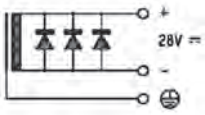
To Order a Coil choose Coil Ref + Voltage Code, example: **483580** for **28 VDC** = **483580N7**



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 35 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in in appendix section.

These coil must be used with suitable housing : **Ref. 2995**

495910 - MINIWATT - 0.3 W
ELECTRICAL PARTS "IS" "BOOSTER" 37 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T4 to T6 is required.

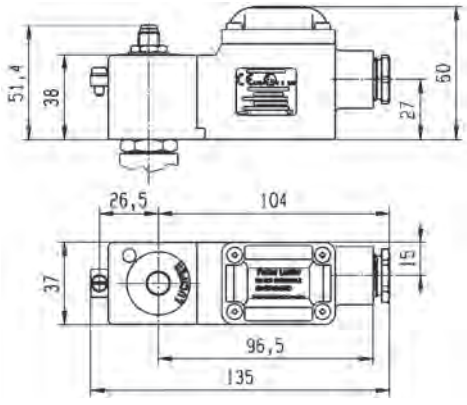
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

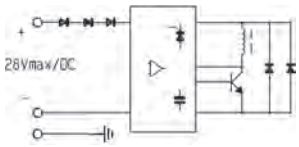
Small size for ease of mounting in confined space. Available only in 28 VDC (code: N7).



Reference			495910
Certificate			LCIE 03 ATEX 6464 X - IECEx LCI 07.0006 X
Coil Group			8.0
Type of protection		Gas	II 1 G - Ex ia IIC - T4 / T5 / T6
		Dust	II 1 D - Ex ta IIIC T80 / 95 / 130°C
Degree of protection			**IP67** according to IEC/EN 60529 Standards
Ambiant temperature			- 40°C to +80°C / 75°C / 65°C The application is limited also by the temperature range of the valve..
Class of insulation			H 180°C
Electrical connection			Electric connection is done in the connection box on an easily accessible connector terminals. The introduction of the cable (Ø min 7 mm, Ømax. 11 mm, section max. 2.5 mm²) in the connection box passes by the built in M20 x 1.5 cable gland
Maximum supply voltage			28 VDC (N7) - 110 mA
Power	DC	Minimum	0.3 W (with 13 VDC)
		Maximum	1.2 W (with 24 VDC)
			Depending on applied voltage, IS barrier type and resistance of connected cable
Line check			4 mA or 5 VDC max
Coil resistance at 20°C Impedance Apparent inductance Apparent capacitance			Charge ~ 550 Ω - Holding ~ 500 Ω 0 mH 0 µF
Response time			2 - 3 s
Weight			500 g

To Order a Coil choose Coil Ref + Voltage Code, example: **495910** for **28 VDC** = **495910N7**





COIL GROUP
9.0

INTRINSICALLY SAFE ELECTRICAL PARTS "ia"

496565 ELECTRICAL PARTS "BOOSTER" "IS" 37 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC T4 to T6 is required.

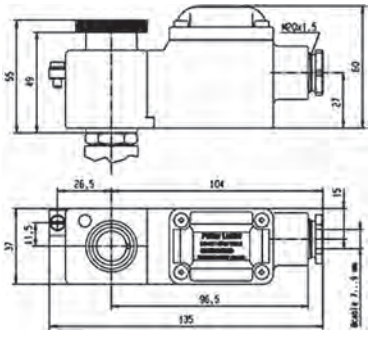
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland. Small size for ease of mounting in confined space. Available only in 28 VDC (code: N7).



Reference		496565	
Certificate		LCIE 08 ATEX 6071 X - IECEx LCI 08.0030 X	
Coil group		9.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T4 / T5 / T6	
	Dust	II 1 D - Ex ta IIIC - T80 / T95 /T130°C	
Degree of protection		**IP67** according to IEC/EN 60529 Standards	
Ambiant temperature		- 40°C to +80 / 75 / 65°C The application might also be limited by the temperature range of the valve.	
Electrical connection		Cable connection through a plastic cable gland M20 x 1.5 allowing use of cable diameter from 7 to 12 mm. Additional earth connection possible with external screw terminal.	
Class of insulation		H180°C	
Minimum Courant of function		20 mA	
Minimum voltage of function at 60°C		28 VDC (N7)	
Safety parameters Maximum acceptable values: Ui (V) / Ii (mA) / Pi (W)		28 V / 110 mA / 0.77 W 27 V / 120 mA / 0.81 W 26 V / 135 mA / 0.88 W 25 V / 150 mA / 0.94 W 24 V / 170 mA/ 1.02 W	28 V / 280 mA / 1.96 W 27 V / 320 mA / 2.16 W 26 V / 350 mA / 2.27 W 25 V / 390 mA / 2.43 W 24 V / 430 mA/ 2.58 W
Line check		4 mA or 5 VDC max	
Apparent Impedance Typ. Apparent Inductance Apparent Capacitance		Attraction ~ 600 Ω - Holding ~ 570 Ω 0 mH 0 µF	
Response Time Typ.		2 - 4 s	
Weight		500 g	

To Order a Coil choose Coil Ref + Voltage Code,
example: **496565** for **28 VDC** = **496565N7**



492965 ELECTRICAL PART "BOOSTER" "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

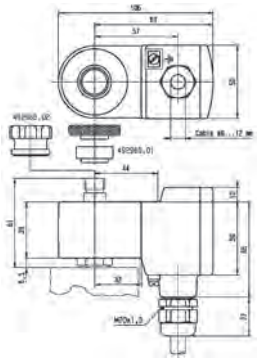
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Small size for ease of mounting in confined space. Available only in 28 VDC.



Reference			492965.01 - (Stainless steel fixation) 492965.02 - (Plastic fixation)
Certificate			LCIE 02 ATEX 6066 X - IECEx LCI 07.0007 X
Coil Group			9.0
Type of protection		Gas	II 1 G - Ex ia IIC - T6
		Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection			**IP66** according to IEC/EN 60529 Standards
Ambiant temperature			- 40°C to +65°C The application is limited also by the temperature range of the valve.
Electrical connection			Cable connection through a plastic or stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.
Class of insulation			H180°C
Maximum supply voltage			28 VDC (N7) - 110 mA
Power	DC	Minimum	0.3 W (with 13 VDC)
		Maximum	2.3 W (with 24 VDC)
			Depending on applied voltage, IS barrier type and resistance of connected cable
Line check			4 mA or 5 VDC max
Coil resistance at 20°C Impedance Apparent inductance Apparent capacitance			85 Ω 275 Ω (with 13 VDC) - 260 Ω (with 24 VDC) 0 mH 0 µF
Response time			2 - 4 s
Weight			500 g

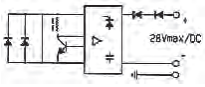
To Order a Coil choose Coil Ref + Voltage Code, example: **492965.01** for **28 VDC** = **492965.01N7**



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 29 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

COIL GROUP
7.0

INTRINSICALLY SAFE ELECTRICAL PARTS "ia"

488650.01 & 490885 "NEMA" ELECTRICAL PARTS "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

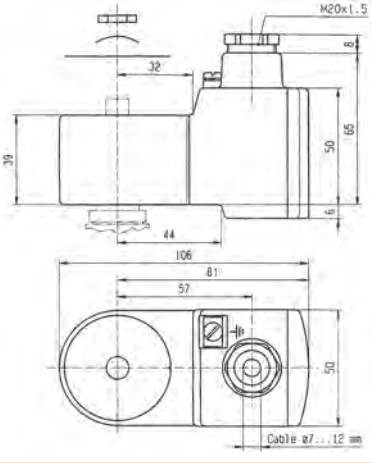
Benefits: Rotatable 360° housing, polyamid with fibreglass housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference			488650.01	490885
Certificate			LCIE 02 ATEX 6024 X	LCIE / FM / CSA
Coil Group			7.0	
Type of protection		Gas	Il 1 G - Ex ia IIC - T6	Cl. I, Div.I, Gr. A, B, C, D, Cl. II, Div.I, Gr. E, F, G
		Dust	Il 1 D - Ex ta IIIC - T80°C	
Degree of protection			**IP66** according to IEC/EN 60529 Standards	NEMA 4 - 4X
Ambiant temperature			- 40°C to +65°C The operating temperature of the valve/coil can be limited by that of the valve.	60°C
Electrical connection			Cable entry through a cable gland M20 x1.5. Screw terminals for leads 3 x 1.5 mm² max. Additional earth connection possible with external screw terminal	
Class of insulation			H180°C	
Maximum supply voltage			28 VDC (N7) - 110 mA The minimum operating voltage at maximum 60°C is 11.5 VDC.	30 VDC(L8) - 100 mA
Power	DC	Minimum	300 mW	
		Maximum	3 W	
			Dependent on the applied voltage, type of barrier IS and the resistance of the connected cable	
Coil resistance at 20°C Impedance Apparent inductance Apparent capacitance			295 Ω 345 Ω 0 mH 0 µF	
Weight			500 g	

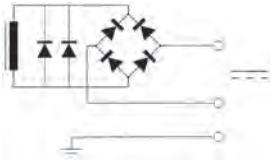
To Order a Coil choose Coil Ref + Voltage Code, example: **490885** for **30VDC** = **490885L8**



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 29 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

482870.01 ELECTRICAL PARTS "IS" 50 mm

These coils can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where an explosion-proof protection Ex ia IIC - T6 is required.

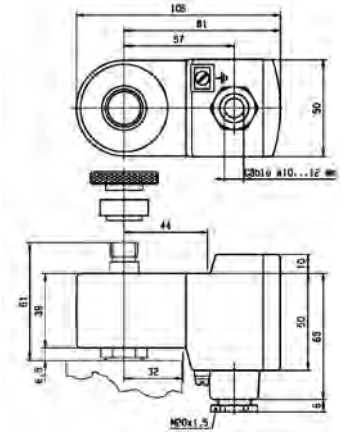
Benefits: Rotatable 360° housing, polyamid with fibreglass housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference			482870.01
Certificate			LCIE 02 ATEX 6024 X
Coil Group			12.0
Type of protection		Gas	II 1 G - Ex ia IIC - T6
		Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection			**IP66** according to IEC/EN 60529 Standards
Ambiant temperature			- 40°C to +65°C The application is limited also by the temperature range of the valve.
Class of insulation			H180°C
Electrical connection			Cable connection through a stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.
Maximum supply voltage			28 VDC (N7) - 110 mA
Power	DC	Minimum	300 mW
		Maximum	3 W
			Depending on applied voltage, IS barrier type and resistance of connected cable
Coil resistance at 20°C Impedance Apparent inductance Apparent capacitance			295 Ω 345 Ω 0 mH 0 µF
Weight			500 g

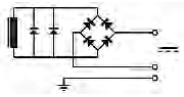
To Order a Coil choose Coil Ref + Voltage Code, example: 482870.01 for **30VDC =482870L8**



Important

The intrinsic safety supply circuit must have sufficient capacitance in all ambient conditions to guarantee a minimum operating current in excess of **29 mA** across the coil.

The minimum current for holding in the energised position is 20 mA



For the barrier compatibility see the corresponding table in appendix section.

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HOUSING

4270 COIL STANDARD HOUSING WITH SCREW TERMINALS

Standard housing:

Reference:	4270
Material:	Epoxy vernished steel with cataphoresis traitement
Degree of protection:	**IP** according to IEC/EN 60529 **IP 10** with armoured conduit **IP 44** with cable gland
Electrical connection:	Can be made with armoured conduit or cable gland M12x1.5. Parts No. 495740 (cable gland M12x1.5) and 484093 to be ordered separately. Grounding connection by screw M3 on the inside of housing base plate.
Weight:	120 g



Benefits:

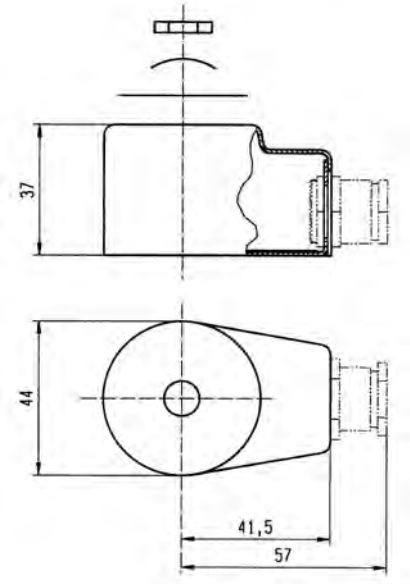
This metal housing offers the ideal protection against shocks and corrosion- rotatable 360° - easy mounting in confined spaces - single-nut mounting - light weight - simplifies conversion of existing equipment to other requirements.

Application:

The majority of our valves can be fitted with this standard housing, and can be mounted with several compatible coils group.

Compatible coils:

- **481000 - Standard Coil**
  8 W Class F (155°C)
- **483520 - Double-Frequency Coil**
  9 W Class F (155°C)
- **481044 - Standard High-Power Coil**
  14 W Class F (155°C)
- **485100 - Standard High-Temperature Coil**
  8 W Class H (180°C)
- **486265 - High-Temperature and High-Power Coil**
  14 W Class H (180°C



HOUSING

4269

HOUSING FOR BISTABLE (IMPULSE) COILS

Housing for bistable coil:

Reference:	4269
Material:	Epoxy vernished steel
Degree of protection:	**IP** according to IEC/EN 60529 **IP 10** with armoured conduit **IP 44** with cable gland
Electrical connection:	Can be made with armoured conduit or cable gland M12x1.5. Parts No. 484092 and 484093 to be ordered separately. Grounding connection by screw M3 on the inside of housing base plate.
Weight:	120 g



Benefits:

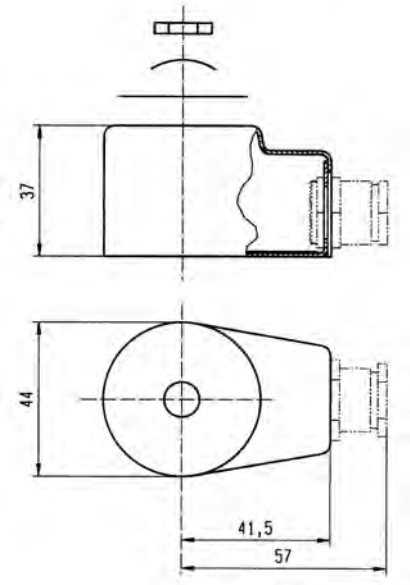
This metal housing offers the ideal protection against shocks and corrosion- rotatable 360° - easy mounting in confined spaces - single-nut mounting - light weight - simplifies conversion of existing equipment to other requirements.

Application:

This housing is specially designed for group 4.0 coils and can be mounted only with valves controlled by electrical impulses.

Compatible coils:

- **484990 - Impulse coil for AC**
  11 W Class F (155°C)
- **485400 - Impulse coil for DC**
  13 W Class F (155°C)



HOUSING

4538 WATERPROOF AND DUSTPROOF HOUSING

Waterproof housing:

Reference:	4538
Material:	Epoxy vernished steel
Degree of protection:	**IP** according to IEC/EN 60529 **IP 67** with cable gland
Electrical connection:	Cable connection by cable gland M20x1.5 according to DIN 46320. Cable with outer diameter 6.5 - 13.5 mm can be simply sealed using a rubber gland with resilient sealing rings. The enclosure is internally and externally fitted with grounding and earthing screw terminals.
Weight:	180 g



Benefits:

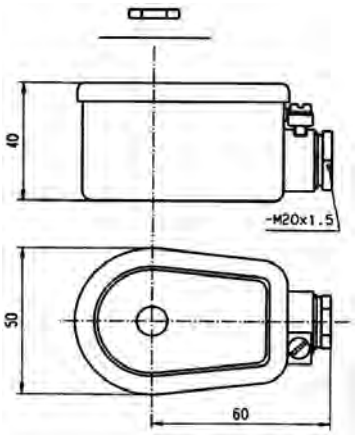
This enclosure is dust- and waterproof. It corresponds to the degree of "International Protection" IP 67 according to IEC / EN 60529. Corrosion resistant, the metal housing offers good protection for the coil against shocks and other outside influences - rotatable 360° - easy mounting in confined spaces - easy access to the screw terminals - single-nut mounting - light weight - simple conversion of existing electrical equipment to other requirements without interruption of fluid passage in the valve.

Application:

This housing can be equipped with several coils of our range, like the standard, double-frequency and magnetic latch coils.

Compatible coils:

- **481000 - Standard Coil**
  8 W Class F (155°C)
- **483520 - Double-Frequency Coil**
  9 W Class F (155°C)
- **484990 - Impulse Coil for AC**
  11 W Class F (155°C)
- **485400 - Impulse Coil for DC**
  13 W Class H (180°C)



Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

HOUSING

8520 WATERPROOF HOUSING FOR HIGH-TEMPERATURE COILS

Waterproof housing:

Reference:	8520
Material:	Epoxy vernished steel
Degree of protection:	**IP** according to IEC/EN 60529 **IP 67** with cable gland
Electrical connection:	Cable connection by cable gland M20x1.5 according to European standards. Cable with outer diameter 6.5 - 13.5 mm can be simply sealed using a rubber gland with resilient sealing rings. The enclosure is internally and externally fitted with grounding and earthing screw terminals.
Weight:	180 g



Benefits:

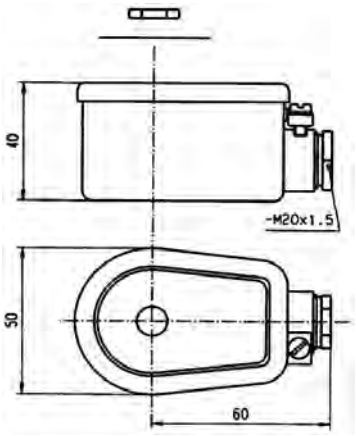
This enclosure is dust- and waterproof. It corresponds to the degree of "International Protection" IP 67 according to IEC / EN 60529. Corrosion resistant, the metal housing offers good protection for the coil against shocks and other outside influences - rotatable 360° - easy mounting in confined spaces - easy access to the screw terminals - single-nut mounting - light weight - simple conversion of existing electrical equipment to other requirements without interruption of fluid passage in the valve.

Application:

The majority of our valves can be fitted with this housing and can be mounted with several compatible coils for high temperature (14 W, 8 W Class F or H).

Compatible coils:

- **481044 - High Power Coil**
  14 W Class F (155°C)
- **486265 - High Power Coil**
  14 W Class H (180°C)
- **485100 - Coil for High Temperature**
  8 W Class H (180°C)



22 mm
32 mm

COIL ASSEMBLY KITS

COIL ASSEMBLY KIT FOR 22 mm COIL



The coil assembly kit corresponds to the "housing" of Parker valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate with the details of the valve type, a washer and a nut to secure the 22 mm coil to the valve.

Caution: This coil assembly kits for 22 mm coils are not adapted for our "Namur High Flow Range".

Reference	Specification	Application
8993	Standard - aluminium nameplate - passivated washer and nut - pressure indication in [bar]	Standard valves

COIL ASSEMBLY KIT FOR 32 mm COIL



The coil assembly kit corresponds to the "housing" of Parker valve numbering system (Valve - housing - coil/voltage).

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.

Reference	Specification	Application
2995	Standard - Aluminium nameplate - Passivated iron washer and nut - Pressure indication in [bar]	Standards valves

ACCESSORIES

DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 -B

Part Number 481043

Electrical connection suitable for all 22 mm coils
(e.g. 488980, 481180)



DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 - A

Part Number 486586 or
Part Number 492645 for high temperature Parker version

Electrical connection suitable for all 32 mm coils

(e.g. 481865, 492425)



PLASTIC NUT WITH METAL INSERT

No. 8886

For Oil & Gaz electrical parts
(e.g. 492965.01)



CABLE GLAND

No. 492398 - Pg 13.5 -Ex eb II
No. 493841 - M20x1.5 - Ex ia IIC

Electrical connection and mooring cable with 6 to 12 mm diameter, for electrical parts approved "eb mb" or "ia"
(e.g. 492190, 492965….)



CABLE GLAND

No. 493426 - 1/2"-14 NPT

Electrical connection and mooring cable with 6 to 12 mm diameter, for flameproof approved electrical parts
(e.g. 493640)



INTRODUCTION

The current European Directive concerning equipment to be installed in potentially explosive atmospheres is **2014/34/EU**. It came into force on April 19th, **2016**. With respect to the previous version, it implies the switching from EC to EU Declarations of Conformity and Type Examination Certificates; moreover, it better defines the manufacturer's, importer's and distributor's responsibilities.

Electrical and mechanical equipment for use in potentially explosive atmospheres is certified by a notified body in accordance to the relevant European technical standards concerning each protection mode (m, d, e, i, n, t, h), EN 60079-0 etc. After certification project completion, and EU Type Examination Certificate is released, entitling it to carry the distinctive marking.

EUROPEAN MEMBER COUNTRIES



Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

DEFINITIONS

EXPLOSIVE ENVIRONMENTS

Mixture with air, under atmospheric conditions, of flammable substances in the form of gases, vapours, mists or dusts in which, after combustion has occurred, combustion spreads to the entire unburned mixture.

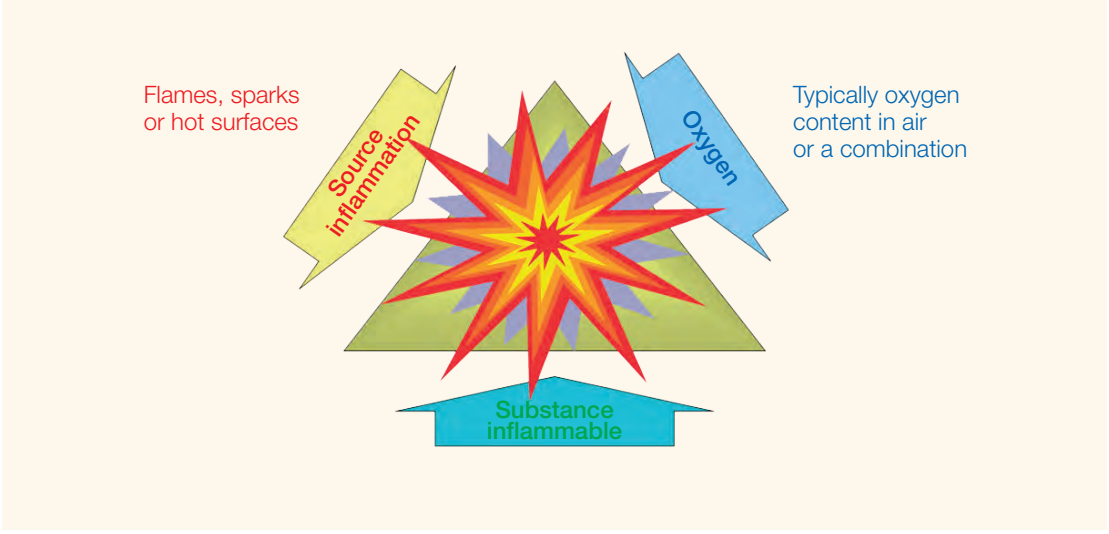
HAZARDOUS AREAS

A hazardous area is an area in which an explosive gas environment is present, or may be expected to be present, in quantities such as to require special precautions for construction, installation and use of electrical apparatus.

INGREDIENTS FOR AN EXPLOSION

- When combustible materials are mixed with air, an explosive mixture is produced. Danger of explosion therefore exists wherever these hazardouas materials are handled: such a condition is to be found on the biggest chemical plant as well as at the smallest filling station.
- Nowadays with the use of electronic and electrical instrumentation in process control, the risk of combustion by electrical energy has increased sharply.
- To protect personnel and expensive equipment special precautions should be taken to prevent combustion of those dangerous substances. Conditions likely to ignite explosive mixtures are as follows:

Three conditions are enough to create an explosion.



ZONES

The hazardous areas are classified in zones based on the frequency of the occurrence and the duration of an explosive gas environment as follows:

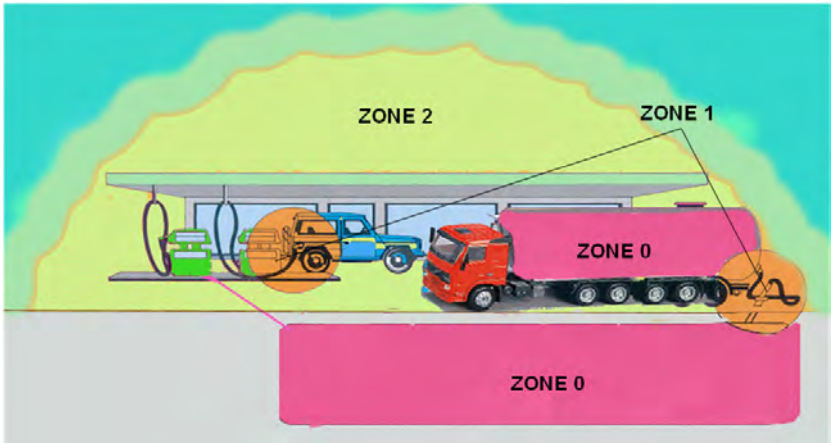
Zone 0 (20)	**Zone 1** (21)	**Zone 2** (22)
An area in wich an explosive **gas** (dust) atmosphere is present CONTINUOUSLY or is present for LONG PERIODS (~1000 h/y).	An area in wich an explosive **gas** (dust) atmosphere is present LIKELY TO OCCUR in normal operation (~10 to 999 h/y).	An area in wich an explosive **gas** (dust) atmosphere is not LIKELY TO OCCUR and if it does occur it will exist for short period only (~1 to 10 h/y).
Mode of protection: **ia - ta ...**	Mode of protection: **db - mb - eb - tb...**	Mode of protection: **ec - tc...**

HAZARDOUS LOCATION CLASSIFICATION

Explosive Environment	**Continuous Presence**	**Intermittent Presence** (normal operation conditions)	**Occasional Presence** (abnormal operation)
IEC	**Zone 0** (gas) **Zone 20** (dust)	**Zone 1** (gas) **Zone 21** (dust)	**Zone 2** (gas) **Zone 22** (dust)
Europe	**Zone 0** (gas) **Zone 20** (dust)	**Zone 1** (gas) **Zone 21** (dust)	**Zone 2** (gas) **Zone 22** (dust)
Canada (CEC)[1] **USA** (NEC) [2]	**Cl. I Div. 1** (gas) **Cl. II Div. 1** (dust) **Cl.III Div. 1** (fibres)	**Cl. I Div. 1** (gas) **Cl. II Div. 1** (dust) **Cl.III Div. 1** (fibres)	**Cl. I Div. 2** (gas) **Cl. II Div. 2** (dust) **Cl.III Div. 2** (fibres)

[1] (CEC): Code Canadien d'Electricité / [2] (NEC): National Electrical Code

Example:



HAZARDOUS LOCATION CLASSIFICATION

Category	Fault protection	Atmosphere	Zone	Example of protections
EC Type examination by Notified Body ⟶ annex III				
1 Very high level	2 types of protection or 2 indépendant faults	**G** (Gas)	**0**	"ia", "ta"...
		D (Dust)	**20**	
EC Type examination by Notified Body ⟶ annex III				
2 High level	One type of protection	**G** (Gas)	**1**	One type of protection
	Habitual frequent malfunction	**D** (Dust)	**21**	"db", "mb", "tb"...
Internal production inspection ⟶ EC declaration of conformity				
3 Normal	Required level of protection	**G** (Gas)	**2**	"ec", "tc"...
		D (Dust)	**22**	

Hazardous Location Classification

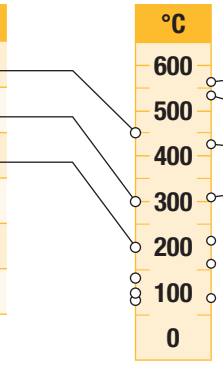
Group	Gas Reference
I	Methane
IIA	Propane
IIB	Ethylene
IIC	Hydrogen / Acethylene

Hazardous Location Classification

Group	Dust Reference
-	-
IIA	Fibres
IIB	Non-conductive dust
IIC	Conductive dust

Surface Temperature Classes

Class Temperature	Max. Temperature
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C



Gas & Ignition Temperature		
560°C	Hydrogen	T1
537°C	Methane	T1
425°C	Ethylene	T2
305°C	Acetylene	T2
210°C	Kerozene	T3
160°C	Ethylether	T4
95°C	Carbon disulphide	T6

PROTECTION MODES IN PARKER FCSE PRODUCTS

Concept	Code		Zones	
	Gas	Dust	Gas	Dust
Flameproof enclosure	**db**	**tb**	1/2	21/22
Encapstulation	**mb**	tb	0/1/2	20/21/22
Increased Safety	**eb**	**tb**	1/2	21/22
Intrinsic Safety	**ia**	ta	0/1/2	20/21/22
Concept Cat.3 apparatus	**nc**	tc	2	22
Mechanical Part	h	h	0/1/2	20/21/22

In red, protection modes used by Parker FCSE.

ELECTRICAL EQUIPMENT FOR EXPLOSIVE GAS ATMOSPHERE EQUIPMENT GROUP II

EPL	Standards EN / IEC	Protection	Title
	60079-0	-	General requirements
Ga	60079-11	ia	Intrinsic safety
	-	-	-
	-	-	-
Gb	60079-1	db	Flameproof enclosures
	60079-7	eb	Increased safety
	60079-18	mb	Encapsulation
Gc	60079-7	ec	Increased safety
	60079-15	nc	Non sparking (C) or protected sparking (A)
	-	-	-

EPL = **E**quipement **P**rotection **L**evel
In red, protection modes used by Parker FCSE.

ELECTRICAL EQUIPMENT FOR EXPLOSIVE DUST ATMOSPHERE -

EPL	Standards EN / IEC	Protection	Title
	60079-0	-	General requirements
Da	60079-31	ta	Protection by enclosure
	60079-11	ia	Intrinsic safety
	-	-	-
Db	60079-31	tb	Protection by enclosure
	60079-18	mb	Protection by encapsulation
	-	-	-
Dc	60079-31	tc	Protection by enclosure
	-	-	-
	-	-	-

EPL = **E**quipement **P**rotection **L**evel
In red, protection modes used by Parker FCSE.

NON ELECTRICAL EQUIPMENT FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERE

Standards	Protection	Title
ISO / EN ISO 80079-36	h	Basic method and requirement
ISO / EN ISO 80079-37	c, b, k	Constructional safety, control of ingition sources, liquid immersion

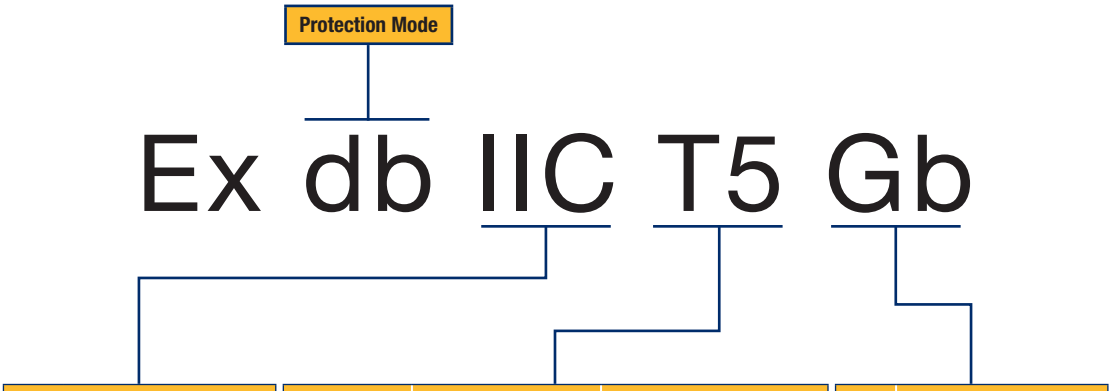
ZONES AND EQUIPEMENT PROTECTION LEVEL (EPL)

Gas		Dust	
Zone	EPL	Zone	EPL
0	Ga	20	Da
1	Ga and Gb	21	Da and Db
2	Ga, Gb and Gc	22	Da, Db and Dc

CATEGORIES AND EQUIPEMENT PROTECTION LEVEL (EPL)

Categories	Gas	Dust	Safety
1	Ga	Da	Very high
2	Gb	Db	High
3	Gc	Dc	Normal

ELECTRICAL APPARATUS FOR EXPLOSIVE GAS ATMOSPHERES EQUIPMENT GROUP II

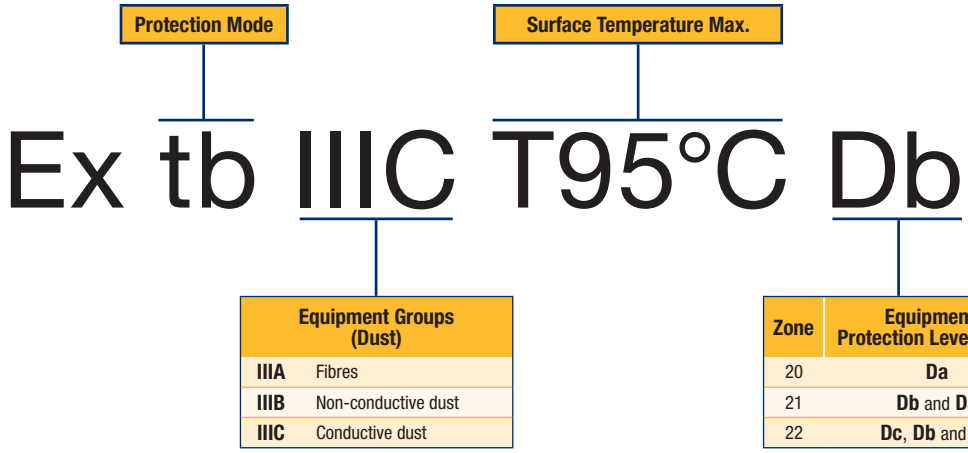


Equipment Groups (Gas)	
IIA	Aceton, ethane, benzene, petrol, butane, propane, methane
IIB	Ethylene, town gas
IIC	Hydrogen, acetylene

Temperature Class	Ignition Temperature of Gas or Vapour	Maximum admissible surface temperature for permanently hot surfaces
T1	> 450°C	440°C
T2	> 300°C	290°C
T3	> 200°C	195°C
T4	> 135°C	130°C
T5	> 100°C	95°C
T6	> 85°C	80°C

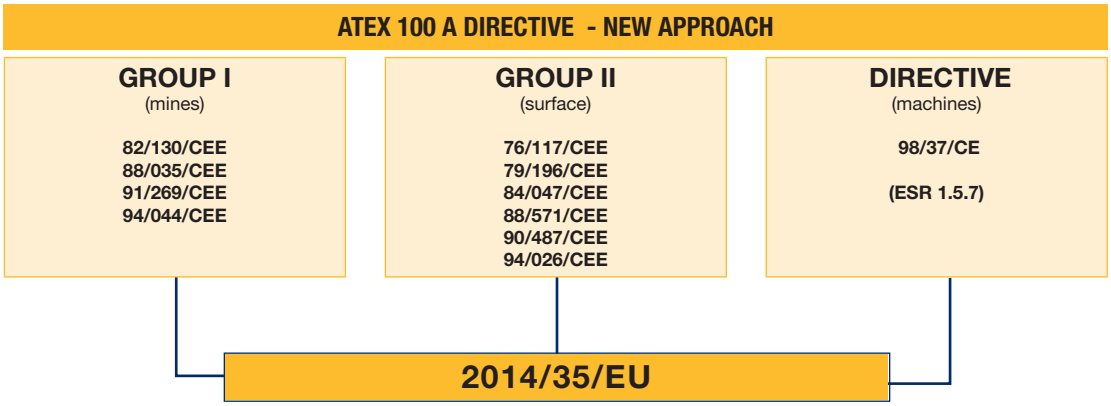
Zone	Equipment Protection Level (EPL)
0	**Ga**
1	**Gb** and **Ga**
2	**Gc**, **Gb** and **Ga**

ELECTRICAL EQUIPMENT FOR USE IN AREAS WITH COMBUSTIBLE DUST - EQUIPMENT GROUP III



Equipment Groups (Dust)	
IIIA	Fibres
IIIB	Non-conductive dust
IIIC	Conductive dust

Zone	Equipment Protection Level (EPL)
20	**Da**
21	**Db** and **Da**
22	**Dc**, **Db** and **Da**



THE FRAMEWORK OF THE DIRECTIVE

The main principles of the new directive can be summarized as follows:

- It applies to **electric** and **non-electric** equipment.
- It defines **essential health and safety requirements**.
- It takes into consideration **all potential hazards** equipment may cause, in particular at design and production level.
- **The one directive** applies to both **mines** susceptible to fire damp and **surface industries**.
- It stresses the importance of equipment being **used in accordance with its intended purpose**.
- It recognises The European Standards Committee **CEN** and the European Committee for Electrotechnical Standardisation **CENELEC** as competent bodies to fix the required harmonised standards.
- It provides for the **contribution of labour and management**.
- It defines **procedures for assessing conformity** to essential requirements, on the basis of modules which qualify equipment to carry the **CE** mark of conformity.

The directive applies to the industrial field and concerns the following equipment:

- **Equipment** (machines, apparatus, etc.)
- **Protective systems** (discharge devices, explosion suppression devices, etc.)
- **Components** (parts with no autonomous function, terminals, etc.)
- **Safety devices, controlling devices and regulating devices** intended for use outside potentially explosive environments but required for safety with respect to explosions (relays, barriers, pressure switches, thermostats, etc.)

EXCLUDED FROM THE SCOPE OF THE NEW DIRECTIVE

The following equipment falls outside the scope of the new directive:

- Medical devices intended for use in a medical environment.
- Equipment and protective systems relating only to the risk of explosion of unstable chemical substances (explosives, etc.)
- Equipment intended for use in domestic and non-commercial environments.
- Personal protective equipment covered by directive 89/686/EC.
- Seagoing vessels and mobile offshore units.
- Means of transport, except for vehicles intended for use in a potentially explosive environment.

POTENTIAL IGNITION SOURCES AND OTHER HAZARDS TO BE CONTROLLED

The following all represent potential hazards:

- Various sources of ignition, such as sparks, flames, electric arcs, high surface temperature, acoustic energy, optical radiation or electromagnetic waves.
- Static electricity.
- Pressure compensation operations.
- Disturbance from external sources, such as changing environmental conditions, extraneous voltage, humidity, vibration or contamination.

Provision is also made for specific requirements governing devices used to provide additional equipment safety.

These requirements necessitate detailed analysis to asses the operational reliability of such devices and their interaction with other components connected with the equipment.

GUIDANCE CHART FOR IS-BARRIERS

Manufacturer	Reference	Ex	IS Standard Electrical Parts							IS Booster Electrical Parts		
			Ex ia IIC T6 488650.01/02 LCIE/AUS	Ex ia IIC T6 490885 (490895) LCIE/FM/CSA	Ex ia IIC T6 483580.01/03 483960.01/03 LCIE/AUS	Ex ia 490880 (493997) LCIE/FM/CSA	Ex ia IIB T6 482160,01 LCIE	Ex ia IIC T6 482870,01 LCIE	Ex ia LCIE/FM/CSA	Ex ia IIC T6 492965.01/02 LCIE	Ex ia IIC T6 496565 LCIE	Ex ia IIC T6 495910 LCIE
A puissance 3	NAEV 22-140	ia	●	-	●	-	●	●	-	●	●	●
	NAEV 26-100	ia	●	-	●	-	●	●	-	●	●	●
ABB	V171132-54	ib	●	-	●	-	●	●	-	●	●	●
	V171132-55	ib	●	-	-	-	●	●	-	●	●	●
	V171132-61	ia	●	-	-	-	●	●	-	●	●	●
	DO 890	ib	●	-	●	-	●	●	-	●	●	●
	S900-D04-EX	ib	●	-	●	-	●	●	-	●	●	●
BRADLEY	FEX-EX 24V	ia	●	●	●	●	●	●	-	●	●	●
COOPER	LB 2101	ia	●	●	●	●	●	●	●	●	●	●
	LB 2105	ia	●	●	●	●	●	●	●	●	●	●
	LB 2112	ia	●	●	●	●	●	●	●	●	●	●
ELCON	1881 / 1882	ia	●	●	●	●	●	●	●	●	●	●
	471 / 472	ia	●	●	●	●	●	●	●	●	●	●
	2871/2872	ia	●	●	●	●	●	●	●	●	●	●
	2874/2875/2876	ia	●	●	●	●	●	●	●	●	●	●
GEORGIN	AVB 122	ia	●	-	●	-	●	●	-	●	●	●
	AVB 125	ia	●	-	●	-	●	●	-	●	●	●
	AVB 128	ia	●	-	●	-	●	●	-	●	●	●
Hima	F3328A	ib	●	-	●	-	●	●	-	●	●	●
	F3335	ib	●	-	-	-	●	●	-	●	●	●
	H4007	ib	●	-	●	-	●	●	-	●	●	●
MTL	728P, 7128P, 7728P	ia	-	-	-	-	●	-	-	●	●	●
	728, 7028, 7128, 7728	ia	●	●	●	●	●	●	●	●	●	●
	3021, 4021, 4021S	ia	●	-	●	-	●	●	-	●	●	●
	3022	ia	-	-	-	-	●	-	-	-	-	-
	4023	ia	-	-	-	-	●	-	-	-	-	-
	4024	ia	●	-	●	-	●	●		●	●	●
	4025	ia	●	●	●	●	●	●	●	●	●	●
	5021, 5023, 5024	ia	●	-	●	-	●	●	-	●	●	●
	5025	ia	●	-	●	-	●	●	●	●	●	●
	4521 / 4523 / 4524	ia	●	-	-	-	●	●	●	●	●	●
	5521 / 5523 / 5524	ia	●	-	-	-	●	●	●	●	●	●
Pepperl & Fuchs	Z 728	ia	●	●	●	●	●	●	●	●	●	●
	Z 779	ia	●	●	●	●	●	●	●	●	●	●
	EGA-041-3	ia	-	●	●	●	●	●	●	●	●	●
	KFD2-SD-EX1.36	ia	-	-	-	-	-	●	-	-	-	-
	KFD2-SL-EX1.36	ia	-	-	-	-	-	●	-	-	-	-
	KFD2-SD-EX1.48	ia	-	●	-	●	-	●	●	●	●	●
	KFD2-SL-EX1.48	ia	-	●	-	●	-	●	●	●	●	●
	KFD2-SL-EX1.48.90A	ia	-	-	-	-	-	-	-	●	●	●
	KFD2-SL-EX1.48.90A	ia	-	-	-	-	-	-	-	●	●	●
	KFD2-SL2-EX1.LK	ia	-	●	-	●	-	●	●	●	●	●
	KFD2-SL2-EX2	ia	-	●	-	●	-	●	●	●	●	●
	KSD2-B0-EX	ia	-	●	●	●	●	●	●	●	●	●
	RSD-B0-EX4	ib	-	●	-	●	-	●	●	●	●	●

GUIDANCE CHART FOR IS-BARRIERS

Manufacturer	Reference	Ex	IS Standard Electrical Parts							IS Booster Electrical Parts		
			Ex ia IIC T6 488650.01/02 LCIE/AUS	Ex ia IIC T6 490885 (490895) LCIE/FM/CSA	Ex ia IIC T6 483580.01/03 483960.01/03 LCIE/AUS	Ex ia 490880 (493997) LCIE/FM/CSA	Ex ia IIB T6 482160,01 LCIE	Ex ia IIC T6 482870,01 LCIE	Ex ia LCIE/FM/CSA	Ex ia IIC T6 492965.01/02 LCIE	Ex ia IIC T6 496565 LCIE	Ex ia IIC T6 495910 LCIE
SIEMENS	5RD00-0AB0	ib	-	-	-	-	-	-	-	●	-	-
	7RD00-0AB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD01-0AB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD10-0AB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD11-0AB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD20-0AB0	ia	-	-	-	-	-	-	-	●	●	●
	7RD21-0AB0	ia	-	-	-	-	-	-	-	●	●	●
STAHL	9001/01-252-100-14	ia	●	●	27 V	27 V	●	●	●	●	●	●
	9001/01-280-100-10	ia	●	●	24 V	24 V	●	●	●	●	●	●
	9001/01-280-110-10	ia	●	-	24 V	-	●	●	-	●	●	●
	9002/13-280-100-04	ia	24 V	24 V	27 V	27 V	24 V	24 V	24 V	17 V	17 V	17 V
	9311/52-11-10	ia	-	●	●	25 V	25 V	●	●	15 V	15 V	15 V
	9111/63-11-00	ia	-	●	●	25 V	25 V	●	●	15 V	15 V	15 V
	9351/10-15-10	ia	-	●	●	-	-	●	●	●	●	●
	9351/10-16-10	ia	-	●		●	-	●	●	●	●	●
	9351/10-17-10	ia	-	-	-	-	-	●	-	-	-	-
	9381/10-187-050-10	ib	-	●	●	●	●	●	●	●	●	●
	9381/10-246-055-10	ib	-	●	●	●	●	●	●	●	●	●
	9381/10-246-070-10	ib	-	●	●	●	●	●	●	●	●	●
	9465/12-04-11	ib	-	●	●	-	-	●	●	●	●	●
	9475/12-04-21	ia/ib	-	●	-	●	-	●	●	●	●	●
	9475/12-04-31	ia/ib	-	-	-	-	-	-	-	●	●	●
	9475/12-08-41	ia/ib	-	-	-	-	-	-	-	-	-	-
	9475/12-08-51	ib	-	-	-	-	-	-	-	●	●	●
	9475/12-08-61	ia/ib	-	-	-	-	-	-	-	-	●	●
Turck	MK72-S01-EX	ib	-	-	-	-	●	●	-	●	●	●
	MK72-S02-EEX	ib	-	-	-	-	●	●	-	●	●	●
	MK72-S04-EEX	ib	●	-	●	-	●	●	-	●	●	●
	MK72-S05-EEX	ib	●	-		-	●	●	-	●	●	●
	MK72-S06-EEX	ib	●	-	●	-	●	●	-	●	●	●
	MK72-S07-EEX	ib	●	-		-	●	●	-	●	●	●
	MK72-S09-EEX	ia		-		-			-	-	-	-
	MK72-S12-EEX	ia	●	-	●	-	●	●	-	●	●	●
	MC72 - 41	ia	●	-	●	-	●	●	-	●	●	●
	MC72 - 43	ia	●	-	●	-	●	●	-	●	●	●
	MC72 - 44	ia		-	-	-			-	●	●	●
BARTEC	07-7331-2301/1000	ia	●	-	-	-	●	●	-	●	-	-
	07-7331-2301/1100	ia	●		●		●	●		●	-	-

If barrier reference not listed, consult factory for compatibility (tech.support@parker.com)

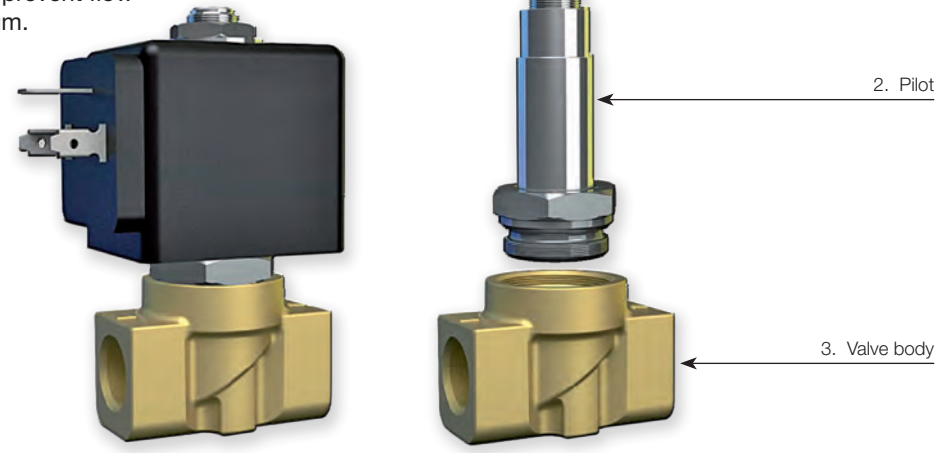
TECHNICAL INFORMATION ABOUT SOLENOID VALVES

General Information

Solenoid valves are electro-mechanical devices used for interrupting or diverting the flow of fluids by opening or closing one or more orifices.

The solenoid valve is a combination of three basic components:

1. An electromagnet consisting of a solenoid (windings) and a magnetic yoke.
2. A pilot with a moveable plunger (which, in some cases directly opens and closes the valve).
3. A valve body with an orifice opened or closed by plunger or diaphragm to enable or prevent flow of the medium.



Operating principles

The term solenoid refers to operator and coil, also known as pilot or magnetic actuator.

The coil consists of copper wire wound on a support reel. When electric current is applied into the coil, magnetic flow lines are generated which are stronger in the coil center.

This magnetic flow raises the moveable plunger in the coil until it brings it into contact with the pole piece. The valve body has an orifice through which the fluid flows when the valve is open.

The moveable plunger has an integral seat which when the solenoid coil is energised, moves off the valve (direct operated) orifice or diaphragm (pilot operated) orifice opening the valve.

When the coil is de-energised, a return spring brings the plunger back to the original closing position, thus cutting off the flow of the fluid.

BASIC COMPONENTS OF A SOLENOID VALVE

Valve body: Main part of the solenoid valve including ports, seat and orifices.

Solenoid tube assembly: Cylinder, in stainless steel, hermetically sealed and closed at one extremity. It is the guide channel of the moveable plunger which is moved magnetically. The solenoid coil is fitted on the external side of the enclosing tube.

Moveable plunger: Made by ferritic stainless steel, it is attracted by the solenoid magnetic field and slides inside the tube.

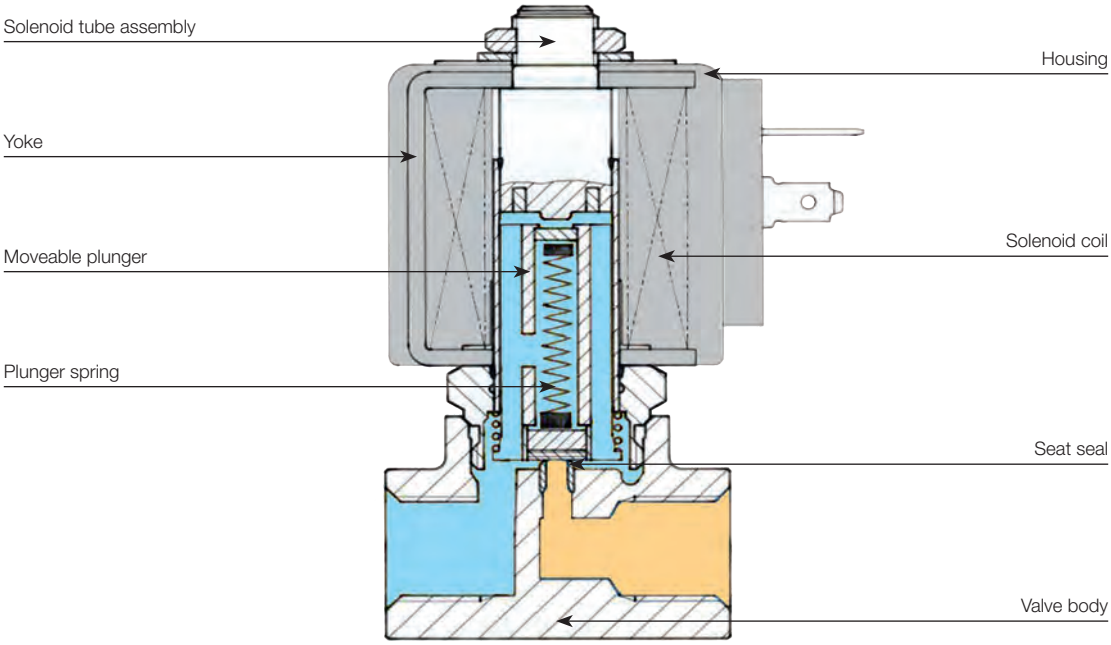
Plunger spring (or return spring): Used to hold the moveable plunger in position and to return it when de-energized.

Seat seal: Part of the moveable plunger, it is used to close a valves main orifice or pilot orifice.

Electromagnet (or solenoid coil): Electrical part consisting of a copper windings (solenoid) along, with a magnetic yoke (armature), when electric current flows through, it generates a magnetic field atracting the moveable plunger.

Housing: Part that contains and protects the coil.

Yoke: Metalic case surrounding the coil and concentring electro-magnetic force on the moveable plunger.



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

TECHNICAL VOCABULARY USED IN TABLES

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	Page Parker LUCIFER® Valves

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.				
BSP	mm	Kv l/min	KV m^3/h	Qn l/min	bar	AC bar	DC bar	°C	°C					AC W	DC W		

The basic technical features of each solenoid valve are indicated in the tables, the terminology used is shown and explained below. Please notice that in certain sections you will have the choice between two product ranges: Parker valves, within blue tables and the Parker valves, within orange tables.

Actuation: The mechanical method used to control the flow.

Body: Main part of the solenoid valve with the ports, seats and orifice needed.

Function: The way the valve operates when de-energised.

Port Size: Fitting dimensions are defined as threaded in inches (G), in BSP or Sub-base, when a flat interface for ports is adopted.

Orifice (mm): Main orifice diameter in millimetres (nominal diameter).

Flow Factors: Define the quantity of water which flows through the solenoid valve with a pressure drop of 1 bar during one minute. Expressed in l/min and m^3/h.

Max Fluid Temperature: Maximum fluid temperature the valve can withstand.

Max Ambient Temperature: Maximum ambient temperature the valve can withstand.

Minimum Operating Pressure Differential: The lowest differential pressure required for operation (bar).

Maximum Operating Pressure Differential (MOPD): The highest working differential pressure with 90% of the rated voltage (-10% Vn) applied to the solenoid coil (for AC) and 95% of the rated voltage (-5% Vn)(for DC).

TECHNICAL INFORMATION

Solenoid valves are highly engineered products that can be used in many diverse applications.

In addition to operational functionality, media compatibility and suitability for the operating environement when selecting the best product for a given application.

This section provides a brief overview of the components, actuation and function modes of solenoid valves avaible from Parker Hanninfin - FCSE.

Different Technologies:

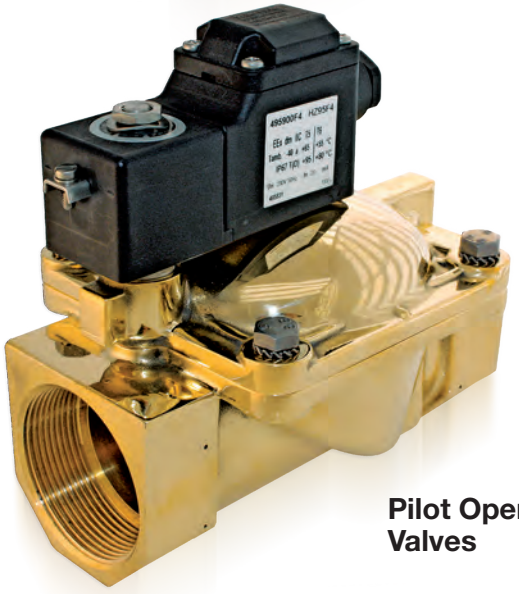
Solenoid valves are electrically operated devices used to control flow.
The most common types of solenoid valve are:



Direct Operated Valves



Magnalift Valves



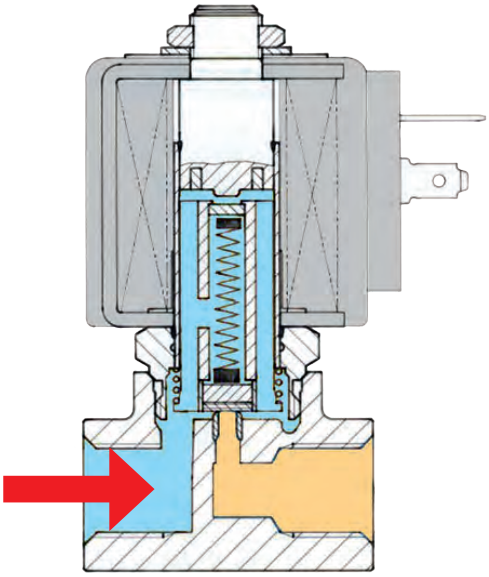
Pilot Operated Valves

DIRECT OPERATED VALVE

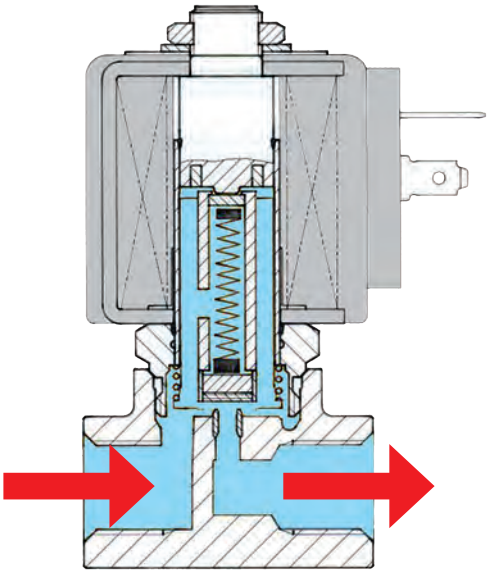
Magnetic force is used directly to open or close the plunger which controls the passage of the fluid. Performances are limited by the coil, the pressure, and the valve orifice size. For direct operated valves, the minimum working pressure is 0 bar and the maximum pressure relies on the combination (valve/coil) chosen.

Direct Operated Valve

De-energised

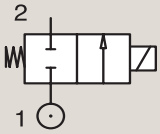


Energised



Example:

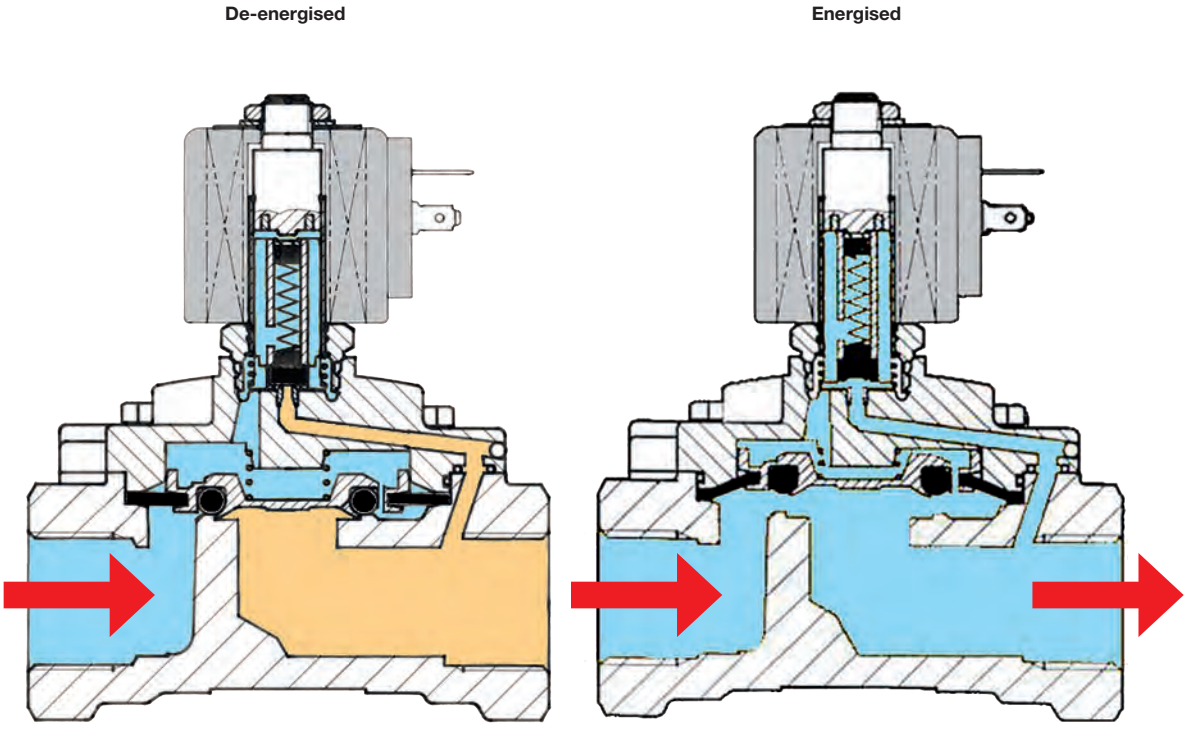
- 121 Series



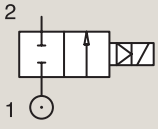
PILOT OPERATED VALVE

To control a higher flow, it is necessary to use pilot operated valves. The supply pressure enters the direct operated "pilot stage" which directs the flow to a "pilot chamber" which,in turn, applies the pilot pressure over a large area (generally a diaphragm or piston). Therefore, a large force is generated to move the main sealing elements against higher pressure or over a large orifice.
One condition of operation is to have a minimum pressure available to shift the valve (indicated in the catalogue). In most applications, this presents no particular problems (refer to magnalift valve section). The pressure rating of the valve starts between 0.1 to 0.5 bar (depending on the valve).
(NB. Pilote Operated Valves are also called Servo Operated Valves).

Pilot Operated Valve



Example:
- 321 Series
- 7321B Series

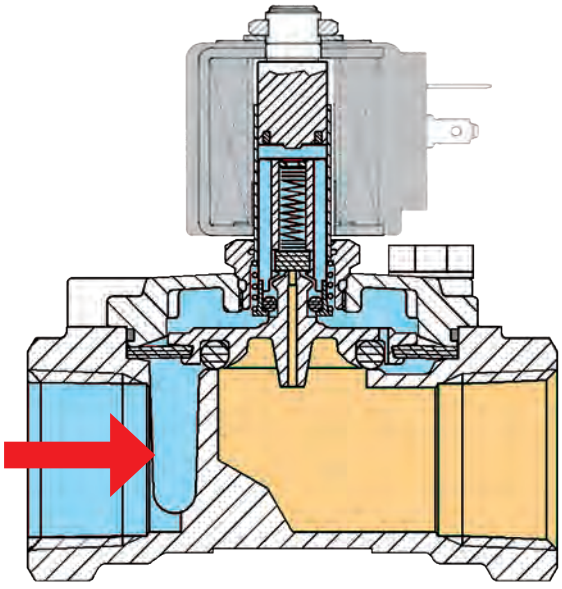


MAGNALIFT VALVE

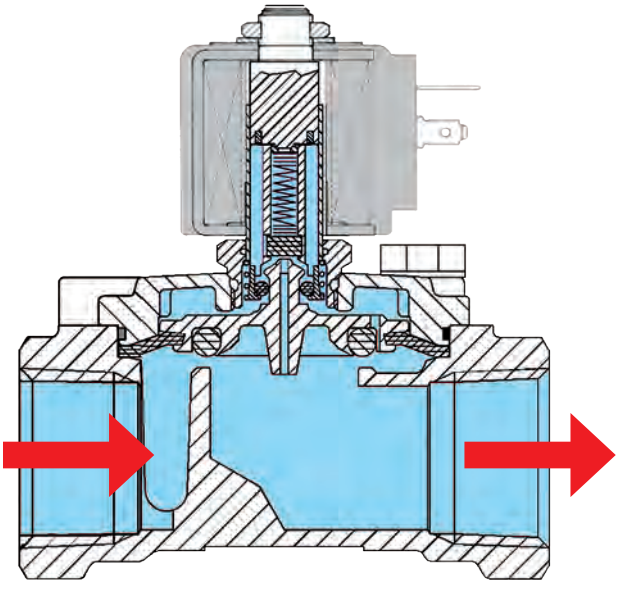
The magnalift valves combine the features of the direct operated and pilot operated valves. A mechanical link between the plunger and diaphragm retainer allows the valve to operate as a direct operated valve at low pressures and as a pilot operated valve at higher pressures. Magnalift valves are specially designed for applications where 0 pressure is needed to operate the valve, as well as bigger flow than a direct operated valve.

Magnalift Operated Valve

De-energised

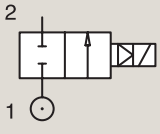


Energised



Example:

- 221 Series



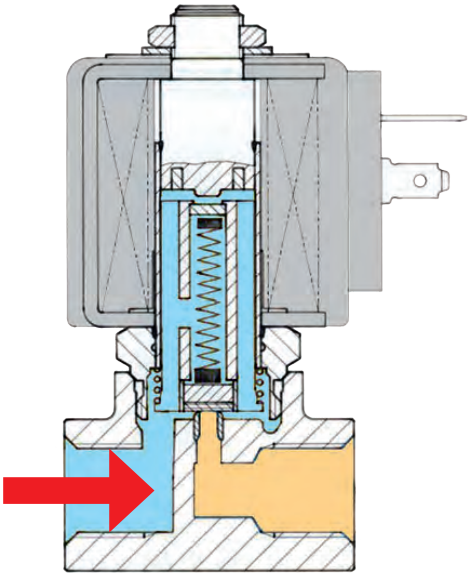
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General Catalogue FCSE/0112/UK V2.0 01/2020

NORMALLY CLOSED VALVE

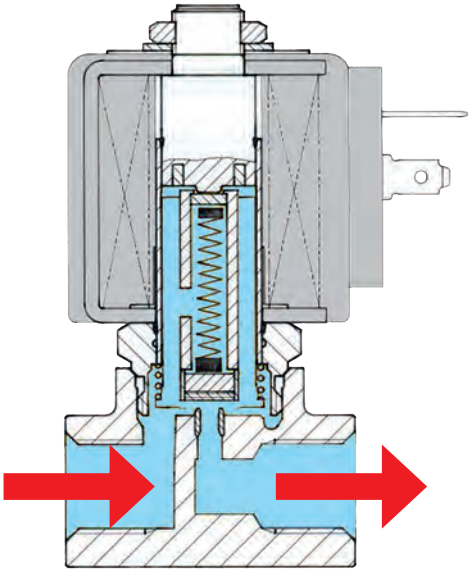
Most of our valves are available in normally closed and normally open configuration when not energized. In certain applications, you may require a normally open valve (open function in case of current failure). The differentiating factor of design of this technology, is based upon the design of the seat seal, which is reversed in comparaison to a normally closed valve.

Normally Closed Valve

De-energised

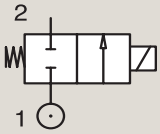


Energised



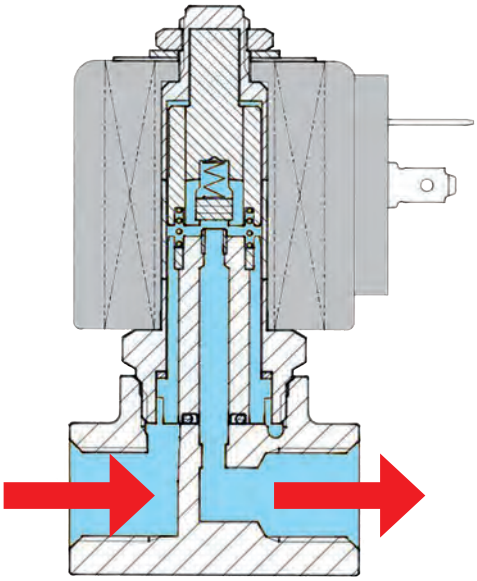
Example:

- 121 Series

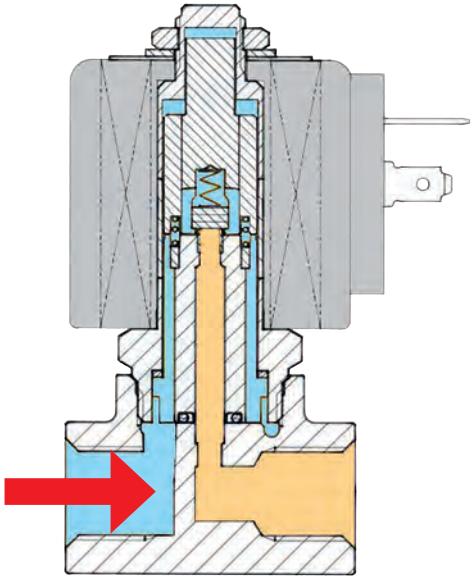


Normally Open Valve

De-energised

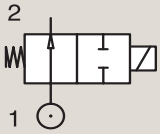


Energised



Example:

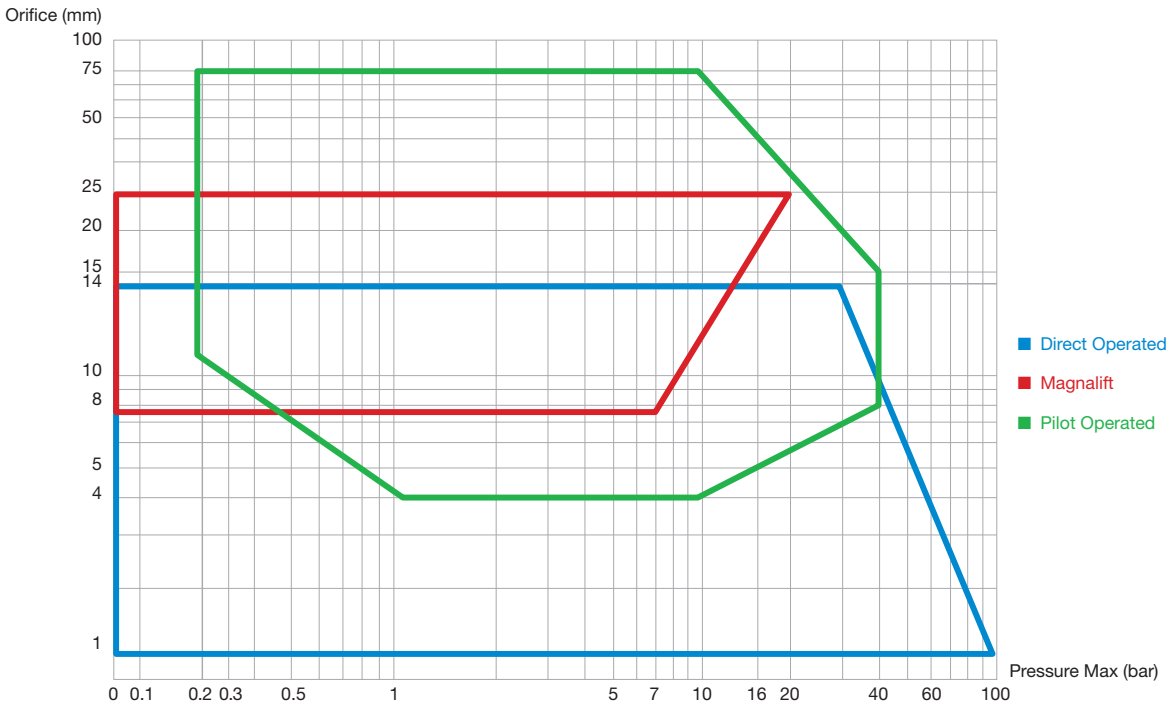
- 122 Series



FLOW AND PRESSURE RANGES

Area of operation:

Each valve principle, as described in the previous pages, has a defined area of operation related to its pressure and flow capabilities. The following graph shows which type of valve is suitable for a certain situation.



Areas of operation of Parker solenoid valves.

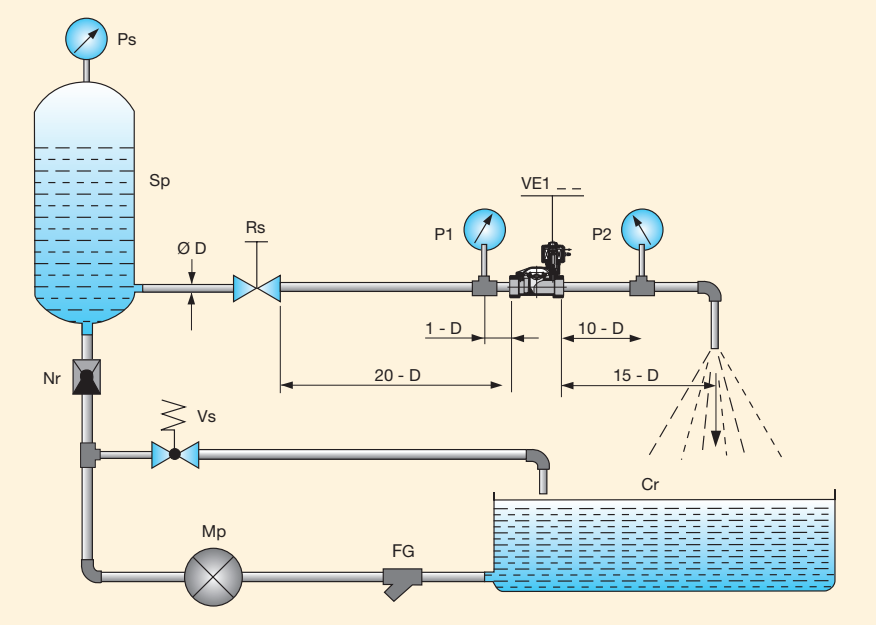
SIZING SOLENOID VALVES

The correct choice of solenoid valve is essential as it determines the regulation and performance required for practical application on a system. In order to decide on the exact type of solenoid valve, various parameters have to be known.

However the calculation method, based on the flow coefficient Kv, has proved highly practical as it can be determined on the basis of:

- Required flow rate
- Flow resistance
- Type of fluid and relative viscosity
- Specific gravity and temperature

This flow coefficient Kv is determined as defined in the VDI/VDE 2173 standards.
It represents the flow of water in m3/h or L/min with a temperature from 5 to 30°C which passes through the solenoid valve with a pressure drop of 1 bar.



Note:

The flow coefficient used in the USA is known as Cv and represents the water flow rate in US gallons per minute with a pressure drop ΔP of 1 psi.

To convert **C_V** in **Kv** and vice versa use:

1 K_V = 0.862 C_V
1 C_V = 1.16 K_V

FG = Grid Filter **Mp** = Pump **Vs** = Safety Valve **Nr** = Check Valve **Sp** = Pressure Tank **Ps** = Static Pressure Manometer

After existing conditions have been converted into this factor Kv, the type of valve is found by referring to the pages in the related sections in this catalogue.

Parameters used for selecting the solenoid valve are in the table next page.

Consult conversion tables of the various units of measurement as defined by the ISO (International Standards Organisation) - I.S. (International System) set out in this catalogue.

FLOW AND PRESSURE RANGES

Pressure
symbol **(P)**
unit of measurement **[bar]**
Working pressure

Pressure drop
symbol **(ΔP)**
unit of measurement **[bar]**
Pressure difference between inlet (P_1) and outlet (P_2) of the solenoid valve when a medium is flowing through the valve ($\Delta P = P_1 - P_2$).

Flow cœfficient
symbol **(Kv)**
unit of measurement **[l/min]**

Specific gravity of the medium
symbol **(γ)**
unit of measurement **[Kg/dm³]**

Temperature of the medium
symbol **(t)**
unit of measurement **[°C]**

Flow rate
- for liquids
  symbol **(Q)**
  unit of measurement **[l/min]**
- for gases
  symbol **(Qn)**
  unit of measurement **[Nm³/h]**
- for steam
  symbol **(Qv)**
  unit of measurement **[Kg/h]**

Specific volume
symbol **(Vs)**
unit of measurement **[m³/Kg]**

a) Solenoid valves for liquids:

Flow rate: $Q = Kv \cdot \sqrt{\frac{\Delta P}{\gamma}}$ where: Q = l/min, ΔP = bar, γ = Kg/dm³

Flow coefficient:
$$Kv = Q \cdot \sqrt{\frac{\gamma}{\Delta P}}$$

In the case of liquids with viscosity greater than 3°E (22 cStokes) the Kv is modified according to the formula:

$$Kv_1 = Kv + C \qquad C = \frac{\delta \cdot \sqrt{Kv}}{200 \cdot Q} + 1$$

where C is the viscosity correction factor calculated by means of the formula:
where:
δ = kinematic viscosity of the fluid expressed in centistokes
Kv = flow rate factor of the solenoid valve
Q = flow rate in l/min

Pressure drop:

$$\Delta P = \gamma \cdot \left(\frac{Q}{Kv}\right)^2$$

b) Solenoid valves for gases:

If $\Delta P \leq 1/2\ P_1$ use the following formulae:

Flow rate: $Qn = 514 \cdot Kv \cdot \sqrt{\frac{\Delta P \cdot P_2}{\gamma n \cdot (273 + t)}}$

Pressure drop: $\Delta P = \frac{(273 + t) \cdot \gamma n}{P_2} \cdot \frac{Qn^2}{(514 \cdot Kv)^2}$

where: $Qn = Nm^3/h$ $P_1 = bar$ $P_2 = bar$

Flow coefficient: $Kv = \frac{Qn}{514} \cdot \sqrt{\frac{(273+t) \cdot \gamma n}{\Delta P \cdot P_2}}$

If $\Delta P > 1/2\ P_1$ use the following formula:

$$Qn = 757 \cdot Kv \cdot \sqrt{\frac{\Delta P \cdot P_2}{(273 + t) \cdot \gamma n}}$$

$t = °C$
$\gamma n = Kg/dm^3$

c) Solenoid valves for steam:

If $\Delta P \leq 1/2\ P_1$ use the following formulae:

Flow rate: $Qv = 31,7 \cdot Kv \cdot \sqrt{\frac{\Delta P}{Vs}}$

Pressure drop: $\Delta P = Vs \cdot \frac{Qv^2}{(31,7 \times Kv)^2}$

where: $Qv = Kg/h$ $\Delta P = bar$ $Vs = m^3/Kg$

If $\Delta P > 1/2\ P_1$ use the following formula:

$$Qv = 22,4 \cdot Kv \sqrt{\frac{P_1}{Vs}}$$

Flow coefficient: $Kv = \frac{Qv}{31,7} \cdot \sqrt{\frac{Vs}{\Delta P}}$

Notes:

1) Should the value ΔP not be specified, use the following, which is based on experience:

- For liquids only in the case of free discharge ΔP = 90% of the input pressure (P_1).
- For gases never use a ΔP of more than 50% of the absolute inlet pressure, since the excessive pressure drop may cause an irregular flow rate. In most cases, ΔP can be considered as 10% of the input pressure.

2) Specific volume value (Vs) for dry saturated steam, see the table in diagram 3.

FLOW RATE FOR LIQUIDS

The liquid flow through a pipe or a valve is given by:

$$Q = Kv \cdot \sqrt{\frac{\Delta P}{\gamma}}$$

Where **Q** = Flow **[l/min]**
ΔP = Differential Pressure **[bar]**
γ = Density of the fluid **[kg/dm³]** (water **γ = 1 [kg/dm³]**)
kv = Flow Factor **[l/min]**

Flow factor kv:

The kv flow factor of a valve is defined as the flow rate of water in litres per minute with a pressure drop of 1 bar across the valve.

Valve manufactuerers use different definitions for kv. It may be expressed in l/h or m³/h.

Care should therefore be taken when comparing values.

Maximum flow rate Qmax.

For particular 2-way valves the maximum flow must be limited for reasons of mechanical resistance and durability.

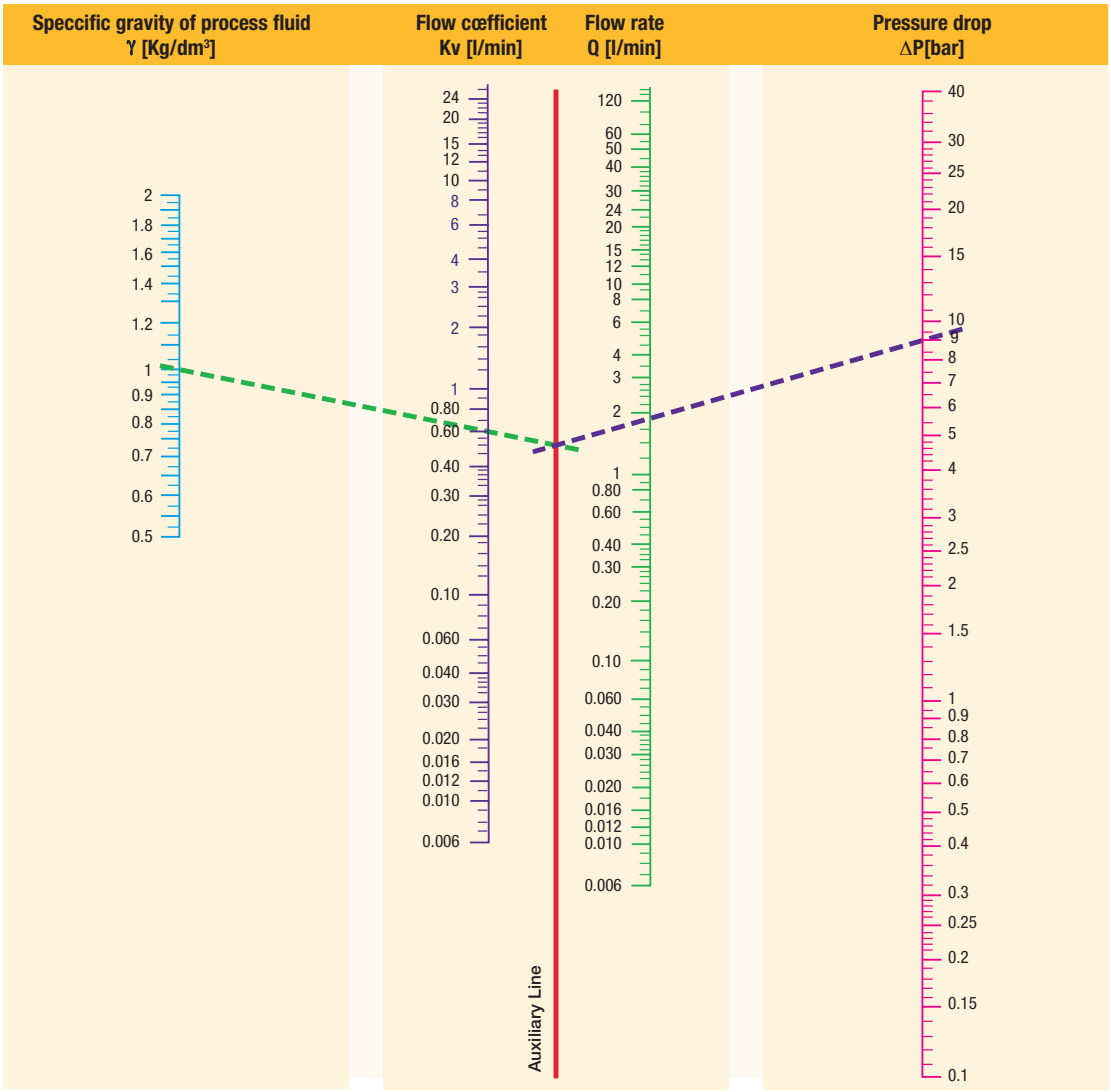
A very high flow velocity may dislocate a popet sealing or a diaphragm.

Maximum flow rates are indicated in the catalogue.

Flow factors
Kv l/min | KV m³/h | Qn l/min

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
					Min	Max(MOPD)		Min	Max								
BSP	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		



Monogram for liquid flow calculation

Specific gravity of the most common fluids (ϒ = Kg/dm³) - (t = 15°C - P = 760 mm Hg)					
Acetone	0.76	**Benzenol**	0.90	**Naphtha**	0.76
Water	1.00	**Beer**	1.02	**Pentane**	0.63
Sea water	1.02	**Hexane**	0.66	**Vegetable oil**	0.92
Ethyl alcohol	0.79	**Ethane**	0.68	**Hydraulic oil**	0.92
Methyl alcohol	0.81	**Diesel oil**	0.70	**Wine**	0.95
Petrol	0.68	**Milk**	1.03		

FLOW RATE FOR GASES

The gas flow through a valve is given by:

$$Q = C \cdot P_1 \cdot k_T \cdot \omega \cdot \gamma_{air} / \gamma_{gas}$$

Where
- **Q** = Flow Rate **[dm³/s]**
- **C** = Conductance **[dm³/s.bar]**
- P_1 = Inlet Pressure **[bar abs]**
- γ = Specific Weight **[Kg/dm³]**
- k_T = Temperature Correction Factor

$$\omega = \sqrt{1 - \frac{P_2/P_1 - b}{1 - b}} \qquad k_T = \sqrt{\frac{293}{273 + \text{Temp. °C}}}$$

Nominal Flow Qn:

Calculations can be made with specific flow factors based on the CETOP RP 50P standard.

For practical purposes and ease of valve selection the catalogue shows the nominal flow Qn.

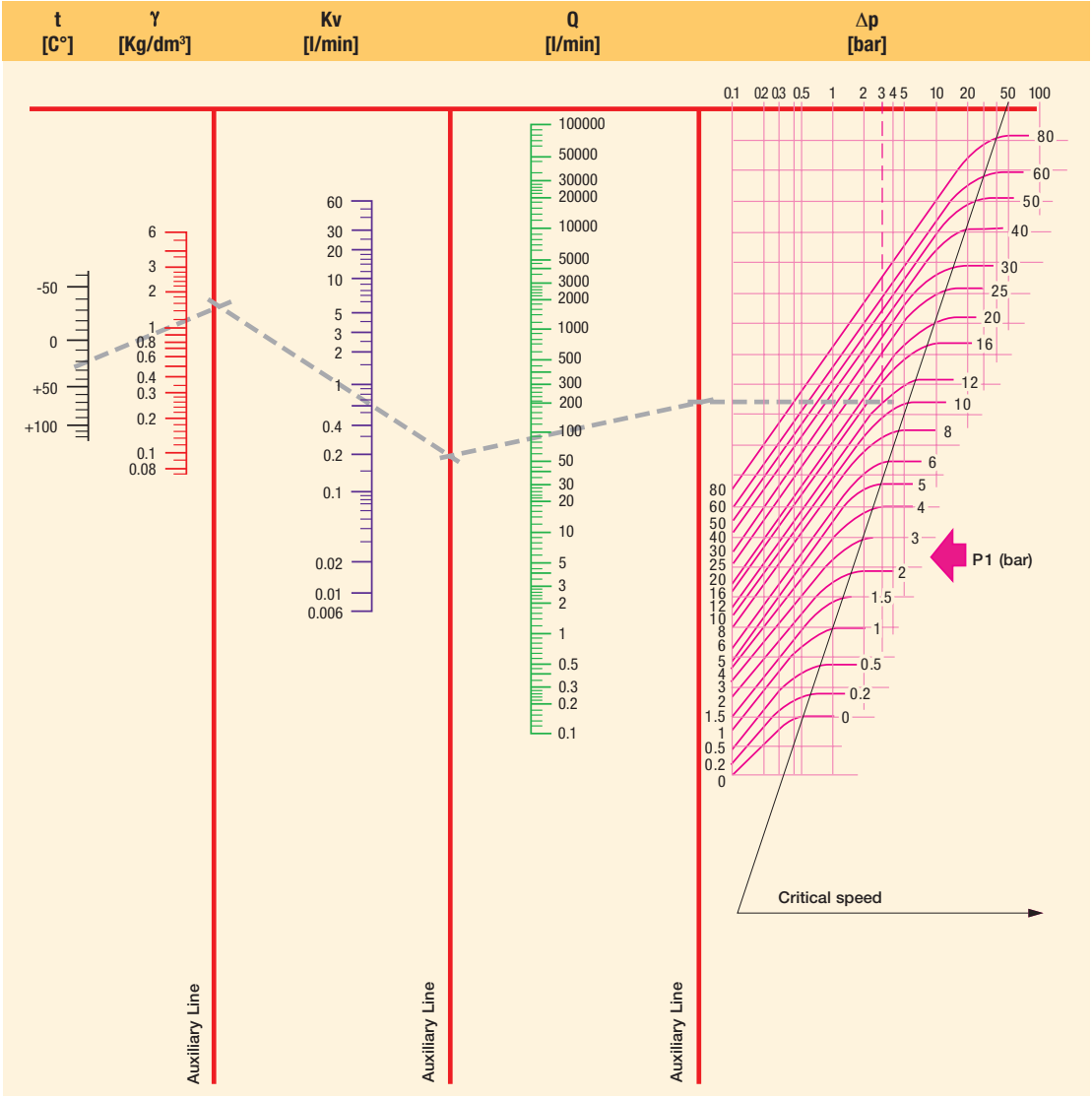
The nominal flow Qn is defined as the flow rate (L/min) of air across the valve when the inlet pressure P_1 = 6 bar and the pressure drop ΔP = 1 bar.

N.B.
The values of the flow factors and flow rates mentioned in catalogues are subjet to +/-15% tolerances.

Pneumatic application: $\gamma_{air} / \gamma_{gas} = 1$

a) Choked flow conditions $P_2 \leq b.P_1$
in this case $\omega = 1$ --> $Q = C \cdot P_1 \cdot kT$

b) Free flow conditions $P_2 > b.P_1$
in this case --> $Q = C \cdot P_1 \cdot kT \cdot \omega$



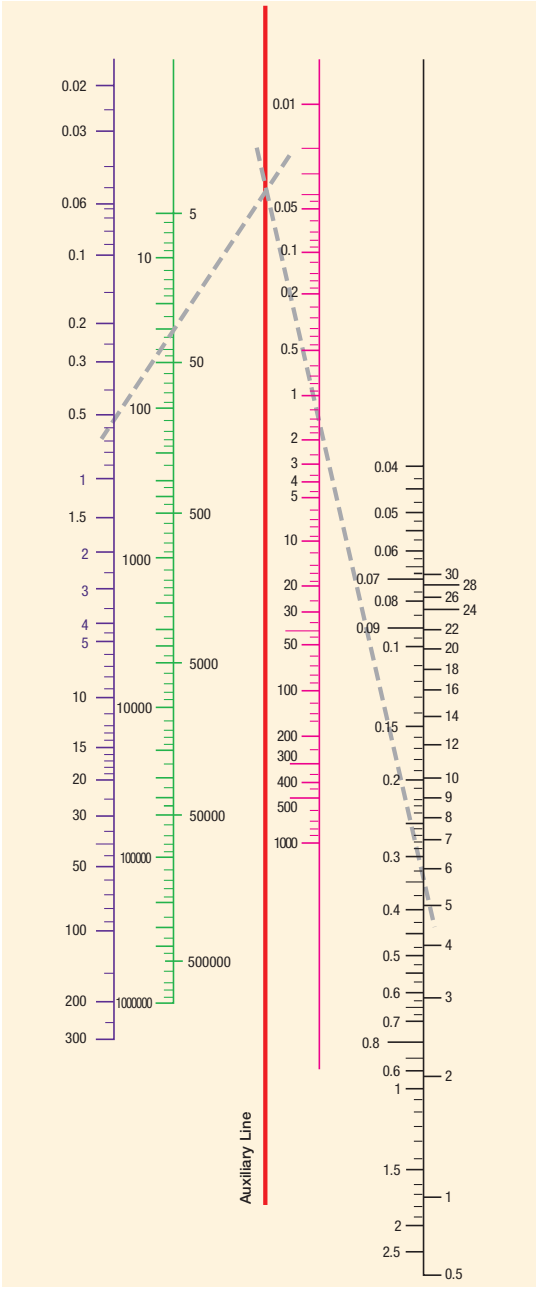
t = Fluid Temperature **γN** = Specific Gravity **Kv** = Flow Cœfficient **Qn** = Flow Rate **Δp** = Pressure Drop **P_1** = Inlet Pressure

Specific gravity of the most common gases (γ = Kg/m³) - (t = 0°C - P = 760mm Hg)

Acetylene	1.176	**Helium**	0.179	**Natural gas**	0.723
Carbon dioxide	1.965	**Ethane**	1.035	**Methane**	0.722
Air	1.293	**Ethylene**	1.259	**Carbon monoxide**	1.250
Argon	1.780	**Hydrogen**	0.089	**Oxygen**	1.429
Nitrogen	1.255			**Propane**	1.520
Butane	2.000			**Steam**	0.805

TECHNICAL INFORMATION

Diagram 3 for Dry Satured Steam



Steam (Dry Satured) Data

P_2 bar	Temp. °C	Vs m³/Kg	P_2 bar	Temp. °C	Vs m³/Kg
0.01	6.6	131.600	10.00	179.0	0.200
0.02	17.1	68.300	110.00	183.2	0.181
0.03	23.7	46.500	120.00	187.1	0.176
0.04	28.6	35.500	13.00	190.7	0.155
0.05	32.5	28.700	14.00	194.1	0.144
0.06	35.8	24.200	15.00	197.4	0.135
0.08	41.1	18.500	16.00	200.4	0.126
0.10	45.4	15.000	17.00	203.4	0.119
0.20	5 9.7	7.800	18.00	206.2	0.113
0.30	68.7	5.330	19.00	208.8	0.107
0.40	75.4	4.070	20.00	211.4	0.102
0.50	80.9	3.300	22.00	216.2	0.093
0.60	85.5	2.790	24.00	220.8	0.085
0.70	89.5	2.410	26.00	225.0	0.079
0.80	93.0	2.130	28.00	229.0	0.073
0.90	96.2	1.910	30.00	232.8	0.068
1.00	99.1	1.730	32.00	236.4	0.064
1.50	110.8	1.180	34.00	239.8	0.060
2.00	119.6	0.900	36.00	243.1	0.057
2.50	126.8	0.730	38.00	246.2	0.053
3.00	132.9	0.620	40.00	249.2	0.051
3.50	138.2	0.530	45.00	256.2	0.045
4.00	142.9	0.470	50.00	262.7	0.040
4.50	147.2	0.420	55.00	268.7	0.036
5.00	151.1	0.380	60.00	274.3	0.033
5.50	154.7	0.350	65.00	279.6	0.030
6.00	158.1	0.320	70.00	284.5	0.028
6.50	161.2	0.300	80.00	293.6	0.024
7.00	164.2	0.280	90.00	301.9	0.021
7.50	167.0	0.260	100.00	309.5	0.018
8.00	169.6	0.250	150.00	340.5	0.011
8.50	172.1	0.230	200.00	364.2	0.006
9.00	174.5	0.220	225.00	374.0	0.003
9.50	176.8	0.210			

Kv = Flow Coefficient **Qv** = Flow Rate **Δp** = Pressure Drop **Vs** = Specific Volume **P_2** = Outlet Pressure

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V2.0 01/2020

VISCOSITY CONVERSION TABLE

Centistokes cStokes mm²/S	°Engler °E	Saybolt Universal Second SSU	Rewood Second N°1 SRW N°1
1	1	-	-
12	2	65	55
22	3	100	90
30	4	140	120
28	5	175	155
45	6	210	185
60	8	275	245
75	10	345	305
90	12	415	370
115	15	525	465
150	20	685	610
200	26	910	810
300	39	1 385	1 215
400	53	1 820	1 620
500	66	2 275	2 025
750	97	3 365	2 995
1 500	197	6 820	6 075

OTHER USEFUL FORMULAS

Formulas:

°C	=	(°F - 32) x 5/9
°F	=	(°C x 9/5) + 32
m³/h	=	l/min x 0.06
l/min	=	m³/h x 16,67
m³/sec	=	m³/h x 2,778 x 10^{-4}
m³/sec	=	l/min x 1,667 x 10^{-5}

Examples:

(**167°F**-32) x 5/9	=	**75°C**
(**30°C** x 9/5) + 32	=	**86°F**
100 l/min x 0.06	=	**6 m³/h**
9 m³/h x 16,67	=	**150 l/min**
18.000 m³/h x 2.778 x 10 -4	=	**5 m³/sec**
479.904 l/min x 1.667 x 10-5	=	**8 m³/sec**

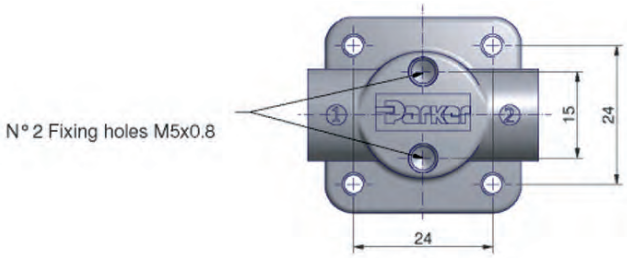
NOTES

TABLE OF SUB-BASES FOR VALVES (Examples)

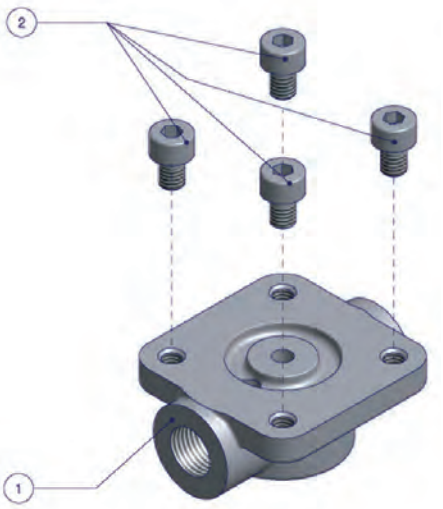
Port Size	Part Number	Material	Kit Including	Compatible with Valves with
1/8"G	**XGSPG1**	AISI 304	fixing screws	any < 3.0 mm orifice
1/4"G	**XGSPG2**	AISI 304	fixing screws	any < 3.0 mm orifice
1/4"G	**XGSPG3**	AISI 304	fixing screws	4.0 mm to 5 mm orifice

Liquipure® Adapter

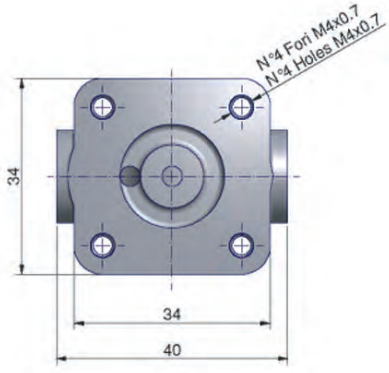












All dimensions are in mm

TABLE OF VOLTAGE CODES FOR COILS AND ELECTRICAL PARTS

This table is showing the most commonly used voltage codes, for other voltages, please ask us.

VOLTAGE CODES			C1	C2	N7	L8	C4	C5		C7	E6	P1	A5	0A	S5	P2	1P	6J	0P	P3	K8
Coil	**Group**	**Sub-Group**	12 DC	24 DC	28 DC	30 DC	48 DC	110 DC	196 DC	220 DC	100/50	100/50-60	110/50	110-115/50	110-115/50 120/60	110/50-60	110-115/50-60	110-115/60	100/50-115/60	110/50-120/60	115/60
481045	1.1	-	•	•			•	•						•				•			
481180	1.1	-	•	•				•						•							
481530	1.1	-	•	•						•											
482605	1.1	-	•	•																	
482606	1.1	-	•	•			•	•						•				•			
483590	1.1	-													•						
488143	1.1	-										•									
488980	1.1	-	•	•			•	•						•				•			
492912	1.1	-		•																	
492919	1.1	-		•																	
495865	1.1	-		•			•							•				•			
496131	1.2	-	•	•			•	•								•					•
496637	1.2	-	•	•			•	•								•					•
WB4.5	1.3	-									•	•								•	
WB5.0	1.3	-	•	•				•													
WB8.0	1.3	-																		•	
481000	2.0	2.1	•	•			•	•		•				•				•			
481865	2.0	2.1	•	•			•	•					•								•
482635	2.0	2.1													•						
482725	2.0	2.1	•	•				•					•								•
483371	2.0	2.1	•	•			•	•		•				•				•			
483510	2.0	2.1													•						
483520	2.0	2.1																			
485100	2.0	2.1		•						•				•							
488553	2.0	2.1										•									
488947	2.0	2.1										•									
491514	2.0	2.1	•	•		•														•	
492070	2.0	2.1	•	•			•	•								•					
492190	2.0	2.1	•	•			•	•		•						•					
492453	2.0	2.1	•	•			•	•					•								
492670	2.0	2.1	•	•			•	•					•								
492726	2.0	2.1		•																	
493640	2.0	2.1		•			•						•							•	
494040	2.0	2.1		•						•				•							
495870	2.0	2.1		•			•	•					•								
495905	2.0	2.1		•			•	•													•
496081	2.0	2.1	•	•											•						
496082	2.0	2.1	•	•																•	
496110	2.0	2.1													•						
HZ10	2.0	2.1																		•	
481044	2.0	2.2											•						•		
483816	2.0	2.2	•	•																	
486265	2.0	2.2	•	•			•						•						•		
492425	2.0	2.2	•	•									•								
492727	2.0	2.2	•	•																	
495880	2.0	2.2		•									•								
496155	2.0	2.2		•			•						•								
HZ11	2.0	2.2	•	•			•													•	
482730	3.0	-		•			•						•								•
482735	3.0	-		•			•														
495875	3.0	2.1		•																	

A1	1W	P6	S2		U3	A7	B7	R5	3D	7J	3P	4K	Q3	S6	F4	J3	P9	A2	B2	P0	A8	B8	Q1	A9	Q2	5P	A4	S4
12/50	12/50-60	200/50-60	200-230/60	208-230/60	208-240/60	220/50	220/60	220/50-60	220-230/50	220-230/60	220-230/50-60	220-240/60	220/50-240/60	220-240/50	230/50	230/60	230/50-60	24/50	24/60	24/50-60	240/50	240/60	240/50-60	380/50	380/50-60	380/50-440/60	48/50	48/50-60
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TABLE OF VOLTAGE CODES FOR COILS AND ELECTRICAL PARTS

This table is showing the most commonly used voltage codes, for other voltages, please ask us.

VOLTAGE CODES			C1	C2	N7	L8	C4	C5		C7	E6	P1	A5	0A	S5	P2	1P	6J	0P	P3	K8
Coil	**Group**	**Sub-Group**	**12 DC**	**24 DC**	**28 DC**	**30 DC**	**48 DC**	**110 DC**	**196 DC**	**220 DC**	**100/50**	**100/50-60**	**110/50**	**110-115/50**	**110-115/50 120/60**	**110/50-60**	**110-115/50-60**	**110-115/60**	**100/50-115/60**	**110/50-120/60**	**115/60**
484990	4.0	-										•					•				
485400	4.0	-	•	•			•	•													
495915	4.0	-		•			•										•				
482740	6.0	-		•			•	•													
482745	6.0	-		•																	
495900	6.0	-	•	•			•	•													•
496125	6.0	-		•			•	•													
483580.01	7.0	-			•																
488650.01	7.0	-			•																
488660.01	7.0	-			•																
488670.01	7.0	-			•																
490885	7.0	-				•															
490890	7.0	-			•	•															
495910	8.0	-			•																
492210	9.0	-		•																	
492965.01	9.0	-			•																
496565	9.0	-			•																
492300	10.1	-	•	•			•	•		•						•					
492310	10.1	-	•	•			•	•		•						•					
496560	10.1	-		•			•	•								•					
496800	10.1	-		•			•	•								•					
496800.02	10.1	-		•			•	•								•					
496895	10.1	-		•			•	•								•					
496555	10.2	-		•			•	•								•					
496700	10.2	-		•			•	•								•					
496700.02	10.2	-		•			•	•								•					
497105	10.3	-	•	•			•	•									•				
492335	12.0	-				•															
482870.01	12.0	-			•																
495294	13.0	-	•	•																	
496193	13.0	-	•	•																	
483824	14.1	-																			
483764	14.2	-																			
483541	14.3	-																			

A1	1W	P6	S2		U3	A7	B7	R5	3D	7J	3P	4K	Q3	S6	F4	J3	P9	A2	B2	P0	A8	B8	Q1	A9	Q2	5P	A4	S4
12/50	12/50-60	200/50-60	200-230/60	208-230/60	208-240/60	220/50	220/60	220/50-60	220-230/50	220-230/60	220-230/50-60	220-240/60	220/50-240/60	220-240/50	230/50	230/60	230/50-60	24/50	24/60	24/50-60	240/50	240/60	240/50-60	380/50	380/50-60	380/50-440/60	48/50	48/50-60
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INDEX BY COIL REFERENCE

Coil Reference	Coil Group	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
481000	2.0/2.1	Coil with screw terminal, 40 mm	8.0	8.0	-40°C to +50°C	-	IP 44 to 67	-	428
481044	2.0/2.2	Coil with screw terminal High power, 40 mm	-	14.0	-40°C to +50°C	-	IP 44 to 67	-	429
481180	1.1	Coil for DIN plug connection, 22 mm	5.0	4.0	-40°C to +50°C	-	IP65	-	419
481865	2.0 / 2.1	COILS FOR DIN PLUG CONNECTION 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	412
482605	1.1	Explosion proof encapsulated electrical part "mb", 32 mm	5.0	4.0	-40°C to +65°C / +40°C	-	IP65	II 2 G Ex mb IIC T4/T5	447
482606	1.1	Explosion proof encapsulated electrical part "mb", low power, 32 mm	2.5	2.0	-40°C to +65°C/+35°C	-	IP65	II 2 G Ex mb IIC T4/T5	447
482730	3.0	COILS FOR DIN PLUG CONNECTION, REDUCED POWER, 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	-	414
482740	6.0	COILS FOR DIN PLUG CONNECTION, low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	-	415
483371	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex eb IIC T4	457
483510	2.0 / 2.1	COILS FOR DIN PLUG CONNECTION 32 mm	-	9.0	-40°C to +50°C	-	IP65	-	412
483520	2.0/2.1	Coil with screw terminal, double frequency, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	428
483541	14.3	Coil with screw terminal, high temperature-high power, 40 mm	20.0	20.0	-40°C to +50°C	-	IP 44 to 67	-	432
483590	1.1	Coil for DIN plug connection,double frequency, 22 mm	-	3.0	-40°C to +50°C	-	IP65	-	421
483764	14.2	Coil for DIN plug connection, UL recognized	-	9.0	-40°C to +50°C	-	IP65	-	417
483816	2.2	Coil for DIN plug connection for Jet Valves, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	418
483824	14.1	Coil with screw terminal, high temperature-high power, 40 mm	19.0	19.0	-40°C to +50°C	-	IP 44 to 67	-	431
484990	4.0	Coil with screw terminal,bistable,for impulse applications, 40 mm	-	11.0	-40°C to +50°C	-	IP 44 to 67	-	434
485400	4.0	Coil with screw terminal,bistable,for impulse applications, 40 mm	13.0	-	-40°C to +50°C	-	IP 44 to 67	-	434
486265	2.0/2.2	Coil with screw terminal,high temperature-high power, 40 mm	14.0	14.0	-40°C to +50°C	-	IP 44 to 67	-	430
488143	1.1	Coil for DIN plug connection,double frequency, 22 mm	-	2.5	-40°C to +50°C	-	IP65	-	422
488553	2.0/2.1	Coil with screw terminal,double frequency, H class, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	433
488980	1.1	Coil for DIN plug connection, low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	-	419
490885	7.0	Explosion proof intrinsically safe electrical part, "NEMA", 50 mm	3.0	-	-40°C to +60°C	-	NEMA 4 - 4X	Cl. I, Div.I, Gr. A, B, C, D	465
491514	2.0/2.1	COILS FOR DIN PLUG CONNECTION, 32 mm, UL	-	11.0	-40°C to +50°C	.	IP65	-	416
492070	2.0/2.1	Explosion proof encapsulated electrical part "mb", with water proof metal housing, 50mm (with 3 m cable length)	8.0	9.0	-40°C to +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	449
492190	2.0/2.1	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	9.0	11.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T3/T4	460
492210	9.0	Explosion proof increased safety and encapsulated electrical part "eb", "Booster", 50 mm	1.0 to 1.8	-	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T5/T6	459
492310	10.1	Explosion proof increased safety and encapsulated electrical part "eb", 50 mm	6.0	6.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T4/T5	458
492425	2.0/2.2	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	413
492453	2.0/2.1	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	-	413
492912	1.1	Coil for DIN plug connection, 22 mm	4.0	3.0	-40°C to +50°C	-	IP65	-	420
493640	2.0/2.1	Flame proof encapsulated electrical part "db mb", double frequency	8.0	8.0	-40°C to +75°C	-	IP65	II 2 G Ex db mb IIC T4/T5	456
494040	2.0/2.1	Explosion proof increased safety electrical part "eb", 50 mm	8.0	8.0	-40°C to +90°C	-	IP67	II 2 G Ex eb IIC T3/T4	457
495294	13.0	Coil with ISO-DIN connector, 12-24VDC for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	435
495865	1.1	Explosion proof electrical part "nAc nCc", low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5	438
495870	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	440
495875	3.0	Explosion proof electrical part "nAc nCc", 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	442
495880	2.0/2.2	Explosion proof electrical part "nAc nCc", 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3	443
495900	6.0	Flame proof encapsulated electrical part "db mb", low power, 37 mm	2.0	2.5	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5/T6	452

INDEX BY COIL REFERENCE

Coil Reference	Coil Group	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
495905	2.0/2.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	453
495910	8.0	Explosion proof intrinsically safe electrical part "ia", "booster", 37 mm	0.3 to 1.2	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	462
495915	4.0	Explosion proof increased safety electrical part "nAc nCc", 50 mm	13.0	11.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	444
496081	2.0/2.1	Coil with flying leads,IP 67, 32 mm	9.0	9.0	-40°C to +50°C	-	IP67	-	426
496110	2.0/2.1	Explosion proof electrical part "nAc nCc", 32 mm	-	9.0	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T3/T4	440
496125	6.0	Explosion proof electrical part "nAc nCc", low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5/T6	441
496131	1.2	Coil for DIN plug connection, double frequency, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	423
496155	2.0/2.2	Explosion proof increased safety electrical part "nAc nCc", 50 mm	14.0	14.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	445
496193	13.0	Coil with ISO-DIN connector, 12-24VDC, for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	435
496482	1.2	Coil for DIN plug connection, double frequency coil, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	424
496555	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	454
496560	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	454
496565	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 37 mm	0.77 to 2.58	-	-40°C to +80°C	-	IP67	II 1 G Ex ia IIC T4/T5/T6	463
496637	1.2	Explosion proof electrical part "nAc nCc", double frequency, 22 mm	3.0	3.0	-20°C to +50°C	-	IP65	II 3 D Ex TC IIIC T 95°C	439
496700	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5 / T6	455
496800	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	455
496895	10.1	Coil for DIN plug connection for oil and gas, 37 mm	8.0	8.0	-40°C to +50°C	-	IP65	-	425
497105	10.3	Flame proof stainless steel electrical part "db", M20x1.5	8.0	8.0	-50°C to +80°C /+60 °C/+40°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	446
482.606.160	1.1	Explosion proof encapsulated electrical part "mb", low power, 32 mm	2.5	2.0	-40°C to +65°C/+35°C	-	IP65	II 2 G Ex mb IIC T4/T5	447
492.070.160	2.0/2.1	Explosion proof encapsulated electrical part "mb", with water proof metal housing, 50mm (with 6 m cable length)	8.0	9.0	-40°C to +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	449
483580.01	7.0	Explosion proof intrinsically safe electrical part "ia", 32 mm	3.0	-	-40°C to +55°C	-	IP65	II 1 G Ex ia IIC T6	461
483960.01	7.0	Explosion proof intrinsically safe electrical part "ia", 32 mm	3.0	-	-40°C to +55°C	-	IP65	II 1 G Ex ia IIC T6	461
488650.01	7.0	Explosion proof intrinsically safe electrical part "ia", 50 mm	0.3 to 3.0	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	465
492670*	2.0/2.1	Explosion proof encapsulated electrical part "mb", 32 mm	9.0	8.0	-40°C to +50°C	-	IP65	II 2 G Ex mb IIC T4	448
492965.01	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 50 mm (stainless steel fixation)	0.3 to 2.3	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	464
492965.02	9.0	Explosion proof intrinsically safe electrical part "ia", " Booster", 50 mm (Plastic fixation)	0.3 to 2.3	-	-40°C to +65°C	-	IP66	II 1 G Ex ia IIC T6	464
493640.60*	2.0/2.1	Flame proof encapsulated electrical part "db mb", double frequency	8.0	8.0	-40°C to +75°C	-	IP65	II 2 G Ex db mb IIC T4/T5	456
495905.05*	2.0/2.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	453
496700.02	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5 / T6	455
496800.02	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	455
497105.02	10.3	Flame proof stainless steel electrical part "db", NPT 1/2"	8.0	8.0	-50°C to +80°C /+60 °C/+40°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	446
HZ10	2.0/2.1	Explosion proof encapsulated electrical part "mb", double frequency	8.0	8.0	-40°C to +85°C	-	IP65	II 2 G Ex mb IIC T3/T4/T5	450
HZ11		Explosion proof encapsulated electrical part "mb", double frequency	14.0	14.0	-40°C to +85°C	-	IP65	II 2 G Ex mb IIC T3/T4/T5	451

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1.1	481180	COIL FOR DIN PLUG CONNECTION, 22 MM	5.0	4.0	-40°C TO +50°C	-	IP65	-	419
1.1	483590	COIL FOR DIN PLUG CONNECTION,DOUBLE FREQUENCY, 22 MM	-	3.0	-40°C TO +50°C	-	IP65	-	421
1.1	488143	COIL FOR DIN PLUG CONNECTION,DOUBLE FREQUENCY, 22 MM	-	2.5	-40°C TO +50°C	-	IP65	-	422
1.1	495865	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", LOW POWER, 22 MM	2.5	2.0	-40°C TO +50°C	-	IP65	II 3 G Ex nAc nCc IIC T5	438
1.1	482605	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", 32 MM	5.0	4.0	-40°C TO +65°C / +40°C	-	IP65	II 2 G EX MB IIC T4/T5	447
1.1	482606	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", LOW POWER, 32 MM	2.5	2.0	-40°C TO +65°C/+35°C	-	IP65	II 2 G EX MB IIC T4/T5	447
1.1	482.606.160	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", LOW POWER, 32 MM	2.5	2.0	-40°C TO +65°C/+35°C	-	IP65	II 2 G EX MB IIC T4/T5	447
1.1	488980	COIL FOR DIN PLUG CONNECTION, LOW POWER, 22 MM	2.5	2.0	-40°C TO +50°C	-	IP65	-	419
1.1	492912	COIL FOR DIN PLUG CONNECTION, 22 MM	4.0	3.0	-40°C TO +50°C	-	IP65	-	420
1.2	496482	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY COIL, 22 MM	3.0	3.0	-40°C TO +50°C	-	IP65	-	424
1.2	496637	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", DOUBLE FREQUENCY, 22 MM	3.0	3.0	-20°C TO +50°C	-	IP65	II 3 D EX TC IIIC T 95°C	439
1.2	496131	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 MM	3.0	3.0	-40°C TO +50°C	-	IP65	-	423
2.0/2.1	481865	COILS FOR DIN PLUG CONNECTION 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	-	412
2.0/2.1	483510	COILS FOR DIN PLUG CONNECTION 32 MM	-	9.0	-40°C TO +50°C	-	IP65	-	412
2.0/2.1	492453	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	-	413
2.0/2.1	491514	COILS FOR DIN PLUG CONNECTION, 32 MM, UL	-	11.0	-40°C TO +50°C	-	IP65	-	416
2.0/2.1	496081	COIL WITH FLYING LEADS,IP 67, 32 MM	9.0	9.0	-40°C TO +50°C	-	IP67	-	426
2.0/2.1	481000	COIL WITH SCREW TERMINAL, 40 MM	8.0	8.0	-40°C TO +50°C	-	IP 44 TO 67	-	428
2.0/2.1	483520	COIL WITH SCREW TERMINAL, DOUBLE FREQUENCY, 40 MM	-	9.0	-40°C TO +50°C	-	IP 44 TO 67	-	428
2.0/2.1	495870	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3/T4	440
2.0/2.1	496110	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	-	9.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3/T4	440
2.0/2.1	492670*	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	II 2 G EX MB IIC T4	448
2.0/2.1	492070	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", WITH WATER PROOF METAL HOUSING, 50MM (WITH 3 M CABLE LENGTH)	8.0	9.0	-40°C TO +65°C	-	IP67	II 2 G EX MB IIC T4/T5	449
2.0/2.1	492.070.160	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", WITH WATER PROOF METAL HOUSING, 50MM (WITH 6 M CABLE LENGTH)	8.0	9.0	-40°C TO +65°C	-	IP67	II 2 G EX MB IIC T4/T5	449
2.0/2.1	HZ10	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", DOUBLE FREQUENCY	8.0	8.0	-40°C TO +85°C	-	IP65	II 2 G EX MB IIC T3/T4/T5	450
2.0/2.1	HZ11	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", DOUBLE FREQUENCY	14.0	14.0	-40°C TO +85°C	-	IP65	II 2 G EX MB IIC T3/T4/T5	451
2.0/2.1	495905	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	453
2.0/2.1	495905.05*	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	453
2.0/2.1	493640	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", DOUBLE FREQUENCY	8.0	8.0	-40°C TO +75°C	-	IP65	II 2 G EX DB MB IIC T4/T5	456
2.0/2.1	493640.60*	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", DOUBLE FREQUENCY	8.0	8.0	-40°C TO +75°C	-	IP65	II 2 G EX DB MB IIC T4/T5	456
2.0/2.1	483371	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "EB", 50 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX EB IIC T4	457
2.0/2.1	494040	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "EB", 50 MM	8.0	8.0	-40°C TO +90°C	-	IP67	II 2 G EX EB IIC T3/T4	457
2.0/2.1	492190	EXPLOSION PROOF INCREASED SAFETY AND ENCAPSULATED ELECTRICAL PART "EB", 50 MM	9.0	11.0	-40°C TO +75°C	-	IP66	II 2 G EX EB MB IIC T3/T4	460
2.0/2.1	488553	COIL WITH SCREW TERMINAL,DOUBLE FREQUENCY, H CLASS, 40 MM	-	9.0	-40°C TO +50°C	-	IP 44 TO 67	-	433
2.0/2.2	492425	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 MM	14.0	14.0	-40°C TO +50°C	-	IP65	-	413
2.0/2.2	481044	COIL WITH SCREW TERMINAL HIGH POWER, 40 MM	-	14.0	-40°C TO +50°C	-	IP 44 TO 67	-	429
2.0/2.2	486265	COIL WITH SCREW TERMINAL,HIGH TEMPERATURE-HIGH POWER, 40 MM	14.0	14.0	-40°C TO +50°C	-	IP 44 TO 67	-	430
2.0/2.2	495880	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	14.0	14.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3	443
2.0/2.2	496155	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "NAC NCC", 50 MM	14.0	14.0	-40°C TO +65°C	-	IP67	II 3 G EX NAC NCC IIC T3	445

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2.2	483816	COIL FOR DIN PLUG CONNECTION FOR JET VALVES, 32 MM	14.0	14.0	-40°C TO +50°C	-	IP65	-	418
3.0	482730	COILS FOR DIN PLUG CONNECTION, REDUCED POWER, 32 MM	7.0	6.0	-40°C TO +50°C	-	IP65	-	414
3.0	495875	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	7.0	6.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3/T4	442
4.0	484990	COIL WITH SCREW TERMINAL,BISTABLE,FOR IMPULSE APPLICATIONS, 40 MM	-	11.0	-40°C TO +50°C	-	IP 44 TO 67	-	434
4.0	495915	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "NAC NCC", 50 MM	13.0	11.0	-40°C TO +65°C	-	IP67	II 3 G EX NAC NCC IIC T3	444
4.0	485400	COIL WITH SCREW TERMINAL,BISTABLE,FOR IMPULSE APPLICATIONS, 40 MM	13.0	-	-40°C TO +50°C	-	IP 44 TO 67	-	434
6.0	482740	COILS FOR DIN PLUG CONNECTION, LOW POWER, 32 MM	1.6	-	-40°C TO +50°C	-	IP65	-	415
6.0	496125	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", LOW POWER, 32 MM	1.6	-	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T5/T6	441
6.0	495900	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", LOW POWER, 37 MM	2.0	2.5	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4 / T5/T6	452
7.0	483580.01	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", 32 MM	3.0	-	-40°C TO +55°C	-	IP65	II 1 G EX IA IIC T6	461
7.0	483960.01	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", 32 MM	3.0	-	-40°C TO +55°C	-	IP65	II 1 G EX IA IIC T6	461
7.0	488650.01	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", 50 MM	0.3 TO 3.0	-	-40°C TO +65°C	-	IP66	II 1 G EX IA IIC T6	465
7.0	490885	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART, "NEMA", 50 MM	3.0	-	-40°C TO +60°C	-	NEMA 4 - 4X	CL. I, DIV.I, GR. A, B, C, D	465
8.0	495910	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", "BOOSTER", 37 MM	0.3 TO 1.2	-	-40°C TO +80°C	-	IP67	II 1 G EX IA IIC T4/T5/T6	462
9.0	492210	EXPLOSION PROOF INCREASED SAFETY AND ENCAPSULATED ELECTRICAL PART "EB", "BOOSTER", 50 MM	1.0 TO 1.8	-	-40°C TO +75°C	-	IP66	II 2 G EX EB MB IIC T5/T6	459
9.0	496565	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", " BOOSTER", 37 MM	0.77 TO 2.58	-	-40°C TO +80°C	-	IP67	II 1 G EX IA IIC T4/T5/T6	463
9.0	492965.01	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", " BOOSTER", 50 MM (STAINLESS STEEL FIXATION)	0.3 TO 2.3	-	-40°C TO +65°C	-	IP66	II 1 G EX IA IIC T6	464
9.0	492965.02	EXPLOSION PROOF INTRINSICALLY SAFE ELECTRICAL PART "IA", " BOOSTER", 50 MM (PLASTIC FIXATION)	0.3 TO 2.3	-	-40°C TO +65°C	-	IP66	II 1 G EX IA IIC T6	464
10.1	496895	COIL FOR DIN PLUG CONNECTION FOR OIL AND GAS, 37 MM	8.0	8.0	-40°C TO +50°C	-	IP65	-	425
10.1	496560	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	454
10.1	496800	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	455
10.1	496800.02	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	455
10.1	492310	EXPLOSION PROOF INCREASED SAFETY AND ENCAPSULATED ELECTRICAL PART "EB", 50 MM	6.0	6.0	-40°C TO +75°C	-	IP66	II 2 G EX EB MB IIC T4/T5	458
10.2	496555	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	6.0	6.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4/T5/T6	454
10.2	496700	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	6.0	6.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4 / T5 / T6	455
10.2	496700.02	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	6.0	6.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4 / T5 / T6	455
10.3	497105	FLAME PROOF STAINLESS STEEL ELECTRICAL PART "DB", M20X1.5	8.0	8.0	-50°C TO +80°C /+60 °C/+40°C	-	IP66	II 2 G EX DB IIC T4/T5/T6	446
10.3	497105.02	FLAME PROOF STAINLESS STEEL ELECTRICAL PART "DB", NPT 1/2"	8.0	8.0	-50°C TO +80°C /+60 °C/+40°C	-	IP66	II 2 G EX DB IIC T4/T5/T6	446
13.0	496193	COIL WITH ISO-DIN CONNECTOR, 12-24VDC, FOR TRANSPORTATION APPLICATIONS, 32 MM	9.0	-	-40°C TO +120°C	-	IP69K	-	435
13.0	495294	COIL WITH ISO-DIN CONNECTOR, 12-24VDC FOR TRANSPORTATION APPLICATIONS, 32 MM	9.0	-	-40°C TO +120°C	-	IP69K	-	435
14.1	483824	COIL WITH SCREW TERMINAL, HIGH TEMPERATURE-HIGH POWER, 40 MM	19.0	19.0	-40°C TO +50°C	-	IP 44 TO 67	-	431
14.2	483764	COIL FOR DIN PLUG CONNECTION, UL RECOGNIZED	-	9.0	-40°C TO +50°C	-	IP65	-	417
14.3	483541	COIL WITH SCREW TERMINAL, HIGH TEMPERATURE-HIGH POWER, 40 MM	20.0	20.0	-40°C TO +50°C	-	IP 44 TO 67	-	432

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Key Markets

- Aftermarket services
- Commercial transports
- Engines
- General & business aviation
- Helicopters
- Launch vehicles
- Military aircraft
- Missiles
- Power generation
- Regional transports
- Unmanned aerial vehicles

Key Products

- Control systems & actuation products
- Engine systems & components
- Fluid conveyance systems & components
- Fluid metering, delivery & atomization devices
- Fuel systems & components
- Fuel tank inerting systems
- Hydraulic systems & components
- Thermal management
- Wheels & brakes



Key Markets

- Agriculture
- Air conditioning
- Construction Machinery
- Food & beverage
- Industrial machinery
- Life sciences
- Oil & gas
- Precision cooling
- Process
- Refrigeration
- Transportation

Key Products

- Accumulators
- Advanced actuators
- CO_2 controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Heat exchangers
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Smart pumps
- Solenoid valves
- Thermostatic expansion valves



Key Markets

- Aerial lift
- Agriculture
- Alternative energy
- Construction machinery
- Forestry
- Industrial machinery
- Machine tools
- Marine
- Material handling
- Mining
- Oil & gas
- Power generation
- Refuse vehicles
- Renewable energy
- Truck hydraulics
- Turf equipment

Key Products

- Accumulators
- Cartridge valves
- Electrohydraulic actuators
- Human machine interfaces
- Hybrid drives
- Hydraulic cylinders
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Hydrostatic steering
- Integrated hydraulic circuits
- Power take-offs
- Power units
- Rotary actuators
- Sensors



Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors



Key Markets

- Aerospace
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators, gantry robots & slides
- Electrohydrostatic actuation systems
- Electromechanical actuation systems
- Human machine interface
- Linear motors
- Stepper motors, servo motors, drives & controls
- Structural extrusions



Key Markets

- Aerospace
- Food & beverage
- Industrial plant & equipment
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation & renewable energy
- Process
- Transportation
- Water Purification

Key Products

- Analytical gas generators
- Compressed air filters & dryers
- Engine air, coolant, fuel & oil filtration systems
- Fluid condition monitoring systems
- Hydraulic & lubrication filters
- Hydrogen, nitrogen & zero air generators
- Instrumentation filters
- Membrane & fiber filters
- Microfiltration
- Sterile air filtration
- Water desalination & purification filters & systems



Key Markets

- Aerial lift
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Life sciences
- Marine
- Mining
- Mobile
- Oil & gas
- Renewable energy
- Transportation

Key Products

- Check valves
- Connectors for low pressure fluid conveyance
- Deep sea umbilicals
- Diagnostic equipment
- Hose couplings
- Industrial hose
- Mooring systems & power cables
- PTFE hose & tubing
- Quick couplings
- Rubber & thermoplastic hose
- Tube fittings & adapters
- Tubing & plastic fittings



Key Markets

- Alternative fuels
- Biopharmaceuticals
- Chemical & refining
- Food & beverage
- Marine & shipbuilding
- Medical & dental
- Microelectronics
- Nuclear Power
- Offshore oil exploration
- Oil & gas
- Pharmaceuticals
- Power generation
- Pulp & paper
- Steel
- Water/wastewater

Key Products

- Analytical Instruments
- Analytical sample conditioning products & systems
- Chemical injection fittings & valves
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves, regulators & digital flow controllers
- Industrial mass flow meters/controllers
- Permanent no-weld tube fittings
- Precision industrial regulators & flow controllers
- Process control double block & bleeds
- Process control fittings, valves, regulators & manifold valves



Key Markets

- Aerospace
- Chemical processing
- Consumer
- Fluid power
- General industrial
- Information technology
- Life sciences
- Microelectronics
- Military
- Oil & gas
- Power generation
- Renewable energy
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- Electro-medical instrument design & assembly
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- High temperature metal seals
- Homogeneous & inserted elastomeric shapes
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