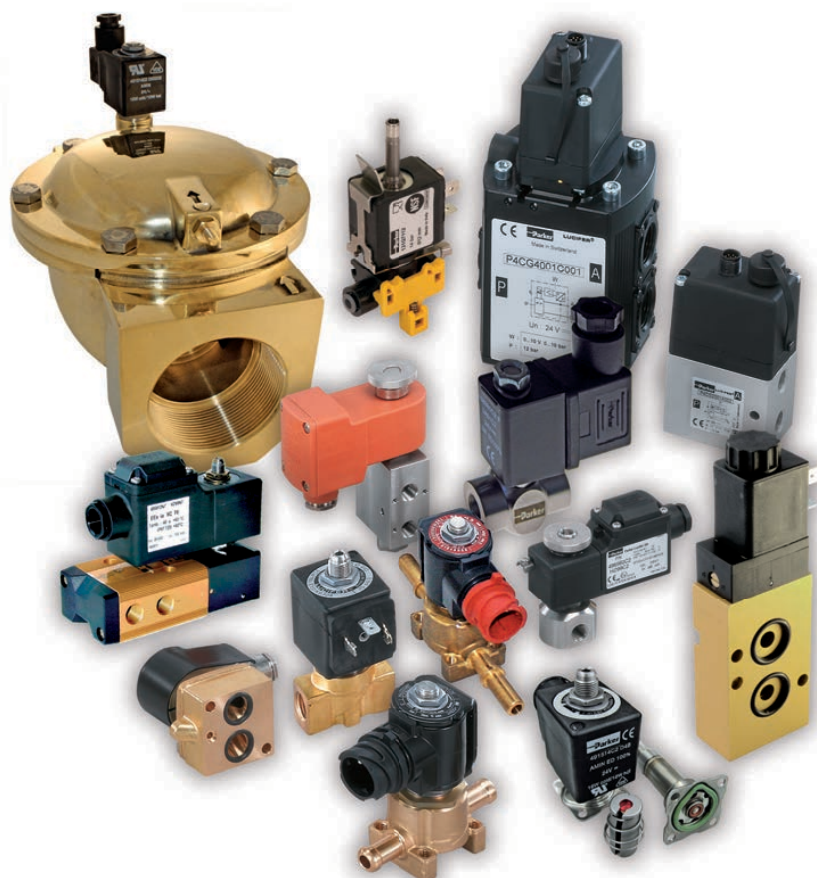




GENERAL CATALOGUE

Solenoid Valves for Fluid Control



ORGANIZATION OVERVIEW

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 greatly 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.



FCSE HEADQUARTER - GESSATE (MI) - ITALY



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.



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GENERAL CATALOGUE FCSE

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A COMPLETE RANGE OF SOLENOID VALVES FOR FLUID CONTROL

2 & 3 WAY VALVES FOR INDUSTRIAL AND GENERAL PURPOSE

- 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
- Gas burner
- Fast switching



2 & 3 WAYS VALVES FOR BEVERAGE DISPENSING:

- 2 & 3 way healthy solenoid valves
- 2 & 3 way valves & Liquipure®
- 2 & 3 way Technopolymer valves



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



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A MODULAR CONCEPT FOR EVERY APPLICATION

CHOOSE BETWEEN:

Actuation Modes

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

Material Types

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

Mounting Solutions

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

Control Functions

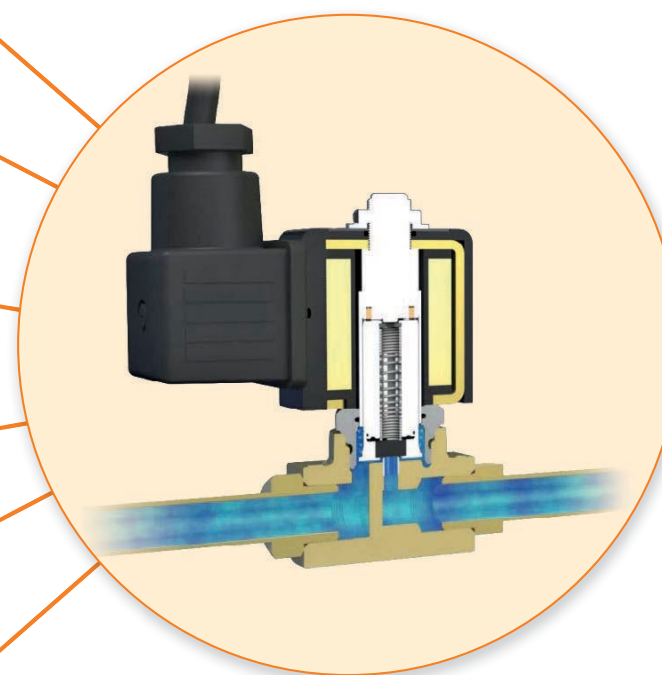
- Normally Closed
- Control by Electric Impulse
- Normally Open
- Dual Solenoids
- Universal
- PWM

Internal Design

- Piston
- Diaphragm
- Poppet
- Spool

Seals

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



ATEX CERTIFICATION



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.

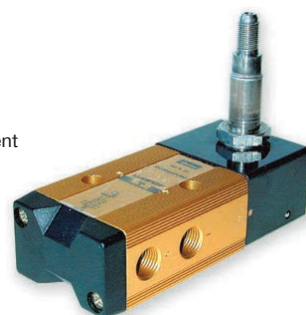


PRESSURE VESSELS ATEX CERTIFICATION

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  indicates that the valve family is covered by an ATEX Type Examination Certificate or is included in an ATEX Technical File. Contact Technical Support for ATEX certification information on specific valve model.



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.



Contact Technical Support for compatibility between ATEX mechanical part and ATEX coil. Parker is not responsible for assembly operations between ATEX mechanical part and ATEX coils performed outside Parker plants.



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FCSE IS MEETING WORLD CLASS STANDARDS

QUALITY STANDARDS:

- ISO 9001
- ISO 14001
- OHSAS 18001
- ISO 45001 : 2018



CERTIFICATIONS AND APPROVALS:

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

Regulatory compliance:

- CE
- UKCA
- RoHS
- REACH

Third party certifications:

- ATEX
- IECEx
- CCC
- KCs
- JPEx
- UL
- VDE
- IMQ
- DIN
- BSI
- AGA
- NSF



IMPORTANT NOTE:

Third party certifications apply to specific product families. For detailed information about the product certifications available for a specific product family, please refer to the pertinent catalogue sections and to Parker technical support.



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HOW TO SELECT A VALVE

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

First decide the actuation ❸, then move across the table selecting your body material ❹, function ❺ and technical requirements ❻.

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

❶ SELECT PRODUCT FAMILY

❷ SELECT APPLICATION

❸ SELECT ACTUATION

❹ SELECT BODY

❺ SELECT FUNCTION

❻ SELECT TECHNICAL DATA

❼ SELECT CORRESPONDING PAGE



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❶

2 WAY VALVES

❷

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS

❸

❹

❺

❻

❼

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max. Fluid Temp. (°C)	Page Parker Valves	Page Parker UCSE® 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
		Normally Open	3/8"	4 to 6	12	10	120	-	36
			1/2"	8.5 to 11	36	4	120	-	36
Magnalift	Brass/Pipe mounting	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
			5 mm	1.5 to 3	4.5	100	130	-	42
		Normally Closed	5 mm	1.5	1.5	20	120	-	44
			3/8"	13 to 15	65	20	140	46	48
		Normally Open	1/2"	13 to 15	65	20	140	46	48
			3/4"	15 to 20	100	20	140	46	50
		Normally Closed	1"	15 to 25	170	20	140	46	52
			1/4"	8 to 12	40	120	-	-	-
		Normally Open	3/8"	11 to 13	30	120	54	54	54
			1/2"	11 to 15	40	120	54	54	54
Pilot Operated	Brass/Pipe mounting	Normally Open	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
		Control by Electric Impulse	2"	40	540	12	120	-	72
			1/4"	12	32	12	100	-	74
			3/8"	12	45	12	100	-	74
			1/2"	12	50	12	100	-	74
		Normally Closed	3/4"	18	100	12	100	-	74
			1"	18	110	12	100	-	74
			14 mm	14	45	40	140	-	76
			14 mm	14	46	40	120	-	76
	Brass/Sub-base mounting	Normally Closed	1/4"	1.5 to 3	4	40	140	38	40
			1/4"	3 to 5	11	20	100	-	40
		Normally Open	5 mm	1.5 to 3	4.5	100	130	-	42
			5 mm	1.5	1.5	20	120	-	44
		Control by Electric Impulse	3/8"	13 to 15	65	20	140	46	48
			1/2"	13 to 15	65	20	140	46	48
		Normally Closed	3/4"	15 to 20	100	20	140	46	50
			1"	15 to 25	170	20	140	46	52

Parker

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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

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.

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	Max. Flow	Fluid Temp.	Seal Mat.	Parker LUCIFER® Valves		Power	Coil Group		Dep. No.					
							Valve Ref.	Housing Ref.		AC W	DC W						
BSP	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	2995	481865	8	9	2.0	3551
	4	7.5	0.45	480	0	10	5	-10	120	FKM	121K3206	4270	481865	8	8	2.0	3551
	4	7.5	0.45	480	0	10	10	-10	120	FKM	121K3206	4270	480265	14	14	2.0	3551
	5	11	0.66	750	0	7	2	-10	120	FKM	121K3108	2995	481865	8	9	2.0	3551
3/8"	5	11	0.66	750	0	7	2	-10	120	FKM	121K3108	4270	481865	8	8	2.0	3551
	5	11	0.66	750	0	7	2	-10	120	FKM	121K3108	4270	480265	14	14	2.0	3551
	6	12	0.72	1100	0	5	1.1	-10	120	FKM	121K3206	2995	481865	8	9	2.0/14.2	3551
	6	12	0.72	1100	0	5	1.1	-10	120	FKM	121K3206	4270	481865	8	8	2.0/14.2	3551
1/2"	6	12	0.72	1100	0	5	1.1	-10	120	FKM	121K3206	4270	480265	14	14	2.0/14.2	3551
	8.5	25	1.5	1600	0	1.1	0.5	-10	120	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	481865	8	8	2.0	3427
	8.5	25	1.5	1600	0	4	1.2	-10	120	FKM	E121K46	4270	480265	14	14	2.0	3427
1/2"	11	36	2.16	2500	0	0.7	0.3	-10	120	FKM	E121K45	2995	481865	8	9	2.0	3427
	11	36	2.16	2500	0	1.2	0.35	-10	120	FKM	E121K45	4270	481865	8	8	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	480265	14	14	2.0	3427
	11	36	2.16	2500	0	2.5	0.7	-10	120	FKM	E121K45	4270	481865	8	9	2.0	3427

Notes:

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

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

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

Voltage Code

VAC/Hz	Code
12V 50-60Hz	1W
24V 50-60Hz	PD*
48V 50-60Hz	S4
110V 50Hz 115-120V 60Hz	T8*
100V 50Hz 100-120V 60Hz	T7
200V 50-60Hz	P6
220-240V 50Hz 240V 60Hz	S6*
380V 50Hz	A9

Valve and coil order example:

①

②

③

121K3206
Valve Reference

2995
Housing

481865A2
Coil and Voltage Code

2.0/2.1 COILS FOR DIN PLUG CONNECTION

CE **RoHS**

COILS 32 mm

These coils can be mounted with every Parker solenoid valve according 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 shunt 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.

Reference (Without DIN Plug)	481865
Coil Group	2.0 / 2.1
Degree of protection	IP65 according to IEC / EN 60529 standards (with DIN plug).
Class of insulation	B 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.
Power (W)	10 W
Power (W) (cold)	14 W
Power (W) (holding)	8 to 11 W
Power (W) (attraction cold)	13 W
Weight	150 g (without plug)
Voltages "Un"	12V 50-60Hz 24V 50-60Hz 48V 50-60Hz 110V 50Hz 115-120V 60Hz 100V 50Hz 100-120V 60Hz 200V 50-60Hz 220-240V 50Hz 240V 60Hz 380V 50Hz
	1W PD* S4 T8* T7 P6 S6* A9
	12V 24V 48V 110V 220V 380V
	C1* C2* C4* C5* C6* C7* C8*

To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = 481865C2
* = UL Approved

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.

EMEA Product Information Centre
Free phone: 00 800 27 27 5374
US Product Information Centre
Toll-free number: 1-800-27 27 537
www.parker.com

Your authorized Distributor
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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.

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



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HOW TO USE 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 referring 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.

2.0/2.1

COILS FOR DIN PLUG CONNECTION

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 spaces 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.

Reference (Without DIN Plug)		481865	
Coil Group		2.0 / 2.1	
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	The application is limited also by the temperature range of the valve.		
Power	Pn (hot)	10 W	
DC	P (cold) 20°C	14 W	
AC	Pn (holding)	8 to 11 W	
Attraction cold		13 W	
Weight		130 g (without plug)	
Voltages "Un"	VAC/Hz	VDC	Code
-10% to +10% of the Un	12V 50-60Hz 24V 50-60Hz 48V 50-60Hz 110V 50Hz 120V 60Hz 220-240V 50Hz/60Hz 380V 50Hz	12V 24V 48V 110V 120V 240V 380V	C1+ C2+ C4+ 0M+ 1T+ CS+

To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = 481865C2
* = UL Approved

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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US Product Information Centre
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2 WAY VALVES

NOTES

[illegible]

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS



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		
		Normally Open	1/2"	8.5 to 11	36	4	120	26		
			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 WAY VALVES

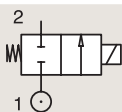
2/2

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

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential (Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	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
	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121K14	2995	481865	9	10	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	2.8	0.17	-	0	10	10	-10	75	FKM	121Z03	2995	481865	9	10	2.0	7863
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	E121K23	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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:

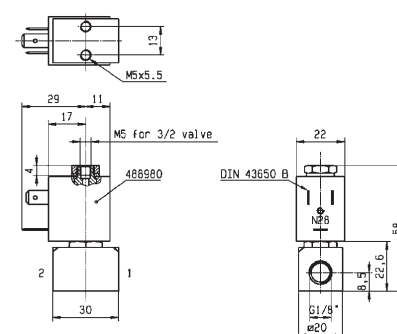
1.If fluid is water, media temperature shall not exceed 40°C



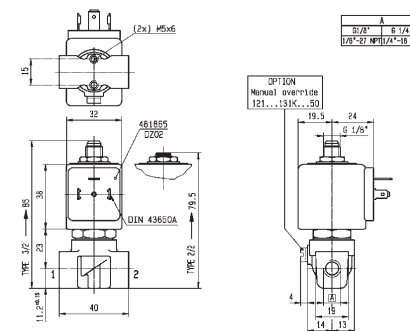
2 WAY VALVES



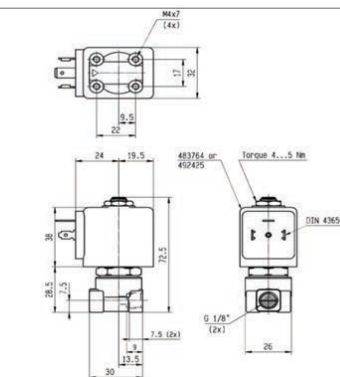
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1.2	0.9	2.5	-30
To	1/4"	3	4.5	100	130



Drawing 3382



Drawing 3510



Drawing 7863



2 WAY VALVES

2/2

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

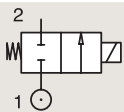


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	2.5	3.5	2	-30
To	1/4"	5	11	50	130

BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	mm																
	2.5	3.5	0.21	220	0	28	10	-30	100	Ruby	E121K63	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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
	3	4.5	0.27	320	0	20	7	-30	100	Ruby	E121K64	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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 ₂	2995	481865	9	10	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
	6.5	-	-	1400	0	0.5	0.5	-10	100	FKM	121K0601	2995	481865	9	10	2.0	3510
6.5	-	-	1400	0	0.5	0.5	-10	120	FKM	121K0601	4270	481000	8	8	2.0	3510	

Notes:

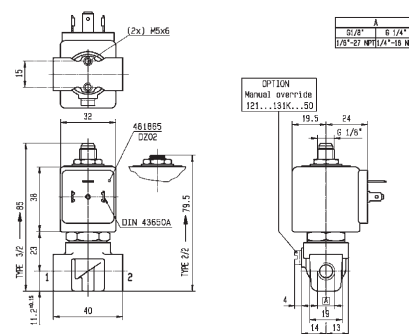
- 1.If fluid is water, media temperature shall not exceed 40°C
- 2.With manual override



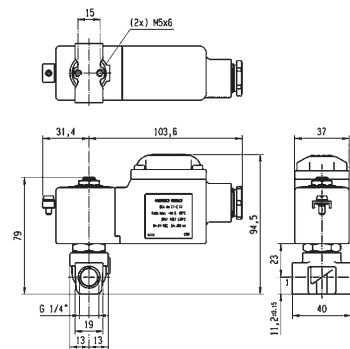
24

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES



Drawing 3510



Drawing 8274



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

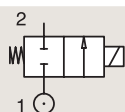
2/2

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

BRASS

PIPE MOUNTING

NORMALLY CLOSED



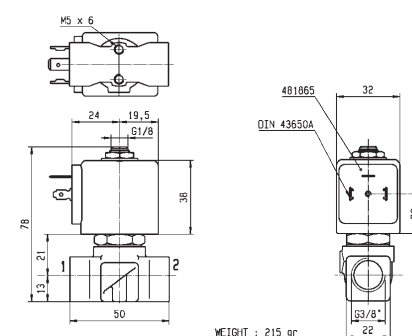
Port size (BSP)	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD)		Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.				
						AC bar	DC bar							AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	9	10	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	9	10	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	9	10	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"	5	11	0.66	750	0	7	2	-10	120	FKM	121K8206¹	2995	481865	9	10	2.0	3352
	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	9	10	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	9	10	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. Available also with 1/2" NPT ports. code U121K8206



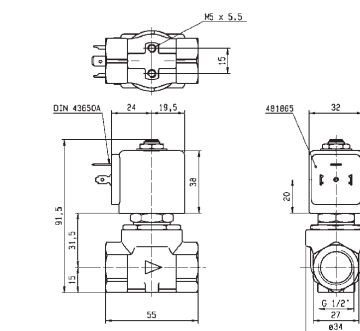
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	4	7.5	0.3	-10
To	1/2"	11	36	10	120



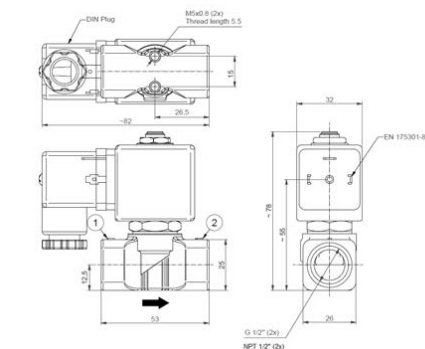
WEIGHT : 215 g



Drawing 3551



Drawing 3427



Drawing 3352

2 WAY VALVES

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.
		Kv	Qn	Qn	Min	Max(MOPD)	Max	Min	Max					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
	1.5	1.5	0.09	80	0	30	30	-10	100	PCTFE	122K84	2995	481865	9	10	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	9	10	2.0	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	9	10	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
1/4"	2.5	3	0.18	180	0	12	12	-30	75	PCTFE	122K83	2995	481865	9	10	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	9	10	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	2995	492425	14	14	-	3510
	4.5	7.8	0.47	-	0	4	4	-10	120	FKM	122K8606	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.
		Kv	Qn	Qn	Min	Max(MOPD)	Max	Min	Max					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



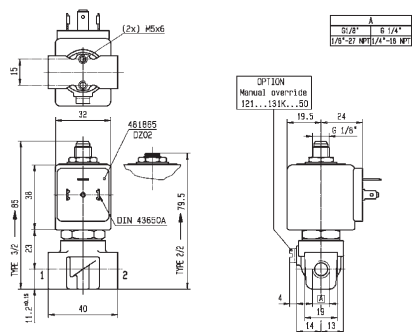
28

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

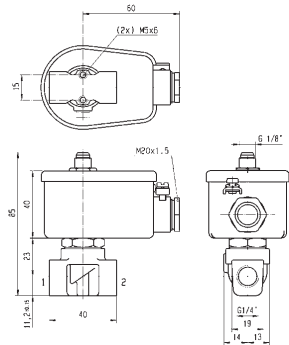
2 WAY VALVES



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



Drawing 3510



Drawing 8296



29

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

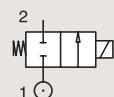
2/2

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

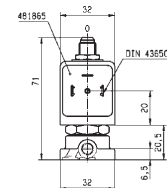
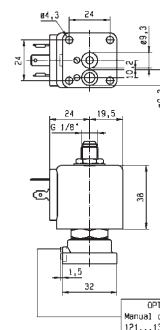
BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø mm	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	-	-10	100	FKM	121F4417	2995	481865	9	10	2.0	3509
	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	121F67	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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	



Drawing 3509



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	S8	1.5	1.5	7	-30
To	S8	3	4.5	100	130

2 WAY VALVES

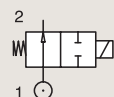
2/2

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

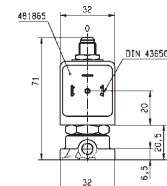
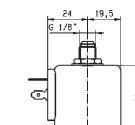
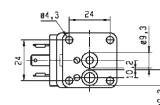
BRASS

SUB-BASE MOUNTING

NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD)		Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.				
						AC bar	DC bar							AC W	DC W		
SB	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	122F44	2995	481865	9	10	2.0	3509
	1.5	1.5	0.09	80	0	20	20	-10	120	FKM	122F44	4270	481000	8	8	2.1	3509



Drawing 3509

2 WAY VALVES

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

BRASS
PIPE MOUNTING

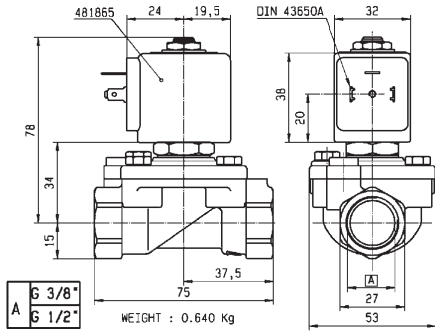
NORMALLY CLOSED

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



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



Drawing 3732



2 WAY VALVES

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
MAGNALIFT

2 WAY VALVES

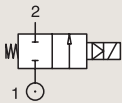


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/4"	15	80	7	-25
To	3/4"	15	80	20	140

BRASS

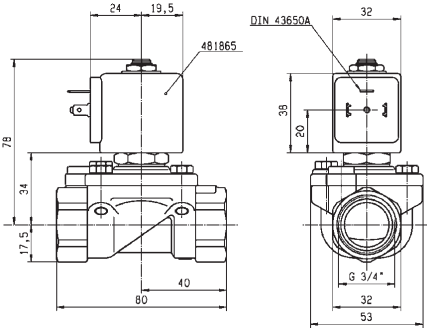
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
BSP	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16	2995	481865	9	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	7	7	-10	100	NBR	221G16	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610	2995	481865	9	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1610	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1630	2995	481865	9	10	2.0	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1631	2995	481865	9	10	2.0	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	16	-	0	100	FKM	221G26	2995	481865	9	-	2.0	3444
	15	80	4.8	6000	0	16	-	0	120	FKM	221G26	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	20	7	0	140	FKM	221G26	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	-	10	-10	100	FKM	221G2630	2995	481865	-	10	2.0	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630	-	492190	11	9	2.1	3444
3/4"	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16	2995	481865	9	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G16	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	7	7	-10	100	NBR	221G16	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610	2995	481865	9	-	2.0	3444
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1610	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1610	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1630	2995	481865	9	10	2.0	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1630	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	10	10	-10	100	NBR	221G1631	2995	481865	9	10	2.0	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	NBR	221G1631	-	492190	11	9	2.1	3444
	15	80	4.8	6000	0	16	-	0	100	FKM	221G26	2995	481865	9	-	2.0	3444
	15	80	4.8	6000	0	16	-	0	120	FKM	221G26	4270	481000	8	-	2.0	3444
	15	80	4.8	6000	0	20	7	0	140	FKM	221G26	4270	486265	14	14	2.0	3444
	15	80	4.8	6000	0	-	10	-10	100	FKM	221G2630	2995	481865	-	10	2.0	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630	-	492070	9	8	2.1	3444
	15	80	4.8	6000	0	10	10	-25	40	FKM	221G2630	-	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.



Drawing 3444



2 WAY VALVES

2/2

VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL GASES AND LIQUIDS
MAGNALIFT

2 WAY VALVES

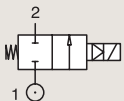


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1"	15	80	6	-10
To	1"	25	170	20	120

BRASS

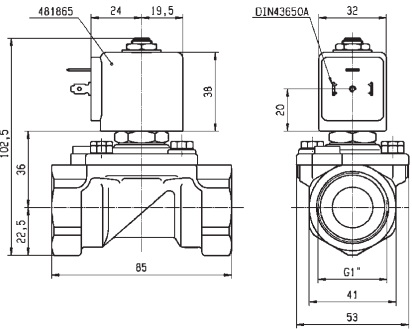
PIPE MOUNTING

NORMALLY CLOSED

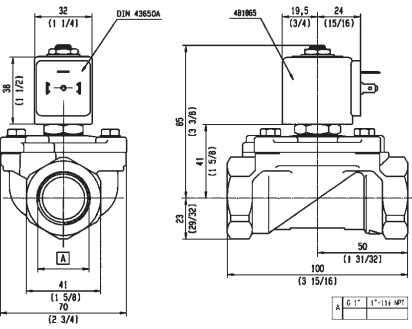


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qn	Min	Max	Min	Max	Min	Max					AC W	DC W		
BSP	mm	l/min	m³/h	bar	bar	°C	°C			NBR							
1"	15	80	4.8	6000	0	16	-	-10	100	NBR	221G17	2995	481865	9	-	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	2995	481865	9	-	2.0	3445
	15	80	4.8	6000	0	16	-	-10	100	NBR	221G1710	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	16	7	-10	100	NBR	221G1710	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	-	10	-10	100	NBR	221G1730	2995	481865	-	10	2.0	3445
	15	80	4.8	6000	0	10	10	-10	65	NBR	221G1730	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	75	NBR	221G1730	-	492190	11	9	2.1	3445
	15	80	4.8	6000	0	16	-	0	100	FKM	221G27	2995	481865	9	-	2.0	3445
	15	80	4.8	6000	0	16	-	0	120	FKM	221G27	4270	481000	8	-	2.0	3445
	15	80	4.8	6000	0	20	7	0	120	FKM	221G27	4270	486265	14	14	2.0	3445
	15	80	4.8	6000	0	-	10	0	100	FKM	221G2730	2995	481865	-	10	2.0	3445
	15	80	4.8	6000	0	10	10	-10	65	FKM	221G2730	-	492070	9	8	2.1	3445
	15	80	4.8	6000	0	10	10	-10	75	FKM	221G2730	-	492190	11	9	2.1	3445
	25	170	10.2	14000	0	16	-	-10	100	NBR	221G21	2995	481865	9	-	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	2995	481865	9	-	2.0	3448
	25	160	9.6	14000	0	16	-	0	120	FKM	221G2106	4270	481000	8	-	2.0	3448
	25	160	9.6	14000	0	16	6	0	120	FKM	221G2106	4270	486265	14	14	2.0	3448
	25	160	9.6	14000	0	16	-	-10	100	NBR	221G2110	2995	481865	9	-	2.0	3448
	25	160	9.6	14000	0	16	-	-10	100	NBR	221G2110	4270	481000	8	-	2.0	3448
	25	160	9.6	14000	0	16	6	-10	100	NBR	221G2110	4270	486265	14	14	2.0	3448
	25	170	10.2	14000	0	-	10	-10	40	NBR	221G2130	2995	481865	-	10	2.0	3448
	25	170	10.2	14000	0	10	10	-10	40	NBR	221G2130	-	492070	9	8	2.1	3448
	25	170	10.2	14000	0	10	10	-10	40	NBR	221G2130	-	492190	11	9	2.1	3448
	25	170	10.2	14000	0	-	10	0	100	FKM	221G2136	2995	481865	-	10	2.0	3448
	25	170	10.2	14000	0	-	10	0	100	FKM	221G2136	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.



Drawing 3445



Drawing 3448



2 WAY VALVES

2/2

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

BRASS

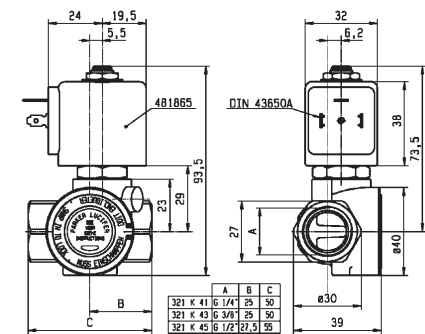
PIPE MOUNTING

NORMALLY CLOSED

Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11 ¹²	2995	481865	9	10	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
	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	9	10	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	9	10	2.0/3.0	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:

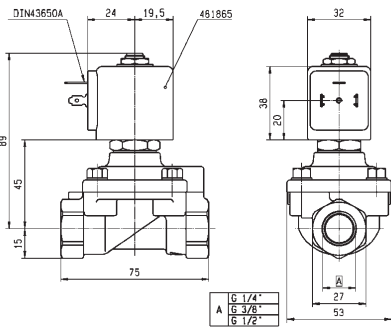
1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
2. Pilot seat disc in synthetic Ruby
3. Valve with manual override



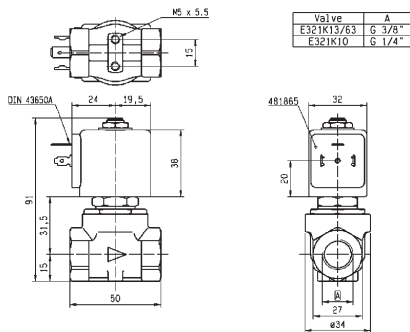
Drawing 7094



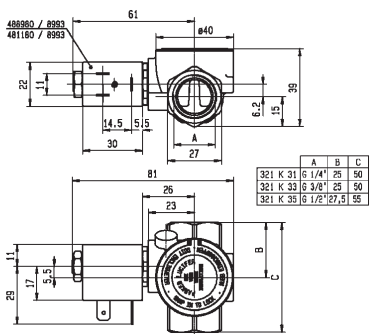
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	28	3	-10
To	1/4"	12	36	40	120



Drawing 3523



Drawing 3429



Drawing 7093



2 WAY VALVES

2/2

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

BRASS

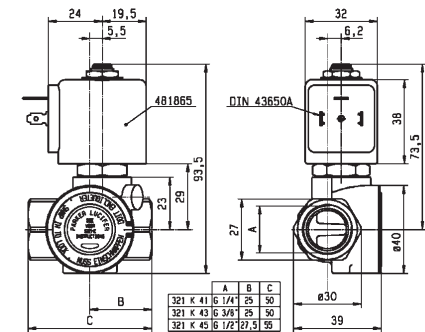
PIPE MOUNTING

NORMALLY CLOSED

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

Notes:

- 1.Valve with manual override
- 2.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing



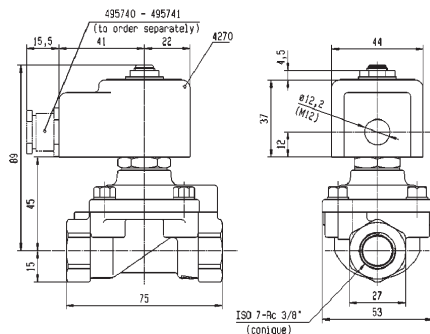
Drawing 7094



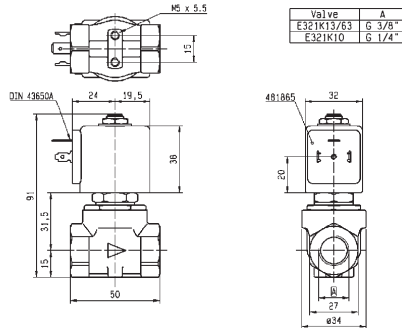
2 WAY VALVES



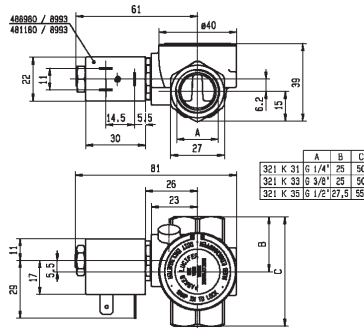
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	11	36	4	-10
To	3/8"	12	50	40	120



Drawing 3521



Drawing 3429



Drawing 7093



2 WAY VALVES

2/2

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

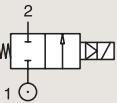


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/2"	11	36	3	-10
To	1/2"	15	60	40	120

BRASS

PIPE MOUNTING

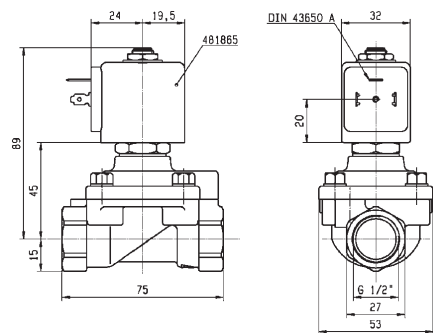
NORMALLY CLOSED



Port size (BSP)	Orifice Ø (mm)	Flow factors			Operating Pressure Differential (Max(MOPD))			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	9	10	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	9	10	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	12	12	-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	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	2995	481865	9	10	2.0	3522
	15	60	3.6	3150	1.5	40	40	-10	50	PUR	321H35	4270	481000	8	8	2.1	3522
	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15	2995	481865	9	10	2.0	3522
	15	60	3.6	3150	0.3	40	30	-10	100	NBR	E321H15	4270	481000	8	8	2.0	3522
	15	60	3.6	3150	0.3	40	40	-10	100	NBR	E321H15	4270	486265	14	14	2.0	3522

Notes:

1. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing

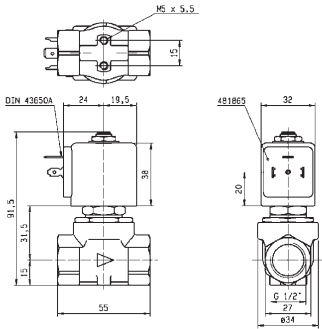


Drawing 3522

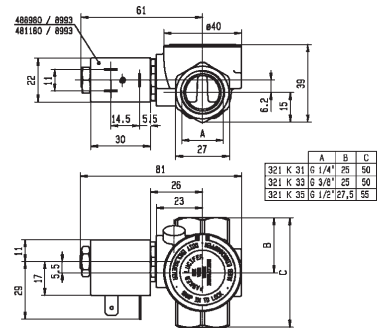


44

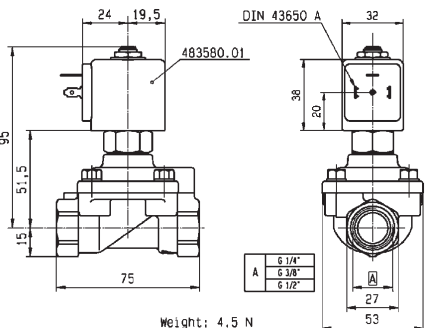
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



Drawing 3427



Drawing 7093



Drawing 3978



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

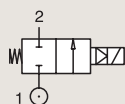
2/2

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

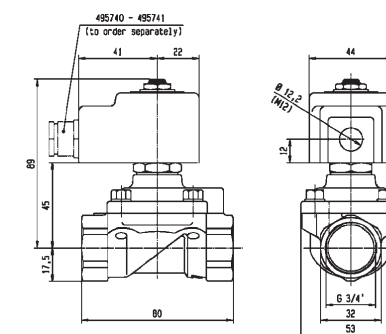
BRASS

PIPE MOUNTING

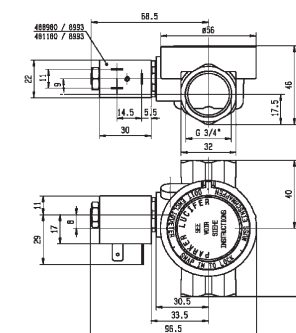
NORMALLY CLOSED



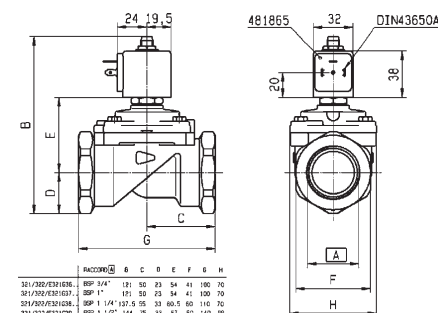
Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
3/4"	15	60	3.6	3550	1.5	40	40	-10	50	PUR	321H36	2995	481865	9	10	2.0	3696
	15	60	3.6	3550	1.5	40	40	-10	50	PUR	321H36	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	489980	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	489980	2	2.5	1.1	7097
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	2995	481865	9	10	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	9	10	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
	20	135	8.1	9500	0.3	16	16	-10	120	FKM	E321G3606	4270	486265	14	14	2.0/14.1	3442



Drawing 3696



Drawing 7097



Drawing 3442

2 WAY VALVES

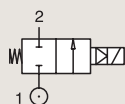
2/2

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

BRASS

PIPE MOUNTING

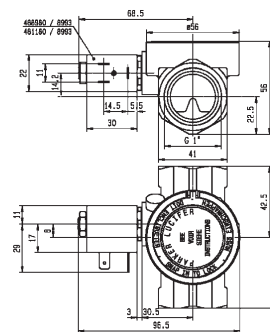
NORMALLY CLOSED



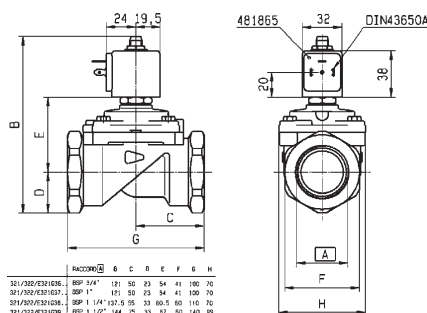
Port size (BSP)	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.					
															AC W	DC W		
1"	18	110	6.6	10150	0.3	10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



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



Drawing 7098



Drawing 3442

2 WAY VALVES

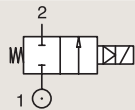
2/2

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

BRASS

PIPE MOUNTING

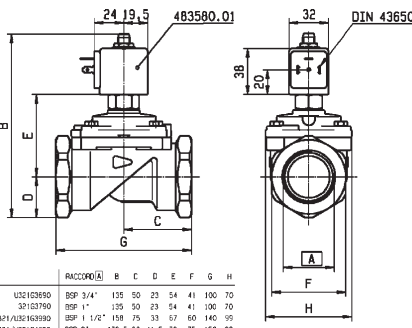
NORMALLY CLOSED



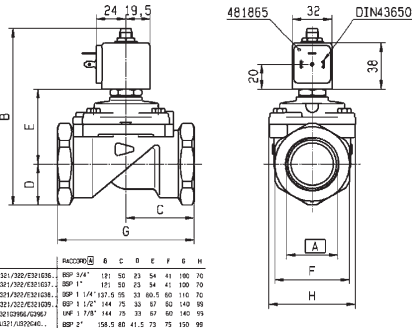
Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
1 1/2"	40	425	25.5	31500	0.5	-	10	-10	55	NBR	321G3990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



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



Drawing 8113



Drawing 3442



2 WAY VALVES

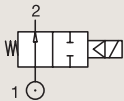
2/2

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

BRASS

PIPE MOUNTING

NORMALLY OPEN



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

Notes:

1. Valve only compatible with air and neutral gases
2. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing



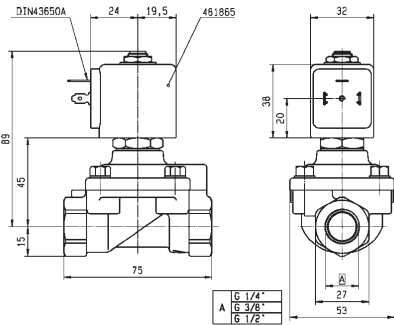
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

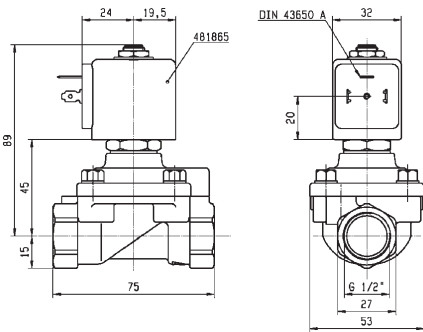
2 WAY VALVES



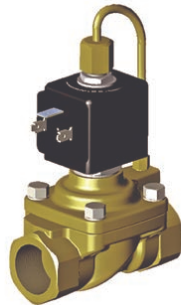
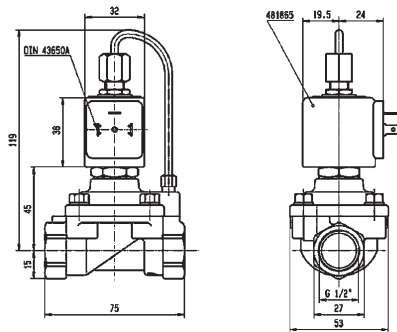
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	36	15	-10
To	1/2"	15	60	40	140



Drawing 3523



Drawing 3522



Drawing 7569



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2/2

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

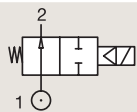


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/4"	15	53.3	12	-10
To	2"	40	540	40	120

BRASS

PIPE MOUNTING

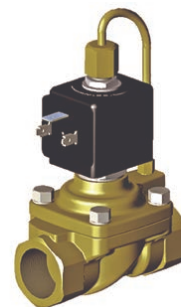
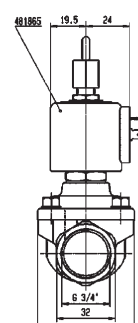
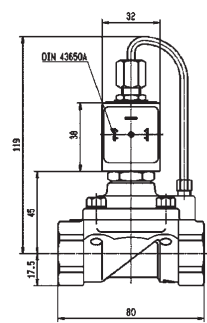
NORMALLY OPEN



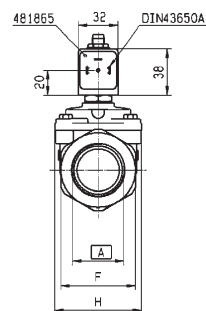
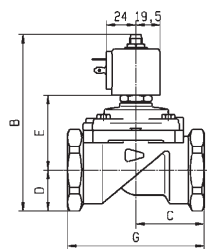
Port size (BSP)	Orifice Ø (mm)	Flow factors			Operating Pressure Differential Max(MOPD)		Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn m³/h	Min bar	Max bar	Min °C	Max °C					AC W	DC W		
3/4"	15	53.3	3.2	3550	1.5	40	-10	50	PUR	322H36	2995	481865	9	10	2.0	7570
	15	53.3	3.2	3550	1.5	40	-10	50	PUR	322H36	4270	481000	8	8	2.1	7570
	20	135	8.1	9500	0.3	16	-10	100	NBR	322G36	2995	481865	9	10	2.0	3442
	20	135	8.1	9500	0.3	16	-10	100	NBR	322G36	4270	481000	8	8	2.1	3442
	20	135	8.1	9500	0.3	16	-10	100	FKM	322G3606	2995	481865	9	10	2.0	3442
	20	135	8.1	9500	0.3	16	-10	120	FKM	322G3606	4270	481000	8	8	2.1	3442
1"	25	180	10.8	14000	0.3	16	-10	100	NBR	322G37	2995	481865	9	10	2.0	3442
	25	180	10.8	14000	0.3	16	-10	100	NBR	322G37	4270	481000	8	8	2.1	3442
	25	180	10.8	14000	0.3	16	-10	100	FKM	322G3706	2995	481865	9	10	2.0	3442
	25	180	10.8	14000	0.3	16	-10	120	FKM	322G3706	4270	481000	8	8	2.1	3442
1 1/4"	28	270	16.2	18000	0.3	16	-10	100	NBR	322G38	2995	481865	9	10	2.0	3442
	28	270	16.2	18000	0.3	16	-10	100	NBR	322G38	4270	481000	8	8	2.1	3442
	28	270	16.2	18000	0.3	16	-10	100	FKM	322G3806	2995	481865	9	10	2.0	3442
	28	270	16.2	18000	0.3	16	-10	120	FKM	322G3806	4270	481000	8	8	2.1	3442
1 1/2"	40	420	25.2	31500	0.3	12	-10	100	NBR	322G39	2995	481865	9	10	2.0	3442
	40	420	25.2	31500	0.3	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442
	40	420	25.2	31500	0.3	12	-10	100	FKM	322G3906	2995	481865	9	10	2.0	3442
	40	420	25.2	31500	0.3	12	-10	100	FKM	322G3906	4270	481000	8	8	2.1	3442
2"	40	540	32.4	40000	0.3	12	-10	100	NBR	322G40	2995	481865	9	10	2.0	3442
	40	540	32.4	40000	0.3	12	-10	100	NBR	322G40	4270	481000	8	8	2.1	3442
	40	540	32.4	40000	0.3	12	-10	100	FKM	322G4006	2995	481865	9	10	2.0	3442
	40	540	32.4	40000	0.3	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



Drawing 7570



Drawing 3442



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2 WAY VALVES

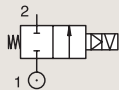
2/2

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

BRASS

PIPE MOUNTING

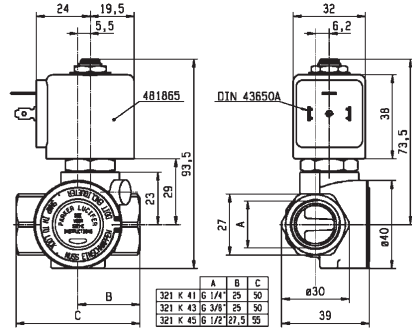
CONTROL BY ELECTRIC IMPULSE



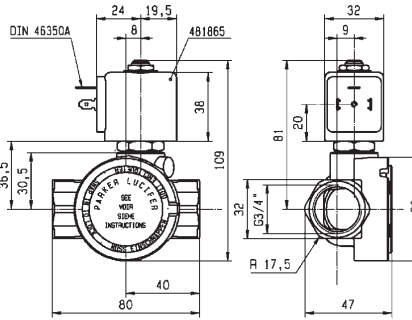
Port size	Orifice Ø	Flow factors			Operating Pressure Differential (Max(MOPD))			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qn	Qn	Min	AC bar	DC bar	Min	Max					AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	-	-10	100	FKM	325K4106	4269	484990	11	-	4.0	7094
	12	32	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



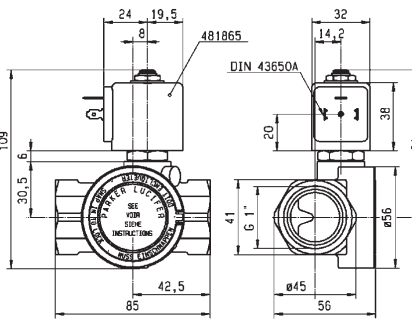
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	12	32	12	-10
To	1"	18	110	12	100



Drawing 7094



Drawing 7099



Drawing 7100



2 WAY VALVES

2/2

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

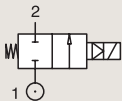


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	14	-	13	-10
To	SB	14	46	40	140

BRASS

SUB-BASE MOUNTING

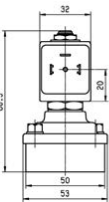
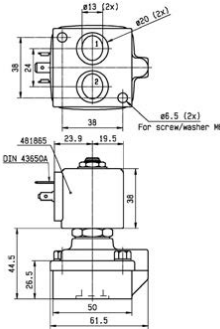
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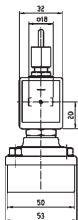
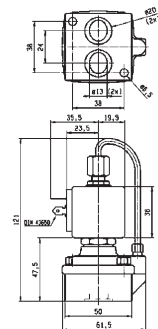
Port size	Orifice Ø	Flow factors			Operating Pressure Differential		Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn l/min	Min bar	Max (MOPD) bar	Min °C	Max °C					AC W	DC W		
SB	14	-	-	2100	1.5	40	-10	50	PUR	321F35	2995	481865	9	10	2.0	3520
	14	-	-	2100	1.5	40	-10	50	PUR	321F35	2995	492425	14	14	2.0	3520
	14	-	-	2100	0	13	-10	50	PUR	421F35	2995	481865	9	10	2.0	3520
	14	45	2.7	2100	0.3	40	-10	100	NBR	E321F32 ₂	2995	481865	9	10	2.0	3520
	14	45	2.7	2100	0.3	40	-10	100	NBR	E321F32 ₂	4270	481000	8	8	2.0	3520
	14	45	2.7	2100	0.3	40	-10	100	NBR	E321F32 ₂	4270	486265	14	14	2.0	3520
	14	45	2.7	-	0.3	40	-10	100	FKM	E321F3202 ₁₂₃	2995	481865	9	10	2.0	3520
	14	45	2.7	-	0.3	40	-10	120	FKM	E321F3202 ₁₂₃	4270	481000	8	8	2.0	3520
	14	45	2.7	-	0.3	40	-10	140	FKM	E321F3202 ₁₂₃	4270	486265	14	14	2.0	3520
	14	45	2.7	-	0.3	40	-10	140	FKM	E321F3202 ₁₂₃	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



Drawing 3520

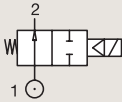


Drawing 7527

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.
		Kv l/min	Kv m³/h	Qn l/min	Min bar	Max (MOPD) bar	Min °C	Max °C					AC W	DC W		
SB	14	-	-	2100	1.5	40	-10	50	PUR	322F35	2995	481865	9	10	2.0	7527
	14	46	2.76	-	0.3	40	-10	75	NBR	322F72 ₁₂	2995	481865	9	10	2.0	3520
	14	46	2.76	-	0.3	40	-10	75	NBR	322F72 ₁₂	4270	481000	8	8	2.1	3520
	14	45	2.7	-	0.3	40	0	100	FKM	322F7206 ₁₂₃	2995	481865	9	10	2.0/14.1	3520
	14	45	2.7	-	0.3	40	0	120	FKM	322F7206 ₁₂₃	4270	481000	8	8	2.1/14.1	3520
	14	45	2.7	-	0.3	40	0	120	FKM	322F7206 ₁₂₃	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



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	62	
			1/4"	1 to 4.5	7	15	120	62 to 68	
		Normally Open	1/4"	1.5 to 3	4.5	16	120	70	
		Universal	1/8"	1.5 to 2.5	3.5	10	140	72	
			1/4"	0.8 to 3	4.5	30	140	72 and 74	
			1/4"	1.5	1.5	16	100	74	
		Brass/Sub-base Mounting	Normally Closed	SB	1 to 2.5	3.5	15	140	76 and 78
			Normally Open	SB	1.5 to 2.5	2.2	15	120	78
	Universal		SB	1.5 to 2.5	2.5	10	120	80	
	Anodized Aluminium/ Banjo	Normally Closed	1/8"	1.2	-	10	50	82	
			1/4"	1.2	-	10	50	82	
	Pilot Operated	316L Stainless ST/Sub-base Mounting	Normally Closed	SB	1.5	1.5	15	100	84
POM/Sub-base Mounting			Normally Closed	SB	2	2	10	50	86
Anodized Aluminium/ Pipe Mounting		Normally Closed	1/4"	6.5 to 8	20	15	75	88	
			1/2"	14	-	15	75	90	
		Normally Open	1/4"	8	20	40	75	90	
			1/2"	14	-	15	75	92	
Anodized Aluminium/ Sub-base Mounting/ Banjo		Normally Closed	SB	15	-	10	75	92	

3 WAY VALVES

3/2

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

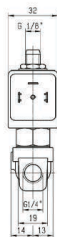
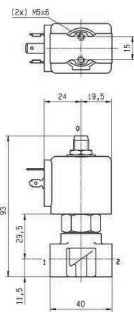
BRASS

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	Max							AC W	DC W		
BSP	mm		Kv l/min		Kv m³/h		bar	bar	°C	°C									
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
	1.2	1.5	0.7	0.9	0.04	0.05	0	10	10	-10	75	FKM	131M1550	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	9	10	2.0	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	9	10	2.0	3510
	2	2.5	2.5	3.5	0.15	0.21	0	10	10	-10	120	FKM	131K1650	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	2995	481865	9	10	2.0	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
1/8"-1/4"	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	2995	481865	9	10	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	2995	481865	9	10	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	2995	481865	9	10	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	FKM	E131K13	2995	481865	9	10	2.0	3510
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	1	0.6	0.6	0.03	0.03	0	-	10	-10	55	FKM	131K0490	2995	483580.01	*	0.3 to 3	7.0/8.0	7058
1/4"	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



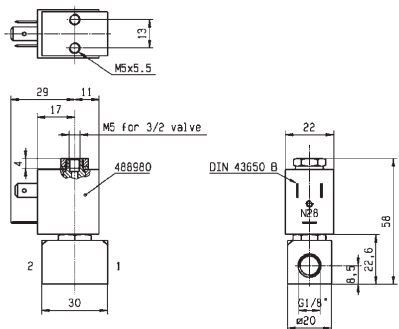
62

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

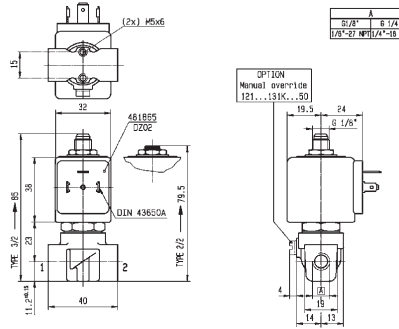
3 WAY VALVES



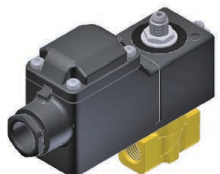
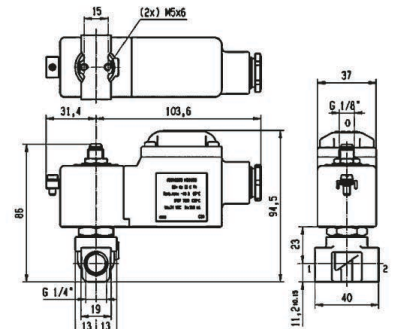
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1	0.6	2	-10
To	1/4"	2.5	3.5	15	120



Drawing 3382



Drawing 3510



Drawing 8023



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

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				IS	Power		Coil Group	Dwg. No.
	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									
1/4"	0.8	0.8	0.3	0.3	0.021	0.021	0	75	-	-30	130	Ruby	131K65	2995	481000		8	-	2.0	3510
	0.8	0.8	0.3	0.3	0.021	0.021	0	-	75	-30	140	Ruby	131K65	2995	486265		-	14	2.0	3510
	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	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	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
	1.5	1.5	1.5	1.5	0.09	0.09	0	16	16	-10	100	FKM	E131K04	2995	481865		9	10	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	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	2995	481865		9	10	2.0	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		9	10	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	4270	481000		8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T2301	2995	481865		9	10	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	10	-10	75	FKM	131T2301	4270	486265		14	14	2.0	3223

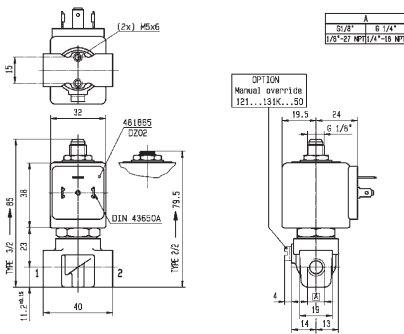
Notes:
1. With manual override



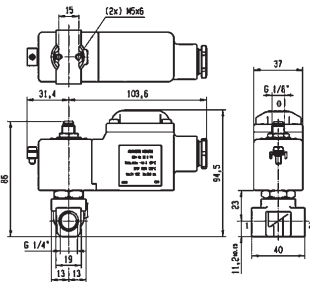
3 WAY VALVES



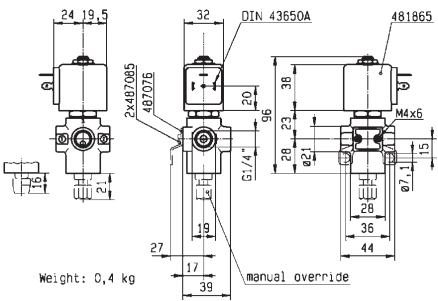
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	0.8	0.3	7	-30
To	1/4"	2	2.5	30	140



Drawing 3510



Drawing 8023



Drawing 3223



3 WAY VALVES

3/2

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

3 WAY VALVES

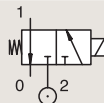


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	2	2.5	2	-40
To	1/4"	2.5	3.5	10	120

BRASS

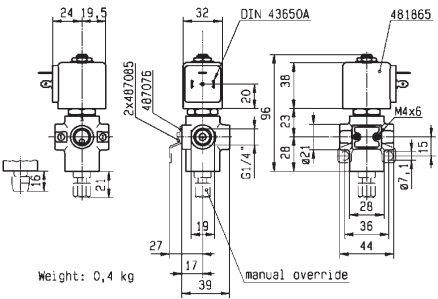
PIPE MOUNTING

NORMALLY CLOSED

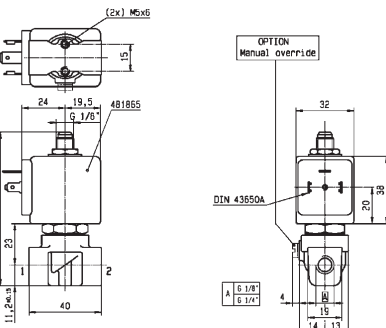


Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.	
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W		DC W				
BSP	mm		Kv		l/min		KV		m³/h		bar	AC bar	DC bar	°C	°C						
1/4"	2	2.5	2.5	3.5	0.15	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	9	10	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	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	2995	481865	9	10	2.0	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		
	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	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	2995	481865	9	10	2.0	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	9	10	2.0	3223		
	2.5	3.5	3.5	5.5	0.21	0.33	0	7	7	-10	75	FKM	131T2901	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	2995	481865	9	10	2.0	3223		

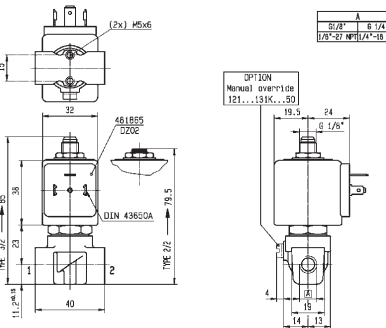
Notes:
1. With manual override



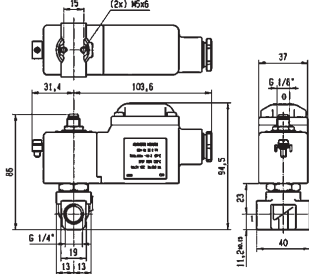
Drawing 3223



Drawing 8119



Drawing 3510



Drawing 8023



3 WAY VALVES

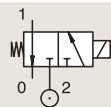
3/2

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

BRASS

PIPE MOUNTING

NORMALLY CLOSED



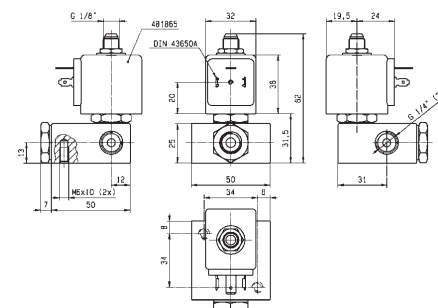
Port size	Orifice Ø		Flow factors		Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS		Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max	Max					AC W	DC W				
BSP	mm		Kv l/min		KV m³/h		bar	bar	°C	°C									
1/4"	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	100	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	9	10	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	9	10	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-10	120	FKM	E131K0350	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	2995	481865	9	10	2.0	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	9	10	2.0	3510
	2.5	2.5	3.5	3.5	0.21	0.21	0	7	7	-30	130	Ruby	E131K6350	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	2995	481865	9	10	2.0	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
1/2"	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	9	10	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

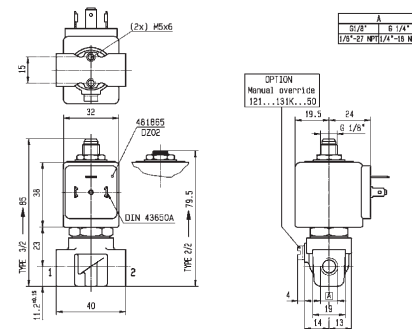


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	2.5	2.7	2	-40
To	1/4"	4.5	7	10	130

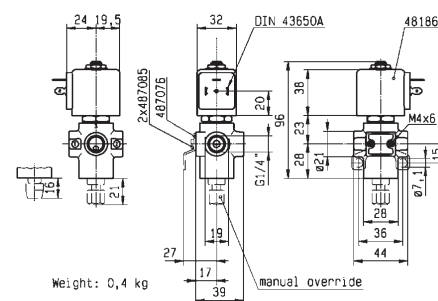
3 WAY VALVES



Drawing 3525



Drawing 3510



Drawing 3223



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

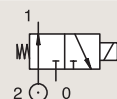
3/2

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

BRASS

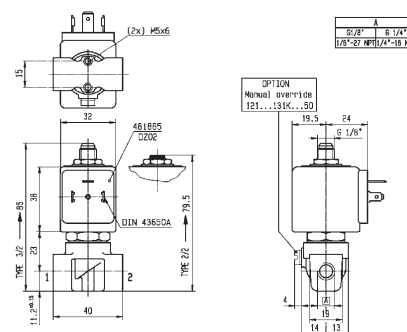
PIPE MOUNTING

NORMALLY OPEN

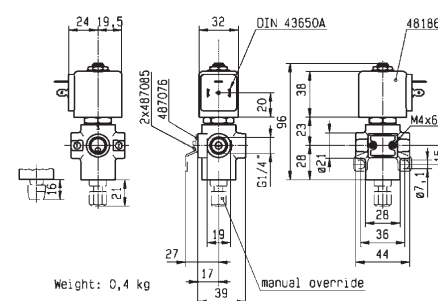


Port size	Orifice Ø		Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.	
	1	(2)	1	(2)	(2)	Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W				
BSP	mm		Kv l/min		KV m³/h	bar	AC bar	DC bar	°C	°C									
1/4"	1.5	1.5	1.4	1.4	0.08	0.08	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	9	10	2.0	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	9	10	2.0	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	9	10	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	4270	481000	8	8	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	10	5	-10	75	FKM	132T2301	2995	481865	9	10	2.0	3223
	2	3	2.5	4.5	0.15	0.27	0	-	10	-10	75	FKM	132T2301	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	9	10	2.0	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



Drawing 3510



Drawing 3223

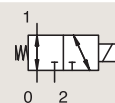
3 WAY VALVES

3/2

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

BRASS

PIPE MOUNTING



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	(2)	Min	Max (MOPD)	DC bar	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											
1/8"	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133K14	2995	481885	9	10	2.0	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	
	2	2	2.5	2.5	0.15	0.15	0	7	7	-10	100	FKM	E133K16	2995	481885	9	10	2.0	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	481885	9	10	2.0	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	
1/4"	0.8	0.8	0.3	0.3	0.02	0.02	0	30	30	-10	100	FKM	E133K05	2995	481885	9	10	2.0	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	486285	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	481885	9	10	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	486285	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	481885	9	10	2.0	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	481885	9	10	2.0	3223	
	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	481885	9	10	2.0	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	481885	9	10	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	486285	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	481885	9	10	2.0	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	481885	9	10	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	486285	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	481885	9	10	2.0	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	481885	9	10	2.0	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

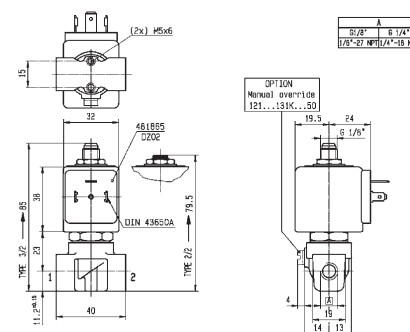


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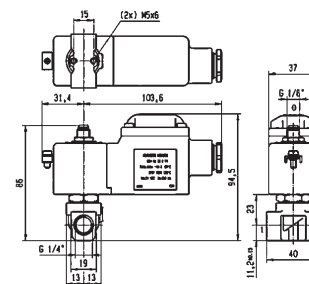
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



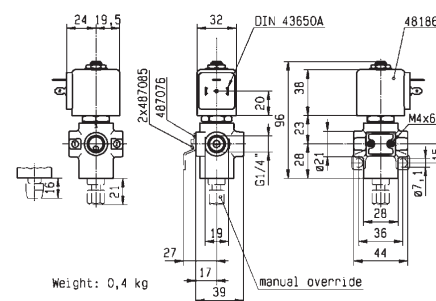
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	0.8	0.3	2	-20
To	1/4"	3	4.5	30	120



Drawing 3510



Drawing 8023



Drawing 3223



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

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.	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
BSP	mm		Kv		l/min		bar						FKM							
1/4"	3	3	4.5	4.5	0.27	0.27	0	2	2	2	-10	75	FKM	133T2101	2995	481865	9	10	2.0	3223
	3	3	4.5	4.5	0.27	0.27	0	2	2	2	-10	75	FKM	133T2101	4270	481000	8	8	2.1	3223

Notes:
1.With manual override

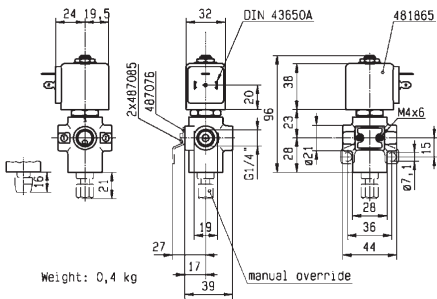
BRASS
PIPE MOUNTING
CONTROL BY ELECTRIC IMPULSE

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)	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
BSP	mm		Kv		l/min		bar						FKM							
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

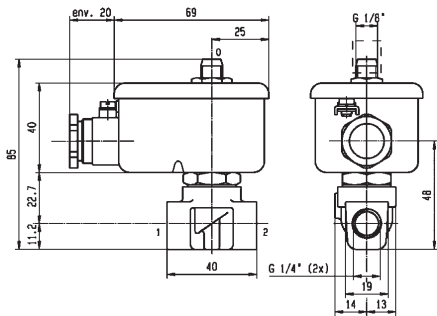


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	1.5	1.5	2	-10
To	1/4"	3	4.5	16	100

3 WAY VALVES



Drawing 3223



Drawing 8104



3 WAY VALVES

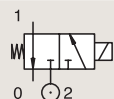
3/2

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

BRASS

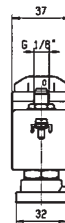
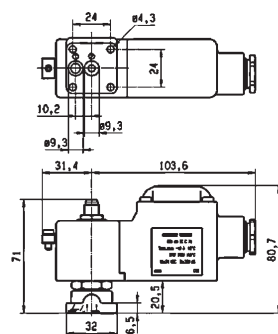
SUB-BASE MOUNTING

NORMALLY CLOSED

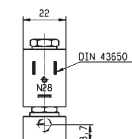
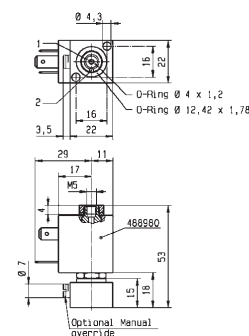


Port size	Orifice Ø		Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg No.		
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	AC bar	DC bar		Min °C	Max °C	Valve Ref.		Housing Ref.	Coil Ref.			AC W	DC W
	mm		Kv l/min		Kv m³/h																
SB	1.2	1.5	0.7	0.9	0.04	0.05	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	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	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		-	1.0	20	3505	
	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	

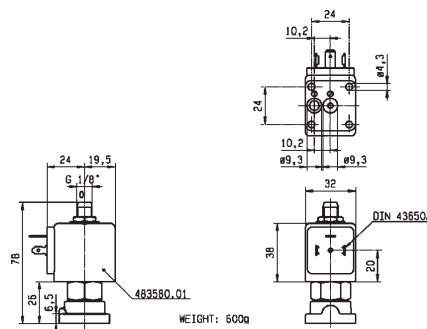
Notes:
1. With manual override



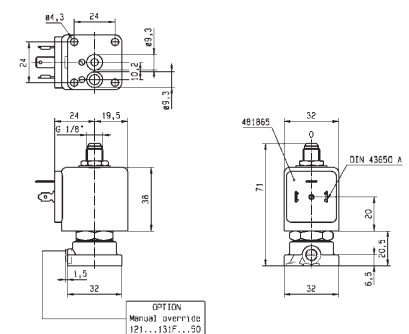
Drawing 8022



Drawing 3383



Drawing 7057



Drawing 3509

3 WAY VALVES

3/2

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

3 WAY VALVES

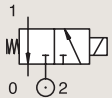


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	1.5	1.4	7	-10
To	SB	2.5	3.5	15	120

BRASS

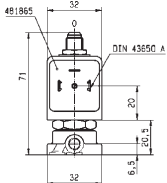
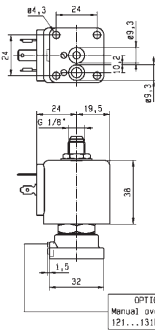
SUB-BASE MOUNTING

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.
	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max					AC W	DC W		
SB	1.5	1.5	1.5	1.5	0.09	0.09	0	15	15	-10 100	FKM	E131F44	2995	481885	9 10	2.0	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	481885	9 10	2.0	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	481885	9 10	2.0	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	481885	9 10	2.0	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	481885	9 10	2.0	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	481885	9 10	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	486285	14 14	2.0	3509

Notes:
1. With manual override

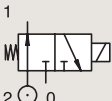


Drawing 3509

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.
	1	(2)	1	(2)	Min	Max (MOPD)		Min	Max					AC W	DC W		
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	481885	9 10	2.0	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	481885	9 10	2.0	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	481885	9 10	2.0	3509
	2.5	2.5	2.2	2.2	0.13	0.13	0	7	7	-10 75	FKM	132F43	4270	486285	14 14	2.0	3509



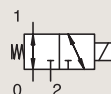
3 WAY VALVES

3/2

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

BRASS

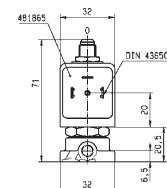
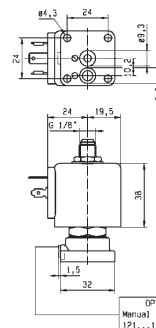
SUB-BASE MOUNTING



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W			
	mm	Kv l/min	Kv m³/h	bar	AC bar	DC bar	°C	°C											
SB	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	E133F4450	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	2995	481865	9	10	2.0	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	9	10	2.0	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	9	10	2.0	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	9	10	2.0	3509

Notes:

1. With manual override



Drawing 3509



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

3 WAY VALVES

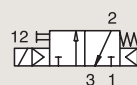
3/2

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				Power		Coil Group	Dwg No.
BSP	1 mm	Qn/min	Min bar	Max AC bar	MOPD DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/8"	1.2	50	0	10	10	-10	50	NBR	131B14 ₁₂	-	496131	3	3	1.2	8227
	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	131R14	-	496637	3	3	1.2	8227

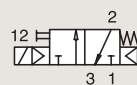
Notes:

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

ANODIZED ALUMINIUM

BANJO

NORMALLY CLOSED



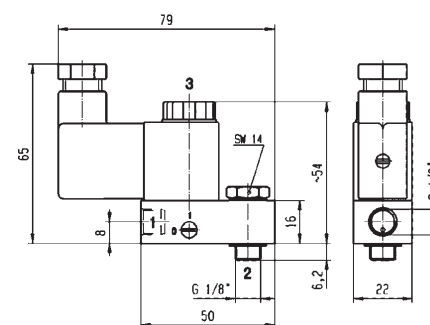
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg No.
BSP	1 mm	On/min	Min bar	Max AC bar	(MOPD) DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1/4"	1.2	50	0	10	10	-10	50	NBR	131B04 ₁₂	-	496131	3	3	1.2	8226
	1.2	50	0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

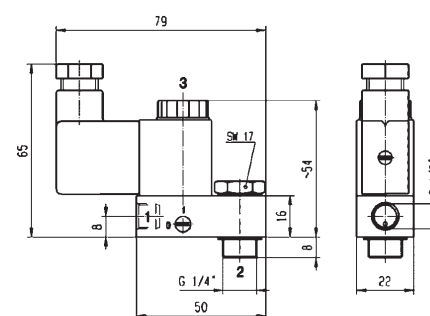
- Notes:
1. Valve only compatible with air and neutral gases
 2. With manual override



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



Drawing 8227



Drawing 8226



82

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



83

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

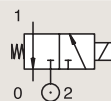
3 WAY VALVES

3/2

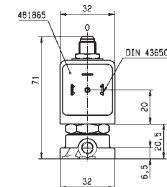
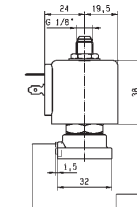
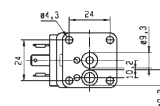
VALVES FOR DRY OR LUBRICATED AIR, NEUTRAL
GASES AND LIQUIDS
DIRECT OPERATED

316L STAINLESS ST.
SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W			
BSP	mm		Kv		U/min		AC bar	Max (MOPD) bar	°C	°C									
SB	1.5	1.5	1.5	2.2	0.09	0.13	0	15	15	-10	100	FKM	131F5406	2995	481865	9	10	2.0	3509



Drawing 3509

3 WAY VALVES

3/2

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

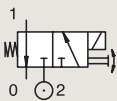


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	2	2	10	-10
To	SB	2	2	10	50

POM

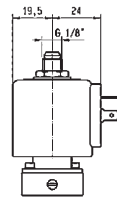
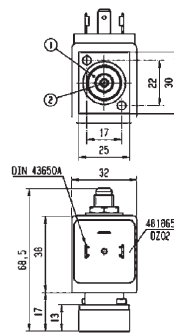
SUB-BASE MOUNTING

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)	Min	Max (MOPD)	AC	DC	Min	Max					AC W	DC W		
SB	2	2	2	2	0.12	0.12	0	10	10	10	-10	50	FKM	E131F26 ₁₂	2995	481865	9	10	2.0/3.0	3601
	2	2	2	2	0.12	0.12	0	10	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



Drawing 3601

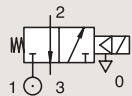
3 WAY VALVES

3/2

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

ANODIZED ALUMINIUM
PIPE MOUNTING

NORMALLY CLOSED



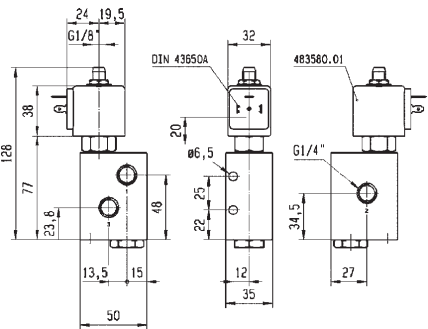
Port size	Orifice Ø		Flow factors				Operating Pressure Differential				Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max	Min	Max	AC	DC		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm		Kv l/min		Q l/min		bar	AC bar	DC bar	°C	°C										
1/4"	6.5	6.5	10	-	645	-	1	-	10	-10	55	NBR	331B7490 ₁	2995	48358001	*	-	0.5-3	7.0/8.0	8270	
	6.5	6.5	10	-	645	-	1	-	10	-10	75	NBR	331B7490 ₁	-	495910	*	-	0.3-1.2	7.0/8.0	8270	
	6.5	6.5	10	-	750	-	1	10	10	-10	75	NBR	E331B74 ₁₃	2995	481865	9	10	2.0	3240		
	6.5	6.5	10	-	750	-	1	10	10	-10	75	NBR	E331B74 ₁₃	4270	485100	8	8	2.1	3240		
	8	8	20	20	1100	1100	1	15	15	-10	75	NBR	E331B01 ₂	4270	481000	8	8	2.1	3234		
	8	8	20	20	1100	1100	1	15	15	-10	75	NBR	E331B01 ₂	2995	481865	9	10	2.0	3234		
	8	8	20	20	1100	1100	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

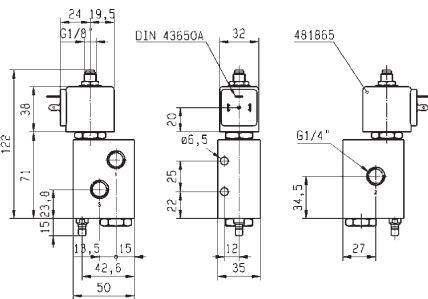


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	6.5	10	10	-10
To	1/4"	8	20	15	75

3 WAY VALVES

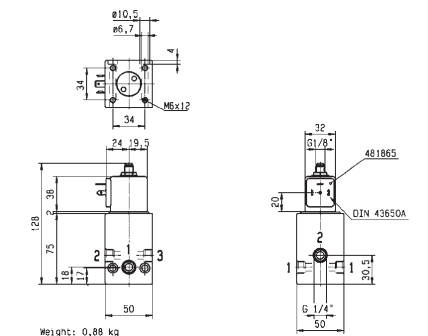


Drawing 8270



Weight: 0,51 kg

Drawing 3240



Weight: 0,88 kg

Drawing 3234



3 WAY VALVES

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

ANODIZED ALUMINIUM
PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal		IS	Power		Coil Group	Dwg. No.	
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max	AC W				DC W				
BSP	mm		Kv		Q		bar	AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.				
1/2"	14	14	-	-	2500	2500	1	15	-	-10	75	NBR	E331B21 ₁	2995	481865	-	-	2.0	3238
	14	14	-	-	2500	2500	1	15	15	-10	65	NBR	E331B21 ₁	-	483371	8	8	2.1	3238

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

ANODIZED ALUMINIUM
PIPE MOUNTING

NORMALLY OPEN

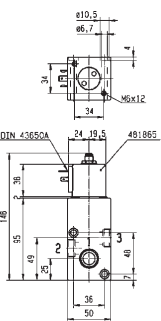
Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max (MOPD)	Min	Max	AC W					DC W			
BSP	mm		Kv /min		Q /min		bar	AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.				
1/4"	8	8	10	10	750	750	1	40	40	-10	75	NBR	332B02 ₁₂	2995	481865	9	10	2.0	8114
	8	8	10	10	750	750	1	40	40	-10	75	NBR	332B02 ₁₂	4270	481000	8	8	2.1	8114
	8	8	20	20	1100	1100	1	15	15	-10	75	NBR	E332B01 ₂	2995	481865	9	10	2.0	3234
	8	8	20	20	1100	1100	1	15	15	-10	75	NBR	E332B01 ₂	4270	481000	8	8	2.1	3234
	8	8	20	20	1100	1100	1	15	15	-10	65	NBR	E332B01 ₂	-	483371	8	8	2.1	3234

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

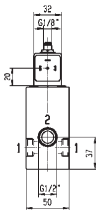


3 WAY VALVES

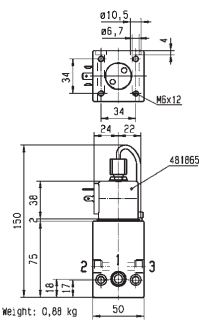
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	10	15	-10
To	1/2"	14	20	40	75



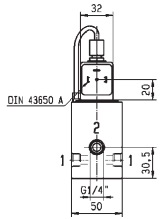
Weight: 0,96 kg



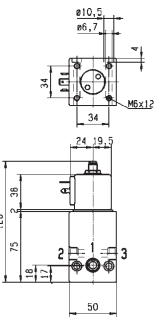
Drawing 3238



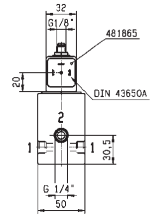
Weight: 0,88 kg



Drawing 8114



Weight: 0,88 kg



Drawing 3234



3 WAY VALVES

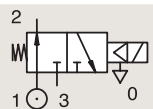
3/2

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

ANODIZED ALUMINIUM

PIPE MOUNTING

NORMALLY OPEN



Port size	Orifice Ø		Flow factors			Operating Pressure Differential		Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.		
	1	(2)	1	(2)	(2)	Min	Max (MOPD)	AC bar	DC bar		Min	Max	Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W
BSP	mm		Kv /min		Q /min	bar	bar	°C	°C										
1/2"	14	14	37.5	-	2500	2500	1	15	15	-10	75	NBR	E332B21,	2995	481865	9	10	2.0	3238
	14	14	37.5	-	2500	2500	1	15	15	-10	75	NBR	E332B21,	4270	481000	8	8	2.1	3238

Notes:

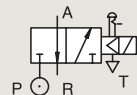
Notes:

1. Valve only compatible with air and neutral gases

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	Qn	Min	Max (MOPD)	DC	Min	Max					AC W	DC W		
	mm	l/min	bar	AC bar	DC bar	°C	°C								
SB	15	5000	0.5	10	10	-10	75	NBR	E331L21 ¹²	2995	481865	9	10	2.0/3.0	3130
	15	5000	0.5	10	10	-10	65	NBR	E331L21 ¹³	-	483371	8	8	2.1/3.0	3130

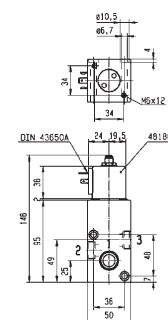
Notes:

1. Valve only compatible with air and neutral gases

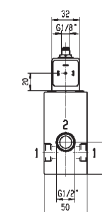
2. With manual override



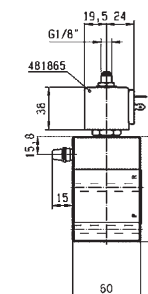
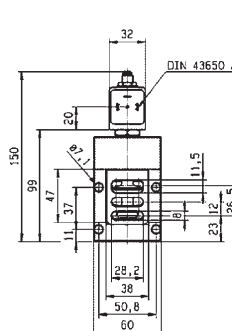
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/2"	14	2500	15	-10
To	S8	15	5000	10	75



Weight: 0.98 kg



Drawing 3238



Drawing 3130

2 WAY VALVES

2 WAY VALVES

NOTES



VALVES FOR WATER AND NEUTRAL LIQUIDS



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	96
			1/4"	1.5 to 5	11	20	120	96
			3/8"	4 to 6	12	10	120	98
			1/2"	8.5 to 11	36	4	120	98
		Normally Open	1/4"	2.5	3	12	120	98
		Control by Electric Impulse	1/4"	5	11	5	100	100
Pilot Operated	Brass/Sub-base Mounting	Normally Closed	5 mm	1.5 to 3	4.5	20	120	102
	Brass/Pipe Mounting	Normally Closed	1/4"	11 to 12	32	12	120	108
			3/8"	11 to 13	50	20	140	104 and 108
			1/2"	11 to 13	50	20	140	104 and 110
			3/4"	18 to 20	140	20	140	104 and 112
			1"	18 to 25	180	20	140	104 and 114
			1 1/4"	28 to 35	420	16	140	106 and 112
			1 1/2"	40	500	16	140	106 and 114
			2"	40 to 50	620	16	140	106 and 114
		Normally Open	1/4"	12	32	12	120	118
			3/8"	12 to 13	50	20	140	116 and 118
			1/2"	12 to 15	60	20	140	116 and 118
			3/4"	18 to 20	140	20	140	116 and 118
			1"	18 to 25	180	20	140	114 and 120
			1 1/4"	35	420	10	140	116
			1 1/2"	40	500	10	140	116 and 120
			2"	50	620	10	140	116
			2 1/2"	65	1100	10	90	116
			3"	75	1334	10	90	116
	Brass/Sub-base Mounting	Normally Closed	14 mm	14	45	40	100	120

2 WAY VALVES

2/2

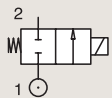
VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

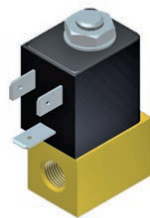
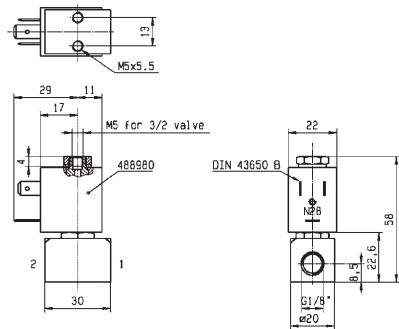
PIPE MOUNTING

NORMALLY CLOSED

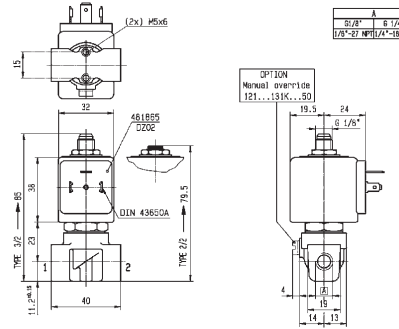
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C								
1/8"	1.5	0.9	0.05	70	0	20	12	-10	75	FKM	121M14	8993	481180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



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



Drawing 3382



Drawing 3510

2 WAY VALVES

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

DIRECT OPERATED

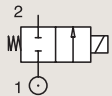


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	2.5	3	0.3	-10
To	1/2"	11	36	12	120

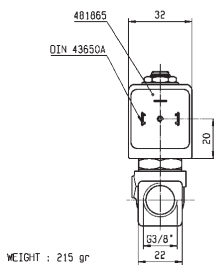
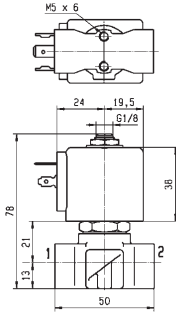
BRASS

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.
		Kv	Qn	Qn	Min	Max	DC	Min	Max					AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	9	10	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	9	10	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	9	10	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
	8.5	25	1.5	1600	0	1.1	0.5	-10	100	FKM	E121K46	2995	481865	9	10	2.0	3427
1/2"	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	9	10	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

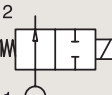


Drawing 3551

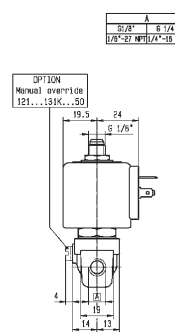
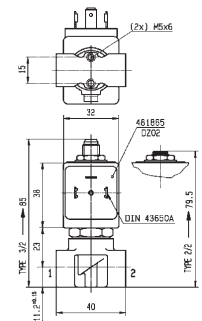
BRASS

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.
		Kv	Qn	Qn	Min	Max	DC	Min	Max					AC W	DC W		
1/4"	2.5	3	0.18	180	0	12	12	-10	100	FKM	122K8306	2995	481865	9	10	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



Drawing 3510



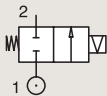
2 WAY VALVES

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS
DIRECT OPERATED

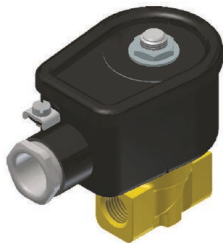
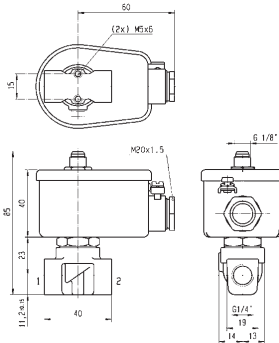


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	5	11	1.5	-10
To	1/4"	5	11	5	100

BRASS
PIPE MOUNTING
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °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



Drawing 8296



2 WAY VALVES

2/2

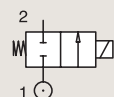
VALVES FOR WATER AND NEUTRAL LIQUIDS

DIRECT OPERATED

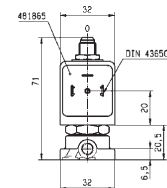
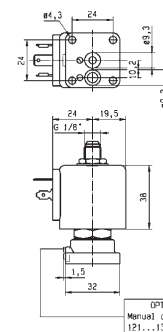
BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Min	Max(MOPD)		Min	Max	Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W					
		mm	Kv l/min	KV m³/h	Qn l/min	bar							AC bar	DC bar	°C		
SB	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	E121F4406	2995	481885	9	10	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	486285	14	14	2.0	3509
	3	4.5	0.27	320	0	10	7	-10	100	FKM	E121F4302	2995	481885	9	10	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	486285	14	14	2.0/3.0	3509



Drawing 3509



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

2 WAY VALVES

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

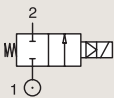


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	13	50	10	-10
To	1"	25	160	20	140

BRASS

PIPE MOUNTING

NORMALLY CLOSED



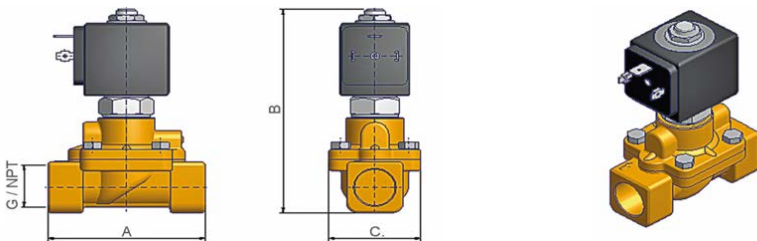
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	bar	bar	°C	°C								
3/8"	13	50	3	-	0.1	10	10	-10	140	EPDM	443778W ₁	7321BIH00	481865	9	10	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443776W	7321BIN00	481865	9	10	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443777W ₂	7321BIN01	481865	9	10	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444492W	7321BIN00	481865	9	10	2.0	028
1/2"	13	50	3	-	0.1	10	10	-10	140	EPDM	443781W ₁	7321BAH00	481865	9	10	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443779W	7321BAN00	481865	9	10	2.0	028
	13	50	3	-	0.1	20	20	-10	90	NBR	443780W ₂	7321BAN01	481865	9	10	2.0	028
	13	50	3	-	0.1	20	20	-10	140	FKM	444494W	7321BAV00	481865	9	10	2.0	028
3/4"	20	140	8.4	-	0.1	10	10	-10	140	EPDM	443785W ₁	7321BCH00	481865	9	10	2.0	057
	20	140	8.4	-	0.1	20	20	-10	90	NBR	443782W	7321BCN00	481865	9	10	2.0	057
	20	140	8.4	-	0.1	10	10	-10	90	NBR	443783W ₂	7321BCN01	481865	9	10	2.0	057
	20	140	8.4	-	0.1	20	20	-10	140	FKM	444497W	7321BCV00	481865	9	10	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	140	EPDM	443789W ₁	7321BDH00	481865	9	10	2.0	057
	25	160	9.6	-	0.1	20	20	-10	90	NBR	443786W	7321BDN00	481865	9	10	2.0	057
	25	160	9.6	-	0.1	10	10	-10	90	NBR	443787W ₂	7321BDN01	481865	9	10	2.0	057
	25	160	9.6	-	0.1	20	20	-10	140	FKM	443804W	7321BDV00	481865	9	10	2.0	057

Notes:

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

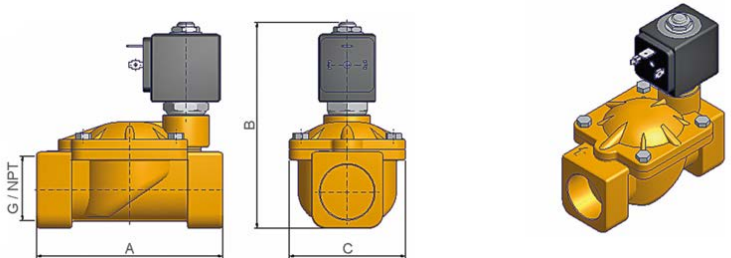
2. With manual override

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



Function	Connections		A		B		C	
	BSP	NPT	mm	inch	mm	inch	mm	inch
Normally Closed	3/8"		69	2.71	99.5	3.91	40	1.57
	1/2"		72	2.83	101.5	3.99	40	1.57
Normally Open	3/8"		69	2.71	110	4.33	40	1.57
	1/2"		72	2.83	112	4.41	40	1.57

Drawing 028



Function	Connections		A		B		C	
	BSP	NPT	mm	inch	mm	inch	mm	inch
Normally Closed	3/4"		100	3.83	107	4.21	65	2.55
	1"		104	4.09	112.5	4.42	65	2.55
Normally Open	3/4"		100	3.83	117.5	4.62	65	2.55
	1"		104	4.09	123	4.84	65	2.55

Drawing 057



2 WAY VALVES

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

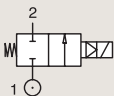


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1 1/4"	35	420	5	-10
To	2"	50	620	10	140

BRASS

PIPE MOUNTING

NORMALLY CLOSED



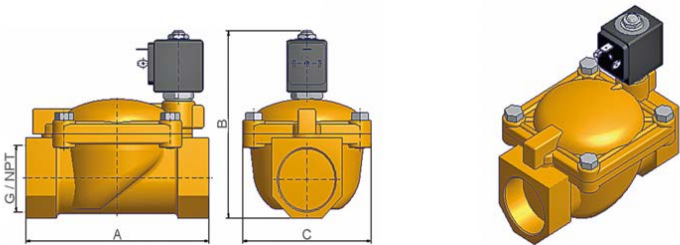
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Order Number	Valve Type	Coil Type	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
1 1/4"	35	420	25.2	-	0.1	10	10	-10	140	EPDM	443793W ₁	7321BEH00	481865	9	10	2.0	058
	35	420	25.2	-	0.1	10	10	-10	90	NBR	443790W	7321BEN00	481865	9	10	2.0	058
	35	420	25.2	-	0.1	5	5	-10	90	NBR	443791W ₂	7321BEN01	481865	9	10	2.0	058
1 1/2"	40	500	30	-	0.1	10	10	-10	140	EPDM	443797W ₁	7321BFH00	481865	9	10	2.0	058
	40	500	30	-	0.1	10	10	-10	90	NBR	443794W	7321BFN00	481865	9	10	2.0	058
	40	500	30	-	0.1	5	5	-10	90	NBR	443795W ₂	7321BFN01	481865	9	10	2.0	058
2"	50	620	37.2	-	0.1	10	10	-10	140	EPDM	443801W ₁	7321BGH00	481865	9	10	2.0	058
	50	620	37.2	-	0.1	10	10	-10	90	NBR	443798W	7321BGN00	481865	9	10	2.0	058
	50	620	37.2	-	0.1	5	5	-10	90	NBR	443799W ₂	7321BGN01	481865	9	10	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.



Function	Connections		A		B		C	
	BSP	NPT	mm	inch	mm	inch	mm	inch
Normally Closed	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
Normal Open	1 1/4"		145	5.70	144.5	5.68	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 WAY VALVES

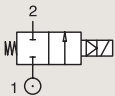
2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

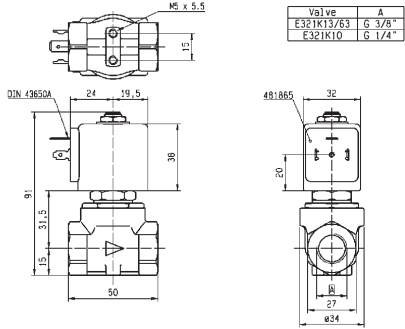
PIPE MOUNTING

NORMALLY CLOSED

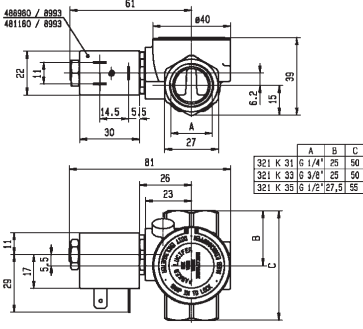
Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	AC	DC	Min	Max					AC W	DC W		
1/4"	11	28	1.68	1800	0.2	10	3	-10	100	NBR	E321K10	2995	481865	9	10	2.0	3429
	11	28	1.68	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	FKM	321K4106	2995	481865	9	10	2.0/3.0	7094
	12	32	1.92	2150	0.3	12	12	-10	120	FKM	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	488265	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	9	10	2.0/3.0	7094
	12	45	2.7	3050	0.3	12	12	-10	120	FKM	321K4306	4270	481000	8	8	2.1/3.0	7094



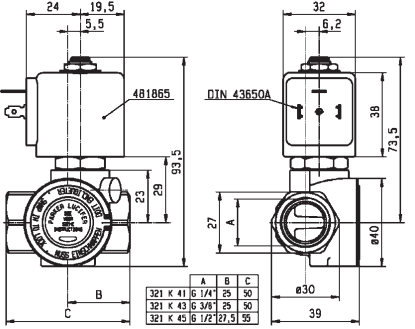
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	11	28	3	-10
To	3/8"	12	45	12	120



Drawing 3429



Drawing 7093



Drawing 7094



2 WAY VALVES

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS
PIPE MOUNTING

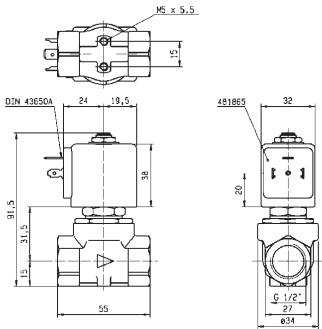
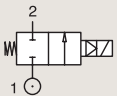
NORMALLY CLOSED

Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	AC	DC	Min	Max					AC	DC		
		l/min	m³/h	m³/h	bar	bar	bar	°C	°C					W	W		
1/2"	11	36	2.16	2500	0.2	10	3	-10	100	NBR	E321K15	2995	481865	9	10	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	9	10	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	9	10	2.0/3.0	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	9	10	2.0/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4556 ₁	4270	481000	8	8	2.1/3.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	321K4556 ₁	4270	481000	8	8	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

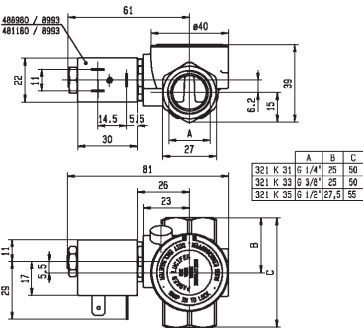
Notes:
1. With manual override



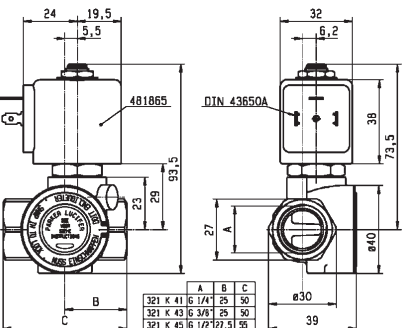
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/2"	11	36	3	-10
To	1/2"	12	50	12	120



Drawing 3427



Drawing 7093



Drawing 7094



2 WAY VALVES

2/2

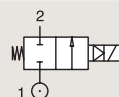
VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



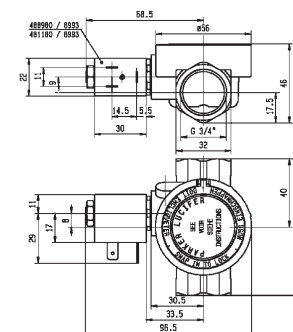
Port size (BSP)	Office Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
					bar	AC bar	DC bar	°C	°C								
3/4"	18	100	6	9400	0.3	10	10	-10	100	NBR	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	9	10	2.0/3.0	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	2995	481865	9	10	2.0/3.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	321K4656	4270	481000	8	8	2.1/3.0	7099
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	2995	481865	9	10	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	E321G36	4270	481000	8	8	2.0	3442

Notes:

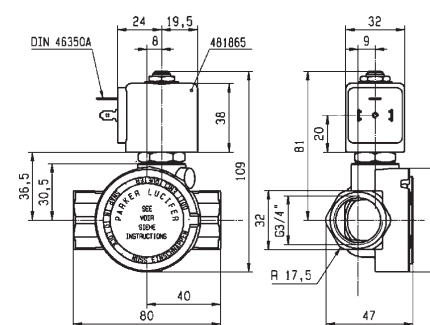
1. With manual override



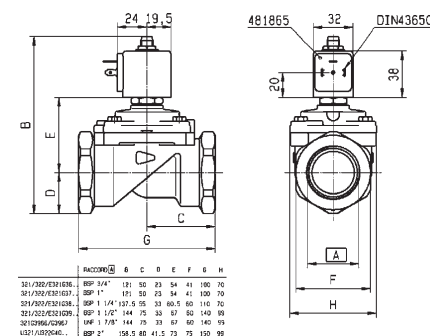
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/4"	18	100	7	-10
To	3/4"	20	135	16	120



Drawing 7097



Drawing 7099



Drawing 3442

2 WAY VALVES

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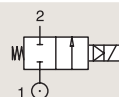
VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

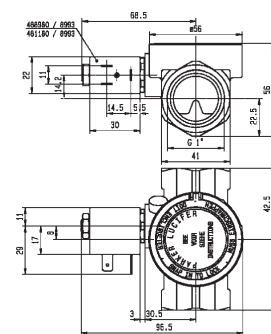


Port size (BSP)	Orifice Ø mm	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max(MOPD) AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
1"	18	110	6.6	10150	0.3	10	10	-10	100	NBR	321K317	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	9	10	2.0/3.0	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	2995	481865	9	10	2.0/3.0	7100
	18	110	6.6	10150	0.3	12	12	-10	120	FKM	321K4756	4270	481000	8	8	2.1/3.0	7100
	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	2995	481865	9	10	2.0	3442
1 1/4"	25	180	10.8	14000	0.3	16	16	-10	100	NBR	E321G37	4270	481000	8	8	2.0	3442
	28	270	16.2	18000	0.3	16	16	-10	100	NBR	E321G38	2995	481865	9	10	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	2995	481865	9	10	2.0	3442
	40	420	25.2	31500	0.3	16	8.5	-10	100	NBR	E321G39	4270	481000	8	8	2.0	3442
2"	40	420	25.2	31500	0.3	16	16	-10	100	NBR	E321G39	4270	486265	14	14	2.0	3442
	40	540	32.4	40000	0.3	16	7	-10	100	NBR	E321G40	2995	481865	9	10	2.0	3442
	40	540	32.4	40000	0.3	16	8.5	-10	100	NBR	E321G40	4270	481000	8	8	2.0	3442
	40	540	32.4	40000	0.3	16	16	-10	100	NBR	E321G40	4270	486265	14	14	2.0	3442

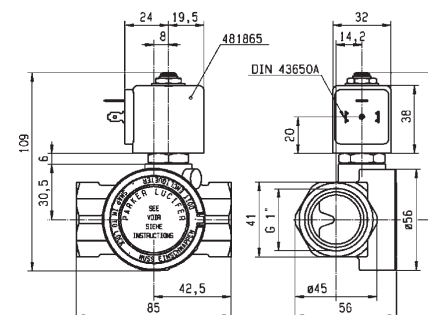
Notes:
1. With manual override



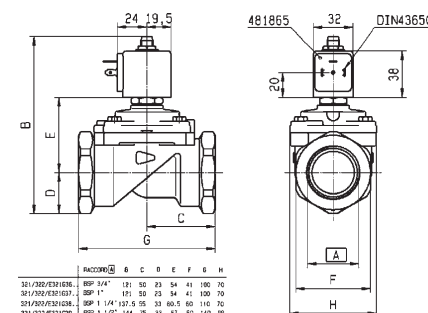
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1"	18	110	7	-10
To	2"	40	540	16	120



Drawing 7098



Drawing 7100



Drawing 3442



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2/2

VALVES FOR WATER AND NEUTRAL LIQUIDS

PILOT OPERATED

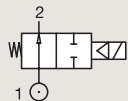


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	13	50	10	-10
To	3"	75	1334	20	140

BRASS

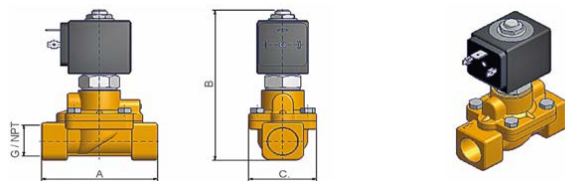
PIPE MOUNTING

NORMALLY OPEN



Port size	Orifice Ø	Flow factors	Operating Pressure Differential Max(MOPD)	Fluid Temp.	Seat Seal	Valve Order Number	Valve Type	Coil Type	Power	Coil Group	Dwg. No.
BSP	mm	Kv l/min	Qn m³/h	Min bar	Max bar	Min °C	Max °C		AC W	DC W	
3/8"	13	50	3	-0.1	10	-10	140	EPDM	444600W	7322BIH00	481865
	13	50	3	-0.1	20	-10	90	NBR	443805W	7322BIN00	481865
	13	50	3	-0.1	20	-10	140	FKM	444499W	7322BIV00	481865
1/2"	13	50	3	-0.1	10	-10	140	EPDM	444601W	7322BAH00	481865
	13	50	3	-0.1	20	-10	90	NBR	443806W	7322BAN00	481865
	13	50	3	-0.1	20	-10	140	FKM	444500W	7322BAV00	481865
3/4"	20	140	8.4	-0.1	10	-10	140	EPDM	444602W	7322BCH00	481865
	20	140	8.4	-0.1	20	-10	90	NBR	443807W	7322BCN00	481865
	20	140	8.4	-0.1	20	-10	140	FKM	444501W	7322BCV00	481865
1"	25	160	9.6	-0.1	10	-10	140	EPDM	444603W	7322BDH00	481865
	25	160	9.6	-0.1	20	-10	90	NBR	443808W	7322BDN00	481865
	25	160	9.6	-0.1	20	-10	140	FKM	444502W	7322BDV00	481865
1 1/4"	35	420	25.2	-0.1	10	-10	140	EPDM	444576W	7322BEH00	481865
	35	420	25.2	-0.1	10	-10	90	NBR	443809W	7322BEN00	481865
	40	500	30	-0.1	10	-10	140	EPDM	444604W	7322BFH00	481865
1 1/2"	40	500	30	-0.1	10	-10	90	NBR	443810W	7322BFN00	481865
	50	620	37.2	-0.1	10	-10	140	EPDM	444605W	7322BGH00	481865
	50	620	37.2	-0.1	10	-10	90	NBR	443811W	7322BGN00	481865
2"	65	1100	66	-0.2	10	-10	90	NBR	444513W	7322BLN06	481865
	75	1334	80	-0.2	10	-10	90	NBR	444503W	7322BMN06	481865

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



Function	Connections	A	B	C
	BSP	mm	mm	mm
Normally Closed	3/8"	69	99.5	40
	1/2"	72	101.5	40
Normally Open	3/8"	69	110	40
	1/2"	72	112	40

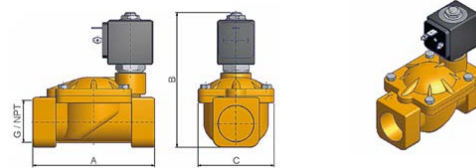
Drawing 060



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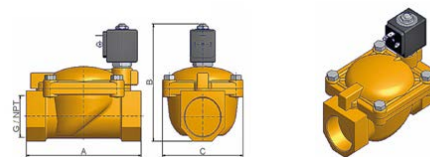
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General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES



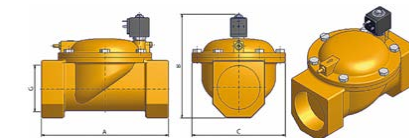
Function	Connections	A	B	C
	BSP	mm	mm	mm
Normally Closed	3/4"	100	107	65
	1"	104	112.5	65
Normally Open	3/4"	100	117.5	65
	1"	104	123	65

Drawing 061



Function	Connections	A	B	C
	BSP	mm	mm	mm
Normally Closed	1 1/4"	145	134	102
	1 1/2"	145	134	102
	2"	173	148	118
Normal Open	1 1/4"	145	144.5	102
	1 1/2"	145	134	102
	2"	173	148	118

Drawing 062



Function	Connections	A	B	C
	BSP	mm	mm	mm
Normally Closed	2 1/2"	245	195	184
	3"	250	195	184
Normally Open	2 1/2"	245	205	184
	3"	245	205	184

Drawing 063



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

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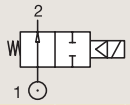
VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

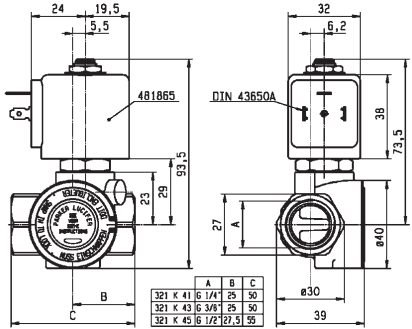
PIPE MOUNTING

NORMALLY OPEN

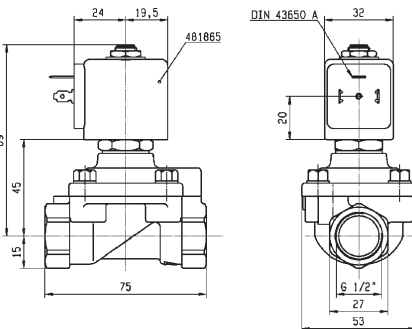
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qn	Qn	Min	AC	DC	Min	Max					AC W	DC W		
1/4"	12	32	1.92	2150	0.3	12	12	-10	100	FKM	322K4106	2995	481865	9	10	2.0	7094
	12	32	1.92	2150	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	9	10	2.0	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	9	10	2.0	7094
	12	50	3	3400	0.3	12	12	-10	120	FKM	322K4506	4270	481000	8	8	2.1	7094
3/4"	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	2995	481865	9	10	2.0	3522
	15	60	3.6	3890	0.3	15	15	-10	100	NBR	322G75	4270	481000	8	8	2.1	3522
1"	18	100	6	9400	0.3	12	12	-10	100	FKM	322K4806	2995	481865	9	10	2.0	7099
	18	100	6	9400	0.3	12	12	-10	120	FKM	322K4806	4270	481000	8	8	2.1	7099
1 1/4"	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	2995	481865	9	10	2.0	3442
	20	135	8.1	9500	0.3	16	16	-10	100	NBR	322G36	4270	481000	8	8	2.1	3442



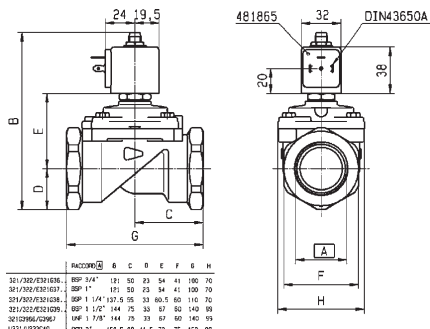
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	12	32	12	-10
To	3/4"	20	135	16	120



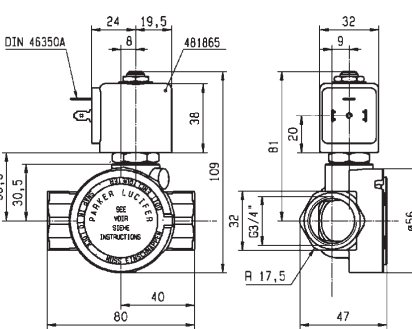
Drawing 7094



Drawing 3522



Drawing 3442



Drawing 7099



2 WAY VALVES

2/2 VALVES FOR WATER AND NEUTRAL LIQUIDS
PILOT OPERATED

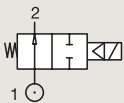


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	14 mm	14	45	12	-10
To	1 1/2"	40	420	40	120

BRASS

PIPE MOUNTING

NORMALLY OPEN

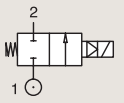


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	Max	DC	Min	Max					AC W	DC W		
1"	18	110	6.6	10150	0.3	12	12	-10	100	FKM	322K4706	2995	481865	9	10	2.0	7100
	18	110	6.6	10150	0.3	12	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	9	10	2.0	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	9	10	2.0	3442
	40	420	25.2	31500	0.3	12	12	-10	100	NBR	322G39	4270	481000	8	8	2.1	3442

BRASS

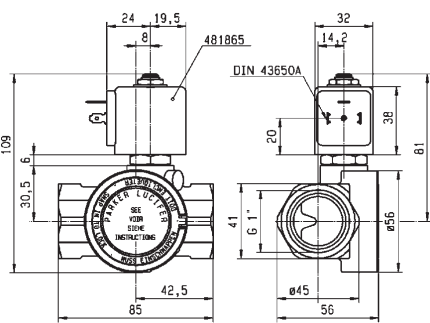
SUB-BASE MOUNTING

NORMALLY CLOSED

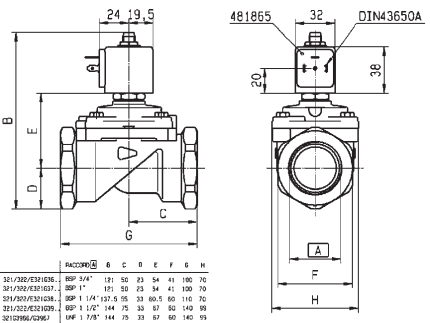


Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	Max	DC	Min	Max					AC W	DC W		
SB	14	45	2.7	2100	0.3	40	25	-10	100	NBR	E321F32	2995	481865	9	10	2.0	3520
	14	45	2.7	2100	0.3	40	30	-10	100	NBR	E321F32	4270	481000	8	8	2.0	3520
	14	45	2.7	2100	0.3	40	40	-10	100	NBR	E321F32	4270	486265	14	14	2.0	3520

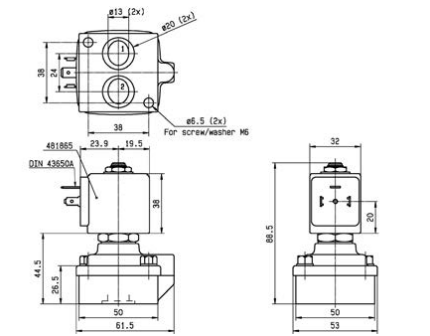
Notes:
1. Pilot seat disc in synthetic Ruby



Drawing 7100



Drawing 3442



Drawing 3520





2/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves	
Maglift Pilot Operated	Brass/Pipe Mounting	Normally Closed	1"	15 to 25	170	10	140	124	
	Brass/Pipe Mounting	Normally Closed	1/4"	12	32	12	120	128	
			3/8"	12	45	12	120	128	
			1/2"	12	50	12	120	128	
			3/4"	18 to 20	135	16	120	128	
			1"	18 to 25	180	16	120	126 and 130	
			1 1/4"	28 to 35	420	16	100	126 and 130	
			1 1/2"	40	500	16	100	126 and 130	
			2"	40 to 50	620	16	100	126 and 130	
			2 1/2"	65	1100	10	90	126	
			3"	75	1334	10	90	126	
			Normally Open	3/4"	20	135	16	100	132
				1"	25	180	16	100	132
		1 1/4"		28	270	16	100	132	
		1 1/2"		40	425	12	100	132	
		2"		40	540	12	100	132	

2 WAY VALVES

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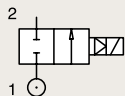
ANTI WATER HAMMER VALVES
MAGNALIFT



Commercial Equipment

BRASS
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1"	15	80	4.8	6000	0	-	10	-10	100	NBR	221G1731 ¹²	2995	481865	-	10	2.0	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	9	-	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	-25	100	NBR	221G2131 ¹²	2995	481865	-	10	2.0	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:

- 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.
- With 4 position selector for controlled closure rate



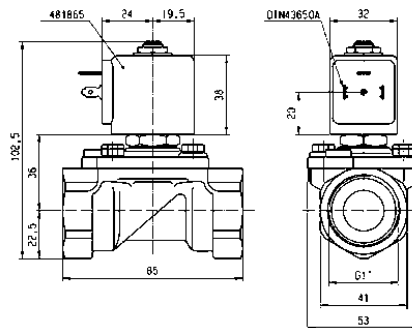
124

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

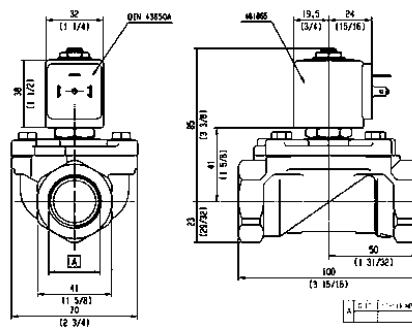
2 WAY VALVES



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



Drawing 3445



Drawing 3448



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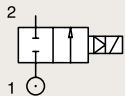
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

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.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	Max AC bar	Max DC bar	Min °C	Max °C					AC W	DC W		
3/4"	20	140	8.4	-	0.1	10	10	-10	90	NBR	443784W ¹²	7321BCN02	481865	9	10	2.0	057
1"	25	160	9.6	-	0.1	10	10	-10	90	NBR	443788W ¹²	7321BDN02	481865	9	10	2.0	057
1 1/4"	35	420	25.2	-	0.1	5	5	-10	90	NBR	443792W ¹²	7321BEN02	481865	9	10	2.0	058
1 1/2"	40	500	30	-	0.1	5	5	-10	90	NBR	443796W ¹²	7321BFN02	481865	9	10	2.0	058
2"	50	620	37.2	-	0.1	5	5	-10	90	NBR	443800W ¹²	7321BGN02	481865	9	10	2.0	058
2 1/2"	65	1100	66	-	0.2	10	10	-10	90	NBR	443802W ¹²	7321BLN02	481865	9	10	2.0	059
3"	75	1334	80	-	0.2	10	10	-10	90	NBR	443803W ¹²	7321BMN02	481865	9	10	2.0	059

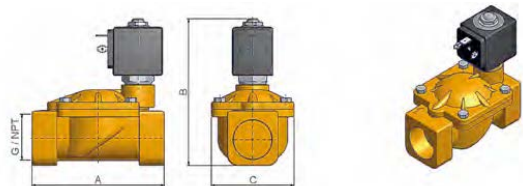
Notes:

1. With manual override
2. Valve with opening speed control regulation

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

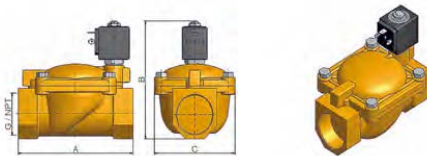


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/4"	20	140	5	-10
To	3"	75	1334	10	90



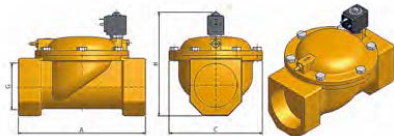
Function	Connections		A		B		C	
	BSP	NPT	mm	inch	mm	inch	mm	inch
Normally Closed	3/4"		100	3.83	107	4.21	65	2.55
	1"		104	4.09	112.5	4.42	65	2.55
Normally Open	3/4"		100	3.83	117.5	4.62	65	2.55
	1"		104	4.09	123	4.84	65	2.55

Drawing 057



Function	Connections		A		B		C	
	BSP	NPT	mm	inch	mm	inch	mm	inch
Normally Closed	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
Normal Open	1 1/4"		145	5.70	144.5	5.68	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



Function	Connections		A		B		C	
	BSP	NPT	mm	inch	mm	inch	mm	inch
Normally Closed	2 1/2"		245	9.64	195	7.67	184	7.24
	3"		250	9.84	195	7.67	184	7.24
Normally Open	2 1/2"		245	9.64	205	8.07	184	7.24
	3"		245	9.64	205	8.07	184	7.24

Drawing 059



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2 WAY VALVES

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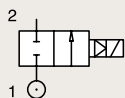
ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



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

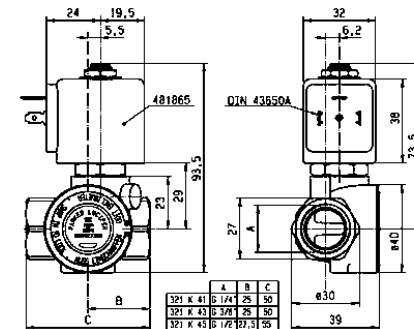
Notes:

1. With manual override

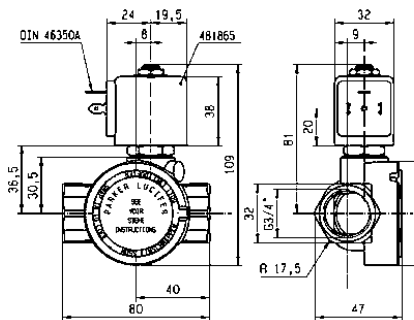
2. With manual override and 4 position selector for controlled closure rate



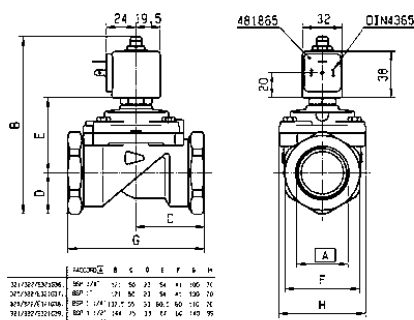
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	12	32	12	-10
To	3/4"	20	135	16	120



Drawing 7094



Drawing 7099



Drawing 3442



2 WAY VALVES

2/2

ANTI WATER HAMMER VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

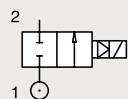
NORMALLY CLOSED

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

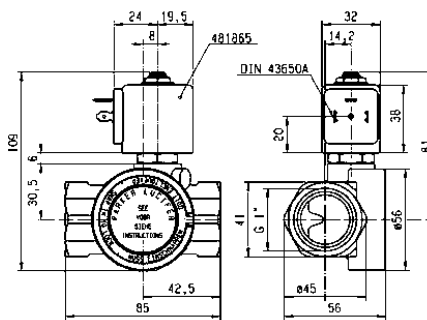
Notes:

1. With manual override

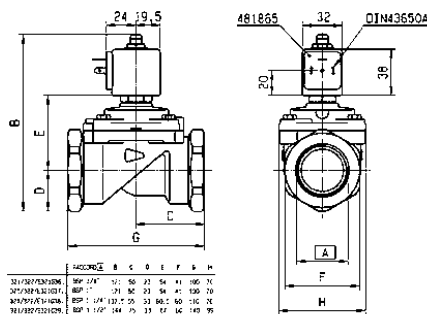
2. With manual override and 4 position selector for controlled closure rate



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



Drawing 7100



Drawing 3442



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2 WAY VALVES

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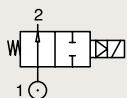
ANTI WATER HAMMER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



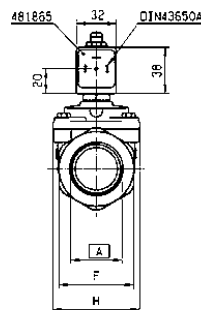
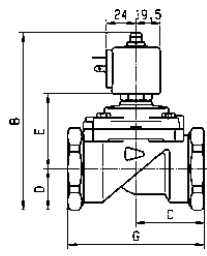
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv	Qv m³/h	Qn	Min	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm				bar			°C	°C								
3/4"	20	135	8.1	9300	0.3	16	16	-10	100	NBR	322G3610 ₁	2995	481865	9	10	2.0	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	9	10	2.0	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	9	10	2.0	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	9	10	2.0	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	9	10	2.0	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)
From	3/4"	20	135	12	-10
To	2"	40	540	16	100



Drawing 3442



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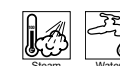
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

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 Valves
Direct Operated	Brass/Pipe Mounting	Normally Closed	1/4"	3 to 5	11	10	120	136
			3/8"	6	12	5	140	136
			1/2"	8.5 to 11	36	4	120	136
	303 Stainless St./Pipe Mounting	Normally Closed	1/4"	1.5 to 5	10	100	180	138
Maglift	Brass/Pipe Mounting	Normally Closed	3/8"	15	65	10	140	140
			1/2"	15	65	10	140	140
			3/4"	15	80	10	140	140
			1"	15	80	10	140	140
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/2"	11 to 16	36	10	140	142

2 WAY VALVES

2/2

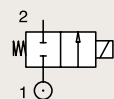
HOT WATER AND STEAM VALVES

DIRECT OPERATED

BRASS

PIPE MOUNTING

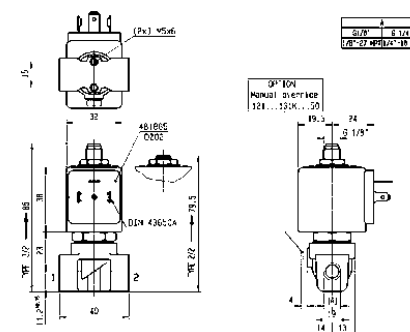
NORMALLY CLOSED



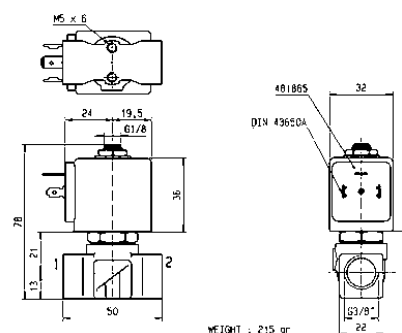
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv	KV m³/h	Qn l/min	Min	Max(MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
						AC bar	DC bar										
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C								
1/4"	3	4.5	0.27	-	0	10	7	0	100	EPDM	121K0323	2995	481885	9	10	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	486285	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	481885	9	10	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	486285	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	481885	9	10	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	486285	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	486285	14	14	2.0	3427
	8.5	25	1.5	-	0	2.5	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	486285	14	14	2.0	3427
	11	36	2.16	-	0	1.5	0.5	0	120	EPDM	E121K4503	2995	492425	14	14	2.0	3427



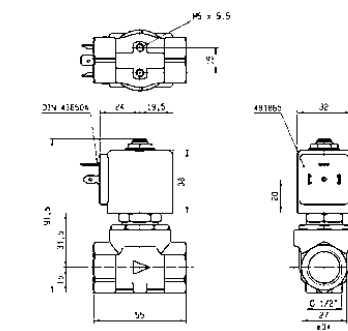
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	3	4.5	0.35	0
To	1/2"	11	36	10	140



Drawing 3510



Drawing 3551



Drawing 3427

2 WAY VALVES

2/2

HOT WATER AND STEAM VALVES
DIRECT OPERATED

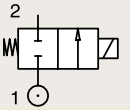


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	1.5	1.5	2	0
To	1/4"	5	10	100	180

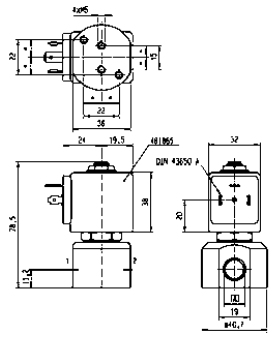
303 STAINLESS ST.

PIPE MOUNTING

NORMALLY CLOSED



Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		mm	Kv l/min	Qv m³/h	Min	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
1/4"	1.5	1.5	0.09	80	0	60	25	0	100	Ruby	121V5463	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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	9	10	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
1/4" NPT	3	4.5	0.27	315	0	20	7	0	100	Ruby	U121V5363	2995	481865	9	10	2.0	8116



A 6 1/8"
6 1/4"



Drawing 8116



2 WAY VALVES

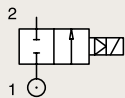
2/2

HOT WATER AND STEAM VALVES
MAGNALIFT

BRASS

PIPE MOUNTING

NORMALLY CLOSED



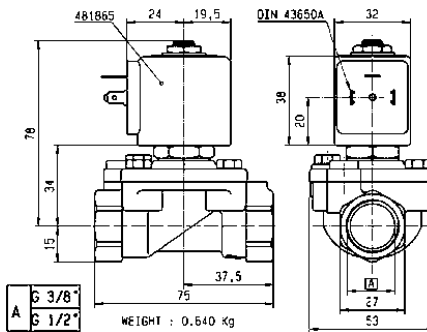
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	m³/h	Qn l/min	Min	Max	DC bar	Min	Max					AC W	DC W		
3/8"	15	65	3.9	-	0	10	-	0	100	EPDM	221G1303	2995	481865	9	-	2.0	3732
	15	65	3.9	-	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	2995	481865	9	10	2.0	3732
	15	65	3.9	4500	0	10	10	-10	65	NBR	221G1330	-	492070	9	8	2.1	3732
1/2"	15	65	3.9	-	0	10	-	0	100	EPDM	221G1503	2995	481865	9	-	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	9	-	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	9	-	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:

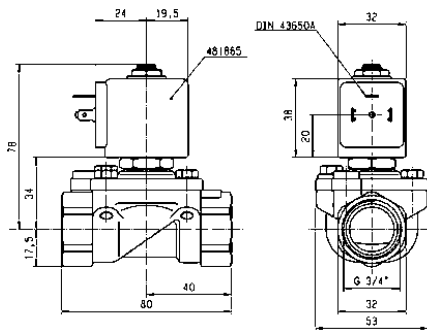
1. Valves with model number ending in 30 or 31 are mainly equipped with electrical parts for explosion proof applications or with standard DC coils.



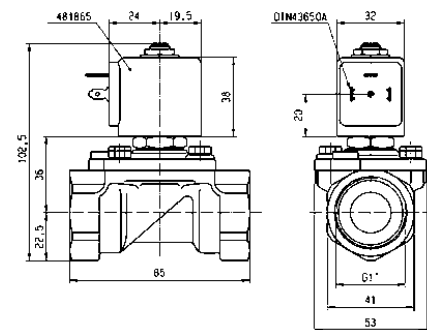
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	15	65	4	-10
To	1"	15	80	10	140



Drawing 3732



Drawing 3444



Drawing 3445



140

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



141

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

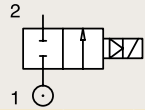
2 WAY VALVES

2/2 HOT WATER AND STEAM VALVES
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

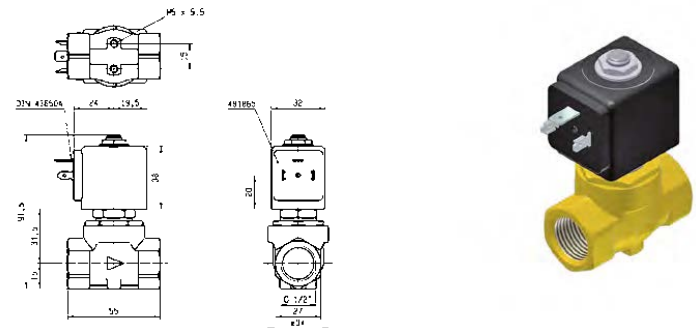


Port size (BSP)	Orifice Ø mm	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
1/2"	11	36	2.16	2500	0.2	10	3	0	100	EPDM	E321K1503	2995	481885	9	10	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	4270	486265	14	14	2.0	3427

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



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



Drawing 3427



2 WAY VALVES

NOTES

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. A vertical margin line is present on the left side, creating a narrow left margin. The paper appears to be part of a binder or notebook, as evidenced by the dark binding edge visible on the far left. The entire page is blank, with no handwriting or printed text other than the lines themselves.

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS



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	146	
			1/4"	1.2 to 3	4.5	100	130	146	
			3/8"	4 to 6	12	10	120	148	
		Normally Open	1/8"	2.5	3.5	30	140	148	
			1/4"	1.5 to 2.5	3.5	40	140	148	
			5 mm	1.5 to 3	4.5	100	130	150	
	Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/4"	8	36	40	140	152
				3/8"	11	50	40	140	152
1/2"				15	60	40	140	154	
Normally Open			1/4"	8	36	40	140	156	
			3/8"	11	50	40	140	156	
			1/2"	15	60	40	140	156	
Brass/Sub-base Mounting		Normally Closed	14 mm	14	45	40	140	158	
		Normally Open	14 mm	14	45	40	120	158	

2 WAY VALVES

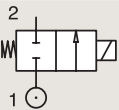
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

PIPE MOUNTING

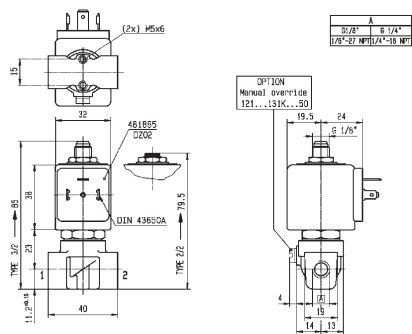
NORMALLY CLOSED



Port size (BSP)	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	AC	DC	Min	Max					AC W	DC W		
1/8"	1.5	1.5	0.09	80	0	60	25	-30	75	PCTFE	E121K14	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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	80	25	-30	100	Ruby	E121K67	2995	481865	9	10	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	9	10	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	9	10	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	9	10	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)
From	1/8"	1.2	0.85	7	-30
To	1/4"	3	4.5	100	130



Drawing 3510



2 WAY VALVES

2/2

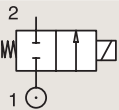
VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS
DIRECT OPERATED

BRASS

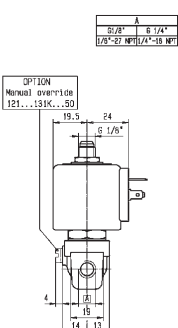
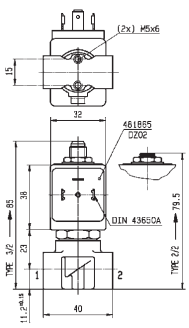
PIPE MOUNTING

NORMALLY CLOSED

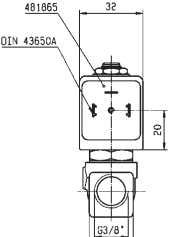
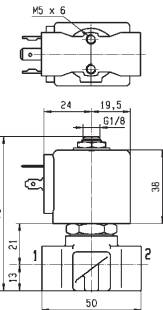
Port size (BSP)	Orifice Ø mm	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp. °C		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °C					AC W	DC W		
3/8"	4	7.5	0.45	480	0	10	4	-10	100	FKM	121K3206	2995	481865	9	10	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	9	10	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	9	10	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



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



Drawing 3510



WEIGHT : 215 gr

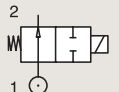
Drawing 3551

BRASS

PIPE MOUNTING

NORMALLY OPEN

Port size BSP	Orifice Ø mm	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp. °C		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn m³/h	Min bar	AC bar	DC bar	Min °C	Max °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
	1.5	1.5	0.09	80	0	30	30	-10	100	PCTFE	122K84	2995	481865	9	10	2.0	3510
1/4"	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	9	10	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



2 WAY VALVES

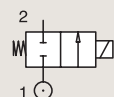
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS

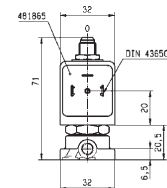
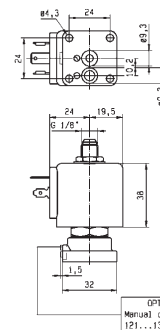
BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Min	Max(MOPD)	Min	Max	Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W							
	mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C	°C								
SB	1.5	1.5	0.09	80	0	60	25	-30	100	Ruby	121F67	2995	481885	9	10	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	481885	9	10	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	481885	9	10	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	9	10	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	9	10	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	9	10	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



Drawing 3509



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

2 WAY VALVES

2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	AC	DC	Min	Max					AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C								
1/4"	8	36	2.16	1600	0.3	40	25	-10	100	NBR	E321H11	2995	481865	9	10	2.0	3523
	8	36	2.16	1600	0.3	40	30	-10	100	NBR	E321H11	4270	481000	8	8	2.0	3523
	8	36	2.16	1600	0.3	40	40	-10	100	NBR	E321H11	4270	486265	14	14	2.0	3523
	8	36	2.16	-	0.3	40	25	-10	100	FKM	E321H21	2995	481865	9	10	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	E321H21	4270	481000	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	E321H21	4270	486265	14	14	2.0	3523
3/8"	11	50	3	2800	0.3	40	25	-10	100	NBR	E321H13	2995	481865	9	10	2.0	3521
	11	50	3	2800	0.3	40	30	-10	100	NBR	E321H13	4270	481000	8	8	2.0	3521
	11	50	3	2800	0.3	40	40	-10	100	NBR	E321H13	4270	486265	14	14	2.0	3521
	11	50	3	-	0.3	40	25	-10	100	FKM	E321H23	2995	481865	9	10	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	E321H23	4270	481000	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	E321H23	4270	486265	14	14	2.0	3521
	11	36	2.16	-	0.2	20	3	-10	100	Ruby	E321K63	2995	481865	9	-	2.0	3429
	11	36	2.16	-	0.2	30	4	-10	140	Ruby	E321K63	4270	486553	9	-	2.0	3429
	11	36	2.16	-	0.2	4	4	-10	75	Ruby	E321K63	-	492190	11	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



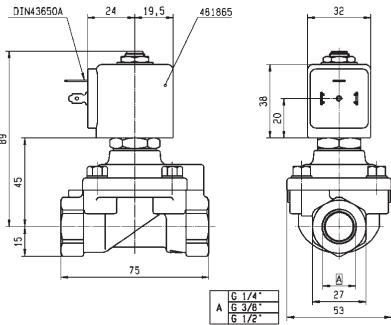
152

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General Catalogue FCSE/0112/UK V3 04/2026

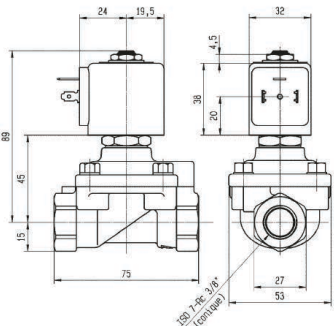


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	36	3	-10
To	3/8"	11	50	40	140

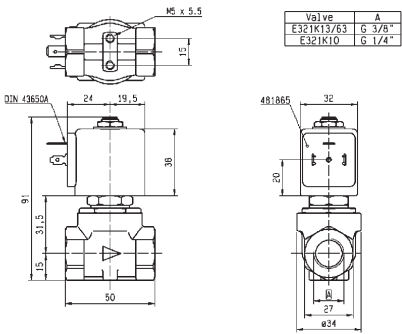
2 WAY VALVES



Drawing 3523



Drawing 3521



Drawing 3429



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

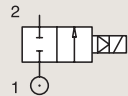
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



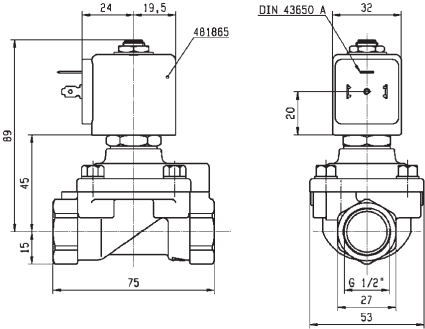
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	m³/h	Qn	Min	AC	DC	Min	Max					AC	DC		
1/2"	15	60	3.6	3150	0.3	40	25	-10	100	NBR	E321H15 ₁₂	2995	481865	9	10	2.0	3522
	15	60	3.6	3150	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	9	10	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)
From	1/2"	15	60	25	-10
To	1/2"	15	60	40	140



Drawing 3522



2 WAY VALVES

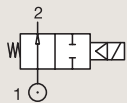
2/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS
PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY OPEN



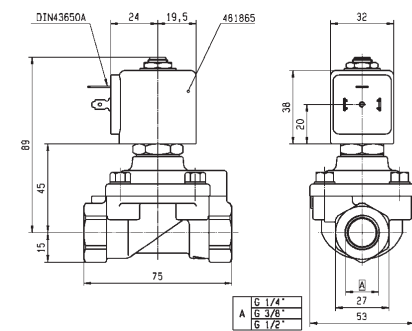
Port size	Orifice Ø	Flow factors			Operating Pressure Differential (Max(MOPD))			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	AC	DC	Min	Max					AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C	FKM							
1/4"	8	36	2.16	1600	0.3	40	40	-10	100	FKM	322H7106 ¹²	2995	481865	9	10	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	9	10	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	9	10	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	20	20	-10	100	FKM	322G7506 ¹	2995	481865	9	10	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	9	10	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	9	10	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
	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

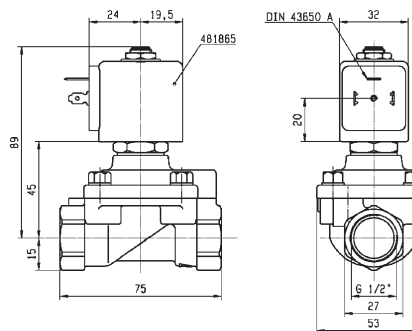


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	36	20	-10
To	1/2"	15	60	40	140

2 WAY VALVES



Drawing 3523



Drawing 3522



2 WAY VALVES

2/2 VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS PILOT OPERATED

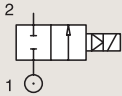
BRASS

SUB-BASE MOUNTING

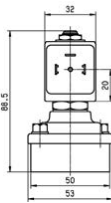
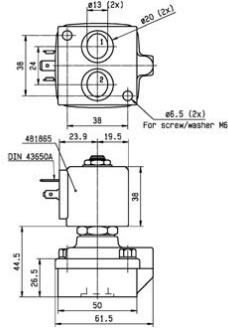
NORMALLY CLOSED

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



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



Drawing 3520

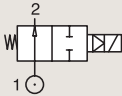
BRASS

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.
		Kv	KV	Qn	Min	Max(MOPD)	DC	Min	Max					AC	DC		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C	FKM				W	W		
14	45	2.7	-	0.3	40	40	0	100	100	FKM	322F7206 ¹²	2995	481865	9	10	2.0/14.1	3520
SB	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



3 WAY VALVES

3/2

VALVES FOR HYDRAULIC OIL AND NEUTRAL LIQUIDS
PILOT OPERATED

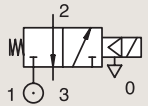
ANODIZED ALUMINIUM
PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø		Flow factors				Operating Pressure Differential			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
	1	(2)	1	(2)	1	(2)	Min	Max	Min	Max	Valve Ref.					Housing Ref.	Coil Ref.		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
1/4"	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	331B02 ₁₂	2995	481865	9	10	2.0	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	331B02 ₁₃	2995	481865	9	10	2.0	8114
	8	8	10	10	0.6	0.6	1	40	40	-10	75	NBR	331B02 ₁₃	4270	481000	8	8	2.1	8114

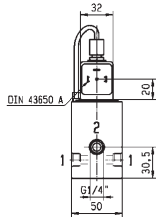
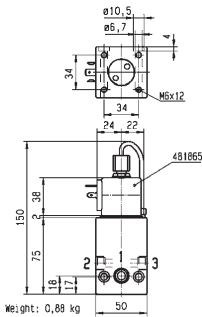
Notes:

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



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

3 WAY VALVES



Drawing 8114



2 WAY VALVES

NOTES

[illegible]

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2 WAY VALVES



HIGH CORROSION RESISTANT VALVES (303 STAINLESS STEEL)

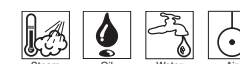


2/2

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	166 and 167
		Normally Open	1/4"	2.5	3	12	120	170



HIGH CORROSION RESISTANT VALVES (316 STAINLESS 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	316L Stainless St./Pipe Mounting	Normally Closed	1/8"	1.5 to 2.5	2.3	20	140	172
			1/4"	1.5 to 3	6	20	140	172
			1/2"	3	10	4	140	172
			3/8"	5 to 6.2	10	4	140	172
			1/4"	1	0.6	98	75	176
Direct Operated	316L Stainless St./Pipe Mounting	Normally Open	1/4"	3.0 to 5	8	6	140	174
			1/2"	5.0 to 6.2	10	3	140	174
Maglift	316L Stainless St./Pipe Mounting	Normally Closed	3/8"	15	65	20	140	178
			1/2"	15	80	20	140	178
			3/4"	15	80	20	140	180
			1"	25	160	16	120	180



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue ECSE/0112/LJK V3_04/2026

2 WAY VALVES

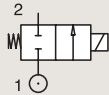
2/2 HIGH CORROSION RESISTANT VALVES
(303 STAINLESS ST.)
DIRECT OPERATED



Process

303 STAINLESS ST.
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.
		Kv	KV m³/h	Qn m³/h	Min	AC bar	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
BSP	mm	l/min			bar			°C	°C									
1/4"	1.5	1.5	0.09	80	0	20	20	-10	100	FKM	121V5406	2995	481865		9	10	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		9	10	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		9	10	2.0	8116
	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		9	10	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		9	10	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		9	10	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:

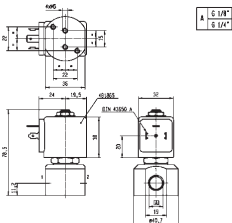
- 1.Valve only compatible with hydraulic oil and neutral liquids
2.If media is water, the fluid temperature shall not exceed 40°C.



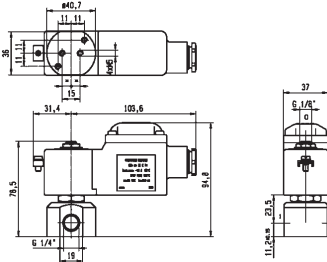
2 WAY VALVES



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



Drawing 8116



Drawing 8024



2 WAY VALVES

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

303 STAINLESS ST.
PIPE MOUNTING

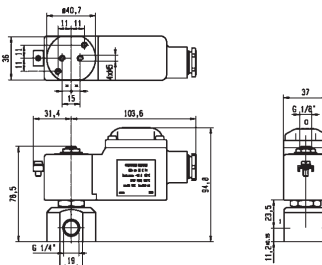
NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				IS	Power		Coil Group	Dwg. No.
		Kv	Qn	Qn	Min	Max	Min	Max	AC W						DC W			
BSP	mm	l/min	m³/h	m³/h	bar	bar	°C	°C			Valve Ref.	Housing Ref.	Coil Ref.					
1/4"	3	3.5	0.21	220	0	-	-20	75	PUR		121V5397	2995	482740	-	1.6		6.0/8.0	8116
	3	3.5	0.21	220	0	4.5	-20	75	PUR		121V5397	-	495900	2.5	2		6.0/8.0	8024
	3	3.5	0.21	220	0	-	-20	75	PUR		121V5397	-	495910	*	0.3-1.2		6.0/8.0	8024
	3	3.5	0.21	220	0	-	-20	65	PUR		121V5397	2995	496125	-	1.6		6.0/8.0	8116
	4	7	0.42	450	0	10	-10	100	FKM		121V5206	2995	481865	9	10		2.0	8116
	4	7	0.42	450	0	10	-10	120	FKM		121V5206	4270	481000	8	8		2.0	8116
	4	7	0.42	450	0	10	-10	120	FKM		121V5206	4270	486265	14	14		2.0	8116
	4	7	0.42	450	0	3.5	0	100	PTFE		121V5212	2995	481865	9	10		2.0	8116
	4	7	0.42	450	0	3.5	0	130	PTFE		121V5212	4270	481000	8	8		2.0	8116
	4	7	0.42	450	0	3.5	0	130	PTFE		121V5212	4270	486265	14	14		2.0	8116
	4	7	0.42	450	0	12	0	100	Ruby		121V5263	2995	481865	9	10		2.0	8116
	4	7	0.42	450	0	15	0	130	Ruby		121V5263	4270	481000	8	8		2.0	8116
	4	7	0.42	450	0	22	0	180	Ruby		121V5263	4270	486265	14	14		2.0	8116
	5	10	0.6	750	0	7	-10	100	FKM		121V5106	2995	481865	9	10		2.0	8116
	5	10	0.6	750	0	7	-10	120	FKM		121V5106	4270	481000	8	8		2.0	8116
	5	10	0.6	750	0	7	-10	120	FKM		121V5106	4270	486265	14	14		2.0	8116
	5	10	0.6	-	0	2.8	0	100	PTFE		121V5112	2995	481865	9	10		2.0	8116
	5	10	0.6	-	0	2.8	0	130	PTFE		121V5112	4270	481000	8	8		2.0	8116
	5	10	0.6	-	0	2.8	0	130	PTFE		121V5112	4270	486265	14	14		2.0	8116
	5	10	0.6	750	0	8.5	0	100	Ruby		121V5163	2995	481865	9	10		2.0	8116
	5	10	0.6	750	0	10	0	130	Ruby		121V5163	4270	481000	8	8		2.0	8116
	5	10	0.6	750	0	14	0	140	Ruby		121V5163	4270	486265	14	14		2.0	8116
1/4" NPT	3	4.5	0.27	315	0	10	-10	100	FKM		U121V5306	2995	481865	9	10		2.0	8116
	3	4.5	0.27	315	0	20	0	100	Ruby		U121V5363	2995	481865	9	10		2.0	8116

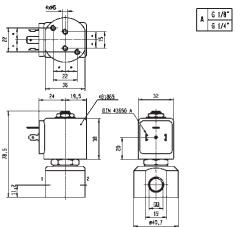
Notes:
1. Valve only compatible with hydraulic oil and neutral liquids



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



Drawing 8024



Drawing 8116



2 WAY VALVES

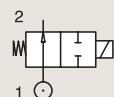
2/2

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

303 STAINLESS ST.

PIPE MOUNTING

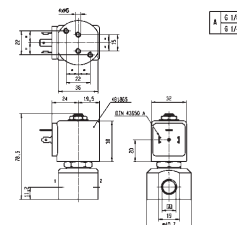
NORMALLY OPEN



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv	KV m ³ /h	Qn l/min	Min	AC bar	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
		mm	l/min	m ³ /h	bar	bar	bar	°C	°C								
1/4"	2.5	3	0.18	180	0	12	12	-30	100	FKM	122V8306	2995	481885	9	10	2.0	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)
From	1/4"	2.5	3	12	-30
To	1/4"	2.5	3	12	120



Drawing 8116

2 WAY VALVES

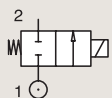
2/2

HIGH CORROSION RESISTANT VALVES 201LG SERIES DIRECT OPERATED

316L STAINLESS ST.

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	m³/h	Qn	Min	AC	DC	Min	Max					AC	DC		
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
3/8"	3	4.5	0.27	-	0	8	5	-10	140	FKM	201LG2NVG7	-	481865	9	10	2.0	076
	5	8	0.48	-	0	3	2	-10	140	FKM	201LG3SVG7	-	481865	9	10	2.0	077
1/2"	6.2	10	0.6	-	0	1.5	0.5	-10	140	FKM	201LG3UVG7	-	481865	9	10	2.0	077
	6.2	10	0.6	-	0	1.5	0.5	-10	140	FKM	201LG4SVG7	-	481865	9	10	2.0	078
1/2"	6.2	10	0.6	-	0	1.5	0.5	-10	140	FKM	201LG4UVG7	-	481865	9	10	2.0	078

Notes:
Available version A, shiding ring in silver material included



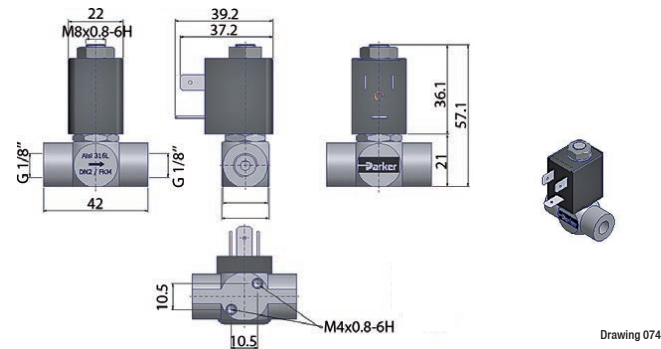
172

Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

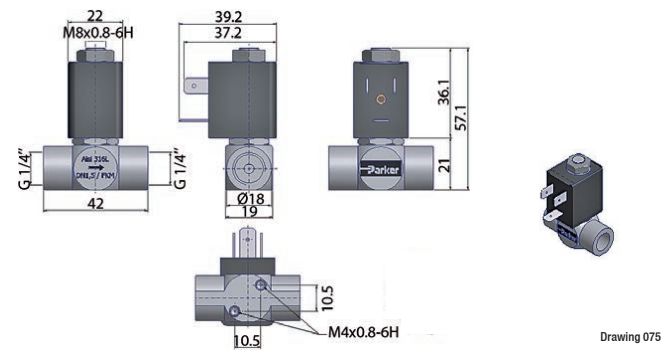
2 WAY VALVES



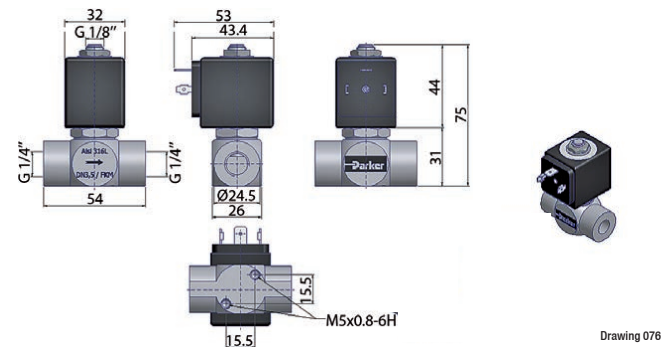
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1.5	1	5	-10
To	1/2"	6.2	10	20	140



Drawing 074



Drawing 075



Drawing 076



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2/2

HIGH CORROSION RESISTANT VALVES

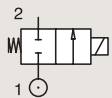
202LG SERIES

DIRECT OPERATED

316L STAINLESS ST.

PIPE MOUNTING

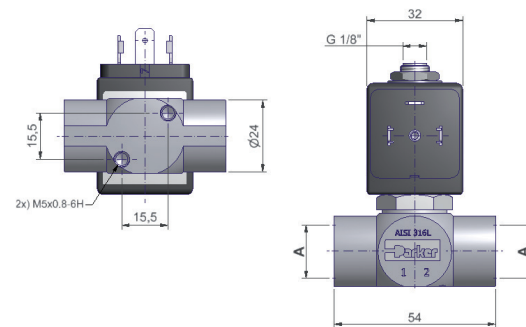
NORMALLY OPEN



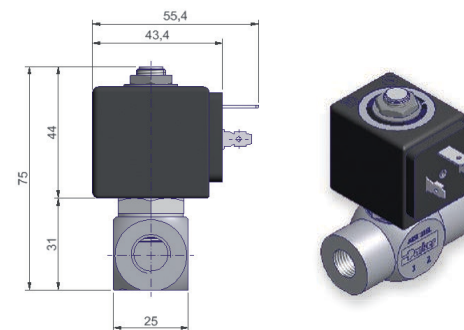
Port size	Orifice Ø	Flow factors		Operating Pressure Differential (MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	CV	Min	Max	Max	Min	Max				AC W	DC W		
1/4"	3.0	4.5	0.27	0	6	6	-10	140	FKM	202LG2NVG7	481865	9	10	24/2.0	3
	5.0	8.0	0.48	0	3	3	-10	140	FKM	202LG2SVG7	481865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



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



Drawing 3



Drawing 3



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2/2 HIGH CORROSION RESISTANT VALVES
V SERIES
DIRECT OPERATED

316L STAINLESS ST.
PIPE MOUNTING

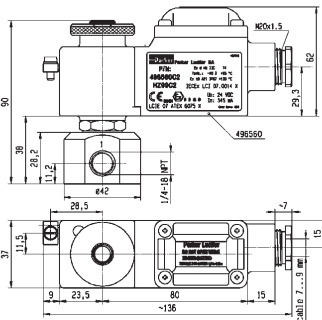
NORMALLY CLOSED

Port size	Orifice Ø	Flow factor			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
		Kv	Qn	Qn	Min	AC	DC	Min	Max							AC W	DC W		
mm	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C										
0.8	-	-	20	0	-	200	-25	65	PUR		U121VS3750A ₁	-	496565	0-20	Ex ia 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 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 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

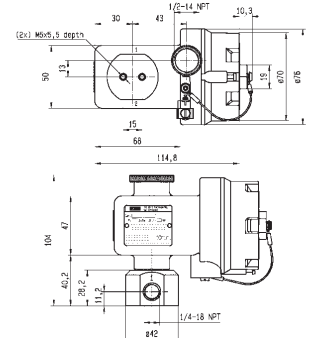
- Notes:
1. Valve only compatible with neutral gases
2. Valve delivered with an individual material traceability certificate (2.2 following EN10204)
3. Valve compatible with water only up to 40°C



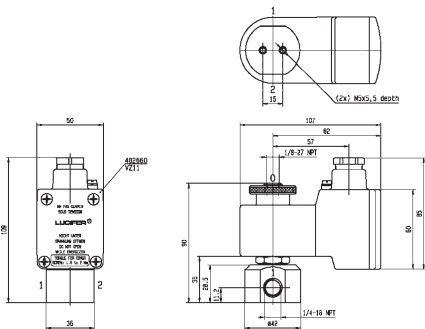
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	0.8	0.6	98	-40
To	1/4"	1	0.6	200	75



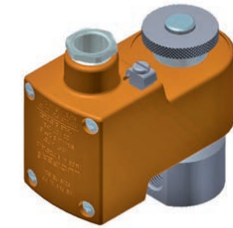
Drawing 8165



Drawing 8299



Drawing 6713



2 WAY VALVES

2/2

HIGH CORROSION RESISTANT VALVES
221G SERIES
MAGNALIFT

316L STAINLESS ST. - SILVER SHADIN RING
PIPE MOUNTING

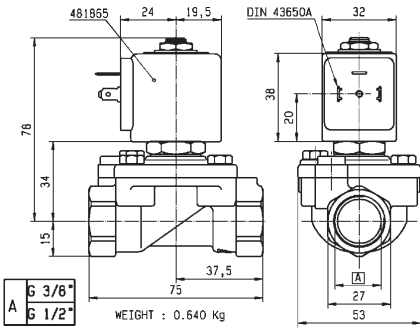
NORMALLY CLOSED

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.	Min.	Max.	Valve Ref.	Housing Ref.		Coil Ref.	AC	DC								
		m³/h	m³/h	Bar	AC bar	DC bar	°C									°C	W	W			
3/8"	15	65	3.90	0	16	-	-10	100	FKM	221G6306	2995	481865	-	-	-	9	-	2.0	3732		
	15	65	3.90	0	20	5	-10	100	FKM	221G6306	2995	492425	-	-	-	14	14	2.0	3732		
	15	65	3.90	0	16	-	-10	65	FKM	221G6306	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3732		
	15	65	3.90	0	16	-	-10	120	FKM	221G6306	4270	481000	-	-	-	8	-	2.0	3732		
	15	65	3.90	0	20	7	-10	140	FKM	221G6306	4270	486265	-	-	-	14	14	2.0	3732		
	15	65	3.90	0	16	-	-10	80	FKM	221G6306	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3732		
	15	65	3.90	0	-	10	-10	100	FKM	221G6336 ₁	2995	481865	-	-	-	-	10	2.0	3732		
	15	65	3.90	0	-	10	-10	65	FKM	221G6336 ₁	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.1	3732		
	15	65	3.90	0	10	10	-10	75	FKM	221G6336 ₁	-	492070	-	1-21	Ex mb IIC T4/T5	9	8	2.1	3732		
	15	65	3.90	0	-	10	-10	80	FKM	221G6336 ₁	-	492190	-	1-21	Ex eb mb IIC T3/T4	11	9	2.1	3732		
	15	65	3.90	0	-	10	-10	80	FKM	221G6336 ₁	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.1	3732		
	15	65	3.90	0	10	-	-10	100	EPDM	221G6307	2995	481865	-	-	-	9	-	2.0	3732		
1/2"	15	65	3.90	0	10	-	-10	65	EPDM	221G6307	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3732		
	15	65	3.90	0	10	-	-10	120	EPDM	221G6307	4270	481000	-	-	-	8	-	2.0	3732		
	15	65	3.90	0	10	7	-10	140	EPDM	221G6307 ₂	4270	486265	-	-	-	14	14	2.0	3732		
	15	65	3.90	0	10	-	-10	80	EPDM	221G6307	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3732		
	15	80	4.80	0	16	-	-10	100	FKM	221G6506	2995	481865	-	-	-	9	-	2.0	3732		
	15	80	4.80	0	20	5	-10	100	FKM	221G6506	2995	492425	-	-	-	14	14	2.0	3732		
	15	80	4.80	0	16	-	-10	65	FKM	221G6506	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3732		
	15	80	4.80	0	16	-	-10	120	FKM	221G6506	4270	481000	-	-	-	8	-	2.0	3732		
	15	80	4.80	0	20	7	-10	140	FKM	221G6506	4270	486265	-	-	-	14	14	2.0	3732		
	15	80	4.80	0	16	-	-10	80	FKM	221G6506	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3732		
	15	80	4.80	0	-	10	-10	100	FKM	221G6536 ₃	2995	481865	-	-	-	-	10	2.0	3732		
	15	80	4.80	0	-	10	-10	65	FKM	221G6536 ₃	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.1	3732		
1/2"	15	80	4.80	0	10	10	-10	65	FKM	221G6536 ₃	-	492070	-	1-21	Ex mb IIC T4/T5	9	8	2.1	3732		
	15	80	4.80	0	10	10	-10	75	FKM	221G6536 ₃	-	492190	-	1-21	Ex eb mb IIC T3/T4	11	9	2.1	3732		
	15	80	4.80	0	-	10	-10	80	FKM	221G6536 ₃	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.1	3732		
	15	80	4.80	0	10	-	-10	100	EPDM	221G6507	2995	481865	-	-	-	9	-	2.0	3732		
	15	80	4.80	0	10	-	-10	65	EPDM	221G6507	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3732		
	15	80	4.80	0	10	-	-10	120	EPDM	221G6507	4270	481000	-	-	-	8	-	2.0	3732		
	15	80	4.80	0	10	7	-10	140	EPDM	221G6507 ₂	4270	486265	-	-	-	14	14	2.0	3732		
	15	80	4.80	0	10	-	-10	80	EPDM	221G6507	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3732		

Notes:
1. Without shading ring
2. Maximum pressure for steam: 4 bar (140°C)



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	15	65	6	-10
To	1/2"	15	80	20	140



Drawing 3732



2 WAY VALVES

2/2

HIGH CORROSION RESISTANT VALVES
221G SERIES
MAGNALIFT

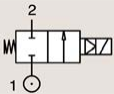
2 WAY VALVES



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/4"	15	80	5	-10
To	1"	25	160	20	140

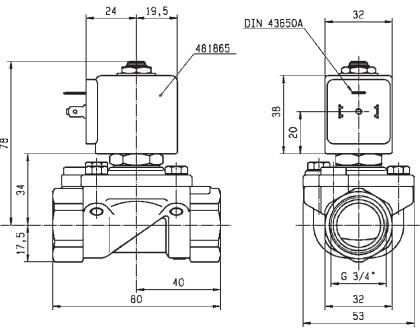
316L STAINLESS ST. - SILVER SHADIN RING
PIPE MOUNTING

NORMALLY CLOSED

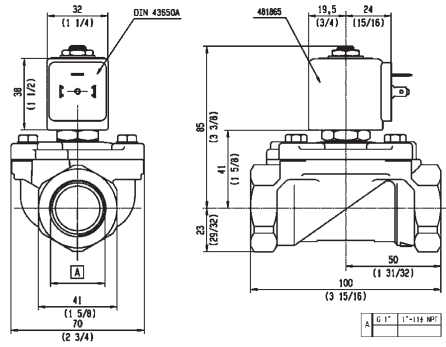


Port Size	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			IS	ATEX Zone	Protection Mode	Power		Coil Group	Dwg N°
		Kv l/min	KV m³/h	Min. Bar	Max. (MOPD) AC bar	DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.				AC W	DC W		
3/4"	15	80	4.80	0	16	-	-10	100	FKM	221G6606	2995	481865	-	-	-	9	-	2.0	8451
	15	80	4.80	0	20	5	-10	60	FKM	221G6606	2995	492425	-	-	-	14	14	2.0	8451
	15	80	4.80	0	16	-	-10	65	FKM	221G6606	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	8451
	15	80	4.80	0	16	-	-10	120	FKM	221G6606	4270	481000	-	-	-	8	-	2.0	8451
	15	80	4.80	0	20	7	-10	140	FKM	221G6606	4270	486265	-	-	-	14	14	2.0	8451
	15	80	4.80	0	16	-	-10	80	FKM	221G6606	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	8451
	15	80	4.80	0	-	10	-10	100	FKM	221G6636	2995	481865	-	-	-	-	10	2.0	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
	15	80	4.80	0	10	-	-10	100	EPDM	221G6607	2995	481865	-	-	-	9	-	2.0	8451
	15	80	4.80	0	10	-	-10	65	EPDM	221G6607	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	8451
	15	80	4.80	0	10	-	-10	120	EPDM	221G6607	4270	481000	-	-	-	8	-	2.0	8451
	15	80	4.80	0	10	7	-10	140	EPDM	221G6607	4270	486265	-	-	-	14	14	2.0	8451
	15	80	4.80	0	10	-	-10	80	EPDM	221G6607	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	8451
	1"	25	160	9.60	0	16	-	-10	100	FKM	221G6106	2995	481865	-	-	-	9	-	2.0
25		160	9.60	0	20	5	-10	60	FKM	221G6106	2995	492425	-	-	-	14	14	2.0	3448
25		160	9.60	0	16	-	-10	65	FKM	221G6106	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	3448
25		160	9.60	0	16	6	-10	120	FKM	221G6106	4270	486265	-	-	-	14	14	2.0	3448
25		160	9.60	0	16	-	-10	80	FKM	221G6106	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	3448
25		160	9.60	0	-	10	-10	100	FKM	221G6136	2995	481865	-	-	-	-	10	2.0	3448
25		160	9.60	0	-	10	-10	65	FKM	221G6136	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	-	9	2.0	3448
25		160	9.60	0	-	10	-10	100	FKM	221G6136	4270	481000	-	-	-	8	-	2.0	3448
25		160	9.60	0	-	10	-10	80	FKM	221G6136	-	495905	-	1-21	Ex db mb IIC T4	-	8	2.0	3448
25		160	9.60	0	10	-	-10	100	EPDM	221G6107	2995	481865	-	-	-	9	---	2.0	8448
25		160	9.60	0	10	-	-10	65	EPDM	221G6107	2995	495870	-	2-22	Ex nAc nCc IIC T3/T4	8	-	2.0	8448
25		160	9.60	0	10	-	-10	120	EPDM	221G6107	4270	481000	-	-	-	8	---	2.0	8448
25		160	9.60	0	10	10	-10	140	EPDM	221G6107	4270	486265	-	-	-	14	14	2.0	8448
25	160	9.60	0	10	-	-10	80	EPDM	221G6107	-	495905	-	1-21	Ex db mb IIC T4	8	-	2.0	8448	

Notes:
1. Without shading ring
2. Maximum pressure for steam: 4 bar (140°C)



Drawing 8451



Drawing 8448



3 WAY VALVES

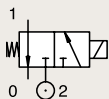
3/2

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)	Min	Max						AC W	DC W		
BSP	mm	Kv l/min	Kv m³/h	bar	bar	°C	°C									
1/4"	1	0.6	0.6	0.04	0.04	0	-10	55	FKM	131V5490	2995	48358001	*	0.5-3	7.0/8.0	6740
	1	0.6	0.6	0.04	0.04	0	-10	75	FKM	131V5490	-	495910	*	0.3-1.2	7.0/8.0	6740
	1.5	1.5	1.5	0.09	0.09	0	15	120	FKM	131V5406	4270	481000	8	8	2.1	8116
	1.5	1.5	1.5	0.09	0.09	0	15	100	FKM	131V5406	2995	481865	9	10	2.0	8116
	1.5	1.5	1.5	0.09	0.09	0	15	130	Ruby	131V5463	4270	481000	8	8	2.0	8116
	1.5	1.5	1.5	0.09	0.09	0	15	15	Ruby	131V5463	2995	481865	9	10	2.0	8116
	1.5	1.5	1.5	0.09	0.09	0	15	180	Ruby	131V5463	4270	486265	14	14	2.0	8116
	1.5	1.5	1.5	0.09	0.09	0	-7	75	PUR	131V5497	2995	482740	-	1.6	6.0/8.0	8024
	1.5	1.5	1.5	0.09	0.09	0	7	75	PUR	131V5497	-	495900	2.5	2	6.0/8.0	8024
	1.5	1.5	1.5	0.09	0.09	0	-7	75	PUR	131V5497	-	495910	*	0.3-1.2	6.0/8.0	8024
	1.5	1.5	1.5	0.09	0.09	0	-7	65	PUR	131V5497	2995	496125	-	1.6	6.0/8.0	8024
	2.5	3.5	3.5	0.21	0.21	0	7	120	FKM	131V5306	4270	481000	8	8	2.1	8116
	2.5	3.5	3.5	0.21	0.21	0	7	100	FKM	131V5306	2995	481865	9	10	2.0	8116
	2.5	3.5	3.5	0.21	0.21	0	7	130	Ruby	131V5363	4270	481000	8	8	2.0	8116
	2.5	3.5	3.5	0.21	0.21	0	7	100	Ruby	131V5363	2995	481865	9	10	2.0	8116
	2.5	3.5	3.5	0.21	0.21	0	7	180	Ruby	131V5363	4270	486265	14	14	2.0	8116
	2.5	3	3	0.18	0.18	0	-2	75	PUR	131V5397	2995	482740	-	1.6	6.0/8.0	8024
	2.5	3	3	0.18	0.18	0	2	75	PUR	131V5397	-	495900	2.5	2	6.0/8.0	8024
	2.5	3	3	0.18	0.18	0	-2	75	PUR	131V5397	-	495910	*	0.3-1.2	6.0/8.0	8024
	2.5	3	3	0.18	0.18	0	-2	65	PUR	131V5397	2995	496125	-	1.6	6.0/8.0	8024
1/4" NPT	1	0.6	0.6	0.04	0.04	0	-10	55	FKM	U131V5490	2995	483580.01	*	0.5-3	7.0/8.0	6740
	1.5	1.5	1.5	0.09	0.09	0	15	100	FKM	U131V5406	2995	481865	9	10	2.0	8116
	1.5	1.5	1.5	0.09	0.09	0	15	15	Ruby	U131V5463	2995	481865	9	10	2.0	8116
	2.5	3.5	3.5	0.21	0.21	0	7	100	FKM	U131V5306	2995	481865	9	10	2.0	8116
	2.5	3.5	3.5	0.21	0.21	0	7	100	Ruby	U131V5363	2995	481865	9	10	2.0	8116

Notes:

1. Valve only compatible with hydraulic oil and neutral liquids



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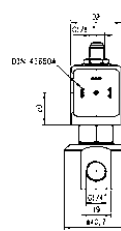
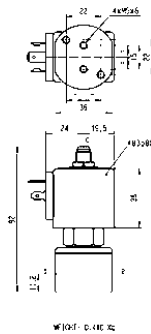
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

IECEx certified

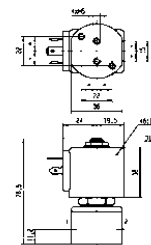


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	1	0.6	2	-30
To	1/4"	2.5	3.5	15	180

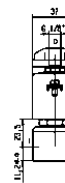
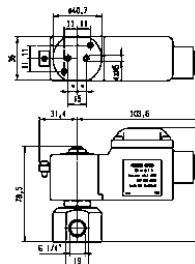
3 WAY VALVES



Drawing 6740



Drawing 8116



Drawing 8024



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

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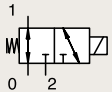
HIGH CORROSION RESISTANT VALVES
(303 STAINLESS ST.)
DIRECT OPERATED



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

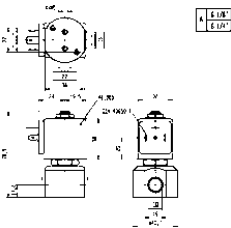
303 STAINLESS ST.
PIPE MOUNTING

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)	Max	Min	Max					AC W	DC W		
BSP	mm		Kv l/min		KV m³/h		bar	AC bar	DC bar	°C	°C								
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	9	10	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	130	Ruby	133V5463	4270	481000	8	8	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	100	Ruby	133V5463	2995	481865	9	10	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	180	Ruby	133V5463	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	9	10	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	130	Ruby	133V5363	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	2995	481865	9	10	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	180	Ruby	133V5363	4270	486265	14	14	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	-10	100	FKM	U133V5406	2995	481865	9	10	2.0	8116
	1.5	1.5	1.5	1.5	0.09	0.09	0	10	10	0	100	Ruby	U133V5463	2995	481865	9	10	2.0	8116
1/4" NPT	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	-10	100	FKM	U133V5306	2995	481865	9	10	2.0	8116
	2.5	2.5	3.5	3.5	0.21	0.21	0	4	4	0	100	Ruby	U133V5363	2995	481865	9	10	2.0	8116

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



Drawing 8116



3 WAY VALVES

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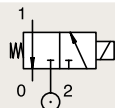
HIGH CORROSION RESISTANT VALVES (316L STAINLESS ST.) DIRECT OPERATED



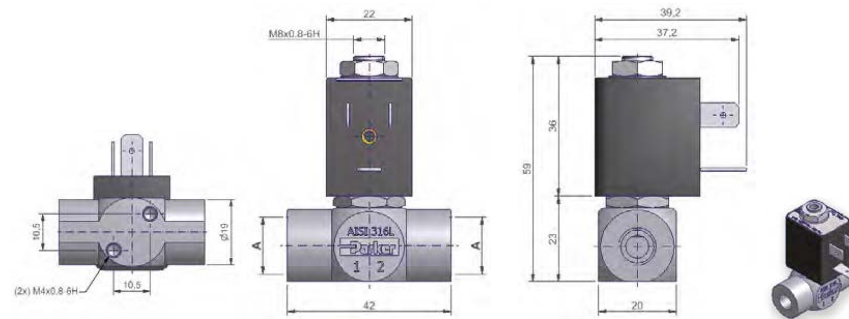
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1.5	1	3	-10
To	1/4"	3	4.5	12	140

316L STAINLESS ST.
PIPE MOUNTING

NORMALLY CLOSED

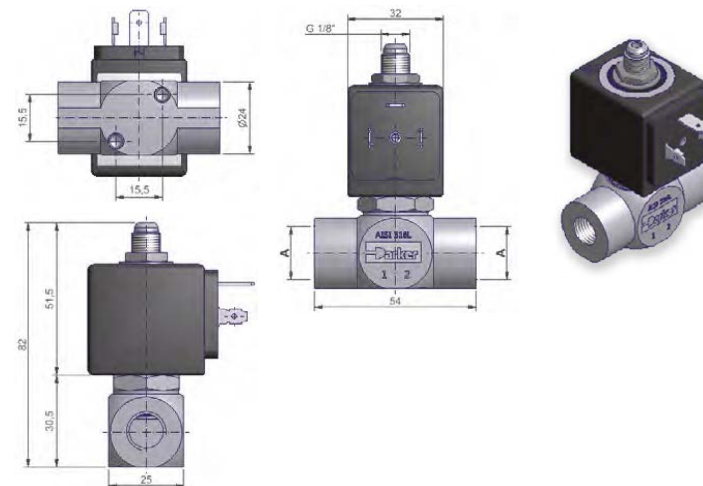


Port Size	Orifice	Flow Factors	Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves		Power		Coil Group	Fluid Compatibility	Class	Column
			Min. Bar	Max. (MOPD) AC bar	DC bar	Min. °C	Max. °C		Valve Ref.	Coil Ref.	AC W	DC W				
1/8"	1.5	1	0.06	0	8	8	-10	140	FKM	301LG1GVG2	481180	4	5	1.1/1.3	A	4
	2.5	2.3	0.14	0	3	3	-10	140	FKM	301LG1LVG2	481180	4	5	1.1/1.3	A	4
1/4"	1.5	1	0.06	0	8	8	-10	140	FKM	301LG2GVG2	481180	4	5	1.1/1.3	A	4
	2.5	2.3	0.14	0	3	3	-10	140	FKM	301LG2LVG2	481180	4	5	1.1/1.3	A	4
	1.5	1	0.06	0	12	12	-10	140	FKM	301LG2GVG7	481865	9	10	24/2.0	A	5
	3.0	4.5	0.27	0	4	4	-10	140	FKM	301LG2NVG7	481865	9	10	24/2.0	A	5



Drawing 4

All dimensions are in mm



All dimensions are in mm

Drawing 5



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OIL BURNER VALVES



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	192
			1/4"	3	4	30	160	192
			3/8"	6 to 11	22	30	160	192
			1/2"	14	25	30	160	192
	Brass/Pipe Mounting	Normally Open	1/8"	2.5	3.5	30	160	194
			1/4"	2.5	3.5	30	160	194
			Brass/Sub-base Mounting	Normally Closed	SB	2.5	3.5	30
Magnalift	Brass/Pipe Mounting	Normally Closed	1/2"	15	50	5	140	196
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/4"	8	36	40	140	198
			3/8"	11	50	40	160	198
			1/2"	15	60	40	160	200
Pilot Operated	Brass/Sub-base Mounting	Normally Closed	14 mm	14	45	30	160	200
Pilot Operated	Brass/Pipe Mounting	Normally Closed	1/8"	1.7	1.4	16	90	202

2 WAY VALVES

2/2

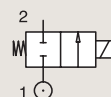
OIL BURNER VALVES

DIRECT OPERATED

BRASS

PIPE MOUNTING

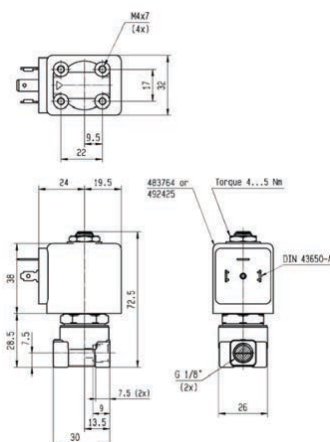
NORMALLY CLOSED



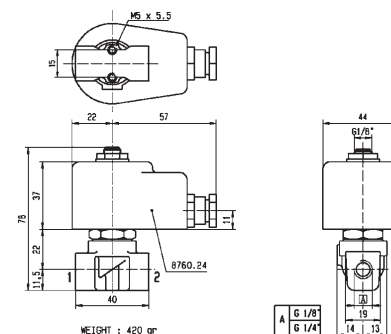
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal		Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	Min	Max	AC W						DC W			
BSP	mm	l/min	m³/h	l/min	bar	AC bar	DC bar	°C	°C									
1/8"	2.2	2.8	0.17	-	0	25	-	-10	120	Ruby	121Z2323 ₁	299522	481865	9	-	2.0	7863	
	3	4	0.24	-	0	30	-	-30	160	Ruby	121K4243 ₁	852023	483824	19	-	14.1	3292	
1/4"	3	4.5	0.27	-	0	30	-	-30	160	Ruby	121K6423 ₁	852023	483824	19	-	14.1	3292	
	4	6.5	0.39	-	0	30	-	0	160	Ruby	121K6220 ₁	852023	483541	20	-	14.3	3510	
3/8"	6	12	0.72	-	0	5	-	0	120	FKM	121K3321 ₁	299525	492425	14	-	14.1	3551	
	11	22	1.32	-	0	30	-	0	160	FKM	121G2320 ₁₂	852023	483541	20	-	14.3	3646	
1/2"	14	25	1.5	-	0	30	-	0	160	FKM	121G2520 ₁₂	852023	483541	20	-	14.3	3646	
	14	25	1.5	-	0	30	-	0	160	FKM	121G2523 ₁	852023	483824	19	-	14.1	3646	

Notes:

- NOTES:
- 1.DIN-EN-ISO 23553-1:2014-09 approved for oil burners
 - 2.Max. Static pressure = 30 bar; max pressure differential = 0.2 bar

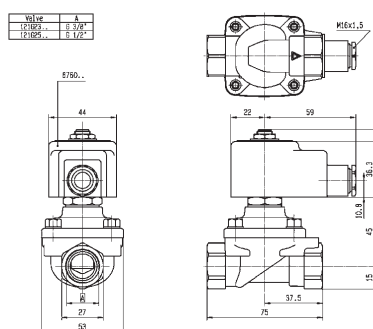


Drawing 7863

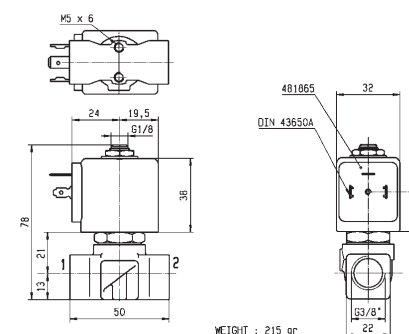


Drawing 3292

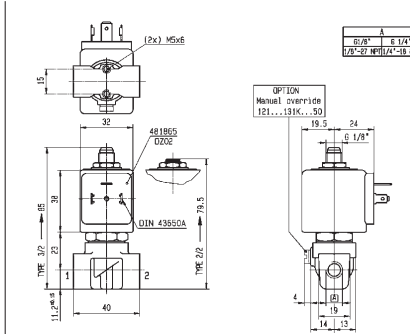
Valve	A
121623..	6 3/8
121002	2 1/2



Drawing 3646



Drawing 3551



Drawing 3510

2 WAY VALVES

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.
		Kv	Qv	Qn	Min	Max(MOPD)	DC bar	Min	Max					AC W	DC W		
BSP	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C								
1/8"	2.5	3.5	0.21	-	0	30	-	-30	160	Ruby	122K9321	852023	483824	19	-	14.1	6766
1/4"	2.5	3.5	0.21	-	0	30	-	-30	160	Ruby	122K8321	852023	483824	19	-	14.1	6766

Notes:

1.DIN-EN-ISO 23553-1:2014-09 approved for oil burners

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED

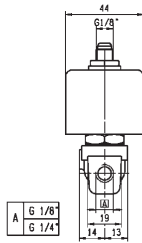
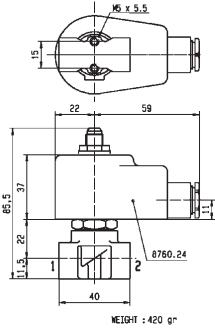
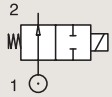
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	Max(MOPD)	DC bar	Min	Max					AC W	DC W		
SB	mm	l/min	m³/h	l/min	bar	bar	bar	°C	°C								
SB	14	25	1.5	-	0	30	-	0	160	FKM	121F2523	852023	483824	19	-	14.1	7638

Notes:

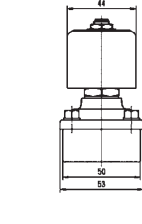
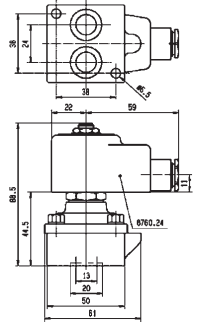
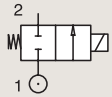
1.DIN-EN-ISO 23553-1:2014-09 approved for oil burners



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



Drawing 6766



Drawing 7638



2 WAY VALVES

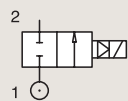
2/2

OIL BURNER VALVES MAGNALIFT

BRASS

PIPE MOUNTING

NORMALLY CLOSED



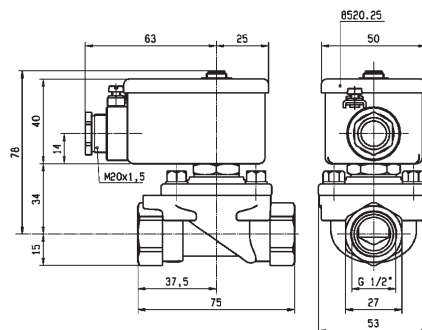
Port size	Orifice Ø	Flow factors	Operating Pressure Differential	Fluid Temp.	Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power	Coil Group	Dwg. No.
BSP	mm	Kv l/min	KV m³/h	Qn l/min	Min AC bar	Max DC bar	Min °C	Max °C	AC W	DC W	
1/2"	15	50	3	-	0	5	-	0	140	FKM	221G2523 , 852023 483824 19 - 14.1 8298

Notes:

1.DIN-EN-ISO 23553-1:2014-09 approved for oil burners



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



Drawing 8298



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2 WAY VALVES

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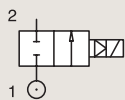
OIL BURNER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



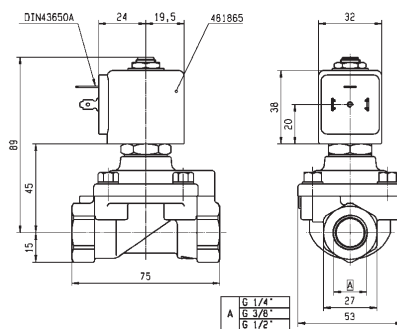
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv	Qv	Qn	Min	Max	DC	Min	Max					AC W	DC W		
1/4"	8	36	2.16	-	0.3	40	25	-10	100	FKM	E321H21	2995	481865	9	10	2.0	3523
	8	36	2.16	-	0.3	40	30	-10	120	FKM	E321H21	4270	481000	8	8	2.0	3523
	8	36	2.16	-	0.3	40	40	-10	140	FKM	E321H21	4270	486265	14	14	2.0	3523
3/8"	11	40	2.4	-	0.3	30	-	0	160	FKM	321H2322	852023	483541	20	-	14.1	3633
	11	50	3	-	0.3	40	25	-10	100	FKM	E321H23	2995	481865	9	10	2.0	3521
	11	50	3	-	0.3	40	30	-10	120	FKM	E321H23	4270	481000	8	8	2.0	3521
	11	50	3	-	0.3	40	40	-10	140	FKM	E321H23	4270	486265	14	14	2.0	3521

Notes:

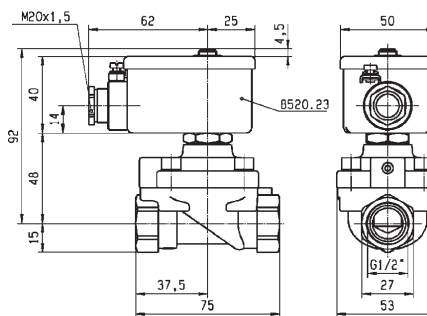
- 1.DIN-EN-ISO 23553-1:2014-09 approved for oil burners
- 2.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing
- 3.Pilot seat disc in synthetic Ruby



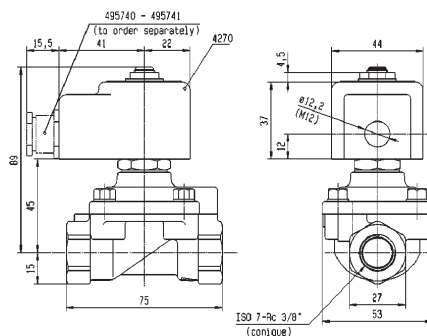
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	36	25	-10
To	3/8"	11	50	40	160



Drawing 3523



Drawing 3633



Drawing 3521



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2 WAY VALVES

2/2 OIL BURNER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm																
1/2"	15	60	3.6	-	0.3	30	-	0	160	FKM	321H2522 ¹³	852023	483541	20	-	14.1	3633
	15	60	3.6	-	0.3	30	-	0	160	FKM	321H2523 ¹³	852023	483824	19	-	14.1	3633
	15	60	3.6	-	0.3	40	25	-10	100	FKM	E321H25 ²³	2995	481865	9	10	2.0/14.2	3522
	15	60	3.6	-	0.3	40	30	-10	65	FKM	E321H25 ²³	-	483371	8	8	2.0/14.2	3522
	15	60	3.6	-	0.3	40	40	-10	140	FKM	E321H25 ²³	4270	486265	14	14	2.0/14.2	3522

Notes:

- 1.DIN-EN-ISO 23553-1:2014-09 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

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED

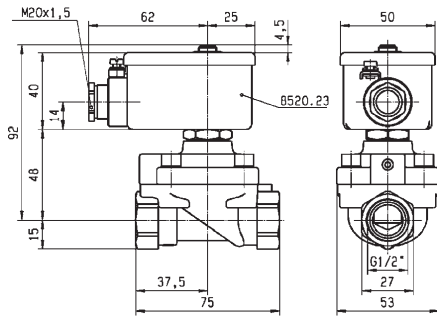
Port size	Orifice Ø	Flow factors			Operating Pressure Differential (Max(MOPD))			Fluid Temp.		Seat Seal				Power		Coil Group	Dwg. No.
		Kv	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	14	45	2.7	-	0	30	-	0	160	FKM	321F2523 ¹²	852023	483824	19	-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

Notes:

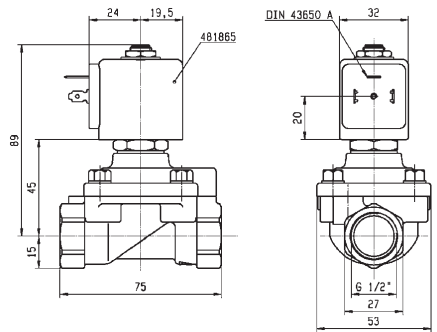
- 1.DIN-EN-ISO 23553-1:2014-09 approved for oil burners
- 2.Minimum pressure differential = 0.3 bar for opening and 0 bar for closing



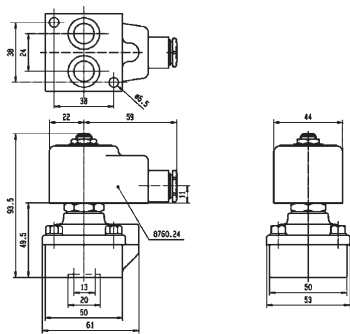
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/2"	14	45	25	-10
To	SB	15	60	40	160



Drawing 3633



Drawing 3522



Drawing 7639



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2 WAY VALVES

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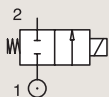
OIL BURNER VALVES

PILOT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



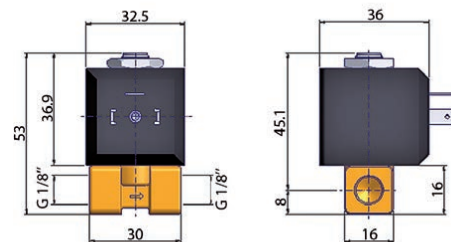
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv	KV	Qn	Min	Max(MOPD)	DC	Min	Max		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
BSP	mm	l/min	m³/h	m³/h	bar	bar	bar	°C	°C								
1/8"	1.7	1.4	0.086	-	0	16	-	-10	90	NBR	390300	131IN	XT09 230/50	9	-	22.0	015
	1.7	1.4	0.086	-	0	12	-	-10	90	FKM	390086	131IV	KT09 208-230/60	9	-	22.0	015
	1.7	1.4	0.086	-	0	16	-	-10	90	FKM	390088	131IV	KT09 230/50	9	-	22.0	015

Notes:

Valves above are certificate ISO 23553-1
Max admitted overpressure = 25bar



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	1.7	1.4	16	-10	-10
To	1/8"	1.7	1.4	16	90	60



Drawing 015



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2 WAY VALVES

NOTES



GAS BURNER VALVES



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"	4	5.3	2	90	206
			1/4"	4	5.3	2	90	206

2 WAY VALVES

2/2

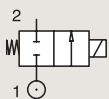
GAS BURNER VALVES

DIRECT OPERATED

BRASS

PIPE MOUNTING

NORMALLY CLOSED



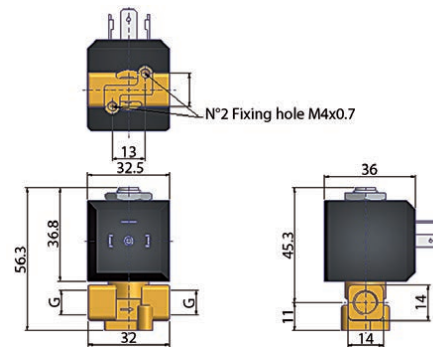
Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn m³/h	Min bar	Max bar	Max bar	Min °C	Max °C		Valve Order Number	Valve Type	Coil Type	AC W	DC W		
1/8"	4	5.3	0.318	-	0	2	-	-10	90	FKM	390878 ₁	131.4CG	KT09 230/50	9	-	22.0	013
	4	5.3	0.318	-	0	2	-	-10	90	FKM	390875 ₁	131.4CG	KT09 240/50	9	-	22.0	013
1/4"	4	5.3	0.318	-	0	2	-	-10	90	FKM	390945 ₁	131.4GG	KT09 230/50	9	-	22.0	013
	4	5.3	0.318	-	0	2	-	-10	90	FKM	390975 ₁	131.4GG	KT09 240/50	9	-	22.0	013

Notes:

- Ordering number is for an assembled valve and coil, with the voltage shown.
- Valves are EN1611 (BSI) certified



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)	Amb Temp (°C)
From	1/8"	4	5.3	0	-10	-10
To	1/4"	4	5.3	2	90	60



Drawing 013



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2 WAY 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	210

2 WAY VALVES

2/2

FAST SWITCHING VALVES
MAGNALIFT

BRASS

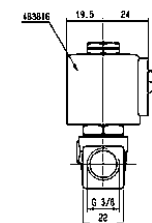
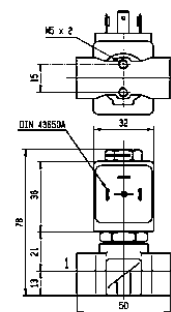
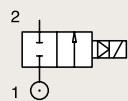
PIPE MOUNTING

NORMALLY CLOSED

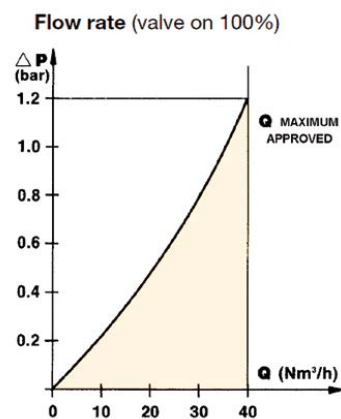
Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min	Max(MOPD)	Min	Max	AC W					DC W			
					AC bar	DC bar	°C	°C									
BSP	mm																
3/8"	8			-	0	- 7		°C	°C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

Notes:

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



Drawing 8020



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2 WAY VALVES

NOTES

VALVES FOR BEVERAGE DISPENSING HEALTHY SOLENOID



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	LLB Brass/Pipe Mounting	Normally Closed	1/8"	1.0 to 2.5	0.5 to 2.3	20	140	214

Food Compliance: NSF 169 certified, 1935/2004/CE

2 WAY VALVES

2/2

VALVES FOR BEVERAGE DISPENSING - HEALTHY SOLENOID VALVES DIRECT OPERATED

2 WAY VALVES

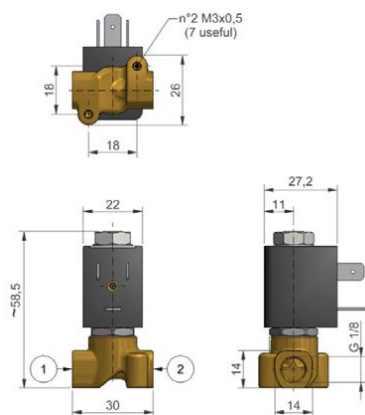
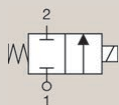


CW510L BRASS BODY

PIPE MOUNTING

NORMALLY CLOSED

Port Size	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv	CV	Min. Bar	Max. (MOPD) AC bar	DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
G1/8"	1.0	0.5	0.03	0	20	20	-10	140	FKM FDA	121WH1010	8993	481180	4	5	1.1, 1.3	12
	1.2	0.7	0.04	0	20	12	-10	140	FKM FDA	121WH1012	8993	481180	4	5	1.1, 1.3	
	1.5	1	0.06	0	20	10	-10	140	FKM FDA	121WH1015	8993	481180	4	5	1.1, 1.3	
	1.8	0.9	0.05	0	19	7.5	-10	140	FKM FDA	121WH1018	8993	481180	4	5	1.1, 1.3	
	2.0	1.8	0.11	0	15	7	-10	140	FKM FDA	121WH1020	8993	481180	4	5	1.1, 1.3	
	2.5	2.3	0.14	0	10	4	-10	140	FKM FDA	121WH1025	8993	481180	4	5	1.1, 1.3	



Drawing 12



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3 WAY VALVES

NOTES

VALVES FOR BEVERAGE DISPENSING HEALTHY SOLENOID



3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Part Number
Direct Operated	LLB Brass/Pipe Mounting	Normally Closed	1/8"	1.0 to 2.5	0.5 to 2.3	15	140	21

Food Compliance: NSF 169 certified, 1935/2004/CE

3 WAY VALVES

3/2

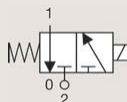
VALVES FOR BEVERAGE DISPENSING - HEALTHY SOLENOID VALVES DIRECT OPERATED

3 WAY VALVES



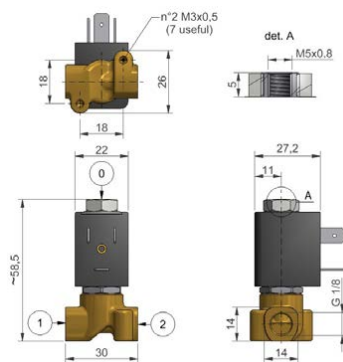
CW510L BRASS BODY PIPE MOUNTING

NORMALLY CLOSED

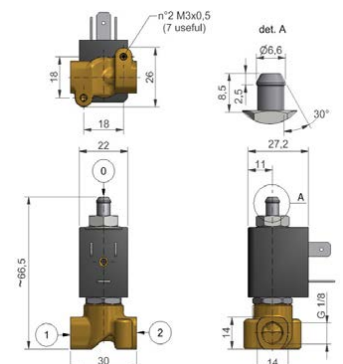


Port Size	Orifice Ø	Flow Factors		Operating Pressure Differential		Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv	KV	Min.	Max. (MOPD)	Min.	Max.		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
G1/8"	1.0	0.5	0.03	0	15	15	-10 140	FKM FDA	131WH1410	8993	481180	4	5	1.1, 1.3*	13
	1.2	0.7	0.04	0	14	14	-10 140	FKM FDA	131WH1412	8993	481180	4	5	1.1, 1.3*	
	1.5	1.0	0.06	0	8	8	-10 140	FKM FDA	131WH1415	8993	481180	4	5	1.1, 1.3*	
	1.8	1.2	0.07	0	6	6	-10 140	FKM FDA	131WH1418	8993	481180	4	5	1.1, 1.3*	
	2.0	1.5	0.09	0	5	5	-10 140	FKM FDA	131WH1420	8993	481180	4	5	1.1, 1.3*	
	2.5	2.3	0.14	0	3	-	-10 140	FKM FDA	131WH1425	8993	481180	4	5	1.1, 1.3*	
G1/8"	1.0	0.5	0.03	0	15	15	-10 140	FKM FDA	131WH1510	8993	481180	4	5	1.1, 1.3*	14
	1.2	0.7	0.04	0	14	14	-10 140	FKM FDA	131WH1512	8993	481180	4	5	1.1, 1.3*	
	1.5	1.0	0.06	0	8	8	-10 140	FKM FDA	131WH1515	8993	481180	4	5	1.1, 1.3*	
	1.8	1.2	0.07	0	6	6	-10 140	FKM FDA	131WH1518	8993	481180	4	5	1.1, 1.3*	
	2.0	1.5	0.09	0	5	5	-10 140	FKM FDA	131WH1520	8993	481180	4	5	1.1, 1.3*	
	2.5	2.3	0.14	0	3	-	-10 140	FKM FDA	131WH1525	8993	481180	4	-	1.1, 1.3*	

* 1.3 Coil group solution applicable in AC voltages only



Drawing 13



Drawing 14



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2 WAY VALVES

NOTES

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. A vertical margin line is present on the left side, creating a narrow left margin. The paper appears to be part of a notebook or binder, as evidenced by the orange binding visible at the top edge. The paper is otherwise blank, with no handwriting or other markings.

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2 WAY VALVES

VALVES FOR BEVERAGE
DISPENSING AND LIQUIPURE®



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	LLB Brass/Pipe Mounting	Normally Closed	1/8"	1.0 to 3	0.5 a 4.5	20	140	222
			1/4"	1.5 to 5	1.5 a 9.5	20	140	224
	LLB Brass/Sub-base Mounting	Normally Closed	SB	1.5 to 3	1.4 a 3.4	20	140	224
	Stainless ST/Sub-base Mounting	Normally Closed	SB	1.5 to 3	4.2	20	140	226

Food Compliance: NSF 169 certified, 1935/2004/CE



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

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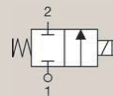
VALVES FOR BEVERAGE DISPENSING DIRECT OPERATED

2 WAY VALVES



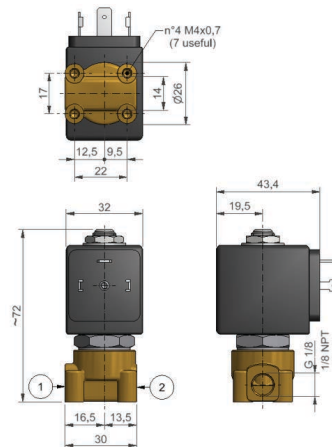
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1	0.7	8.5	-10
To	1/8"	3	4.5	20	140

CW510L BRASS BODY PIPE MOUNTING



NORMALLY CLOSED

Port Size	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv l/min	KV m³/h	Min. Bar	Max. (MOPD) AC bar	DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
G1/8"	1.0	0.7	0.04	0	20	18	-10	140	FKM FDA	121ZH1010	2995	481865	9	10	2.0	1
	1.5	1.5	0.09	0	20	18	-10	140	FKM FDA	121ZH1015	2995	481865	9	10	2.0	
	2.0	2.6	0.16	0	20	15	-10	140	FKM FDA	121ZH1020	2995	481865	9	10	2.0	
	2.5	3.5	0.21	0	19	14.5	-10	140	FKM FDA	121ZH1025	2995	481865	9	10	2.0	
	3.0	4.5	0.27	0	13	8.5	-10	140	FKM FDA	121ZH1030	2995	481865	9	10	2.0	
	1.0	0.7	0.04	0	20	18	-10	140	Ruby	121ZH0010	2995	481865	9	10	2.0	
	1.5	1.5	0.09	0	20	18	-10	140	Ruby	121ZH0015	2995	481865	9	10	2.0	
	2.0	2.6	0.16	0	20	15	-10	140	Ruby	121ZH0020	2995	481865	9	10	2.0	
	2.5	3.5	0.21	0	19	14.5	-10	140	Ruby	121ZH0025	2995	481865	9	10	2.0	
	3.0	4.5	0.27	0	13	8.5	-10	140	Ruby	121ZH0030	2995	481865	9	10	2.0	
NPT 1/8"	1.0	0.7	0.04	0	20	18	-10	140	FKM FDA	U121ZH1010	2995	481865	9	10	2.0	
	1.5	1.5	0.09	0	20	18	-10	140	FKM FDA	U121ZH1015	2995	481865	9	10	2.0	
	2.0	2.6	0.16	0	20	15	-10	140	FKM FDA	U121ZH1020	2995	481865	9	10	2.0	
	2.5	3.5	0.21	0	19	14.5	-10	140	FKM FDA	U121ZH1025	2995	481865	9	10	2.0	
	3.0	4.5	0.27	0	13	8.5	-10	140	FKM FDA	U121ZH1030	2995	481865	9	10	2.0	
	1.0	0.7	0.04	0	20	18	-10	140	Ruby	U121ZH0010	2995	481865	9	10	2.0	
	1.5	1.5	0.09	0	20	18	-10	140	Ruby	U121ZH0015	2995	481865	9	10	2.0	
	2.0	2.6	0.16	0	20	15	-10	140	Ruby	U121ZH0020	2995	481865	9	10	2.0	
	2.5	3.5	0.21	0	19	14.5	-10	140	Ruby	U121ZH0025	2995	481865	9	10	2.0	
	3.0	4.5	0.27	0	13	8.5	-10	140	Ruby	U121ZH0030	2995	481865	9	10	2.0	



Drawing 1



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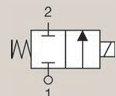
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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2/2

VALVES FOR BEVERAGE DISPENSING
DIRECT OPERATED

CW510L BRASS BODY
PIPE MOUNTING / FLANGED (SB)



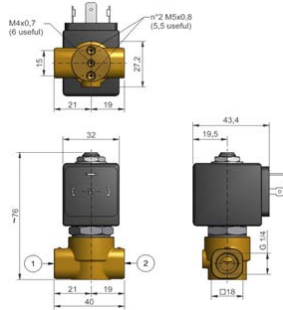
NORMALLY CLOSED

Port Size	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv l/min	Kv m³/h	Min. Bar	Max. (MOPD) AC bar	DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
G1/4"	1.5	1.5	0.09	0	20	18	-10	140	FKM FDA	121KH1015	2995	481865	9	10	2.0	1
	2.0	2.6	0.16	0	20	15	-10	140	FKM FDA	121KH1020	2995	481865	9	10	2.0	
	2.5	3.5	0.21	0	19	14.5	-10	140	FKM FDA	121KH1025	2995	481865	9	10	2.0	
	3.0	4.5	0.27	0	13	8.5	-10	140	FKM FDA	121KH1030	2995	481865	9	10	2.0	
	4.0	5.5	0.33	0	9	6	-10	140	FKM FDA	121KH1040	2995	481865	9	10	2.0	
	5.0	9.5	0.57	0	2.5	2	-10	140	FKM FDA	121KH1050	2995	481865	9	10	2.0	2
	1.5	1.5	0.09	0	20	18	-10	140	Ruby	121KH0015	2995	481865	9	10	2.0	
	2.0	2.6	0.16	0	20	15	-10	140	Ruby	121KH0020	2995	481865	9	10	2.0	
	2.5	3.5	0.21	0	19	14.5	-10	140	Ruby	121KH0025	2995	481865	9	10	2.0	
	3.0	4.5	0.27	0	13	8.5	-10	140	Ruby	121KH0030	2995	481865	9	10	2.0	
SB	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	121FH1015	2995	481865	9	10	2.0	3
	2.0	2.3	0.14	0	20	20	-10	140	FKM FDA	121FH1020	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	20	14	-10	140	FKM FDA	121FH1025	2995	481865	9	10	2.0	
	3.0	3.4	0.2	0	17	10	-10	140	FKM FDA	121FH1030	2995	481865	9	10	2.0	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	121FH0015	2995	481865	9	10	2.0	
	2.0	2.3	0.14	0	20	20	-10	140	Ruby	121FH0020	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	20	14	-10	140	Ruby	121FH0025	2995	481865	9	10	2.0	
	3.0	3.4	0.2	0	17	10	-10	140	Ruby	121FH0030	2995	481865	9	10	2.0	

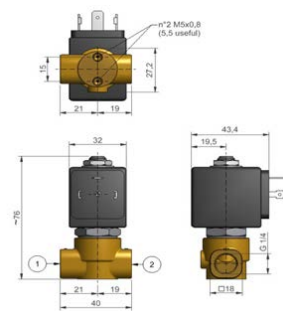


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	1.5	1.5	2	-10
To	1/4"	4	9.5	20	140
From	SB	1.5	1.4	10	-10
To	SB	3	3.4	20	140

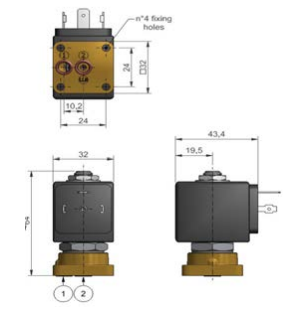
2 WAY VALVES



Drawing 1



Drawing 2



Drawing 3



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2 WAY VALVES

2/2

VALVES FOR BEVERAGE DISPENSING DIRECT OPERATED



For this page From	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
	1/8"	1.5	0.83	15	-10/+140

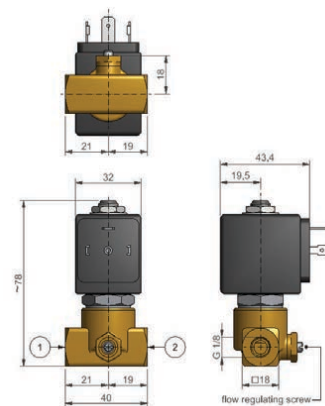
CW510L BRASS BODY
PIPE MOUNTING



NORMALLY CLOSED

Port Size	Orifice Ø	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv	CV	Min.	Max. (MOPD)		Min.	Max.		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
G1/8"	1.5	0.83	0.05	0	15	15	-10	140	FDA FKM	121KH1465	2995	481865	9	10	2.0	11

Valve with manual calibration of the flow rate



Drawing 11



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General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2/2

VALVES FOR BEVERAGE DISPENSING -
LIQUIPURE®
DIRECT OPERATED

STAINLESS ST.
FLANGED (SB)

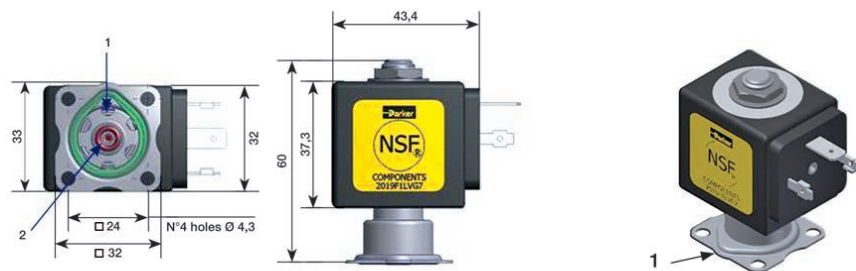
NORMALLY CLOSED

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



Drawing 071



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General Catalogue FCSE/0112/UK V3 04/2026



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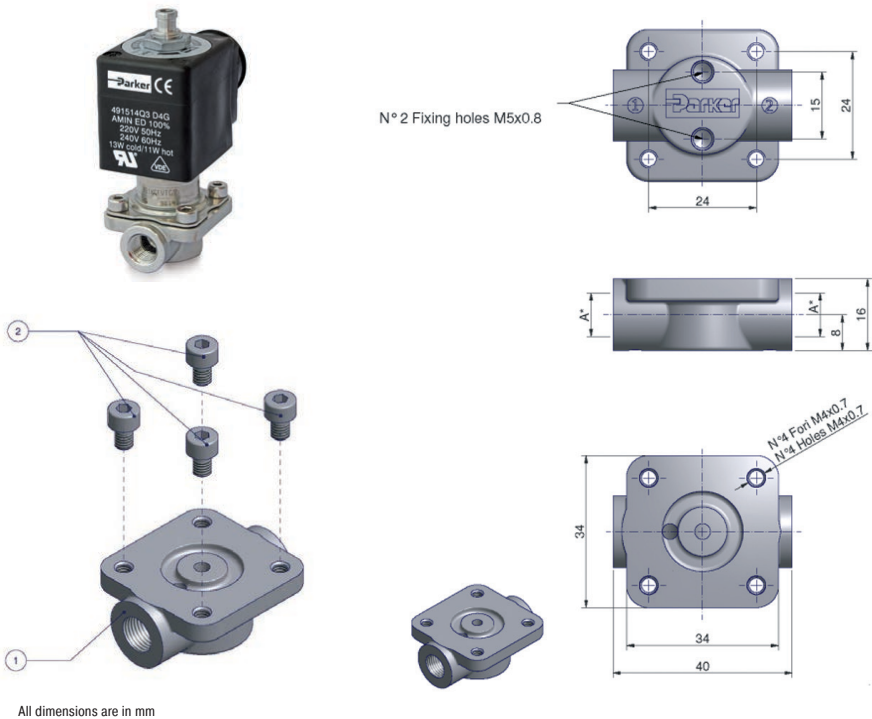
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

SUB-BASES FOR LIQUIPURE VALVES

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



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General Catalogue FCSE/0112/UK V3 04/2026

NOTES

Blank area for notes.



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

NOTES

[illegible]

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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES



VALVES FOR BEVERAGE DISPENSING
AND LIQUIPURE®

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Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valve
Direct Operated	Stainless St/Pipe Mounting	Normally Closed	1/8"	1.5 to 2.5	0.5 to 2.3	8	140	234
			1/4"	1.5 to 3	1 to 4.5	8	140	236
	LLB Brass/Pipe Mounting	Normally Closed	1/8"	1.5 to 3	1.4 to 3.7	20	140	238
			1/4"	1.5 to 5	1.4 to 4.3	20	140	238
	LLB Brass/Sub-Base Mounting	Normally Closed	SB	1.5 to 3	1.3 to 3.7	20	140	238
	Stainless St./Sub-base Mounting	Normally Closed	SB	1.5 to 5	7.2	14	140	240

Food Compliance: NSF 169 certified, 1935/2004/CE



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

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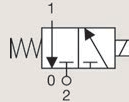
VALVES FOR BEVERAGE DISPENSING

DIRECT OPERATED

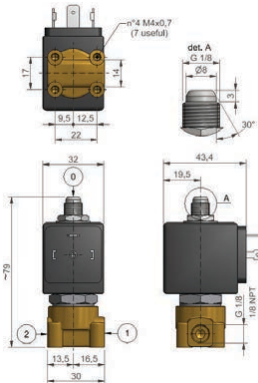


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1.5	1.4	6	-10
To	1/8"	3	3.7	20	140

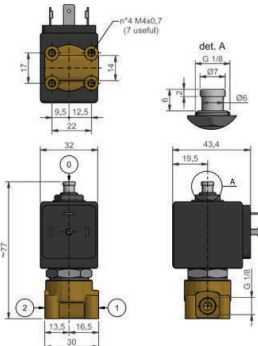
CW510L BRASS BODY
PIPE MOUNTING
NORMALLY CLOSED



Port Size	Orifice Ø	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv	KV	Min.	Max.	Max. (MOPD)	Min.	Max.		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
mm	mm	l/min	m³/h	Bar	AC bar	DC bar	°C	°C								
G1/8"	1.5	1.4	0.08	0	20	20	-10	140	FDA FKM	131ZH1115	2995	481865	9	10	2.0	5
	2.0	2.0	0.12	0	14	14	-10	140	FDA FKM	131ZH1120	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	FDA FKM	131ZH1125	2995	481865	9	10	2.0	
	3.0	3.7	0.22	0	6	6	-10	140	FDA FKM	131ZH1130	2995	481865	9	10	2.0	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	131ZH0115	2995	481865	9	10	2.0	
	2.0	2.0	0.12	0	14	14	-10	140	Ruby	131ZH0120	2995	492425	9	8	2.0	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	Ruby	131ZH0125	2995	481865	9	10	2.0	
	3.0	3.7	0.22	0	6	6	-10	140	Ruby	131ZH0130	2995	481865	9	10	2.0	
G1/8"	1.5	1.4	0.10	0	20	20	-10	140	FDA FKM	131ZH1315	2995	481865	9	10	2.0	6
	2.0	2.0	0.10	0	14	14	-10	140	FDA FKM	131ZH1320	2995	481865	9	10	2.0	
	2.5	3.0	0.20	0	8.5	8.5	-10	140	FDA FKM	131ZH1325	2995	481865	9	10	2.0	
	3.0	3.7	0.20	0	6	6	-10	140	FDA FKM	131ZH1330	2995	481865	9	10	2.0	
	1.5	1.4	0.1	0	20	20	-10	140	Ruby	131ZH0315	2995	481865	9	10	2.0	
	2.0	2.0	0.1	0	14	14	-10	140	Ruby	131ZH0320	2995	481865	9	10	2.0	
	2.5	3.0	0.2	0	8.5	8.5	-10	140	Ruby	131ZH0325	2995	481865	9	10	2.0	
	3.0	3.7	0.2	0	6	6	-10	140	Ruby	131ZH0330	2995	481865	9	10	2.0	
NPT 1/8"	1.5	1.4	0.08	0	20	20	-10	140	FDA FKM	U131ZH1115	2995	481865	9	10	2.0	5
	2.0	2.0	0.12	0	14	14	-10	140	FDA FKM	U131ZH1120	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	FDA FKM	U131ZH1125	2995	481865	9	10	2.0	
	3.0	3.7	0.22	0	6	6	-10	140	FDA FKM	U131ZH1130	2995	481865	9	10	2.0	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	U131ZH0115	2995	481865	9	10	2.0	
	2.0	2.0	0.12	0	14	14	-10	140	Ruby	U131ZH0120	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	Ruby	U131ZH0125	2995	481865	9	10	2.0	
	3.0	3.7	0.22	0	6	6	-10	140	Ruby	U131ZH0130	2995	481865	9	10	2.0	



Drawing 5



Drawing 6



3 WAY VALVES

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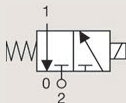
VALVES FOR BEVERAGE DISPENSING
DIRECT OPERATED



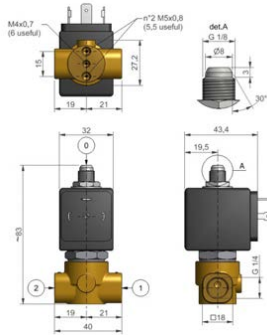
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	1.5	1.4	2	-10
To	1/8"	3	3.7	20	140

CW510L BRASS BODY
PIPE MOUNTING

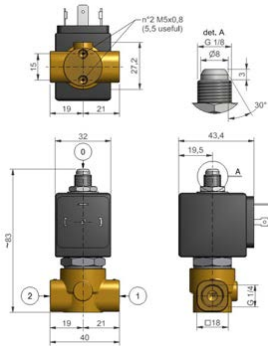
NORMALLY CLOSED



Port Size	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv l/min	Kv m³/h	Min. Bar	Max. (MOPD) AC bar	DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
G1/4"	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	131KH1115	2995	481865	9	10	2.0	7
	2.0	2.0	0.12	0	14	14	-10	140	FKM FDA	131KH1120	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	FKM FDA	131KH1125	2995	481865	9	10	2.0	
	3.0	3.7	0.22	0	6	6	-10	140	FKM FDA	131KH1130	2995	481865	9	10	2.0	
	4.0	5.2	0.31	0	3.5	3.5	-10	140	FKM FDA	131KH1140	2995	481865	9	10	2.0	8
	5.0	9.3	0.56	0	2	2	-10	140	FKM FDA	131KH1150	2995	492425	14	14	2.0	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	131KH0115	2995	481865	9	10	2.0	7
	2.0	2.0	0.12	0	14	14	-10	140	Ruby	131KH0120	2995	481865	9	10	2.0	
	2.5	3.0	0.18	0	8.5	8.5	-10	140	Ruby	131KH0125	2995	481865	9	10	2.0	
	3.0	3.7	0.22	0	6	6	-10	140	Ruby	131KH0130	2995	481865	9	10	2.0	



Drawing 7



Drawing 8



3 WAY VALVES

3/2

VALVES FOR BEVERAGE DISPENSING -

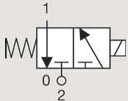
DIRECT OPERATED



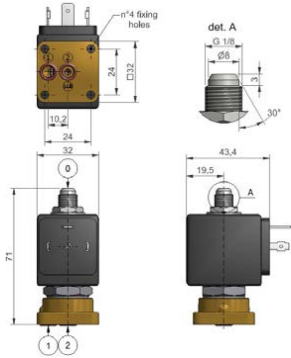
For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	1.5	1.3	7.5	-10
To	SB	3	3	20	140

CW510L BRASS BODY
FLANGED (SB)

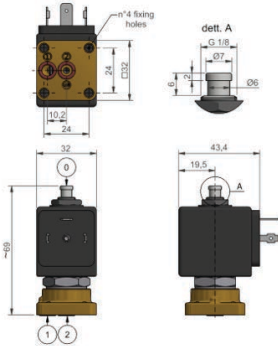
NORMALLY CLOSED



Port Size	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv l/min	Kv m³/h	Min. Bar	Max. (MOPD) AC bar	Max. (MOPD) DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
SB	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	131FH1115	2995	481865	9	10	2.0	9
	2.0	2.0	0.12	0	15	15	-10	140	FKM FDA	131FH1120	2995	481865	9	10	2.0	
	2.5	3.0	0.16	0	10	10	-10	140	FKM FDA	131FH1125	2995	481865	9	10	2.0	
	3.0	3.7	0.18	0	7.5	7.5	-10	140	FKM FDA	131FH1130	2995	481865	9	10	2.0	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	131FH0115	2995	481865	9	10	2.0	
	2.0	2.0	0.12	0	15	15	-10	140	Ruby	131FH0120	2995	481865	9	10	2.0	
	2.5	3.0	0.16	0	10	10	-10	140	Ruby	131FH0125	2995	481865	9	10	2.0	
SB	3.0	3.7	0.18	0	7.5	7.5	-10	140	Ruby	131FH0130	2995	481865	9	10	2.0	10
	1.5	1.4	0.08	0	20	20	-10	140	FKM FDA	131FH1315	2995	481865	9	10	2.0	
	2.0	2.0	0.12	0	15	15	-10	140	FKM FDA	131FH1320	2995	481865	9	10	2.0	
	2.5	3.0	0.16	0	10	10	-10	140	FKM FDA	131FH1325	2995	481865	9	10	2.0	
	3.0	3.7	0.18	0	7.5	7.5	-10	140	FKM FDA	131FH1330	2995	481865	9	10	2.0	
	1.5	1.4	0.08	0	20	20	-10	140	Ruby	131FH0315	2995	481865	9	10	2.0	
	2.0	2.0	0.12	0	15	15	-10	140	Ruby	131FH0320	2995	481865	9	10	2.0	
SB	2.5	3.0	0.16	0	10	10	-10	140	Ruby	131FH0325	2995	481865	9	10	2.0	
	3.0	3.7	0.18	0	7.5	7.5	-10	140	Ruby	131FH0330	2995	481865	9	10	2.0	



Drawing 9



Drawing 10



3 WAY VALVES

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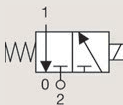
VALVES FOR BEVERAGE DISPENSING -
LIQUIPURE®
DIRECT OPERATED



For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	1.5	1.3	2	-10
To	SB	5	7.2	14	140

STAINLESS ST.
FLANGED (SB)

NORMALLY CLOSED

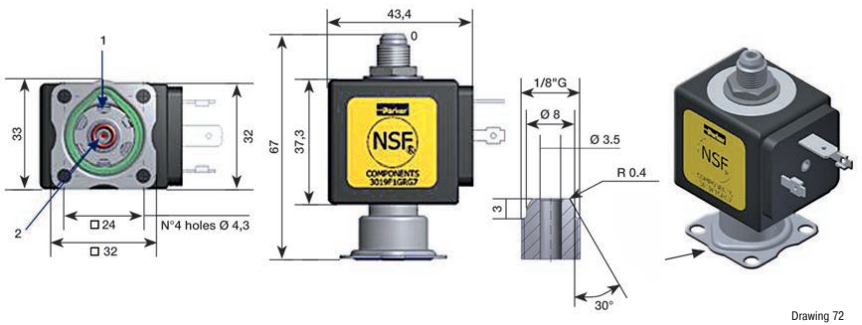


Port size	Orifice Ø		Flow factors				Operating Pressure Differential		Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.	Compatible adapter kit	
	1	(2)	(1)	(2)	1	(2)	Min	Max (MOPD)	Min	Max		Valve Ref.	Hou Ref.	Coil Ref.	AC W	DC W				
BSP	mm		Kv l/min		Kv m³/h		bar	AC bar	DC bar	°C	°C									
SB	1.5	2.5	1.3	2.9	0.08	0.17	0	14	14	-10	140	Ruby	3019F1GRG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	1.5	2.5	1.3	2.9	0.08	0.17	0	14	14	-10	140	FKM FDA	3019F1GVG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	2	2.5	2.2	2.9	0.13	0.17	0	10	10	-10	140	Ruby	3019F1JRG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	2	2.5	2.2	2.9	0.13	0.17	0	10	10	-10	140	FKM FDA	3019F1JVG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	2	2.5	2.2	2.9	0.13	0.17	0	10	10	-10	140	Ruby	301XGFRJTJ7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	2.5	2.5	2.8	2.9	0.17	0.17	0	6.5	6.5	-10	140	Ruby	3019F1LRG7	-	481865	9	10	2.0	72	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	9	10	2.0	72	XGSPG1-XGSPG2
	3	2.5	3.3	2.9	0.2	0.17	0	4	4	-10	140	Ruby	3019F1NRG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	3	2.5	3.3	2.9	0.2	0.17	0	4	4	-10	140	FKM FDA	3019F1NVG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
	4	2.5	6.5	2.9	0.39	0.17	0	3	3	-10	140	FKM FDA	3019F1QVG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2
4	4.0	6.5	2.9	0.39	0.17	0	3	3	-10	140	EPDM	3019F1QEG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2	
5	2.5	7.2	2.9	0.43	0.17	0	2	2	-10	140	FKM FDA	3019F1SVG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2	
5	5.0	7.2	2.9	0.43	0.17	0	2	2	-10	140	EPDM	3019F1SEG7	-	481865	9	10	2.0	72	XGSPG1-XGSPG2	

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

Notes:

1. NSF Certified



Drawing 72



3 WAY VALVES

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VALVES FOR BEVERAGE DISPENSING - LIQUIPURE® DIRECT OPERATED

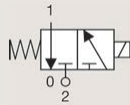


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	1.5	1.4	2	-10
To	SB	3	3.3	9.5	140

3 WAY VALVES

STAINLESS ST.
FLANGED (SB)

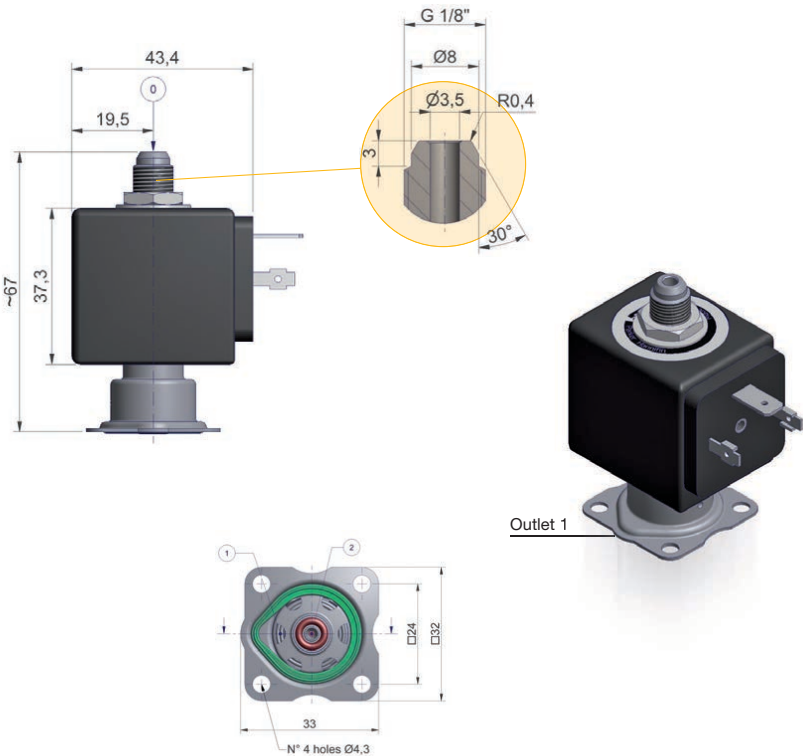
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Compatible adapter kit		
		1	(2)	1	(2)	Min	Max (MOPD)	Max	Min		Max	Valve Ref.	Hou 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	1.5	1.4	0.08	1.3	0.8	0	9.5	9.5	-10	140	FKM FDA	3039F1GVG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	1.5	1.5	1.4	0.08	1.3	0.08	0	9.5	9.5	-10	140	EPDM	3039F1GEG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	0.13	2.0	0.12	0	3.5	3.5	-10	140	FKM FDA	3039F1JVG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	2.0	2.0	2.1	0.13	2.0	0.12	0	3.5	3.5	-10	140	EPDM	3039F1JEG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	0.17	2.8	0.17	0	2	2	-10	140	FKM FDA	3039F1LVG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	2.5	2.5	2.8	0.17	2.8	0.168	0	2	2	-10	140	EPDM	3039F1LEG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	0.2	2.8	0.17	0	2	2	-10	140	FKM FDA	3039F1NVG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2
	3.0	2.5	3.3	0.2	2.8	0.168	0	2	2	-10	140	EPDM	3039F1NEG7	-	481865	9	10	2.0	XGSPG1 - XGSPG2

Nominal Pressure = 20 bar
Important: pressure vessels included in this page are supplied with the standard 2995 housing integrated.

Notes:
1. NSF Certified



All dimensions are in mm



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



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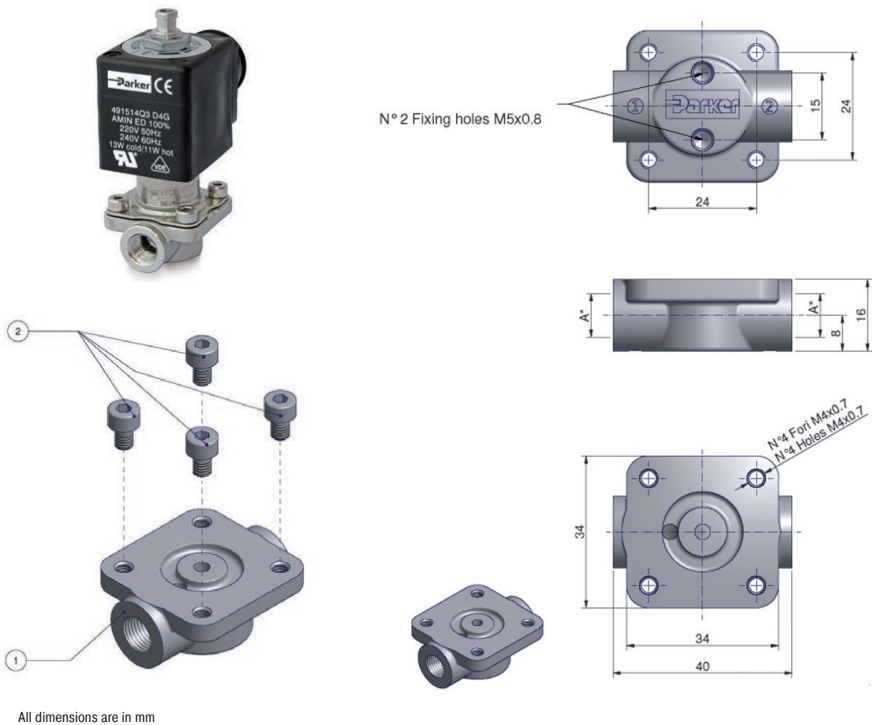
Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

VALVES FOR BEVERAGE DISPENSING - LIQUIPURE®

SUB-BASES FOR LIQUIPURE VALVES

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



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General Catalogue FCSE/0112/UK V3 04/2026

NOTES

Blank lined area for notes.



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General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

NOTES

[illegible]

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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

TECHNOPOLYMER VALVES



2/2

Action	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Page Parker Valves
Direct Operated	Technopolymer/Pipe mounting	Normally Closed	4 to 6mm	1.2 to 2.5	0.7 to 2.3	15	145	248
	Technopolymer/Cartridge	Normally Closed	4 to 6mm	1.2	0.7 to 2.3	15	145	250

Food Compliance: NSF 169 certified, 1935/2004/CE



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

2 WAY VALVES

2 WAY VALVES

2/2

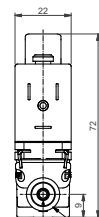
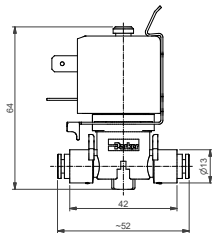
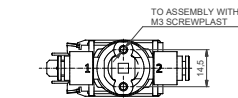
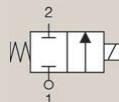
TECHNOPOLYMER VALVES
DIRECT OPERATED



TECHNOPOLYMER
PIPE MOUNTING

NORMALLY CLOSED

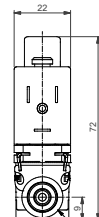
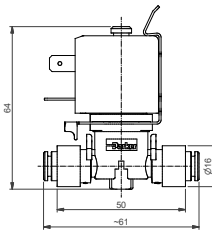
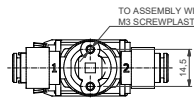
Port Size (PTC)	Orifice Ø mm	Flow Factors Kv l/min m³/h		Operating Pressure Differential Min. Bar Max. (MOPD) AC bar DC bar			Fluid Temperature Min. °C Max. °C		Seat Seal	Parker Valves			Power AC W DC W		Coil Group	Dwg N°
										Valve Ref.	Housing Ref.	Coil Ref.				
4.0 mm	1.2	0.7	0.04	0	15	12	-10	145	FKM FDA	121Q0112	1878	497510	4.5	9.3	1.2	1
	1.5	1	0.06	0	15	10	-10	145	FKM FDA	121Q0115	1878	497510	4.5	9.3	1.2	
	2.5	2.3	0.14	0	10	4	-10	145	FKM FDA	121Q0125	1878	497510	4.5	9.3	1.2	
6.0 mm	1.2	0.7	0.04	0	15	12	-10	145	FKM FDA	121Q0512	1878	497510	4.5	9.3	1.2	2
	1.5	1	0.06	0	15	10	-10	145	FKM FDA	121Q0515	1878	497510	4.5	9.3	1.2	
	2.5	2.3	0.14	0	10	4	-10	145	FKM FDA	121Q0525	1878	497510	4.5	9.3	1.2	



MODEL 121Q01:
CONNECTION
PIPES Ø4 [mm]



Drawing 1



MODEL 121Q05:
CONNECTION
PIPES Ø6 [mm]



Drawing 2



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2 WAY VALVES

2 WAY VALVES

2/2

TECHNOPOLYMER VALVES

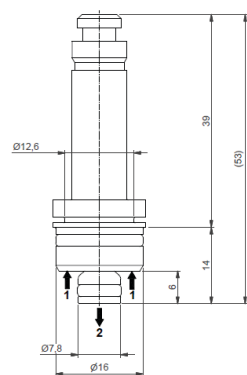
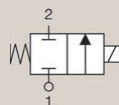
DIRECT OPERATED



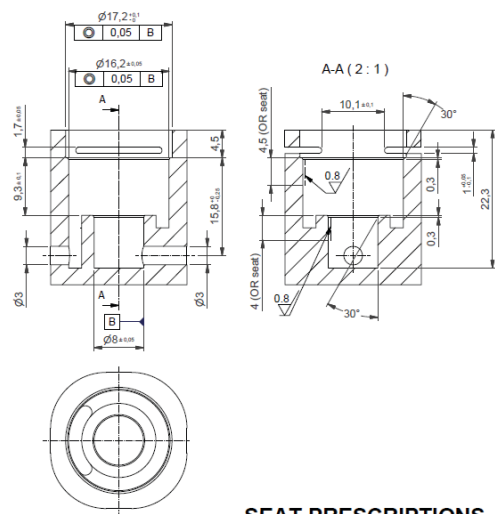
TECHNOPOLYMER CARTRIDGE

NORMALLY CLOSED

Port Size (PTC)	Orifice Ø mm	Flow Factors		Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		Kv	CV	Min.	Max. (MOPD)	Max.	Min.	Max.		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
		l/min	m³/h	Bar	AC bar	DC bar	°C	°C								
	1.2	0.7	0.042	0	15	12	-10	145	FKM FDA	121C0712	1878	497510	4.5	9.3	1.2	
Cartridge	1.5	1	0.06	0	15	10	-10	145	FKM FDA	121C0715	1878	497510	4.5	9.3	1.2	7
	2.5	2.3	0.138	0	10	4	-10	145	FKM FDA	121C0725	1878	497510	4.5	9.3	1.2	



Drawing 7



SEAT PRESCRIPTIONS



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3 WAY VALVES

NOTES

[illegible]

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3 WAY VALVES

TECHNOPOLYMER VALVES



3/2

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)	Part Number
Direct Operated	Technopolymer/Pipe mounting	Normally Closed	4 to 6mm	1.2 to 2.5	0.7 to 2.3	14	145	25600000
Direct Operated	Technopolymer/Cartridge	Normally Closed	4 to 6mm	1.2 to 2.5	0.7 to 2.3	14	145	25600001

Food Compliance: NSF 169 certified. 1935/2004/CE



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General Catalogue FCSE/0112/UK V3 04/2026

3 WAY VALVES

3/2

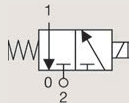
TECHNOPOLYMER VALVES
DIRECT OPERATED

3 WAY VALVES

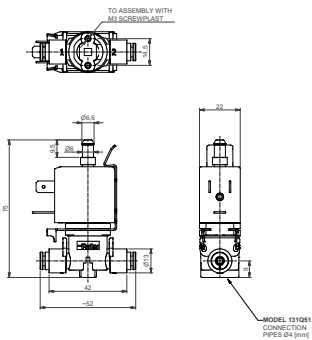


TECHNOPOLYMER
PIPE MOUNTING

NORMALLY CLOSED



Port Size (PTC)	Discharge Port Spec	Orifice Ø		Flow Factors				Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		1 mm	(2) mm	Kv l/min	Kv m³/h	Kv l/min	Kv m³/h	Min. Bar	Max. (MOPD) AC bar	Max. (MOPD) DC bar	Min. °C	Max. °C		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
4.0 mm	Ø 6.0mm barb fitting	1.2	1.6	0.7	1.1	0.04	0.066	0	14	14	-10	145	FKM FDA	131Q5112	1878	497510	4.5	9.3	1.2	3
		1.5	1.6	1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131Q5115	1878	497510	4.5	9.3	1.2	
		2.5	1.6	2.3	1.1	0.14	0.066	0	3	3	-10	145	FKM FDA	131Q5125	1878	497510	4.5	9.3	1.2	
	Ø 6.0mm type C	1.2	1.6	0.7	1.1	0.04	0.066	0	14	14	-10	145	FKM FDA	131Q7112	1878	497510	4.5	9.3	1.2	4
		1.5	1.6	1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131Q7115	1878	497510	4.5	9.3	1.2	
		2.5	1.6	2.3	1.1	1.38	0.066	0	3	3	-10	145	FKM FDA	131Q7125	1878	497510	4.5	9.3	1.2	
6.0 mm	Ø 6.0mm barb fitting	1.2	1.6	0.7	1.1	0.04	0.066	0	14	14	-10	145	FKM FDA	131Q5512	1878	497510	4.5	9.3	1.2	5
		1.5	1.6	1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131Q5515	1878	497510	4.5	9.3	1.2	
		2.5	1.6	2.3	1.1	1.38	0.066	0	3	3	-10	145	FKM FDA	131Q5525	1878	497510	4.5	9.3	1.2	
	Ø 6.0mm type C	1.2	1.6	0.7	1.1	0.04	0.066	0	14	14	-10	145	FKM FDA	131Q7512	1878	497510	4.5	9.3	1.2	6
		1.5	1.6	1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131Q7515	1878	497510	4.5	9.3	1.2	
		2.5	1.6	2.3	1.1	0.14	0.066	0	3	3	-10	145	FKM FDA	131Q7525	1878	497510	4.5	9.3	1.2	

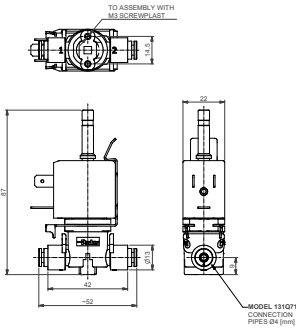


Drawing 3

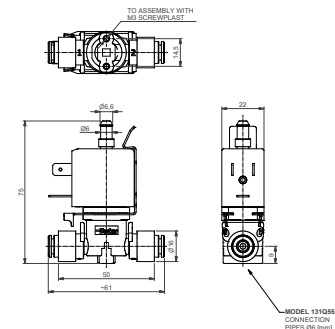


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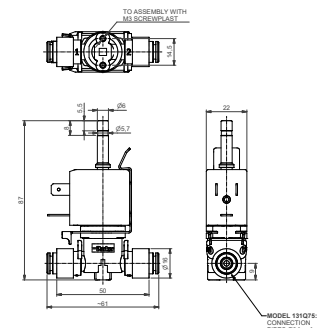
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Drawing 4



Drawing 5



Drawing 6



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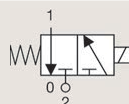
3 WAY VALVES

3/2

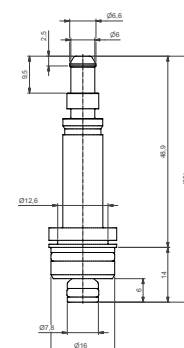
TECHNOPOLYMER VALVES
DIRECT OPERATED

TECHNOPOLYMER
CARTRIDGE

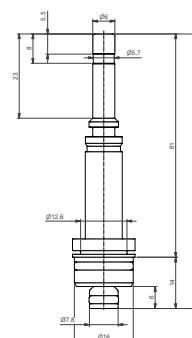
NORMALLY CLOSED



Port Size (PTC)	Discharge Port Spec	Orifice Ø		Flow Factors				Operating Pressure Differential			Fluid Temperature		Seat Seal	Parker Valves			Power		Coil Group	Dwg N°
		1	(2)	Kv	Kv	KV	KV	Min.	Max. (MOPD)	Min.	Max.	Valve Ref.		Housing Ref.	Coil Ref.	AC W	DC W			
		mm	mm	/min	/min	m³/h	m³/h	Bar	AC bar	DC bar	°C							°C		
Cartridge	Ø 6.0mm barb fitting	1.2	1.6	0.7	1.1	0.042	0.066	0	14	14	-10	145	FKM FDA	131C5712	1878	497510	4.5	9.3	1.2	8
		1.5	1.6	1.1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131C5715	1878	497510	4.5	9.3	1.2	
		2.5	1.6	2.3	1.1	0.138	0.066	0	3	3	-10	145	FKM FDA	131C5725	1878	497510	4.5	9.3	1.2	
	1.2	1.6	0.7	1.1	0.04	0.066	0	14	14	-10	145	FKM FDA	131C7712	1878	497510	4.5	9.3	1.2		
	1.5	1.6	1.1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131C7715	1878	497510	4.5	9.3	1.2		
	2.5	1.6	2.3	1.1	0.138	0.066	0	3	3	-10	145	FKM FDA	131C7725	1878	497510	4.5	9.3	1.2		
Ø 6.0mm type C		1.2	1.6	0.7	1.1	0.04	0.066	0	14	14	-10	145	FKM FDA	131C7712	1878	497510	4.5	9.3	1.2	9
		1.5	1.6	1.1	1.1	0.06	0.066	0	8	8	-10	145	FKM FDA	131C7715	1878	497510	4.5	9.3	1.2	
		2.5	1.6	2.3	1.1	0.138	0.066	0	3	3	-10	145	FKM FDA	131C7725	1878	497510	4.5	9.3	1.2	



Drawing 8



Drawing 9

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

2 & 3 WAY VALVES FOR TRANSPORTATION

NOTES



2 WAY VALVES
FOR TRANSPORTATION



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	262
	Brass/Barb Fitting	Normally Closed	10 mm	11	12	3	90	262
	Brass/Pipe Mounting	Normally Closed	1/2"	11	36	3	90	264
			12.7 mm	11	33	3	90	264
			15.9 mm	11	36	3	90	264

2 WAY VALVES FOR TRANSPORTATION

2/2

2 WAY VALVES FOR TRANSPORTATION

PILOT OPERATED

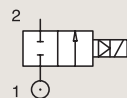


For this page	Port size	Orifice (mm)	Kv (l/min)	MOPD (bar)	Fluid Temp (°C)
From	10 mm	11	12	3	-40
To	10 mm	11	12	3	90

BRASS

QUICK COUPLING

NORMALLY CLOSED

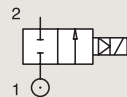


Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Voltage	Power		Coil Group	Dwg. No.
								Min	Max							AC W		
		mm	Kv l/min	KV m³/h	Qn l/min	bar	AC bar	DC bar	°C						°C			
10 mm	11	12	0.72	-	0.2	-	3	-40	90	EPDM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

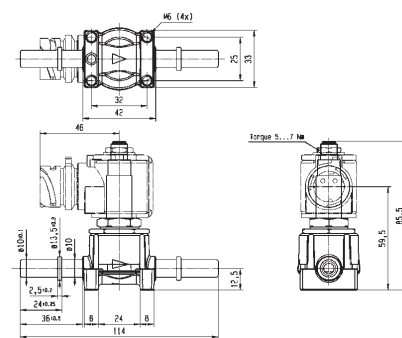
BRASS

BARB FITTING

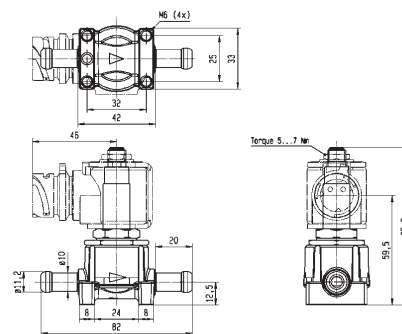
NORMALLY CLOSED



Port size	Orifice Ø	Flow factors			Operating Pressure Differential Max(MOPD)			Fluid Temp.		Seat Seal				Voltage	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		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



Drawing 8242



Drawing 8241



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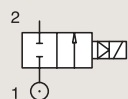
2/2

2 WAY VALVES FOR TRANSPORTATION

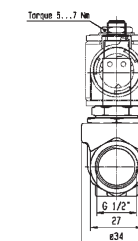
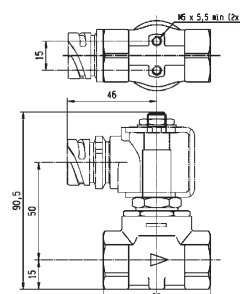
BRASS

PIPE MOUNTING

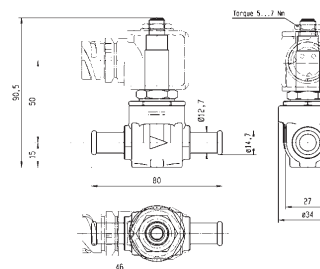
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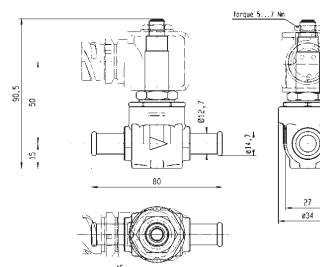
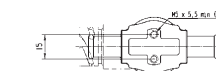
Port size	Office Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal				Voltage	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min bar	Max(MOPD)		Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.		AC W	DC W		
						AC bar	DC bar											
1/2" BSP	11	36	2.16	-	0.2	-	3	-40	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



Drawing 8238



Drawing 8282



Drawing 8281

2 & 3 WAY VALVES FOR TRANSPORTATION

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	-	26

3 WAY VALVES FOR TRANSPORTATION

3/2

3 WAY VALVES FOR TRANSPORTATION DIRECT OPERATED



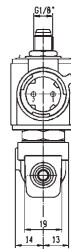
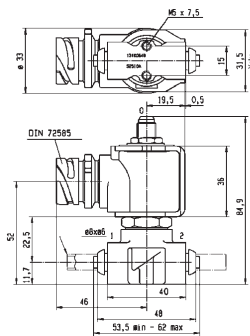
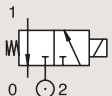
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1.8	110	8	-30
To	1/8"	1.8	110	8	80

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					AC W	DC W		
BSP			Qn l/min	bar	AC bar	DC bar	°C	°C								
	mm															
1/8"	1.8	1.5	110	0	-	8	-30	80	TPE/PVDF	131K0648	2161	495294	-	9	13.0	7872
	1.8	1.5	110	0	-	8	-30	80	TPE/PVDF	131K0648	2161	496193	-	9	13.0	7872



Drawing 7872



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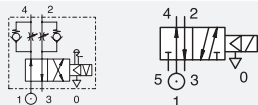
5 WAY VALVES

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



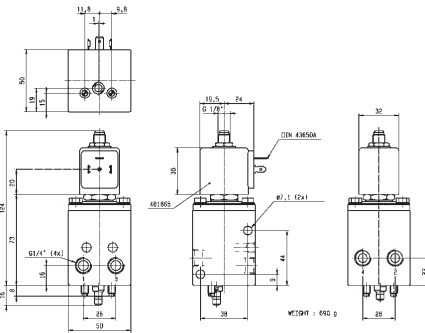
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8-1/4"	6	560	10	-25
To	1/4"	8	640	40	75

ANODIZED ALUMINIUM
PIPE MOUNTING
SPRING RETURN

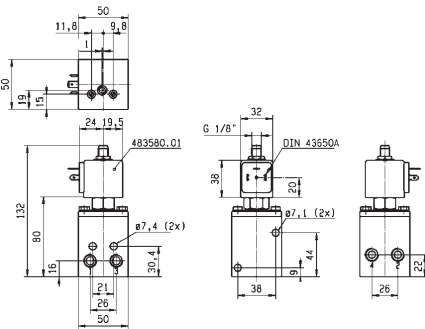


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max						AC W	DC W		
BSP	6	630	1	10	10	-10	75	NBR	341B34 ₂	4270	481000	8	8		2.0	3286
	6	630	1	10	10	-10	75	NBR	341B34 ₂	2995	481865	9	10		2.0	3286
	6	630	1	10	10	-10	75	NBR	341B34 ₂	4270	486265	14	14		2.0	3286
	6	630	1	10	10	-10	75	NBR	341B3403 ₃	4270	481000	8	8		2.1	3286
	6	630	1	10	10	-10	75	NBR	341B3403 ₃	2995	481865	9	10		2.0	3286
	6	560	1	-	10	-10	55	NBR	341B3490 ₄	2995	48358001	*	-	0.5-3	6.0/7.0/8.0	3561
	6	560	1	-	10	-10	75	NBR	341B3490 ₄	-	495910	*	-	0.3-1.2	6.0/7.0/8.0	3561
	6	630	1	10	10	-25	75	PUR	341B3440 ₂	4270	481000	8	8		2.1	3286
1/4"	6	630	1	10	10	-25	75	PUR	341B3440 ₂	2995	481865	9	10		2.0	3286
	8	640	1	40	40	-10	75	NBR	341B02 ₁	4270	481000	8	8		2.1	8115
	8	640	1	40	40	-10	75	NBR	341B02 ₁	2995	481865	9	10		2.0	8115

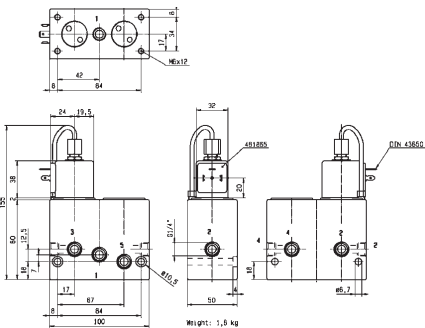
- Notes:
1.Valve with pilot return pipe on exhaust port
2.With Flow regulator & manual override
3.With manual override
4.With flow regulator



Drawing 3286



Drawing 3561



Drawing 8115



5 WAY VALVES

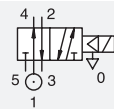
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

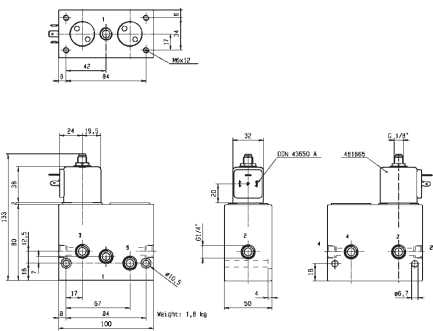
ANODIZED ALUMINIUM
PIPE MOUNTING

SPRING RETURN

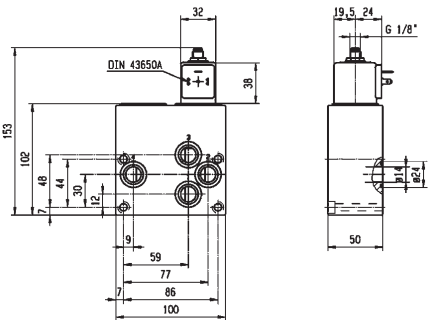


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max					AC W	DC W		
1/4"	8	1000	1	15	15	-10	75	NBR	E341B01	2995	481865	9	10	2.0	3309
	8	1000	1	15	15	-10	75	NBR	E341B01	4270	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	E341F21 ₁	2995	481865	9	10	2.0	3315
	14	2500	1	15	15	-10	65	NBR	E341F21 ₁	-	483371	8	8	2.1	3315

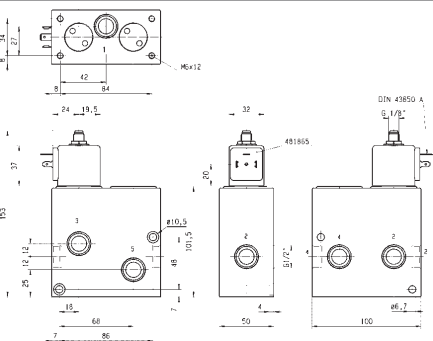
Notes:
1. Valve only compatible with air and neutral gases



Drawing 3309



Drawing 3310



Drawing 3315



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5 WAY VALVES

5/2

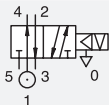
5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

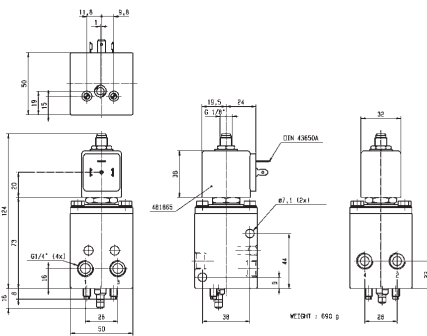
ANODIZED ALUMINIUM
PIPE MOUNTING

CONTROL BY ELECTRIC IMPULSE

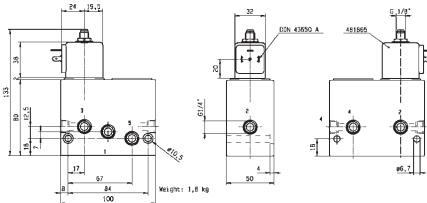
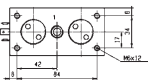


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
1/8-1/4"	6	630	1	10	-	-10	75	NBR	345B34 ₁₂	4269	484990	11	-	4.0	3286
	6	630	1	-	10	-10	75	NBR	345B34 ₁₂	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

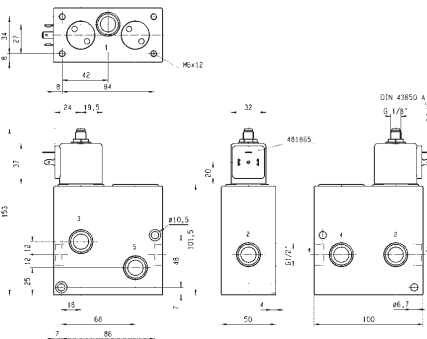
Notes:
1.Valve only compatible with air and neutral gases
2.With flow regulator e manual override



Drawing 3286



Drawing 3309



Drawing 3315



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5 WAY VALVES

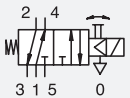
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

ANODIZED ALUMINIUM
PIPE MOUNTING

SPRING RETURN

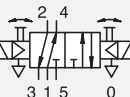


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
1/8"	4	400	1	10	10	-10	65	NBR	341L9101 ₁	-	482605	4	5	1.1	3894
	4	400	1	10	10	-10	65	NBR	341L9101 ₁	-	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

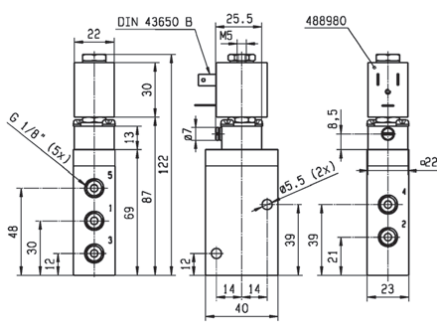
ANODIZED ALUMINIUM
PIPE MOUNTING

DUAL SOLENOIDS

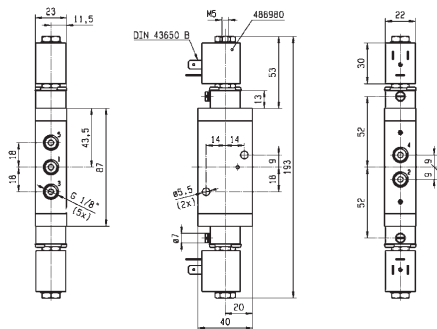


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
1/8"	4	315	2	10	10	-10	65	NBR	347L9101 ₁	-	482605	4	5	1.1	3896
	4	315	2	10	10	-10	65	NBR	347L9101 ₁	-	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



Drawing 3894



Drawing 3896



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General Catalogue FCSE/0112/UK V3 04/2026

5 WAY VALVES

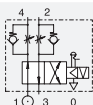
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

ANODIZED ALUMINIUM
SUB-BASE MOUNTING

SPRING RETURN

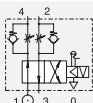


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
SB	6	630	1	10	10	-10	75	NBR	341F34 ₁₂	2995	481865	9	10	2.0	3287
	6	630	1	10	10	-10	75	NBR	341F34 ₁₂	4270	481000	8	8	2.1	3287
	6	630	1	10	10	-10	75	NBR	341F3403 ₂	2995	481865	9	10	2.0	3287
	6	630	1	10	10	-10	75	NBR	341F3403 ₂	4270	481000	8	8	2.1	3287
	6	630	1	10	10	-25	75	NBR	341F3440 ₁₂	2995	481865	9	10	2.0	3287

Notes:
1. With flow regulator
2. With manual override

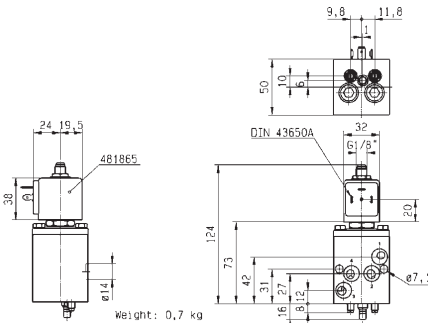
ANODIZED ALUMINIUM
SUB-BASE MOUNTING

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.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
SB	6	630	1	10	-	-10	75	NBR	345F34 ₁	4269	484990	11	-	4.0	3287
	6	630	1	-	10	-10	75	NBR	345F34 ₁	4269	485400	-	13	4.0	3287

Notes:
1. With flow regulator e manual override



Drawing 3287



5 WAY VALVES

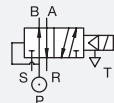
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

ANODIZED ALUMINIUM
SUB-BASE MOUNTING

SPRING RETURN

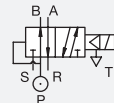


Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
SB	15	5000	0.5	10	10	-10	75	FKM	E341L21 ₁	2995	481865	9	10	2.0	3299
	15	5000	0.5	10	10	-10	75	FKM	E341L21 ₁	-	495905	8	8	2.0/2.1	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

Notes:
1. With manual override

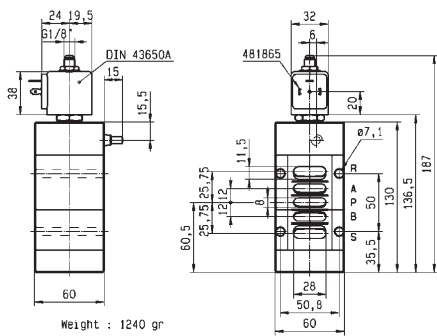
ANODIZED ALUMINIUM
SUB-BASE MOUNTING

NORMALLY CLOSED



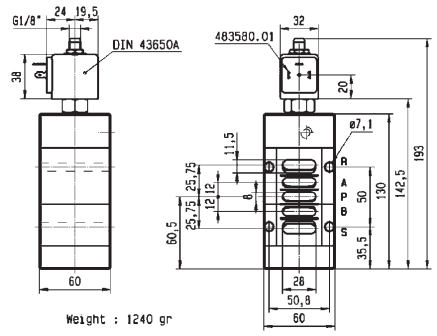
Port size	Orifice Ø 1 mm	Flow factor Qn l/min	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
SB	4	400	1	10	10	-10	75	NBR	341L9201 ₁	-	482605	-	5	1.1	3895
	4	400	1	10	10	-10	75	NBR	341L9201 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. With manual override



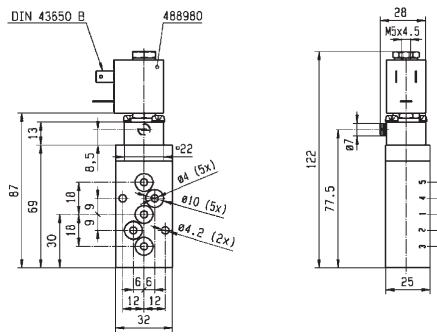
Weight : 1240 gr

Drawing 3299



Weight : 1240 gr

Drawing 8271



Drawing 3895



5 WAY VALVES

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

ANODIZED ALUMINIUM
SUB-BASE MOUNTING

DUAL SOLENOIDS

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

Notes:
1.With manual override

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

Notes:
1.With manual override



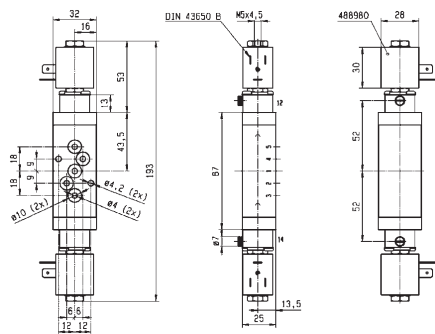
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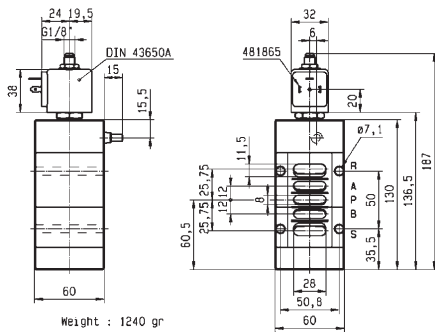


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	4	315	10	-10
To	SB	15	5000	10	75

5 WAY VALVES

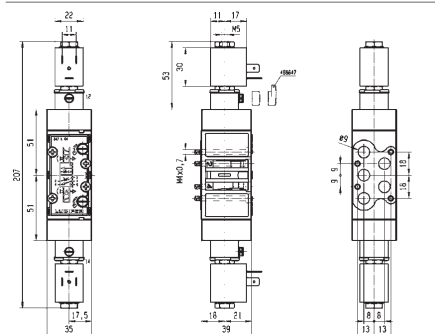


Drawing 3897



Weight : 1240 gr

Drawing 3299



Drawing 3694



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General Catalogue FCSE/0112/UK V3 04/2026

5 WAY VALVES

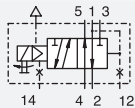
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

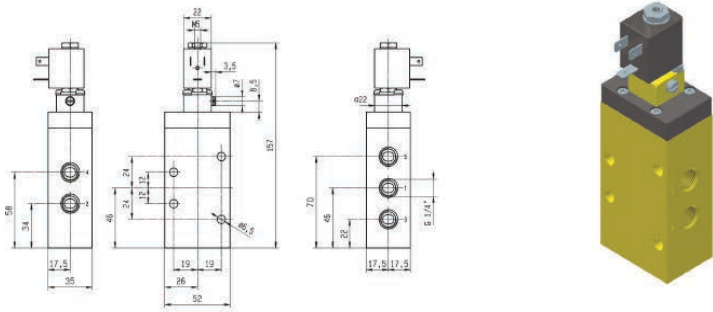
ANODIZED ALUMINIUM
PIPE MOUNTING

SPRING RETURN

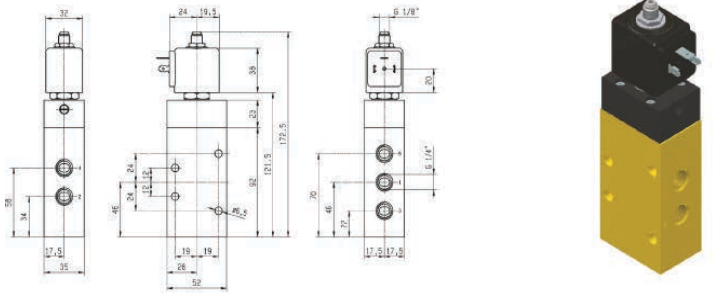


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max					AC W	DC W		
1/4"	8	1400	1	10	10	-10	75	NBR	341L11	8993	488980	2	2.5	1.1	3434
	8	1400	1	10	10	-10	50	NBR	341L11	8993	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	9	10	2.0	3539
1/4" NPT	8	1400	1	10	10	-10	65	NBR	E341L1130	-	483371	8	8	2.0/2.1	3539
	8	1400	1	10	10	-10	75	FKM	U341L1130	2995	481865	9	10	2.0	8297
	8	1400	1	10	10	-10	75	FKM	U341L1130	2995	491514	11	12	2.1	8297

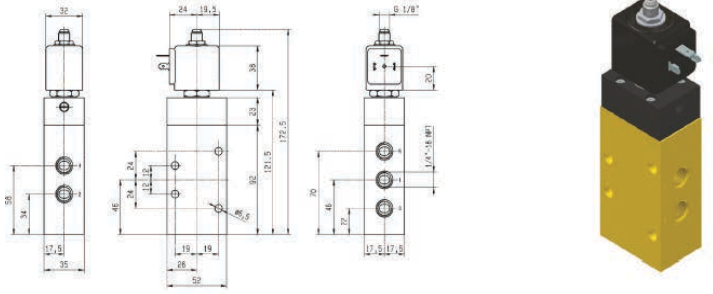
Notes:
1. With manual override



Drawing 3434



Drawing 3539



Drawing 8297



5 WAY VALVES

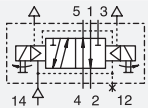
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

ANODIZED ALUMINIUM
PIPE MOUNTING

DUAL SOLENOIDS

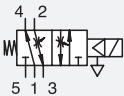


Port size	Orifice Ø	Flow factor	Operating Pressure Differential		Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Min	Max					AC W	DC W		
BSP	1	Qn l/min	bar	bar	°C	°C								
1/4"	8	1400	1	10	-10	65	NBR	347L11 ₁	-	482605	4	5	1.1	3461
	8	1400	1	10	-10	65	NBR	347L11 ₁	-	482606	2	2.5	1.1	3461
	8	1400	1	10	-10	75	NBR	347L11 ₁	8993	488980	2	2.5	1.1	3461
	8	1400	1	10	-10	50	NBR	347L11 ₁	8993	495865	2	2.5	1.1	3461

Notes:
1. With manual override

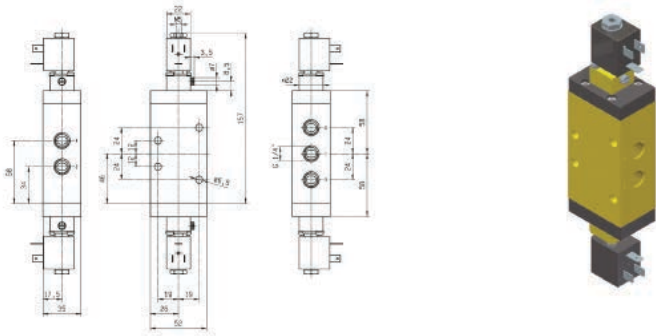
POM
CETOP

SPRING RETURN

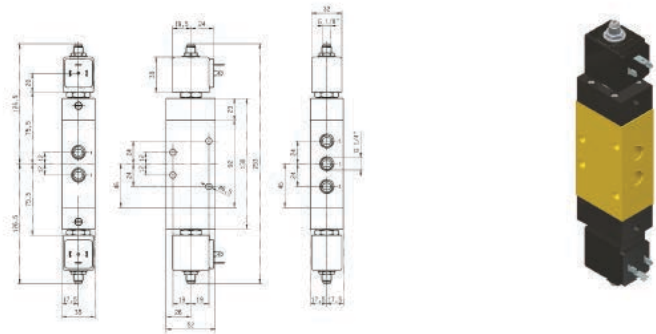


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max						AC W	DC W		
BSP	mm	Qn l/min	bar	AC bar	DC bar	°C	°C									
SB	6	800	1	10	10	-10	75	FKM	E341L02 ₁	2995	481865	9	10		2.0	3513
	6	800	1	10	10	-10	75	FKM	E341L02 ₁	4270	481000	8	8		2.1/3.0	3513

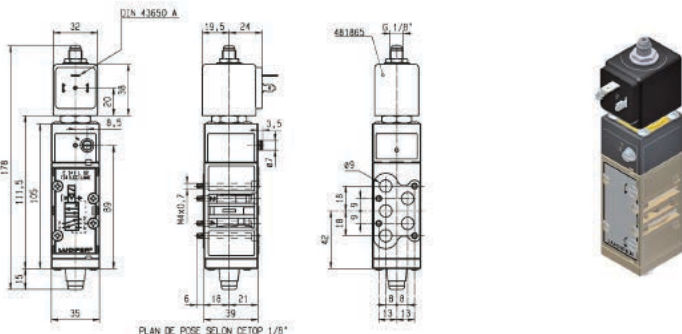
Notes:
1. Manual override and flow regulating screws standard



Drawing 3461



Drawing 3541



Drawing 3513



5 WAY VALVES

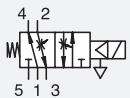
5/2 5 WAY PNEUMATIC DISTRIBUTORS
(PIPE MOUNTING/SUB-BASE MOUNTING)
PILOT OPERATED



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

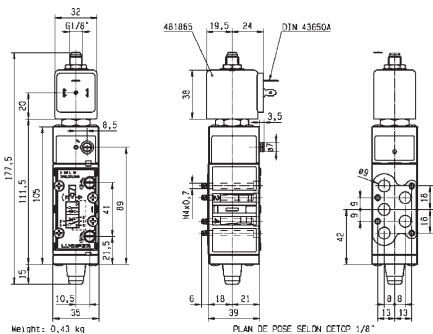
POM
CETOP

SPRING RETURN

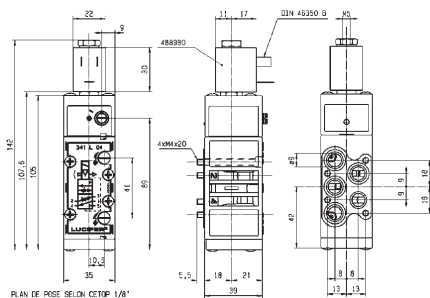


Port size	Orifice Ø	Flow factor	Operating Pressure Differential		Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	IS		Power		Coil Group	Dwg. No.
BSP	1	Qn l/min	Min bar	Max (MOPD) AC bar	DC bar	Min °C	Max °C				AC W	DC W				
SB	8	800	1	10	10	-10	65	FKM	341L04 ₁	-	482605	4	5		1.1	3437
	8	800	1	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	481865	9	-		2.0	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

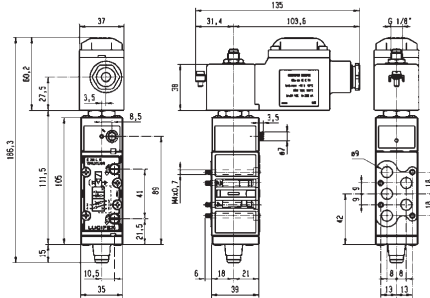
Notes:
1.Manual override and flow regulating screws standard



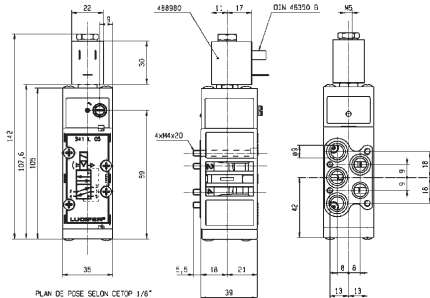
Drawing 3255



Drawing 3437



Drawing 8021



Drawing 3430



5 WAY VALVES

5/2

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

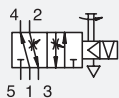


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	6	800	10	-10
To	SB	6	800	10	75

POM

CETOP

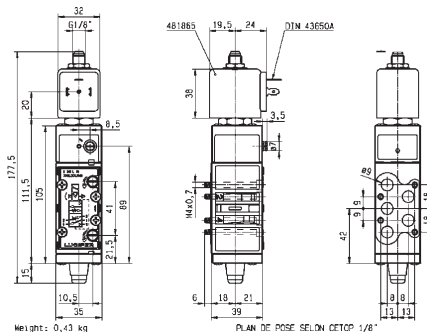
CONTROL BY ELECTRIC IMPULSE



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	Power		Coil Group	Dwg. No.
BSP	mm	Qn l/min	Min bar	Max (MOPD) AC bar	DC bar	Min °C	Max °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



Drawing 3255



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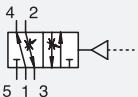
5 WAY VALVES

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

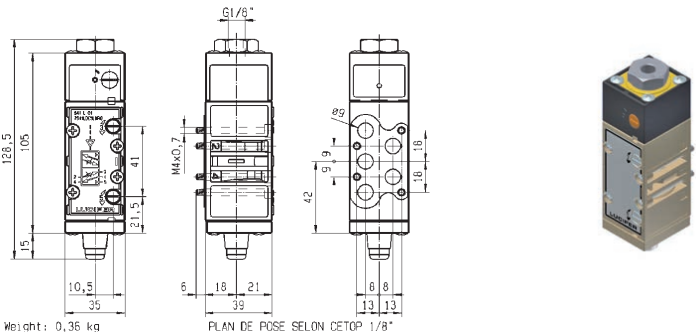


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	7	800	10	-10
To	SB	7	800	10	75

ANODIZED ALUMINIUM
SUB-BASE MOUNTING
SPRING RETURN



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



Drawing 3254



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


$$\frac{3}{2} \frac{5}{2}$$

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	298
			1/8"-1/4"	2.5	220	7	75	298
			1/4"	1	36	10	120	298
		Normally Open/Universal Control by Electric Impulse	1/4"	2.5 - 6	680	7-10	75	304
		1/4"	2.5	220	7	100	306	
	Brass/Sub-base mounting	Normally Closed	5 mm	2.5	180	2	75	308
		Universal	1/8"	2	140	7	120	308
	Anodized aluminium/ Pipe mounting	Universal	1/4"	6	680	10	75	310
	Pilot Operated	Anodized aluminium/ Pipe mounting/Spool	Normally Closed	1/8"	4 to 15	600	10	80
1/4"				7 to 8	1400	10	80	314
1/2"		12		3000	10	50	318	
Dual Solenoids		1/8"	4	400	10	80	320	
		1/4"	7 to 8	1400	10	80	322	
		1/2"	12	3000	10	50	324	
Control by Electric Impulse		1/8"	4	600	10	80	324	
Manual Reset		Brass/Pipe mounting	Universal	1/4"	6	680	10	65

PNEUMATIC DISTRIBUTORS

3/2

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

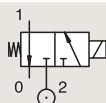


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	1	36	7	-40
To	1/4"	2.5	220	10	75

BRASS

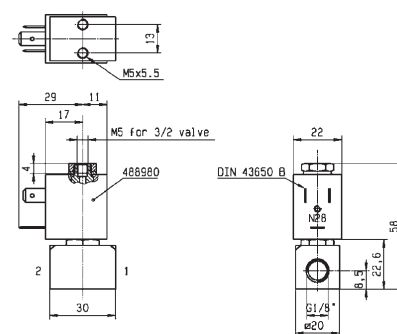
PIPE MOUNTING

NORMALLY CLOSED

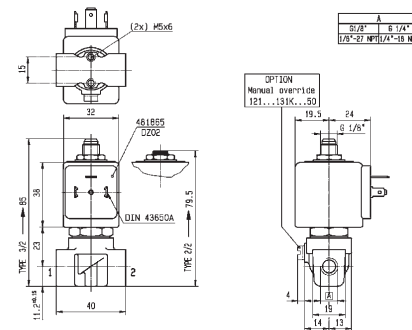


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max							AC W	DC W		
1/8"	1.2	50	0	10	10	-10	75	FKM	131M15	8993	488980	-	-	2	2.5	1.1	3382
	1.2	50	0	10	10	-10	75	FKM	131M1550 ₁	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	-	-	9	10	2.0	3510
	2.5	220	0	7	7	-40	75	PUR	E131K0358 ₂	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

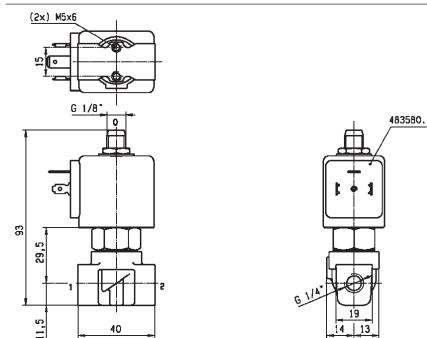
Notes:
1. With manual override



Drawing 3382



Drawing 3510



Drawing 7058



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PNEUMATIC DISTRIBUTORS

3/2

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

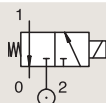


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	1.5	80	7	-20
To	1/4"	2	140	16	120

BRASS

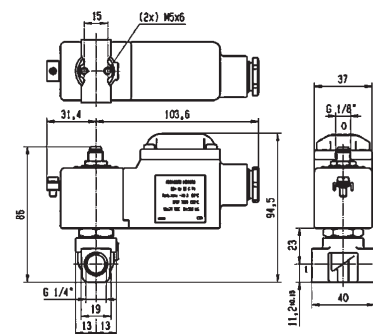
PIPE MOUNTING

NORMALLY CLOSED

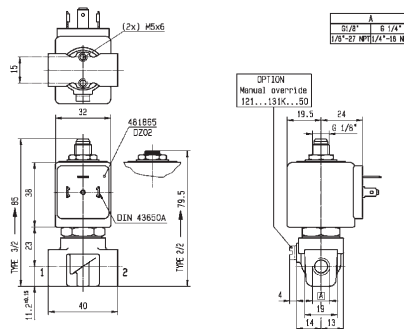


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1 mm	Qn l/min	bar	bar	bar	°C	°C										
1/4"	1.5	80	0	-	7	-20	75	PUR	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	-	-	9	10	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	2995	481865	-	-	9	10	2.0	3510
	1.5	80	0	15	15	-10	120	FKM	E131K0450	4270	481000	-	-	8	8	2.1	3510
	2	140	0	10	10	-10	100	FKM	E131K06	2995	481865	-	-	9	10	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	2995	481865	-	-	9	10	2.0	3510
	2	140	0	10	10	-10	120	FKM	E131K0650	4270	481000	-	-	8	8	2.1	3510

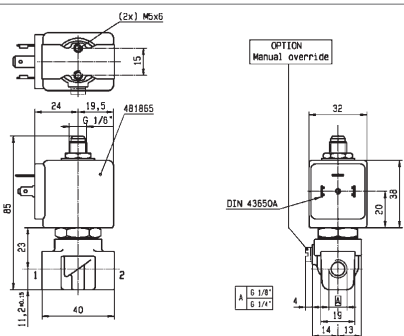
Notes:
1. With manual override



Drawing 8023



Drawing 3510



Drawing 8119



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PNEUMATIC DISTRIBUTORS

3/2

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

PNEUMATIC DISTRIBUTORS

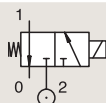


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	2.5	220	2	-40
To	1/4"	4.5	500	7	120

BRASS

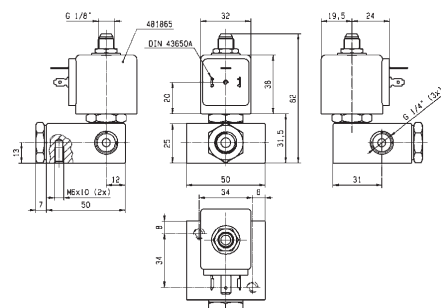
PIPE MOUNTING

NORMALLY CLOSED

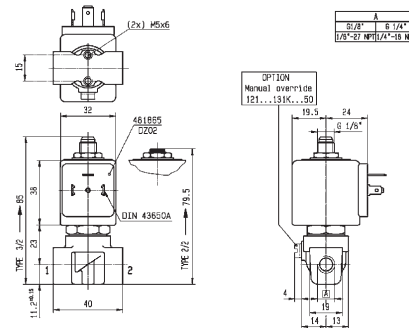


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max							AC W	DC W		
1/4"	2.5	220	0	7	7	-40	75	PUR	E131K0308	2995	481865	-	-	9	10	2.0	3510
	2.5	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	2995	481865	-	-	9	10	2.0	3510
	2.5	220	0	7	7	-10	120	FKM	E131K0350	4270	481000	-	-	8	8	2.1	3510
	4.5	500	0	2	2	-10	75	FKM	131T2101	2995	481865	-	-	9	10	2.0	3223
	4.5	500	0	2	2	-10	75	FKM	131T2101	4270	481000	-	-	8	8	2.1	3223

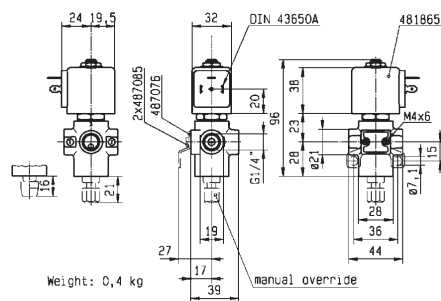
Notes:
1. With manual override



Drawing 3525



Drawing 3510



Drawing 3223



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PNEUMATIC DISTRIBUTORS

3/2

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

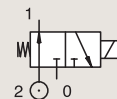


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	2.5	220	3.5	-25
To	1/4"	6	680	10	75

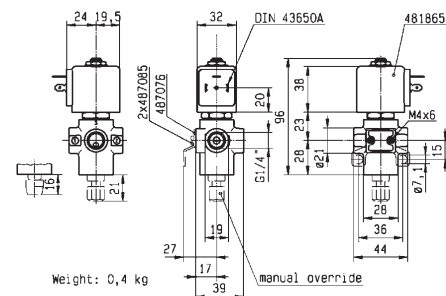
BRASS

PIPE MOUNTING

NORMALLY OPEN



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.
BSP	1	Qn	Min	Max (MOPD)	DC	Min	Max							AC	DC		
mm	l/min	bar	bar	bar	°C	°C								W	W		
2.5	220	0	7	3.5	-10	75	FKM	132T29	2995	481865	-	-	-	9	10	2.0	3223
1/4"	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

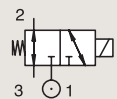


Drawing 3223

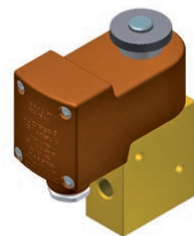
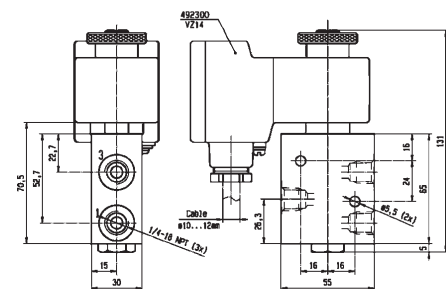
BRASS

PIPE MOUNTING

UNIVERSAL



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max °C		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn	mm	l/min	bar	bar	°C	°C									
1/4" NPT	6	680	0	12	12	-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	-	12	-25	75	NBR	U133X0111	-	492965.01	0-20	Ex ia IIC T6	-	0.3	9.0/10.1/10.2	7422



Drawing 7422



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General Catalogue FCSE/0112/UK V3 04/2026

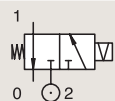
3/2

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

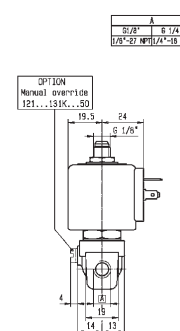
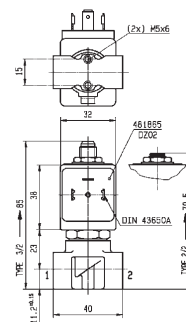
BRASS

PIPE MOUNTING

CONTROL BY ELECTRIC IMPULSE



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



Drawing 3510

PNEUMATIC DISTRIBUTORS

3/2

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

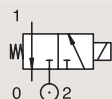


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	SB	2	140	2	-20
To	SB	2.5	180	7	120

BRASS

SUB-BASE MOUNTING

NORMALLY CLOSED

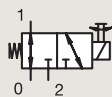


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max							AC W	DC W		
SB	2.5	180	0	-	2	-20	75	PUR	131F4397	2995	482740	-	-	-	1.6	6.0/8.0	8022
	2.5	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

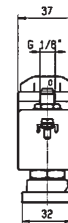
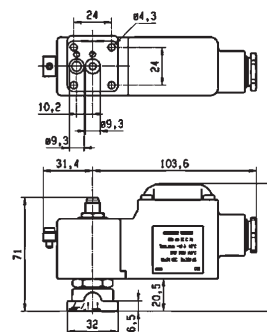
SUB-BASE MOUNTING

UNIVERSAL

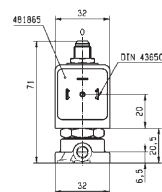
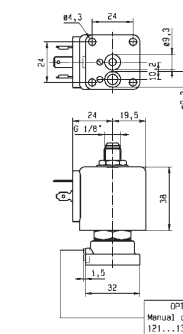


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Max	Min	Max							AC W	DC W		
SB	2	140	0	7	7	-10	100	FKM	133F4650 ₁	2995	481865	-	-	9	10	2.0	3509
	2	140	0	7	7	-10	120	FKM	133F4650 ₁	4270	481000	-	-	8	8	2.1	3509

Notes:
1. With manual override



Drawing 8022



Drawing 3509



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PNEUMATIC DISTRIBUTORS

3/2

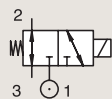
3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING)
DIRECT OPERATED



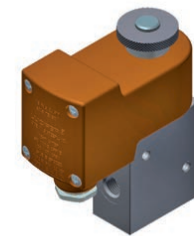
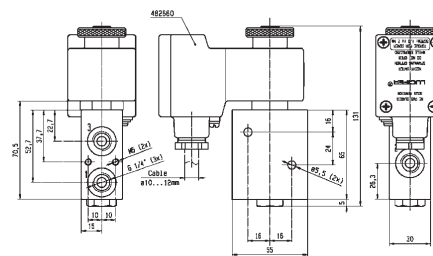
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	6	680	10	-25
To	1/4"	6	680	10	75

ANODIZED ALUMINIUM
PIPE MOUNTING

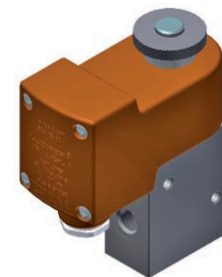
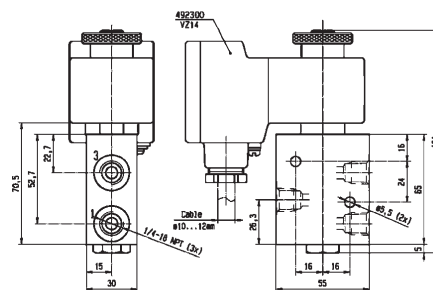
UNIVERSAL



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.
BSP	1	Qn	Min	Max	DC	Min	Max							AC	DC		
mm	mm	l/min	bar	bar	bar	°C	°C							W	W		
6	680	0	12	12		-25	75	NBR	133X01	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	6960
1/4"	6	680	0	12	12	-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	12	12		-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	12	12		-25	65	NBR	133X01	-	496895	-	-	8	8	9.0/10.1/10.2	6960
1/4" NPT	6	680	0	12	12	-25	65	NBR	U133X01	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	7422



Drawing 6960



Drawing 7422



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PNEUMATIC DISTRIBUTORS

5/2

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

PNEUMATIC DISTRIBUTORS



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

ANODIZED ALUMINIUM

PIPE MOUNTING

NORMALLY CLOSED



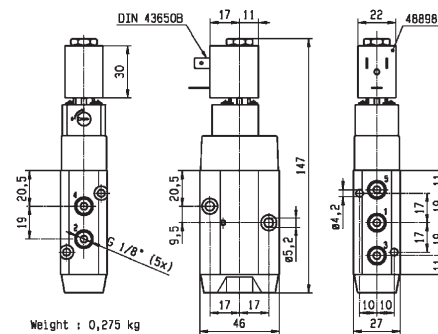
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max								AC W		
BSP	1 mm	On l/min	Min bar	Max AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.						
1/8"	4	600	2	10	10	-25	50	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	-	-	9	10	2.0	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	NBR/PUR	341P2108 ₂	2995	481865	-	-	9	10	2.0	7296
	4	600	2	10	10	-40	65	NBR/PUR	341P2108 ₂	4270	481000	-	-	8	8	2.1	7296
	4	600	2	-	10	-25	65	NBR/PUR	341P2197 ₂	2995	482740	-	-	-	1.6	6.0/8.0	8027
	4	600	2	10	10	-25	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	-25	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	-25	65	NBR/PUR	341P2197 ₂	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8027
	4	600	2	-	10	-25	55	NBR/PUR	341P2197 ₂₃	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	8027

Notes:

1. Pilot seat in FKM

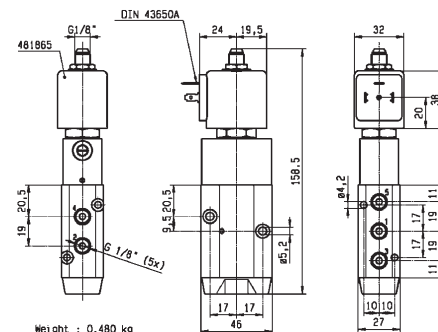
2. With manual override

3. A minimum current of 65 mA is required with this coil configuration



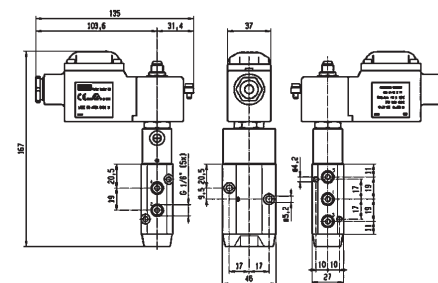
Weight : 0,275 kg

Drawing 7302



Weight : 0,480 kg

Drawing 7296



Drawing 8027



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General Catalogue FCSE/0112/UK V3 04/2026

5/2

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

ANODIZED ALUMINIUM

PIPE MOUNTING

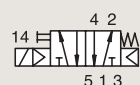
NORMALLY CLOSED

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			1	Qn	Min	Max (MOPD)			Min	Max	Valve Ref.			Housing Ref.	Coil Ref.		
						AC bar	DC bar										
BSP	mm	l/min	bar	bar	bar	°C	°C										
1/4"	15	600	2	-	10	-10	55	NBR	341P2190 ₁₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190 ₁₂	-	488660.01	0-20	Ex ia IIC T6	-	0.3 to 3	7.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190 ₁₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7351
	15	600	2	-	10	-10	75	NBR	341P2190 ₁₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0	7351

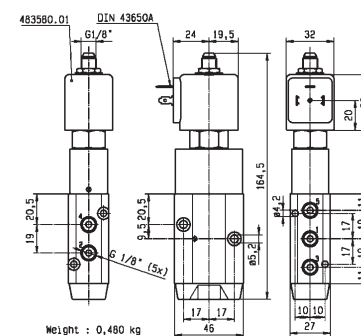
Notes:

1. Pilot seat in FKM

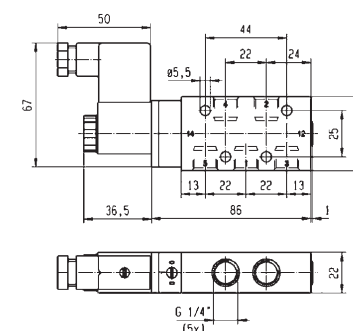
2. A minimum current of 65 mA is required with this coil configuration



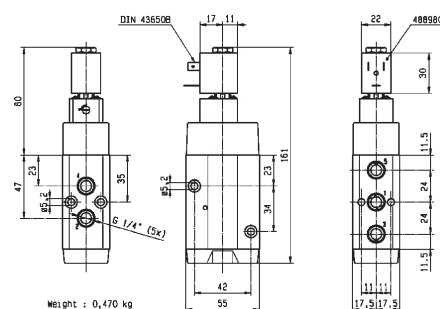
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	7	600	10	-25
To	1/4"	15	1400	10	80



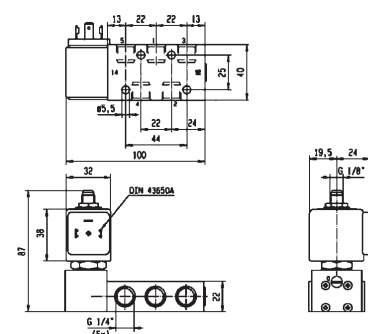
Drawing 7351



Drawing 8218



Drawing 7314



Drawing 8219

PNEUMATIC DISTRIBUTORS

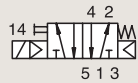
5/2

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

ANODIZED ALUMINIUM

PIPE MOUNTING

NORMALLY CLOSED

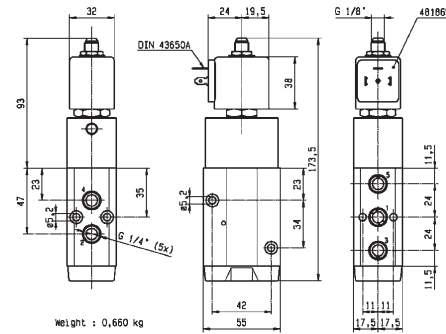


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/4"	7	1250	2.5	10	10	-10	50	NBR	341P03 ₁	-	496131	-	-	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P03 ₁	-	496482	-	-	3	3	1.2	8218
	7	1250	2.5	10	10	-10	50	NBR	341P03 ₁	-	496637	22	Ex ID A22 IP65 - T95°C	3	3	1.2	8218
	7	1250	2.5	10	10	-20	50	NBR	341P33 ₁	2995	481865	-	-	9	10	2.0	8219
	7	1250	2.5	10	10	-20	50	NBR	341P33 ₁	-	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8219
	7	1250	2.5	10	10	-20	50	NBR	341P33 ₁	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8219
	8	1400	2	10	10	-25	80	NBR	341P02 ₁	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7314
	8	1400	2	10	10	-25	80	NBR	341P02 ₁	8993	488980	-	-	2	2.5	1.1	7314

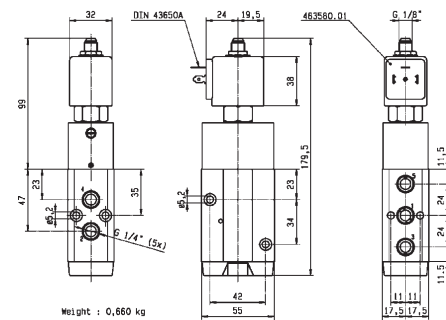
Notes:
1. With manual override



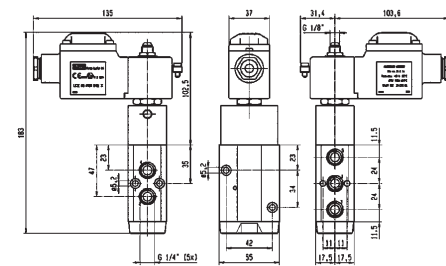
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	1400	10	-25
To	1/4"	8	1400	10	80



Drawing 7319



Drawing 7352



Drawing 8030



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PNEUMATIC DISTRIBUTORS

5/2

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				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.	
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W			
BSP	1 mm	Qn l/min	Min bar	Max AC bar	DC bar	Min °C	Max °C											
1/4"	8	1400	2	10	10	-25	80	NBR	341P22 ₁	2995	481865	-	-	9	10	2.0	7319	
	8	1400	2	10	10	-25	80	NBR	341P22 ₁	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 ₁	2995	482740	-	-	-	1.6	6.0/8.0	8030	
	8	1400	2	10	10	-20	80	NBR/PUR	341P2297 ₁	-	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 ₁	-	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 ₁	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8030	
	8	1400	2	-	10	-20	55	NBR/PUR	341P2297 ₁₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	8030	
1/2"	12	3000	2.5	10	10	-10	50	NBR	341P04 ₁	-	496131	-	-	3	3	1.2	8220	
	12	3000	2.5	10	10	-10	50	NBR	341P04 ₁	-	496482	-	-	3	3	1.2	8220	
	12	3000	2.5	10	10	-10	50	NBR	341P04 ₁	-	496637	22	Ex 1D A22 IP65 - T35°C	-	3	3	1.2	8220
	12	3000	2.5	10	10	-10	50	NBR	341P34 ₁	2995	481865	-	-	9	10	2.0	8221	
	12	3000	2.5	10	10	-10	50	NBR	341P34 ₁	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8221	
	12	3000	2.5	10	10	-10	50	NBR	341P34 ₁	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8221	

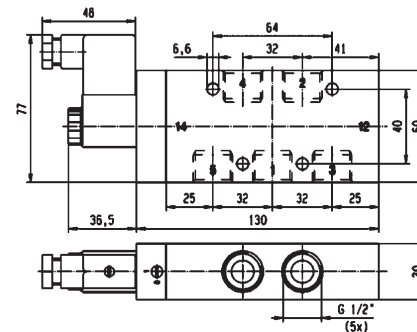
Notes:

1. With manual override

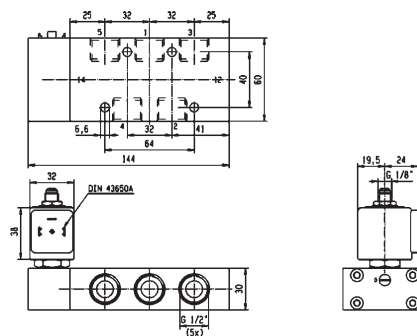
2. A minimum current of 65 mA is required with this coil configuration



For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	1400	10	-10
To	1/2"	12	3000	10	50



Drawing 8220



Drawing 8221



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PNEUMATIC DISTRIBUTORS

5/2

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

PNEUMATIC DISTRIBUTORS

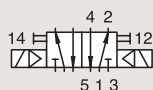


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	4	400	10	-25
To	1/8"	4	400	10	80

ANODIZED ALUMINIUM

PIPE MOUNTING

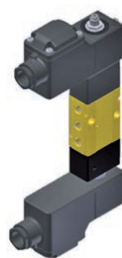
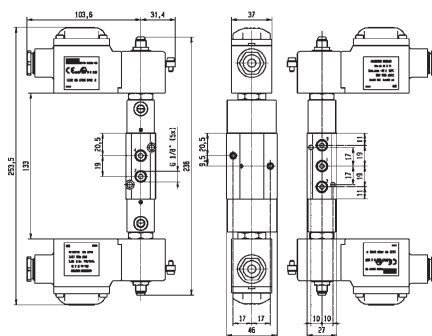
DUAL SOLENOIDS



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
BSP	1	Qn	Min	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.				AC W	DC W		
	mm	l/min	bar	AC bar	DC bar	°C	°C										
1/8"	4	400	2	10	10	-25	80	NBR	347P01 ₂	-	482806	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	-	-	9	10	2.0	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
	4	400	2	-	10	-20	55	NBR/PUR	347P2197 ₂₃	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	8028

Notes:

1. Pilot seat in FKM
2. With manual override
3. A minimum current of 65 mA is required with this coil configuration

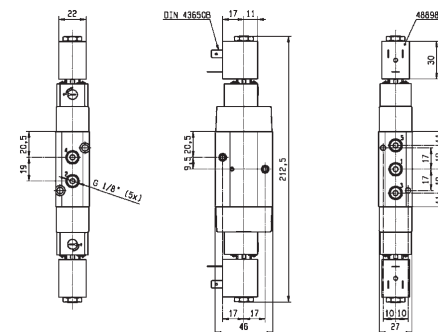


Drawing 8028

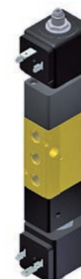
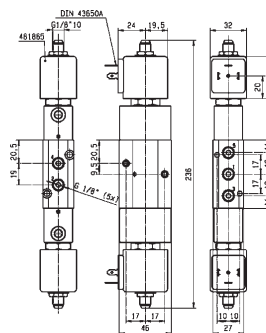


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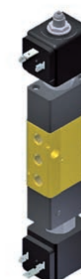
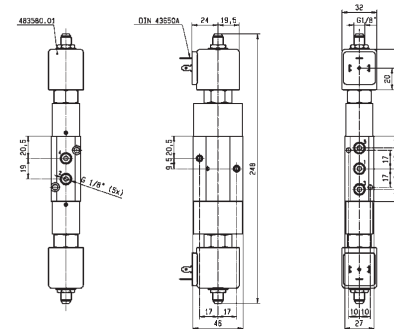
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Drawing 7306



Drawing 7298



Drawing 7353



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PNEUMATIC DISTRIBUTORS

5/2

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

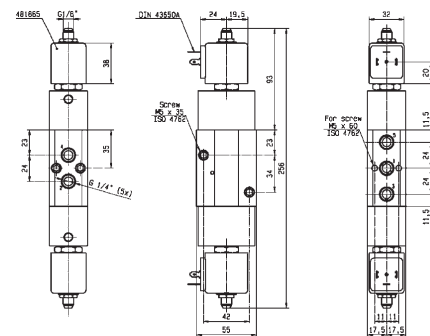
ANODIZED ALUMINIUM

PIPE MOUNTING

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.
BSP	1	Qn	Min	Max	Min	Max					AC W	DC W	
mm	l/min	bar	AC bar	DC bar	°C	°C							
1/4"	7	1250	2.5	10	10	-20	50	NBR	347P03 ₂	-	496131	-	8222
	7	1250	2.5	10	10	-20	50	NBR	347P03 ₂	-	496482	-	8222
	7	1250	2.5	10	10	-20	50	NBR	347P03 ₂	-	496637	22	8222
	7	1250	2.5	10	10	-20	50	NBR	347P33 ₂	2995	481865	-	8223
	7	1250	2.5	10	10	-20	50	NBR	347P33 ₂	2995	495870	2-22	8223
	7	1250	2.5	10	10	-20	50	NBR	347P33 ₂	-	495905	1-21	8223
	8	1400	2	10	10	-25	80	NBR	347P02 ₂	-	482806	1-21	7316
	8	1400	2	10	10	-25	80	NBR	347P02 ₂	8993	488980	-	7316
	8	1400	2	10	10	-25	80	NBR	347P22 ₁₂	2995	481865	-	7321
	8	1400	2	10	10	-25	80	NBR	347P22 ₁₂	4270	481000	-	7321

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



Drawing 7321

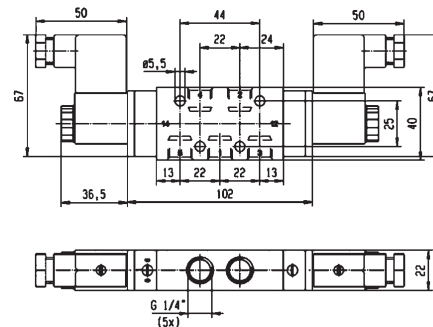


322

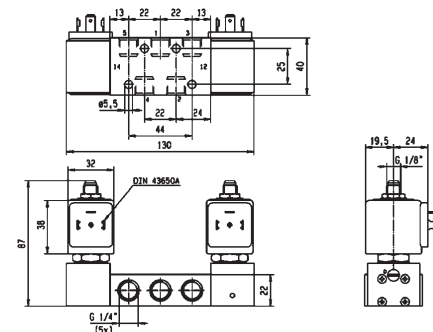
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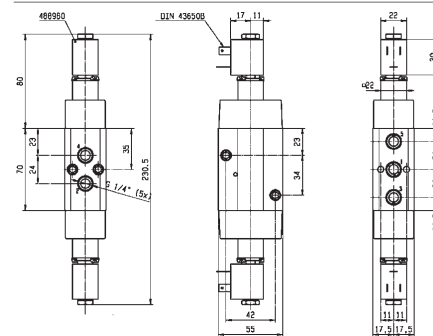
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1250	10	-25
To	1/4"	8	1400	10	80



Drawing 8222



Drawing 8223



Drawing 7316



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General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

5/2

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

ANODIZED ALUMINIUM
PIPE MOUNTING

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.
BSP	mm	Qn l/min	Min AC bar	Max (MOPD) DC bar	Min °C	Max °C					AC W	DC W	
12	3000	2.5	10	10	-20	50	NBR	347P04 ₁	-	496131	-	-	3 3 1.2 8224
12	3000	2.5	10	10	-20	50	NBR	347P04 ₁	-	496482	-	-	3 3 1.2 8224
12	3000	2.5	10	10	-20	50	NBR	347P04 ₁	-	496637	22	Ex ID A22 IP65 - T95°C	3 3 1.2 8224
12	3000	2.5	10	10	-20	50	NBR	347P34 ₁	2995	481865	-	-	9 10 2.0 8225
12	3000	2.5	10	10	-20	50	NBR	347P34 ₁	2995	495870	2-22	Ex nAC IIC T3/T4	8 9 2.1 8225
12	3000	2.5	10	10	-20	50	NBR	347P34 ₁	-	495905	1-21	Ex d mb IIC T4	8 8 2.1 8225

Notes:
1. With manual override

ANODIZED ALUMINIUM
PIPE MOUNTING

CONTROL BY ELECTRIC IMPULSE

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

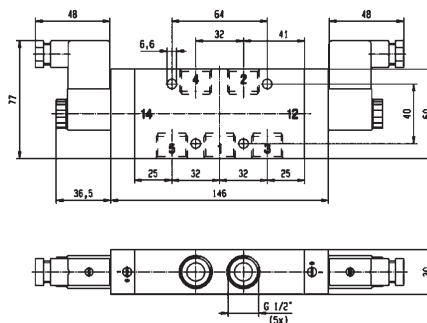
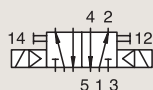


324

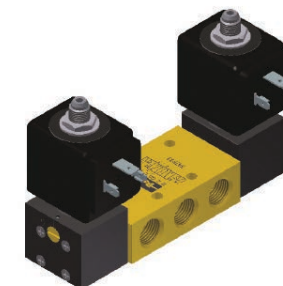
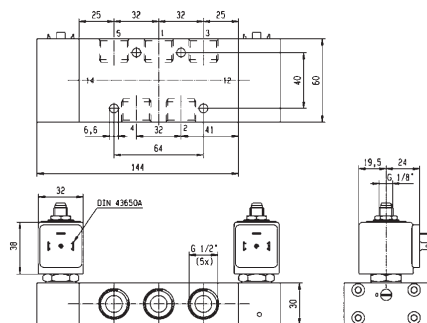
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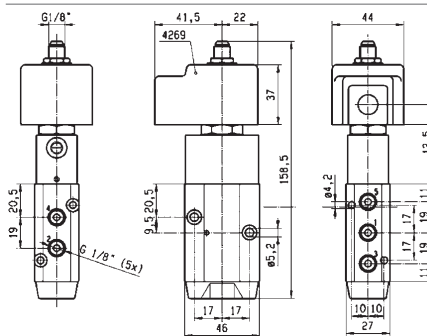
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"	4	600	10	-25
To	1/2"	12	3000	10	80



Drawing 8224



Drawing 8225



Drawing 8123



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PNEUMATIC DISTRIBUTORS

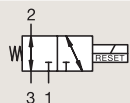
3/2

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

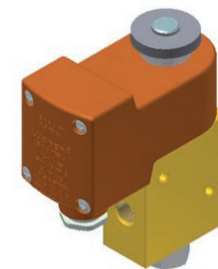
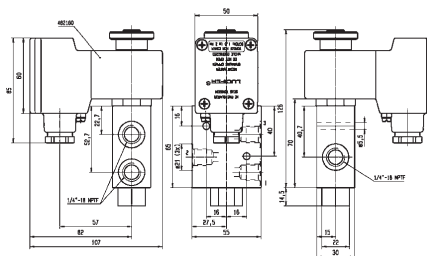


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	6	680	10	-25
To	1/4"	6	680	10	65

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.
BSP	1	Qn	Min	Max (MOPD)	Min	Max							AC W	DC W		
mm	mm	l/min	bar	bar	°C	°C										
1/4"	6	680	0	12	-25	65	NBR	U033X0111	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1/10.2/12.0	7641
NPT	6	680	0	12	-25	65	NBR	U033X0111	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2/12.0	7641



Drawing 7641



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


$$\begin{array}{l} 3/2 \\ 5/2 \\ 5/3 \end{array}$$

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	330		
Pilot Operated	Anodized aluminium/ NAMUR/Spool	Solenoid operated - spring return	1/8"-1/4"	4 to 8	1400	10	80	336		
			1/4"	7 to 8	1400	10	80	332		
			1/2"	12	3000	10	50	332		
		Dual Solenoids	1/8"-1/4"	4	400	10	80	348		
			1/4"	7 to 8	1400	10	120	350		
			1/2"	12	3000	10	120	352		
		W1 closed center position	1/8"-1/4"	4	400	10	80	354		
			1/4"	4 to 7	1250	10	120	354		
			1/4"	7	1250	10	50	356		
		Control by Electric Impulse	1/8"-1/4"	4	600	10	80	358		
		Anodized aluminium/ NAMUR/Poppet	Solenoid operated - spring return	1/8"-1/4"	4	355	10	75	358	
		Air Operated	Anodized aluminium/ NAMUR	Air operated - spring return	1/8"-1/4"	4	600	10	80	364
					1/4"	7	1250	10	50	364
1/2"	12				3000	10	50	364		
Air operated and return	1/4"			7	1250	10	50	364		
W1 closed center position	1/4"			7	1250	10	50	364		

PNEUMATIC DISTRIBUTORS

3/2

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

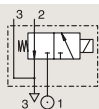


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	6	680	10	-25
To	1/4"	6	680	10	75

ANODIZED ALUMINIUM

NAMUR

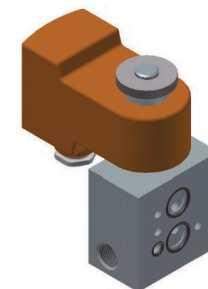
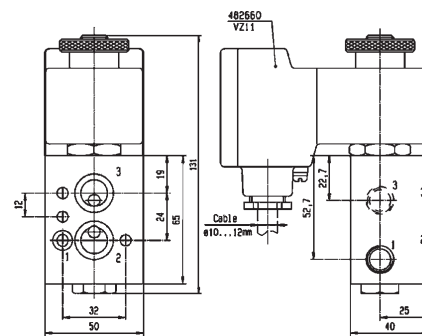
NORMALLY CLOSED



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.
BSP	1	Qn l/min	Min bar	Max (MOPD) bar	DC bar	Min °C	Max °C							AC W	DC W		
1/4"	6	680	0	12	12	-25	75	NBR	131X1101	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1	7336
	6	680	0	12	12	-25	75	NBR	131X1101	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1	7336
	6	680	0	12	12	-25	75	NBR	131X1101	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1	7336
	6	680	0	12	12	-25	75	NBR	131X1101	-	496895	-	-	8	8	9.0/10.1	7336
	6	680	0	12	12	-25	65	NBR	131X1131 ₁	-	492310	1-21	Ex e mb II T3 to T6	-	6	10.1/10.2	7336
	6	680	0	12	12	-25	65	NBR	131X1131 ₁	-	496700	1-21	Ex d mb IIC T4 to T6	-	6	10.1/10.2	7336
1/4" NPT	6	680	0	12	12	-25	75	NBR	U131X1101	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	10.1/10.2	7336
	6	680	0	12	12	-25	65	NBR	U131X1101	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	10.1/10.2	7336
	6	680	0	12	12	-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)



Drawing 7336



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PNEUMATIC DISTRIBUTORS

3/2

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

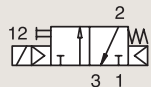


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1250	10	-10
To	1/2"	12	3000	10	50

ANODIZED ALUMINIUM

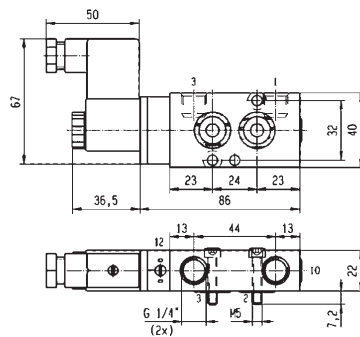
NAMUR

SOLENOID OPERATED - SPRING RETURN

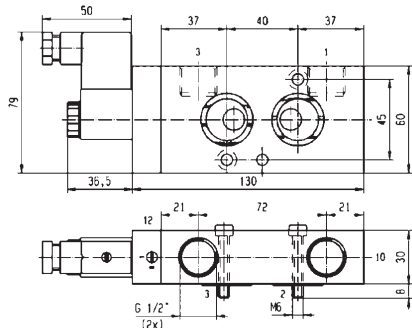


Port size	Orifice Ø 1	Flow factor Qn	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max	(MOPD)	Min	Max							AC W	DC W		
1/4"	7	1250	2.5	10	10	-10	50	NBR	331N03	-	496131	-	-	3	3	1.2	8056
	7	1250	2.5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

Notes:
1. With manual override



Drawing 8056



Drawing 8060



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026



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General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

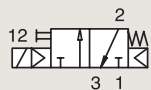
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3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

ANODIZED ALUMINIUM

NAMUR

SOLENOID OPERATED - SPRING RETURN

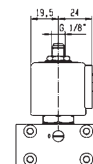
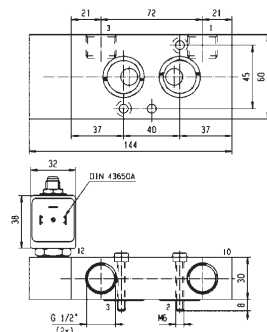


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max							AC W	DC W		
BSP	1	Qn l/min	bar	AC bar	DC bar	°C	°C										
1/2"	12	3000	2.5	10	10	-10	50	NBR	331N34 ₁	2995	481865	-	-	9	10	2.0	8210
	12	3000	2.5	10	10	-10	50	NBR	331N34 ₁	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8210
	12	3000	2.5	10	10	-10	50	NBR	331N34 ₁	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	8210

Notes:
1. With manual override



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



Drawing 8210



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PNEUMATIC DISTRIBUTORS

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



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

ANODIZED ALUMINIUM

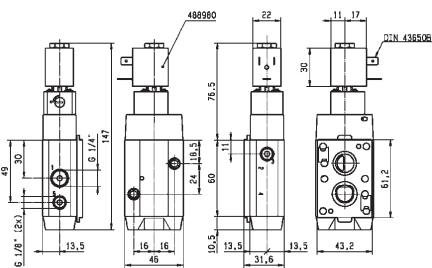
NAMUR



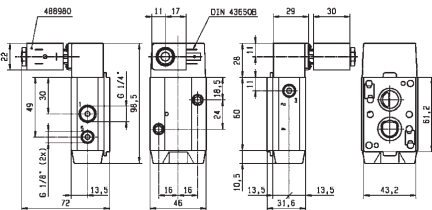
SOLENOID OPERATED - SPRING RETURN

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)	DC bar	Min	Max							AC W	DC W		
1/8"-1/4"	4	600	2	10	10	-25	80	NBR	341N01 ₁₂	8993	488980	-	-	2	2.5	1.1	7301
	4	600	2	10	10	-25	80	NBR	341N11 ₁₂	8993	488980	-	-	2	2.5	1.1	7300
	4	600	2	10	10	-25	80	NBR	341N21 ₂	2995	481865	-	-	9	10	2.0	7311
	4	600	2	10	10	-25	80	NBR	341N21 ₂	4270	481000	-	-	8	8	2.1	7311
	4	600	2	-	10	-25	55	NBR	341N2190 ₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0/8.0	7874
	4	600	2	-	10	-25	55	NBR	341N2190 ₂	-	495910	0-20	Ex ia IIC T4 to T6	-	0.3 to 3	7.0/8.0	7874

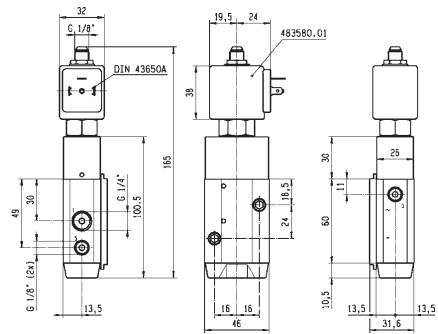
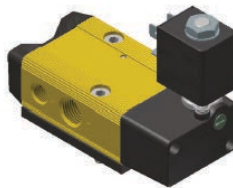
Notes:
1. With captured exhaust
2. With manual override



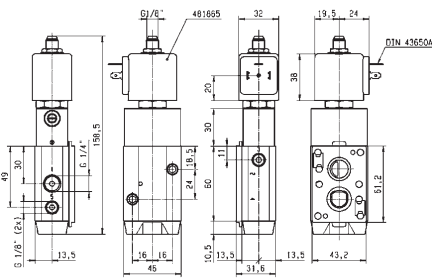
Drawing 7301



Drawing 7300



Drawing 7874



Drawing 7311



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PNEUMATIC DISTRIBUTORS

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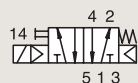
3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED



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

ANODIZED ALUMINIUM

NAMUR



SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential				Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
BSP	1	Qn	Min	Max	Min	Max	Valve Ref.	Housing Ref.	Coil Ref.						AC W	DC W		
	mm	l/min	bar	AC bar	DC bar	°C	°C											
1/8"-1/4"	4	600	2	10	10	-25	80	NBR	341N31 ₃	2995	481865	-	-	9	10	2.0	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	-	-	9	10	2.0	7295	
	4	600	2	10	10	-40	65	NBR	341N3108 ₃	2995	481865	-	-	9	10	2.0	7295	
	4	600	2	10	10	-40	65	NBR	341N3108 ₃	4270	481000	-	-	8	8	2.1	7295	
	4	600	2	10	10	-40	65	NBR	341N3128	2995	481865	-	-	9	10	2.0	7295	
	4	600	2	10	10	-40	65	NBR	341N3128	4270	481865	-	-	9	10	2.0	7295	
	4	600	2	-	10	-25	80	NBR	341N3130 ₁₃	2995	481865	-	-	-	10	2.0	7295	
	4	600	2	-	10	-25	40	NBR	341N3130 ₁₃	-	492190	1-21	Ex e mb IIC T3/T4	-	9	2.1	7295	
	4	600	2	-	10	-25	80	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	55	NBR	341N3196 ₂₄	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	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		
4	600	2	-	10	-25	55	NBR	341N3197 ₃₄	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	8017		

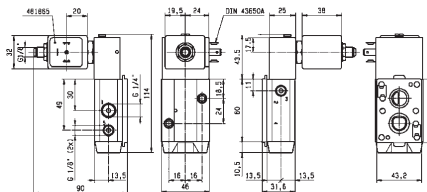
Notes:

- 1.DC voltage only. Minimum drop off voltage is 15% of nominal voltage (former DIN 19251)
- 2.With captured exhaust
- 3.With manual override
4. A minimum current of 65 mA is required with this coil configuration

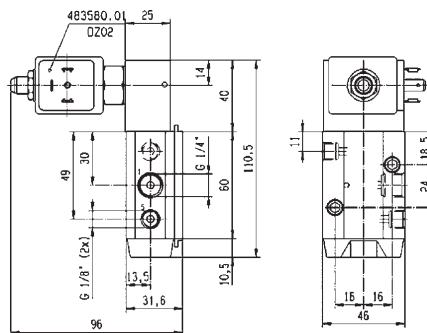
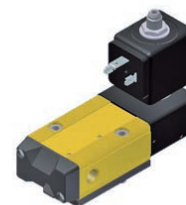


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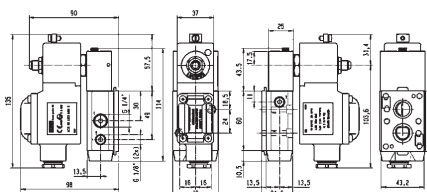
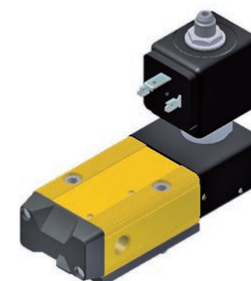
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Drawing 7295



Drawing 7349



Drawing 8017



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PNEUMATIC DISTRIBUTORS

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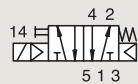
3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED



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

ANODIZED ALUMINIUM

NAMUR



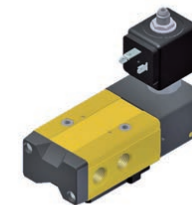
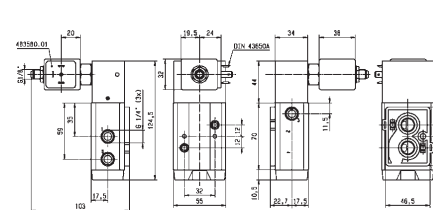
SOLENOID OPERATED - SPRING RETURN

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)	DC bar	Min	Max							AC W	DC W		
BSP	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	-25	65	NBR	341N3296	2995	482740	-	-	-	1.6	6.0/8.0	8029
	8	1400	2	10	10	-25	65	NBR	341N3296	-	495900	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8029
	8	1400	2	-	10	-25	65	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	55	NBR	341N3296 ₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	8029
	8	1400	2	-	10	-25	65	NBR	341N3297 ₁	2995	482740	-	-	-	1.6	6.0/8.0	8029
	8	1400	2	10	10	-25	65	NBR	341N3297 ₁	-	495900	1-21	Ex d mb IIC T4 to T6	2.5	2	6.0/8.0	8029
	8	1400	2	-	10	-25	65	NBR	341N3297 ₁	-	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 ₁	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	6.0/8.0	8029
1/4"	8	1400	2	-	10	-20	55	NBR	341N3297 ₁₂	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	8029
	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	-	496131	-	-	3	3	1.2	8162
	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	-	496482	-	-	3	3	1.2	8162
	7	1250	2.5	10	10	-10	50	NBR	341N05 ₁	-	496637	22	Ex tD A22 IP65 - T95°C	3	3	1.2	8162

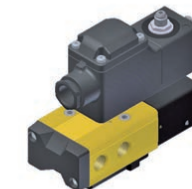
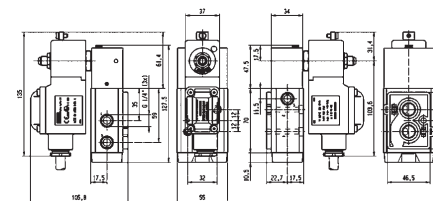
Notes:

1. With manual override

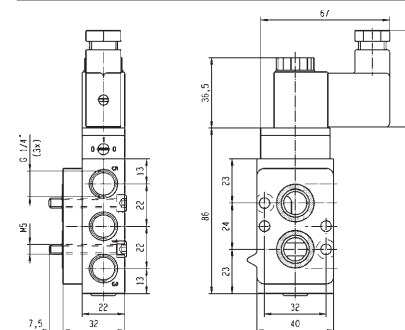
2. A minimum current of 65 mA is required with this coil configuration



Drawing 7350



Drawing 8029



Drawing 8162



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PNEUMATIC DISTRIBUTORS

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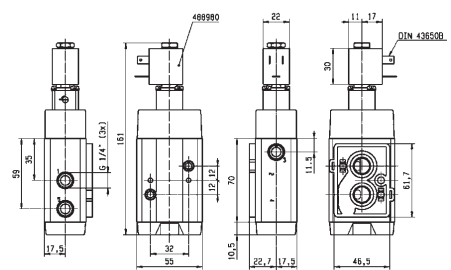
3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
PILOT OPERATED

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)	DC bar	Min	Max							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	-	-	9	10	2.0	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	-	-	9	10	2.0	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

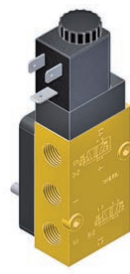
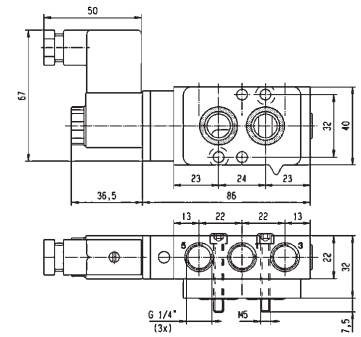
Notes:
2.With captured exhaust
3.With manual override



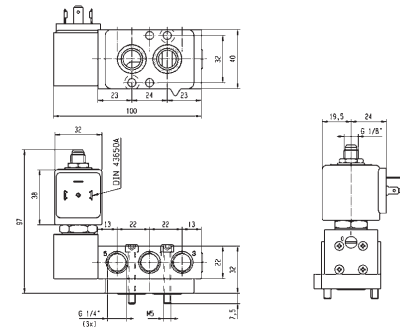
Drawing 7313



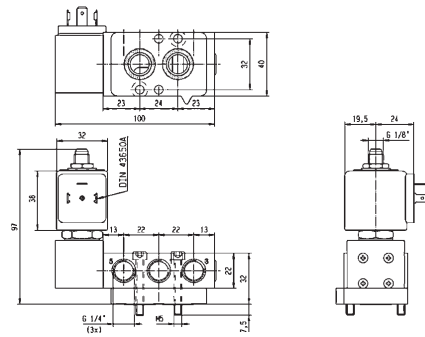
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1200	10	-25
To	1/4"	8	1400	10	80



Drawing 8253



Drawing 8213



Drawing 8254



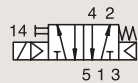
PNEUMATIC DISTRIBUTORS

3/2-5/2

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

ANODIZED ALUMINIUM
NAMUR

SOLENOID OPERATED - SPRING RETURN

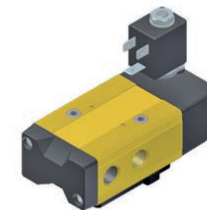
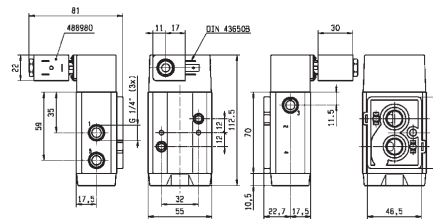


Port size	Orifice Ø	Flow factor	Operating Pressure Differential		Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Min	Max							AC W	DC W		
1/4"	8	1400	2	10	-25	80	NBR	341N12 ₂₃	8993	488980	-	-	2	2.5	1.1	7312
	8	1400	2	10	-25	80	NBR	341N22 ₃	2995	481865	-	-	9	10	2.0	7318
	8	1400	2	10	-25	80	NBR	341N22 ₃	4270	481000	-	-	8	8	2.1	7318
	8	1400	2	10	-25	80	NBR	341N32 ₃	2995	481865	-	-	9	10	2.0	7317
	8	1400	2	10	-25	80	NBR	341N32 ₃	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	7317
	8	1400	2	10	-25	80	NBR	341N32 ₃	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	7317
	8	1400	2	10	-25	80	NBR	341N3202	2995	481865	-	-	9	10	2.0	7317
	8	1400	2	10	-25	80	NBR	341N3202	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	7317
1/4"	8	1400	2	10	-25	80	NBR	341N3202	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	7317

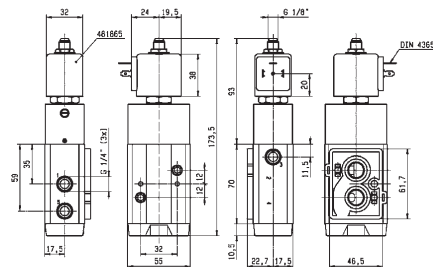
Notes:
2. With captured exhaust
3. With manual override



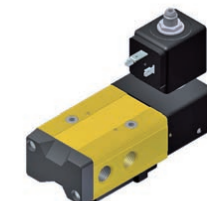
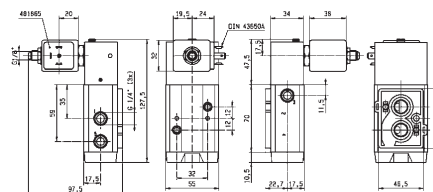
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	8	1400	10	-25
To	1/4"	8	1400	10	80



Drawing 7312



Drawing 7318



Drawing 7317



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

5/2

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

ANODIZED ALUMINIUM
NAMUR

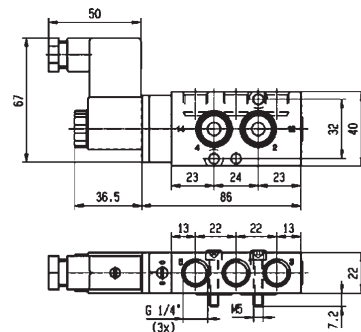
SOLENOID OPERATED - SPRING RETURN

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)	DC bar	Min	Max							AC W	DC W		
1/4"	7	1250	2.5	10	10	-20	50	NBR	341N03 ₃	-	496131	-	-	3	3	1.2	8063
	7	1250	2.5	10	10	-20	50	NBR	341N03 ₃	-	496482	-	-	3	3	1.2	8063
	7	1250	2.5	10	10	-20	50	NBR	341N03 ₃	-	496637	22	Ex nAc nCc IIC T5 IP65	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	-	-	9	10	2.0	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

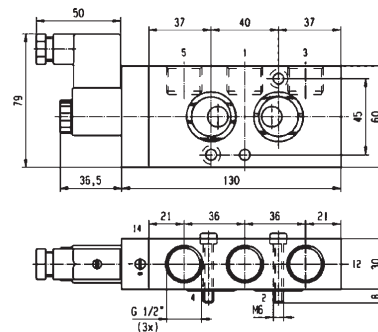
Notes:
3. With manual override



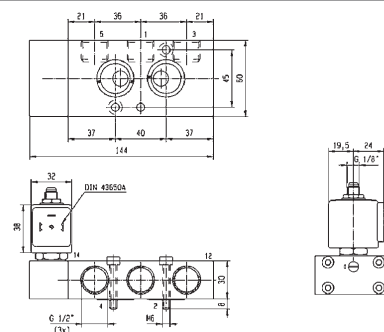
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1250	10	-10
To	1/2"	12	3000	10	50



Drawing 8063



Drawing 8065



Drawing 8211



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General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

5/2

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

PNEUMATIC DISTRIBUTORS



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

ANODIZED ALUMINIUM

NAMUR

DUAL SOLENOIDS

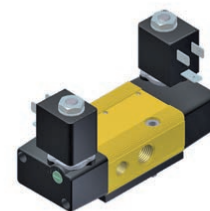
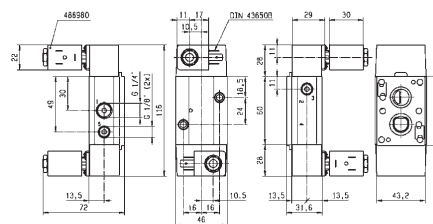
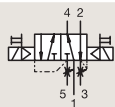
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
BSP	1	Qn	Min	Max	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
	mm	l/min	bar	bar	bar	°C	°C										
1/8" 1/4"	4	400	2	10	10	-25	50	NBR	347N11 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	NBR	347N31 ₂	2995	481865	-	-	9	10	2.0	7297
	4	400	2	10	10	-25	80	NBR	347N31 ₂	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	7297
	4	400	2	10	10	-25	80	NBR	347N31 ₂	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	7297
	4	400	2	-	10	-25	55	NBR	347N3190	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	8141
	4	400	2	-	10	-25	65	NBR	347N3197 ₂	2995	482740	-	-	1.6	3.0/6.0/8.0	7297	
	4	400	2	10	10	-25	65	NBR	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	NBR	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	NBR	347N3197 ₂	2995	496125	2-22	Ex nAC IIC T5/T6	-	1.6	3.0/6.0/8.0	7297
	4	400	2	-	10	-25	55	NBR	347N3197 ₂₃	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	7297

Notes:

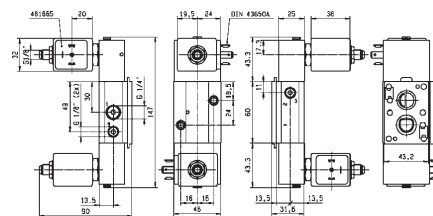
1. With captured exhaust

2. With manual override

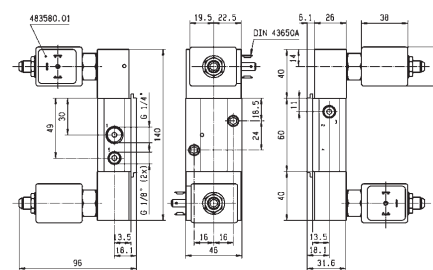
3. A minimum current of 65 mA is required with this coil configuration



Drawing 7305



Drawing 7297



Drawing 8141



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General Catalogue FCSE/0112/UK V3 04/2026



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General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

5/2

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

PNEUMATIC DISTRIBUTORS

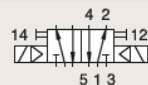


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1250	10	-25
To	1/4"	8	1400	10	120

ANODIZED ALUMINIUM

NAMUR

DUAL SOLENOIDS



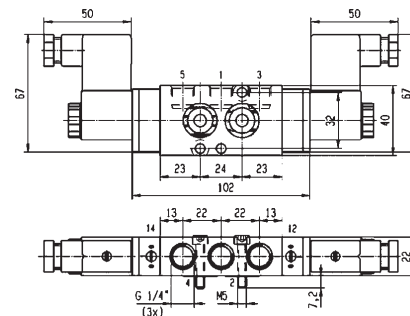
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1 mm	Qn l/min	Min bar	Max AC bar	DC bar	°C	°C										
1/4"	7	1250	1.5	10	10	-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 nAc nCc IIC T5 IP65	3	3	1.2	8057
	7	1250	2.5	10	10	-10	120	NBR	347N33 ₂	2995	481865	-	-	9	10	2.0	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	-	-	9	10	2.0	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
	8	1400	2	10	10	-25	80	NBR	347N32 ₂	-	495905	1-21	Ex d mb IIC T4	8	8	2.1	7320

Notes:

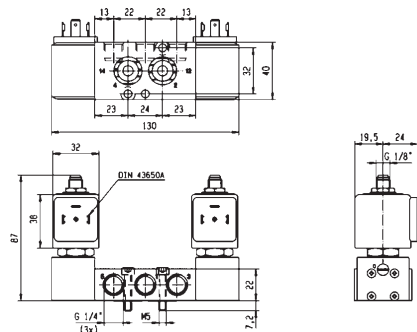
1. With captured exhaust

2. With manual override

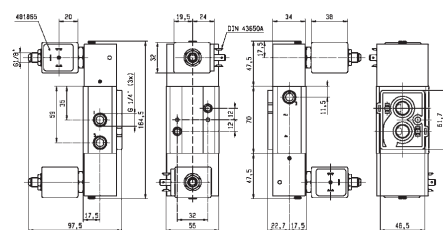
3. A minimum current of 65 mA is required with this coil configuration



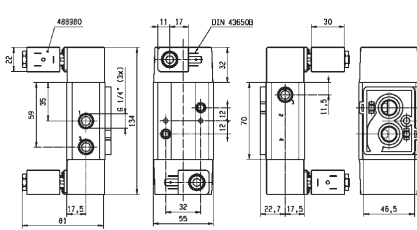
Drawing 8057



Drawing 8209



Drawing 7320



Drawing 7315



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PNEUMATIC DISTRIBUTORS

5/2

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

PNEUMATIC DISTRIBUTORS



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

ANODIZED ALUMINIUM

NAMUR

DUAL SOLENOIDS

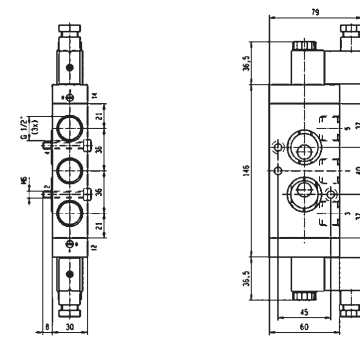
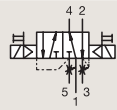
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max							AC W	DC W		
1/2"	12	3000	1.5	10	10	-10	50	NBR	347N04 ₂	-	496131	-	-	3	3	1.2	8154
	12	3000	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 nAc nCc IIC T5 IP65	3	3	1.2	8154
	12	3000	2.5	10	10	-10	120	NBR	347N34 ₂	2995	481865	-	-	9	10	2.0	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:

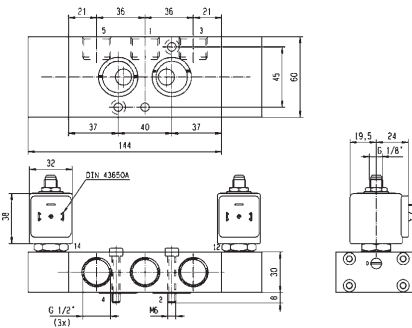
1. With captured exhaust

2. With manual override

3. A minimum current of 65 mA is required with this coil configuration



Drawing 8154



Drawing 8212



PNEUMATIC DISTRIBUTORS

5/3

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

PNEUMATIC DISTRIBUTORS



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

ANODIZED ALUMINIUM

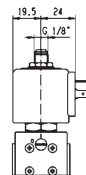
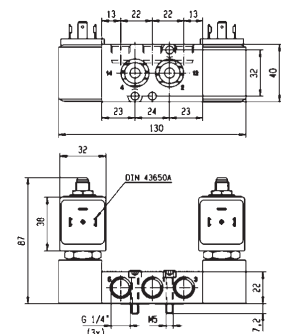
NAMUR

W1 CLOSED CENTER POSITION

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	Qn l/min	Min	Max (MOPD)	DC	Min	Max										
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
	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
	4	400	2	-	10	-10	55	NBR	342N3197 ₂₃	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	6.0/7.0/8.0	7297
	7	1250	3	10	10	-20	50	NBR	342N03 ₂	-	496131	-	-	3	3	1.2	8057
	7	1250	3	10	10	-20	50	NBR	342N03 ₂	-	496482	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	342N03 ₂	-	496637	22	Ex nAc nCc IIC T5 IP65	3	3	1.2	8057
	7	1250	2.5	10	10	-20	50	NBR	342N33 ₂	2995	481865	-	-	9	10	2.0	8209
	7	1250	2.5	10	10	-20	50	NBR	342N33 ₂	2995	495870	2-22	Ex nAC IIC T3/T4	8	9	2.1	8209
1/4"	7	1250	2.5	10	10	-20	50	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
3. A minimum current of 65 mA is required with this coil configuration

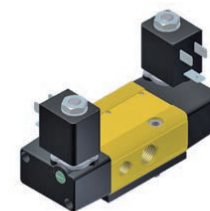
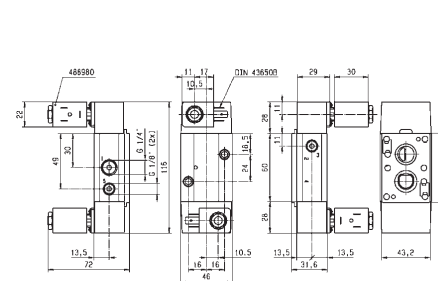


Drawing 8209

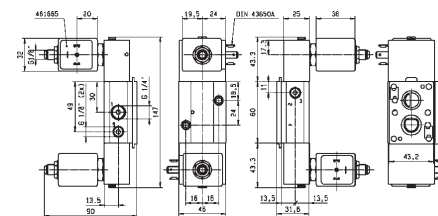


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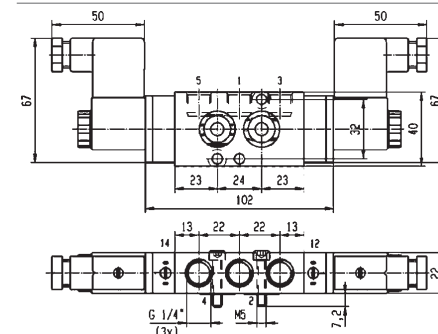
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Drawing 7305



Drawing 7297



Drawing 8057



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

5/3

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

ANODIZED ALUMINIUM

NAMUR

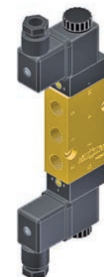
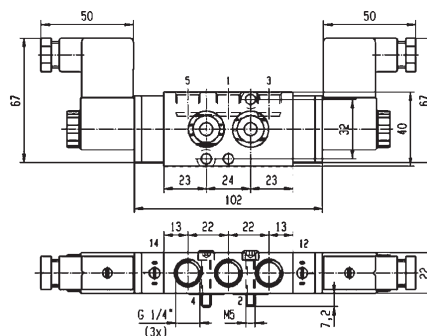
W3 EXHAUSTED IN CENTER POSITION

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.
			Min	Max (MOPD)	DC bar	Min	Max							AC W	DC W		
BSP	1	Qn l/min	Min bar	Max (MOPD) bar	DC bar	Min °C	Max °C										
	7	1250	3	10	10	-20	50	NBR	343N03 ₁	-	496131	-	-	3	3	1.2	8057
1/4"	7	1250	3	10	10	-20	50	NBR	343N03 ₁	-	496482	-	-	3	3	1.2	8057
	7	1250	3	10	10	-10	50	NBR	343N03 ₁	-	496637	22	Ex nAc nCc IIC T5 IP65	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)
From	1/4"	7	1250	10	-10
To	1/4"	7	1250	10	50



Drawing 8057



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General Catalogue FCSE/0112/UK V3 04/2026



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Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

PNEUMATIC DISTRIBUTORS

3/2-5/2

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



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

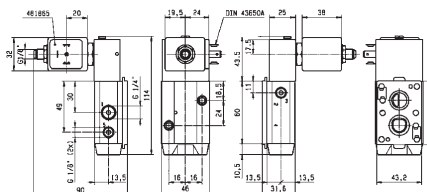
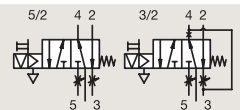
ANODIZED ALUMINIUM

NAMUR

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.
BSP	1	Qn	Min	Max (MOPD)	Min	Max							AC	DC		
mm	mm	l/min	bar	bar	°C	°C							W	W		
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



Drawing 7295

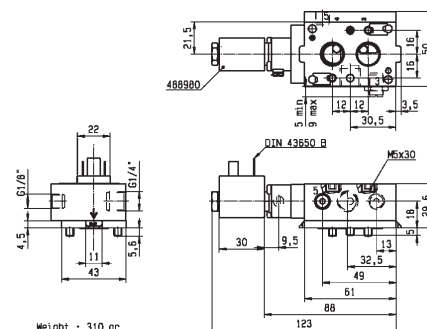
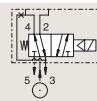
ANODIZED ALUMINIUM

NAMUR

SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg No.
			Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
BSP	1	On l/min	bar	AC bar	DC bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.						
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	-	-	9	10	2.0	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

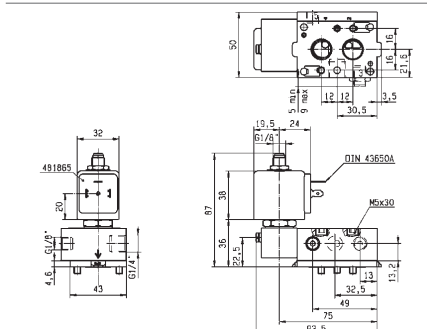
Notes:
1. Pilot seat in FKM
2. With manual override



Weight : 310 gr



Drawing 7009



Drawing 3990



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PNEUMATIC DISTRIBUTORS

3/2-5/2

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



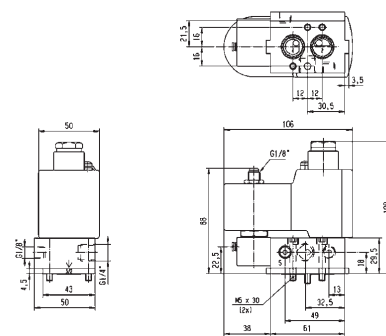
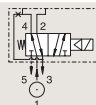
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"-1/4"	4	355	10	-25
To	1/8"-1/4"	4	355	10	75

ANODIZED ALUMINIUM
NAMUR

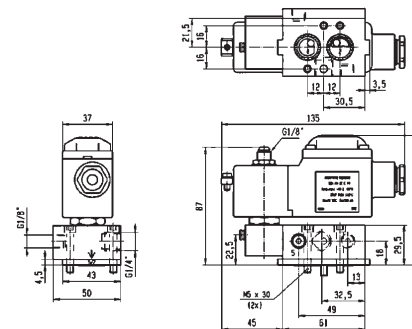
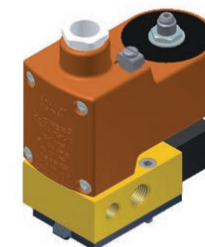
SOLENOID OPERATED - SPRING RETURN

Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max	AC bar	DC bar	Min							Max	Valve Ref.		
	BSP	1	Qn	Min	Max	AC bar	DC bar	Min	Max	Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W			
1/8"-1/4"	4	355	2	-	10	-10	55	NBR	341L9594 ₁	2995	483580.01	0-20	Ex ia IIC T6	-	0.5 to 3	7.0	3992
	4	355	1	-	10	-10	75	NBR	341L9594 ₁	-	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



Drawing 3992



Drawing 8025



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PNEUMATIC DISTRIBUTORS

3/2

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

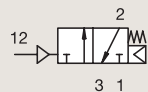


For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1250	10	-10
To	1/2"	12	3000	10	50

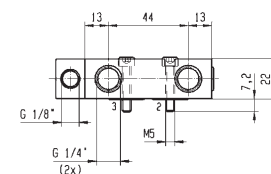
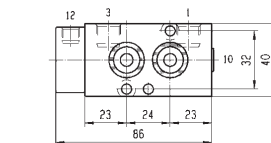
ANODIZED ALUMINIUM

NAMUR

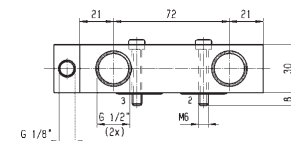
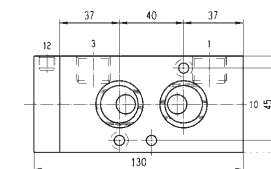
AIR OPERATED - SPRING RETURN



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.
BSP	1	Qn	Min	Max (MOPD)	Min	Max							AC W	DC W		
1/4"	7	1250	2.5	10	-10	50	NBR	531N03	-	-	-	-	-	-	-	8058
1/2"	12	3000	2.5	10	-10	50	NBR	531N04	-	-	-	-	-	-	-	8061



Drawing 8058



Drawing 8061



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PNEUMATIC DISTRIBUTORS

3/2-5/2

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



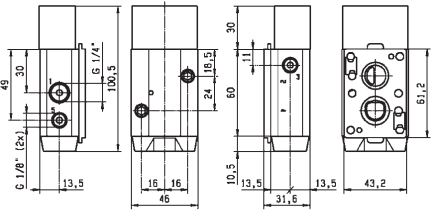
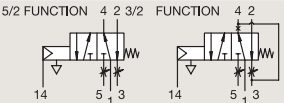
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/8"-1/4"	4	600	10	-40
To	1/8"-1/4"	4	600	10	80

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.
BSP	1	Qn l/min	Min	Max (MOPD)	DC bar	Min °C	Max °C							AC W	DC W		
1/8"-1/4"	4	600	2	10	10	-40	50	NBR	541N0108	-	-	-	-	-	-	-	7309



Drawing 7309



PNEUMATIC DISTRIBUTORS

5/2

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



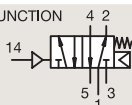
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	7	1250	10	-10
To	1/2"	12	3000	10	50

ANODIZED ALUMINIUM

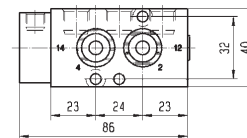
NAMUR

AIR OPERATED - SPRING RETURN

5/2 FUNCTION



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.
BSP	mm	Qn l/min	Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Min °C	Max °C						AC W	DC W		
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

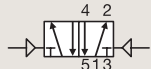


Drawing 8064

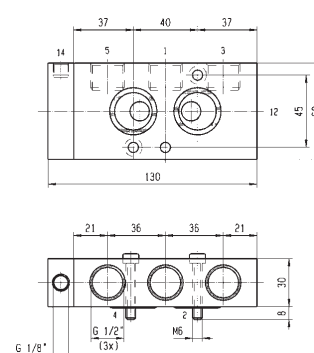
ANODIZED ALUMINIUM

NAMUR

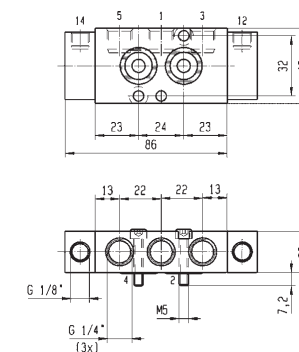
AIR OPERATED AND RETURN



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.
BSP	mm	Qn l/min	Min bar	Max (MOPD) AC bar	Max (MOPD) DC bar	Min °C	Max °C						AC W	DC W		
1/4"	7	1250	2.5	10	10	-10	50	NBR	547N03	-	-	-	-	-	-	8059



Drawing 8066



Drawing 8059



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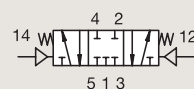
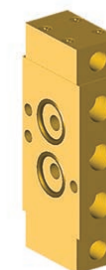
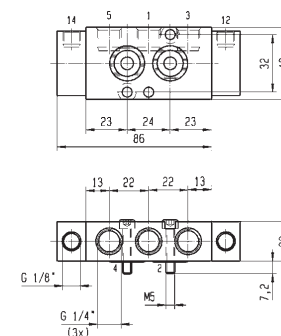
3 & 5 WAY PNEUMATIC VALVES
FOR ACTUATOR CONTROL (NAMUR)
EXTERNALLY OPERATED



For this page	Port size	Orifice (mm)	Q _n (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4" ¹¹	7	1250	10	-10
To	1/4" ¹¹	7	1250	10	50

NAMUR

W1 CLOSED CENTER POSITION

[illegible]

Drawing 8059

PNEUMATIC DISTRIBUTORS

3/2

3 WAY VALVES DIRECT OPERATED

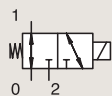
V SERIES - STAINLESS STEEL VALVES FOR PIPE MOUNTING



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

316L STAINLESS ST.
PIPE MOUNTING

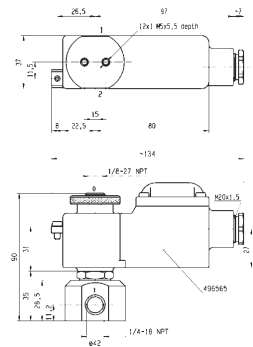
UNIVERSAL



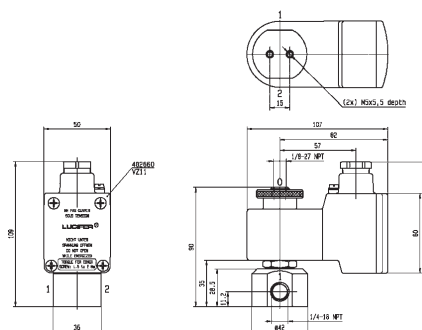
Port size	Orifice Ø	Flow factor			Operating Pressure Differential				Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
		Kv l/min	Kv m³/h	Qn l/min	Min bar	Max(MOPD) bar	Min °C	Max °C	Valve Ref.	Housing Ref.		Coil Ref.	AC W	DC W						
1/4" NPT	2	2.5	0.15	140	0	-	12	-25	65	FKM	U133V5595	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1	8024	
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V5595	-	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	-	496800	1-21	Ex db mb IIC T4	8	8	9.0/10.1	8024	
	2	2.5	0.15	140	0	12	12	-25	65	FKM	U133V5595	-	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	-	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 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	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1	8024	
	2.5	3.5	0.21	220	0	8.5	8.5	-25	75	FKM	U133V5695	-	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	-	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	-	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	-	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 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:

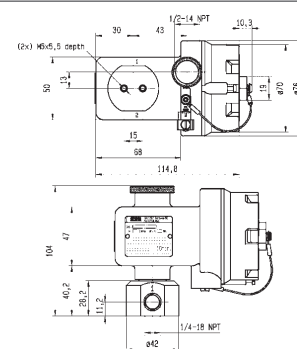
1. Valve delivered with an individual material traceability certificate (2.2 following EN10204)



Drawing 8024



Drawing 6713



Drawing 8299



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PNEUMATIC DISTRIBUTORS

3/2

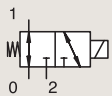
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
DIRECT OPERATED



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

316L STAINLESS ST.
PIPE MOUNTING

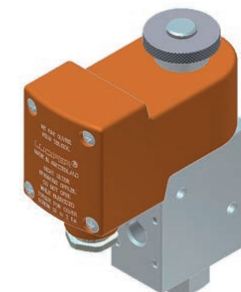
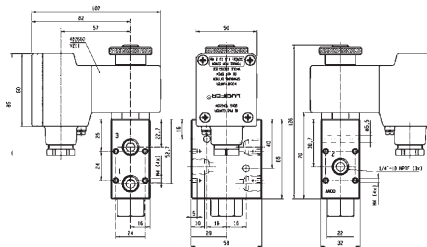
UNIVERSAL



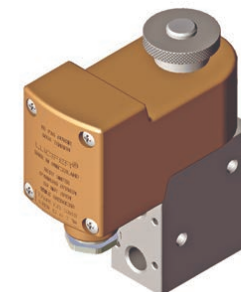
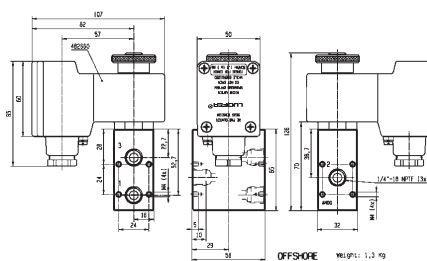
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max	DC bar	Min	Max							AC W	DC W		
1/4" NPTF	6	680	0	12	12	-25	65	NBR	U133X5156 ₂₄	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7770
	6	680	0	12	12	-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	12	12	-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	12	12	-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	12	12	-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 (2.2 following EN10204)
- 3.Valve only compatible with hydraulic oil and air/neutral gases
- 4.With manual override



Drawing 7770



Drawing 6904



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PNEUMATIC DISTRIBUTORS

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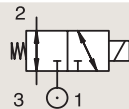
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
DIRECT OPERATED



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

316L STAINLESS ST.
PIPE MOUNTING

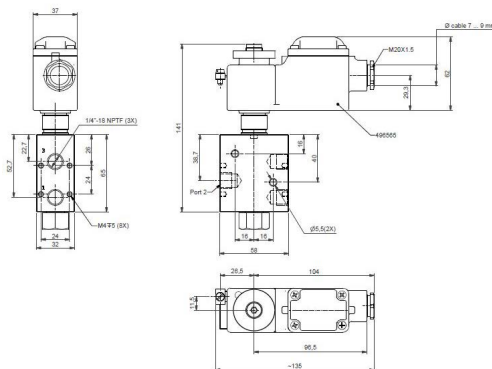
UNIVERSAL



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	Min	Max							AC W	DC W		
1/4" NPTF	6	680	0	12	-40	65	VMQ	U133X7759 ₁₋₂	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8544
	6	680	0	-	-40	65	VMQ	U133X7759 ₁₋₂	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8539
	6	680	0	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	-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	-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	-	-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	-40	65	VMQ	U133X7709 ₁	-	496895	-	-	8	8	9.0/10.1/10.2/10.3	8551
	6	680	0	-	-40	65	VMQ	U133X7709 ₁	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8550
	6	680	0	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	-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	-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	-	-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

Notes:

1. Valve delivered with an individual material traceability certificate (2.2 following EN10204)
2. With manual override



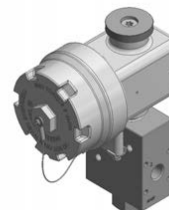
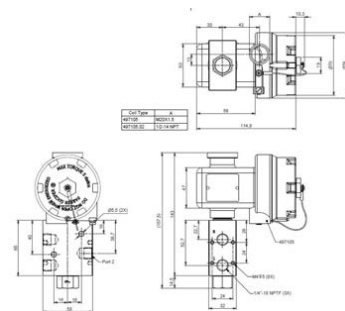
Drawing 8539



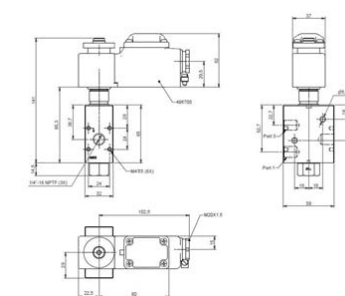
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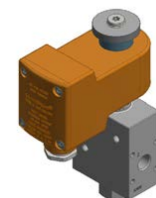
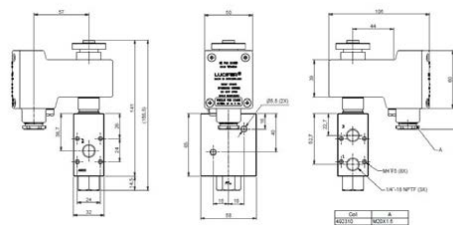
PNEUMATIC DISTRIBUTORS



Drawing 8537



Drawing 8545



Drawing 8546



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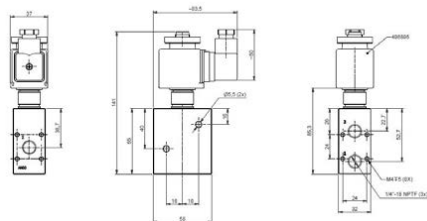
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316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)

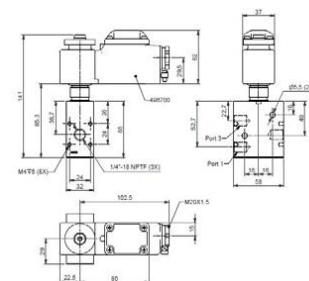
IECEX certified  

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

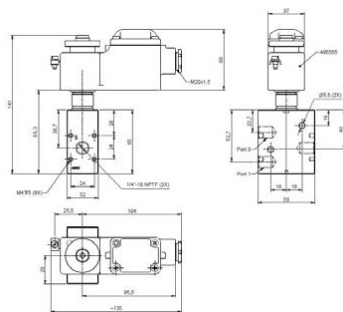
PNEUMATIC DISTRIBUTORS



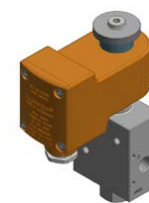
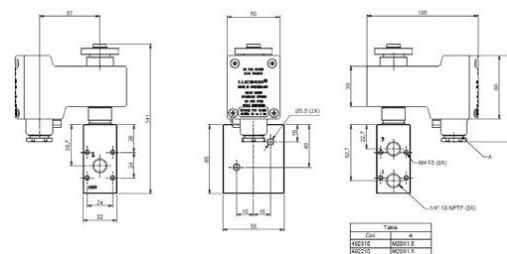
Drawing 8551



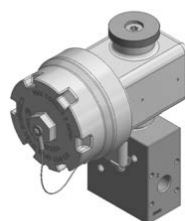
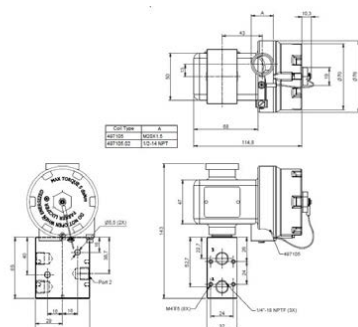
Drawing 8549



Drawing 8550



Drawing 8548



Drawing 8538



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PNEUMATIC DISTRIBUTORS

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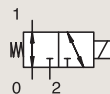
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
DIRECT OPERATED



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

316L STAINLESS ST.
PIPE MOUNTING

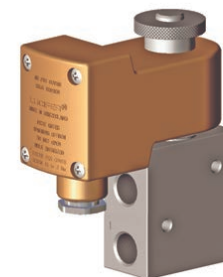
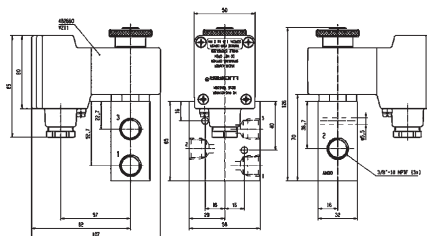
UNIVERSAL



Port size	Orifice Ø	Flow factor	Operating Pressure Differential				Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
	1		Min	Max (MOPD)		Min	Max		Valve Ref.	Housing Ref.	Coil Ref.				AC W	DC W		
	mm	Qn l/min	bar	AC bar	DC bar	°C	°C											
3/8" NPTF	6	680	0	12	12	-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	12	12	-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	12	12	-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 (2.2 following EN10204)



Drawing 7669



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PNEUMATIC DISTRIBUTORS

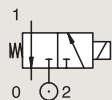
3/2

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



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

**316L STAINLESS ST.
SUB-BASE MOUNTING
NORMALLY CLOSED**

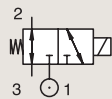


Port size	Orifice Ø	Flow factor		Operating Pressure Differential			Fluid Temp.		Seat Seal	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.		
		Kv	Qn	AC bar	DC bar	Min	Max	AC W				DC W					
mm	mm	l/min	m³/h	bar	bar	°C	°C		Valve Ref.	Housing Ref.	Coil Ref.						
SB	2.5	3.5	0.21	220	0	- 12	-25 75	FKM	U131F5295	-	496565	0-20	Ex ia IIC T4 to T6	-	0.3	9.0/10.1/10.2	8174
	2.5	3.5	0.21	220	0	12	-25 65	FKM	U131F5295	-	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	-25 65	FKM	U131F5295	-	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	-	492210	1-21	Ex db 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	-25 75	FKM	U131F5295	-	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	-25 50	FKM	U131F5295	-	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 IIC T4 to T6	-	0.3	9.0/10.1/10.2/10.3	8174
	2.5	3.5	0.21	220	0	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	-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	-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

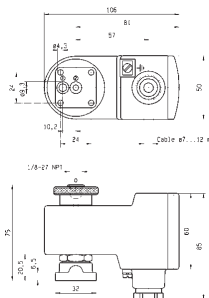
**316L STAINLESS ST.
SUB-BASE MOUNTING
UNIVERSAL**



Port size	Orifice Ø	Flow factor	Operating Pressure Differential				Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max	AC bar	DC bar	Min °C	Max °C		Valve Ref.	Housing Ref.	Coil Ref.						
															W AC	W DC		
mm	mm	Qn l/min	bar	bar	bar	bar	°C	°C							W	W		
1/4" NPTF	6	680	0	12	12	12	-25	65	FKM	U133X5195	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	3572
	6	680	0	12	12	12	-25	65	FKM	U133X5195	-	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 (2.2 following EN10204)



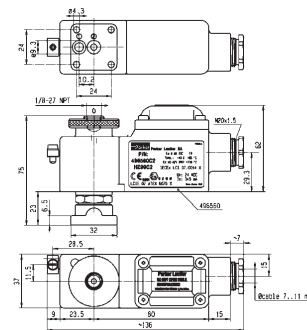
Drawing 8343



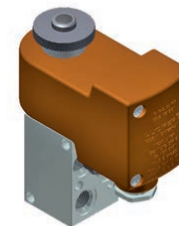
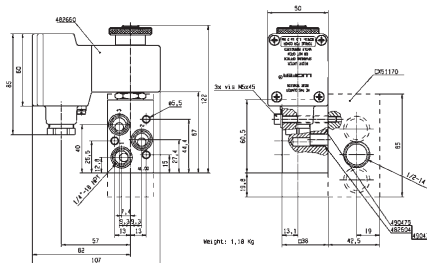
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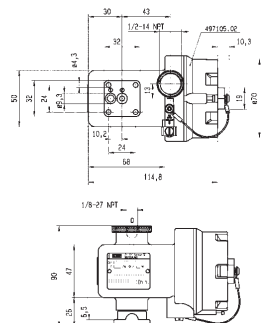
PNEUMATIC DISTRIBUTORS



Drawing 8174



Drawing 3572



Drawing 8302



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PNEUMATIC DISTRIBUTORS

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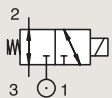
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
DIRECT OPERATED



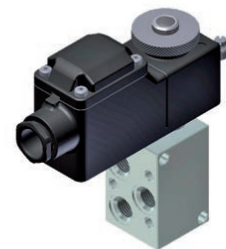
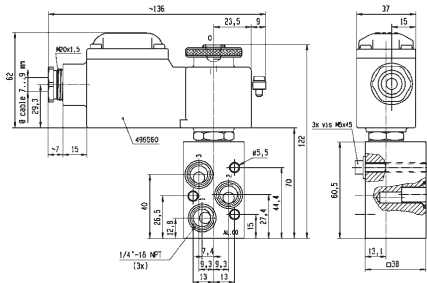
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	1/4"	6	680	10	-25
To	3/8"	6	680	10	75

316L STAINLESS ST.
SUB-BASE MOUNTING

UNIVERSAL



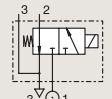
Port size	Orifice Ø	Flow factor	Operating Pressure Differential		Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Min	Max							AC W	DC W		
1/4" NPTF	6	680	0	12	-25	65	FKM	U133X7195	-	492210	1-21	Ex e mb II T3 to T6	-	1.8	9.0/10.1/10.2	8172
	6	680	0	12	-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	12	-25	65	FKM	U133X7195	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	8172



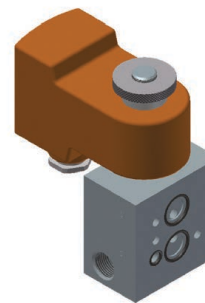
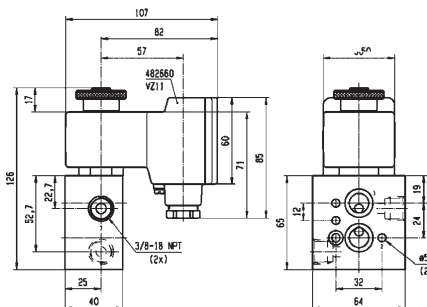
Drawing 8172

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.
			Min	Max (MOPD)	Min	Max							AC W	DC W		
3/8" NPT	6	680	0	12	-25	65	NBR	U131X1201	-	492310	1-21	Ex e mb II T3 to T6	6	6	9.0/10.1/10.2	7668
	6	680	0	12	-25	75	NBR	U131X1201	-	492965.01	0-20	Ex ia IIC T6	-	0.3 to 3	9.0/10.1/10.2	7668
	6	680	0	12	-25	65	NBR	U131X1201	-	496700	1-21	Ex d mb IIC T4 to T6	6	6	9.0/10.1/10.2	7668



Drawing 7668

Notes:

1.Valve delivered with an individual material traceability certificate (2.2 following EN10204)



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PNEUMATIC DISTRIBUTORS

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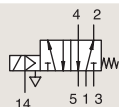
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED



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

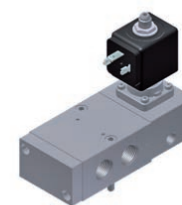
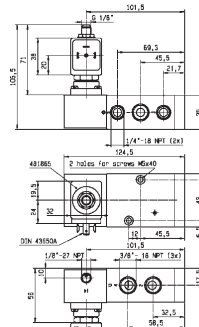
316L STAINLESS ST.
PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential				Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	Min	Max	Valve Ref.	Housing Ref.		Coil Ref.	AC W	DC W						
			AC bar	DC bar														
	mm	Qn l/min	bar	bar	°C	°C												
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	-	-	9	10	2.0	7565	

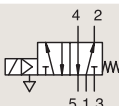
Notes:
1. Pilot seat in FKM
2. Valve with external pilot pressure minimum 4 bar



Drawing 7565

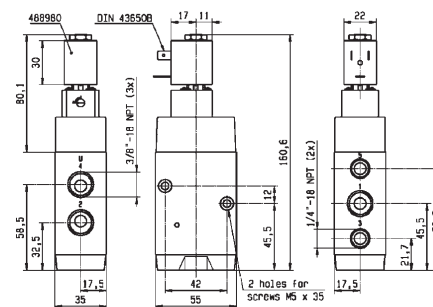
316L STAINLESS ST.
PIPE MOUNTING

NORMALLY CLOSED

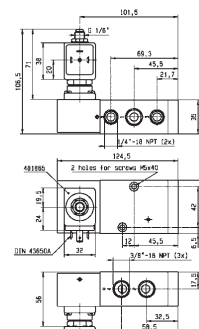


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.		
			1	Min	Max	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.								
														AC bar	DC bar				
																		AC W	DC W
mm	Qn l/min	bar	bar	bar	°C	°C													
3/8" 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		
	8	1400	2	10	10	-25	80	NBR	U341P3250 ₁	4270	481000	-	-	8	8	2.1	7558		
1/4" 3/8" NPT	8	1400	2	10	10	-25	80	NBR	U341P3250 ₁	2995	481865	-	-	9	10	2.0	7558		
	8	1400	2	10	10	-25	80	NBR	U341P3250 ₁	2995	481865	-	-	9	10	2.0	7558		

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



Drawing 7578



Drawing 7558



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PNEUMATIC DISTRIBUTORS

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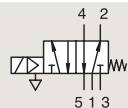
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED



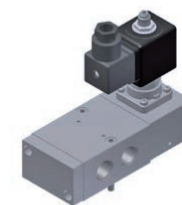
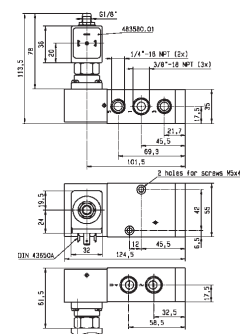
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"	8	1400	10	-25
To	3/8"	8	1400	10	75

316L STAINLESS ST.
PIPE MOUNTING

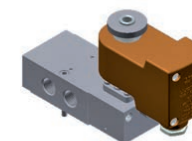
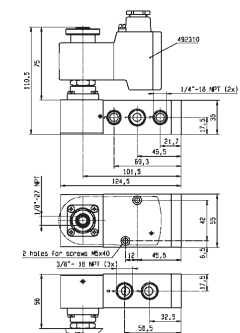
NORMALLY CLOSED



Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.		
			1	Qn l/min	Min bar	Max (MOPD)			Min °C	Max °C	Valve Ref.			Housing Ref.	Coil Ref.			AC W	DC W
						AC bar	DC bar												
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		



Drawing 7560



Drawing 7561



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PNEUMATIC DISTRIBUTORS

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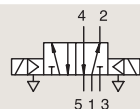
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED



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

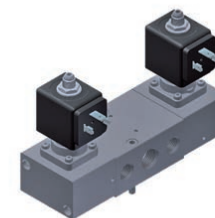
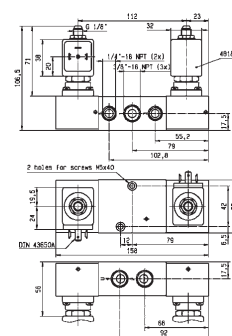
316L STAINLESS ST.
PIPE MOUNTING

DUAL SOLENOIDS

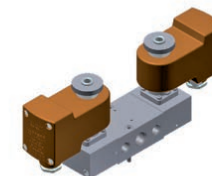
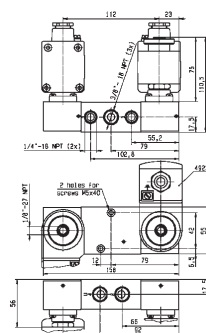


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal	Valve Ref.	Housing Ref.	Coil Ref.	ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max (MOPD)	DC bar	Min	Max							AC W	DC W		
3/8" NPT	8	1400	2	10	10	-25	80	NBR	U347P3250	4270	481000	-	-	8	8	2.1	7563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

Notes:
1. Pilot seat in FKM



Drawing 7563



Drawing 7564



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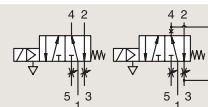
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED



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

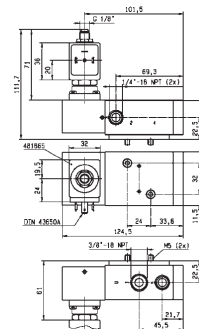
316L STAINLESS ST.
NAMUR

NORMALLY CLOSED

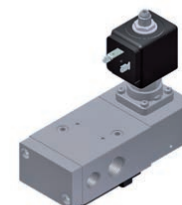
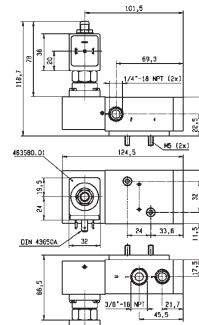


Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg No.
			Min	Max (MOPD)	DC bar	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
3/8"-1/4" NPT	8	1400	2	10	10	-25	80	NBR	U341N3250	2995	481865	-	-	9	10	2.0	7554
	8	1400	2	10	10	-25	80	NBR	U341N3250	-	492190	1-21	Ex e mb IIC T3/T4	11	9	2.1	7554
	8	1400	2	-	10	-25	55	NBR	U341N3292	2995	483580.01	0-20	Ex ia IIC T6	-	0.5	7.0	7556
	8	1400	2	10	10	-25	75	NBR	U341N3295	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1	7696
	8	1400	2	10	10	-25	75	NBR	U341N3295	-	496800	1-21	Ex d mb IIC T4	8	8	10.1	7696

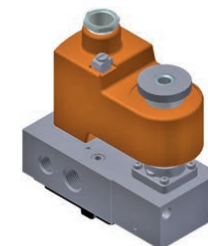
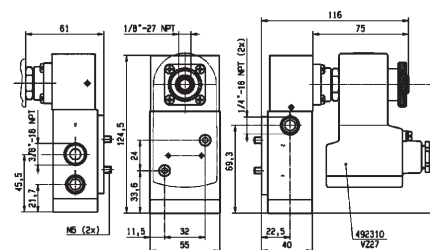
Notes:
1. Pilot seat in FKM
2. With captured exhaust
3. With manual override



Drawing 7554



Drawing 7556



Drawing 7696



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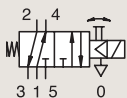
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
PILOT OPERATED



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

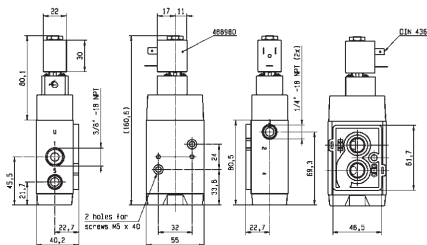
316L STAINLESS ST.
NAMUR

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							AC W	DC W		
3/8"-1/4"NPT	8	1400	2	10	-25	80	NBR	U341N0250 ₁₂₃	-	482606	1-21	Ex mb IIC T4/T5	2	2.5	1.1	7577
	8	1400	2	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



Drawing 7577



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PNEUMATIC DISTRIBUTORS

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



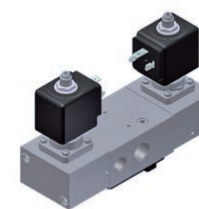
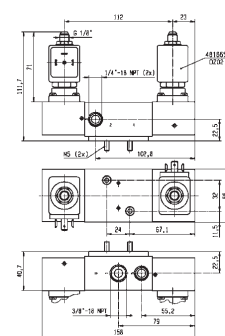
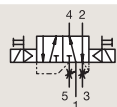
For this page	Port size	Orifice (mm)	Qn (l/min)	MOPD (bar)	Fluid Temp (°C)
From	3/8"-1/4"	8	1400	10	-25
To	3/8"-1/4"	8	1400	10	80

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)	DC bar	Min °C	Max °C							AC W	DC W		
3/8"-1/4"NPT	8	1400	2	10	10	-25	80	NBR	U347N3250	4270	481000	-	-	8	8	2.1	7557
	8	1400	2	10	10	-25	80	NBR	U347N3250	2995	481865	-	-	9	10	2.0	7557

Notes:
1. Pilot seat in FKM



Drawing 7557



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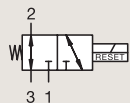
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
MANUAL RESET



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

316L STAINLESS ST.
PIPE MOUNTING

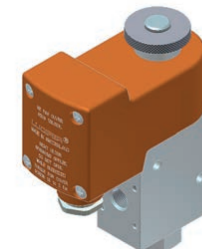
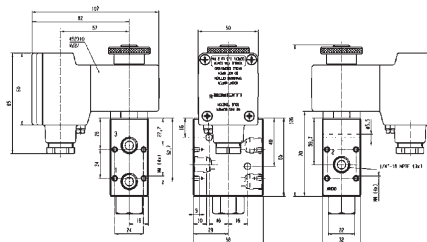
UNIVERSAL



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	Qn	Min	Max	(MOPD)	Min	Max							AC	DC		
	mm	l/min	bar	AC bar	DC bar	°C	°C							W	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	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 (2.2 following EN10204)



Drawing 7771



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PNEUMATIC DISTRIBUTORS

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

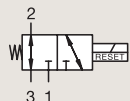
PNEUMATIC DISTRIBUTORS



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

316L STAINLESS ST.
PIPE MOUNTING

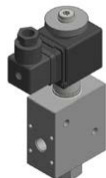
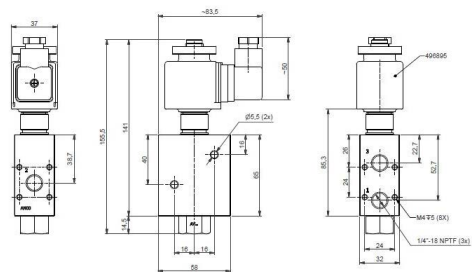
UNIVERSAL - MANUAL RESET



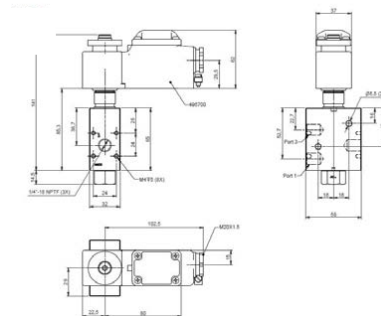
Port size	Orifice Ø	Flow factor	Operating Pressure Differential			Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			Min	Max	(MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
	1	mm	Qn l/min	bar	AC bar	DC bar	°C	°C									
1/4" NPTF	6	680	0	12	12	-40	65	VMQ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

Notes:

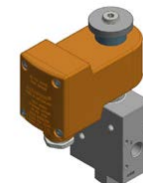
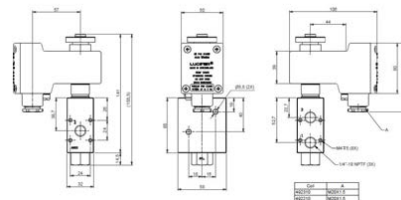
1.Valve delivered with an individual material traceability certificate (2.2 following EN10204)



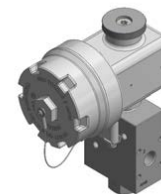
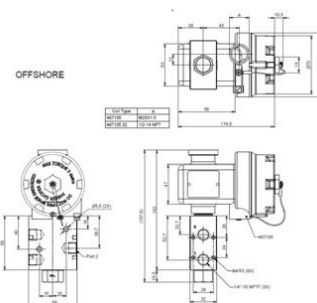
Drawing 8544



Drawing 8545



Drawing 8546



Drawing 8537



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General Catalogue FCSE/0112/UK V3 04/2026

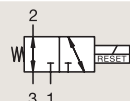
3/2

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



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

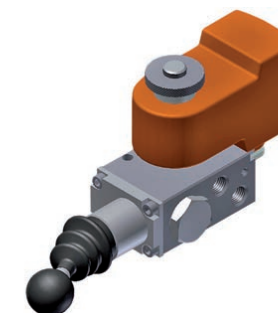
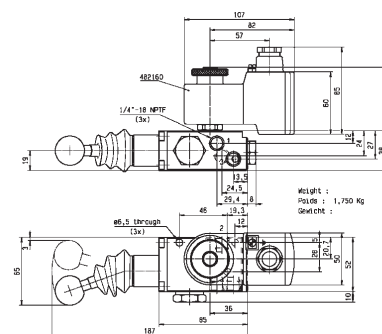
316L STAINLESS ST. PIPE MOUNTING



Port size	Orifice Ø	Flow factor	Operating Pressure Differential				Fluid Temp.		Seat Seal				ATEX Zone	Protection Mode	Power		Coil Group	Dwg. No.
			1	On	Min	Max (MPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.			AC W	DC W		
1/4" NPTF	6	560	0	12	12	-25	65	FKM	U033X5195	-	492310	1-21	Ex e mb II T3 to T6	6	6	10.1/10.2/12.0	3594	
	6	560	0	12	12	-25	65	FKM	U033X5195	-	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 (2.2 following EN10204)



Drawing 3594

PNEUMATIC DISTRIBUTORS

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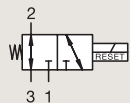
316L STAINLESS STEEL 3 & 5 WAY VALVES
FOR ACTUATOR CONTROL (PIPE MOUNTING AND NAMUR)
MANUAL RESET



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

316L STAINLESS ST.
PIPE MOUNTING

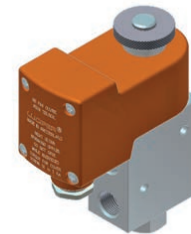
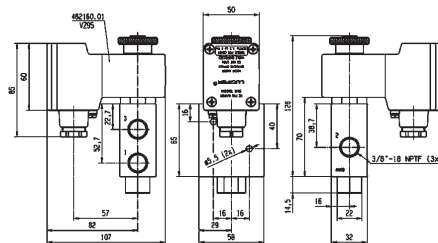
UNIVERSAL



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)	DC bar	Min	Max							AC W	DC W		
	mm	Qn l/min	bar	bar	bar	°C	°C										
	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
3/8" NPTF	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 (2.2 following EN10204)



Drawing 7671



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General Catalogue FCSE/0112/UK V3 04/2026



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ELECTROPNEUMATIC PRESSURE REGULATORS

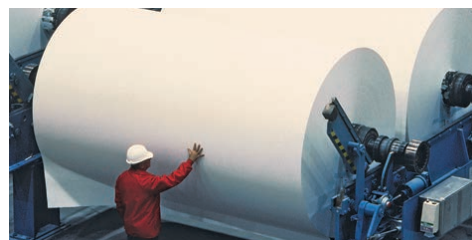
EPP4 Programmable Pressure Regulator

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
Adaptive suspension control

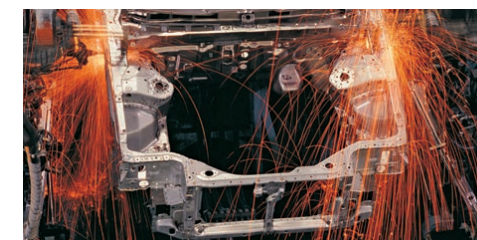


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Value Propositions for the EPP4 Range of Proportional Pressure Regulators

- 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 configure 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 which 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 pneumatic) 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 maintenance 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



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Range

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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 by 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.

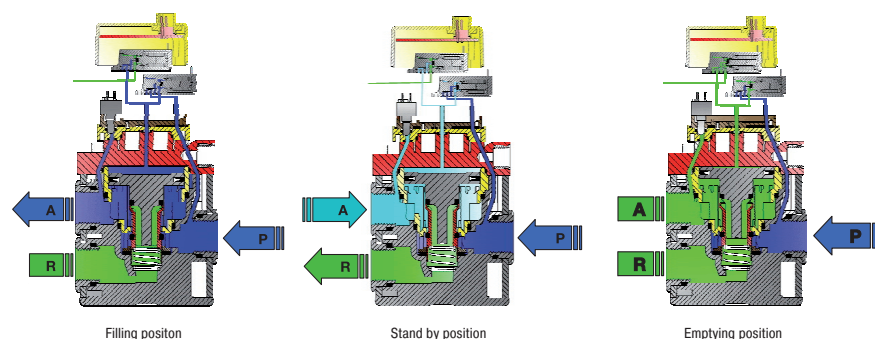
The control signal can be a voltage (0-10 V) or a current (4-20 mA). The inlet of the "Filling Valve" is connected directly to the main inlet P of the regulator;

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.



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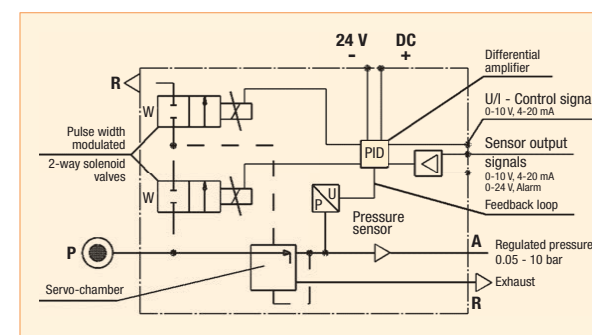
Block Diagram

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.

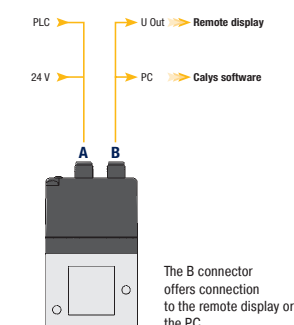
The digital signal (alarm) is activated when the conditions (out of pressure or time tolerance) are met.



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.



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EPP4 BASIC 1/4" & 1/2"

TECHNICAL DATA

	Basic 1/4"	Basic 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases Recommended filtration: 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 cm³ at the outlet of the regulator	70 m³/h	150 m³/h
Filling 2 to 4 bar:	50 msec	60 msec
Filling 2 to 8 bar:	100 msec	120 msec
Emptying 4 to 2 bar:	70 msec	90 msec
Emptying 8 to 2 bar:	130 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 mm²	
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.



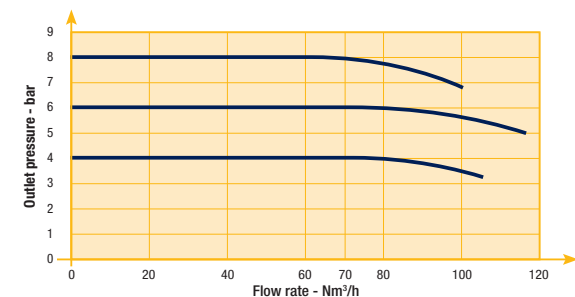
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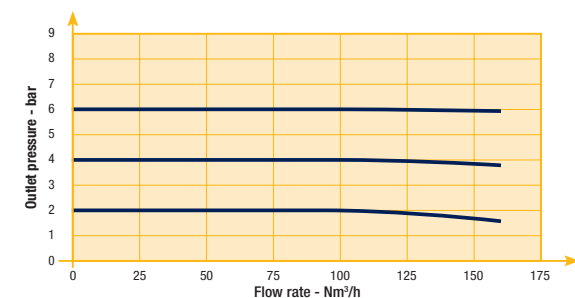
EPP4 BASIC 1/4" & 1/2"

FLOW CURVES

Flow Curve Basic 1/4"



Flow Curve Basic 1/2"



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EPP4 COMFORT 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

	Comfort 1/4"	Comfort 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 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 m³/h	150 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator	
Filling 2 to 4 bar :	50 msec	60 msec
Filling 2 to 8 bar:	100 msec	120 msec
Emptying 4 to 2 bar:	70 msec	90 msec
Emptying 8 to 2 bar:	130 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.



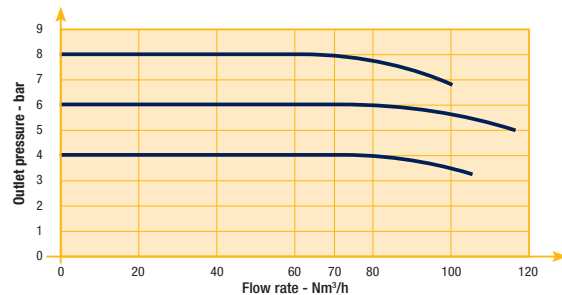
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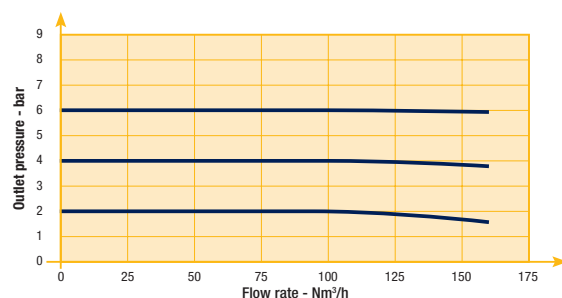
EPP4 COMFORT 1/4" & 1/2"

Flow Curves

Flow Curve 1/4"



Flow Curve 1/2"



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EPP4 COMFORT 1/2"HP, 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

	Comfort 1/2" HP	Comfort 1"	Comfort 2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 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 the control 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 m³/h	1 000 m³/h	2 700 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator		
Filling 2 to 8 bar:	120 msec	250 msec	250 msec
Emptying 8 to 2 bar:	190 msec	400 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.



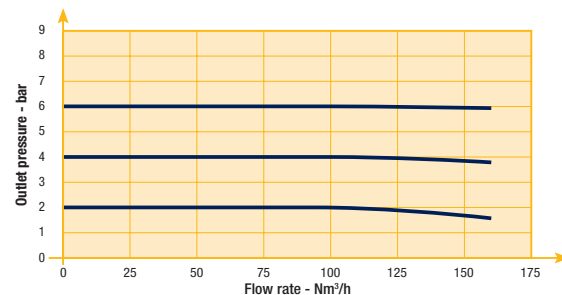
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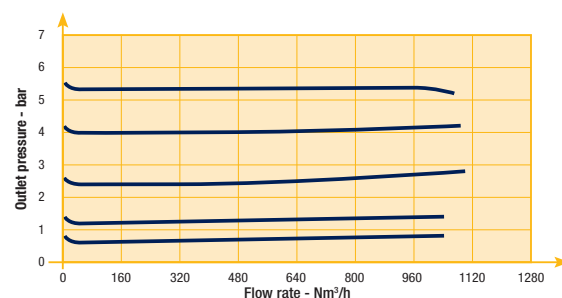
EPP4 COMFORT 1/2"HP, 1" & 2"

FLOW CURVES

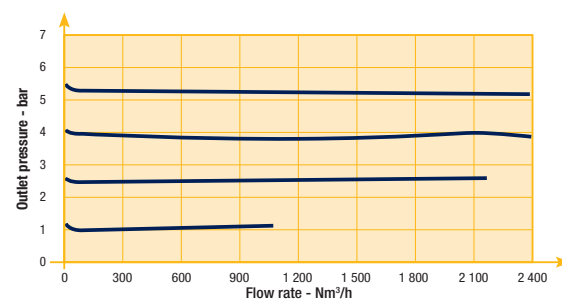
Flow Curve 1/2"HP



Flow Curve 1"



Flow Curve 2"



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EPP4 Series

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.



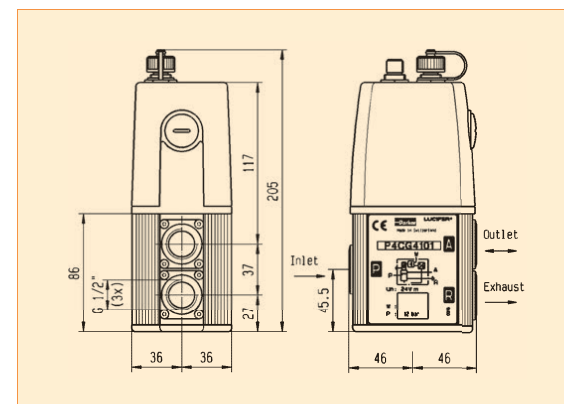
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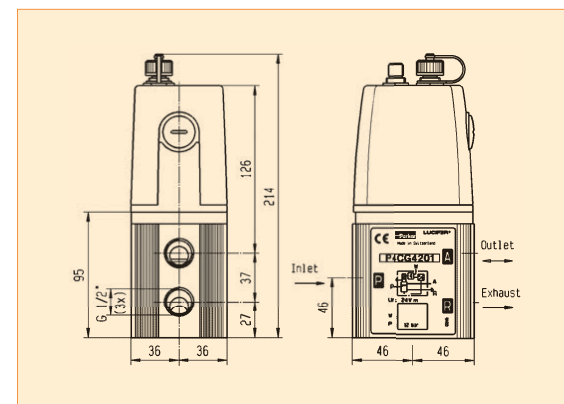
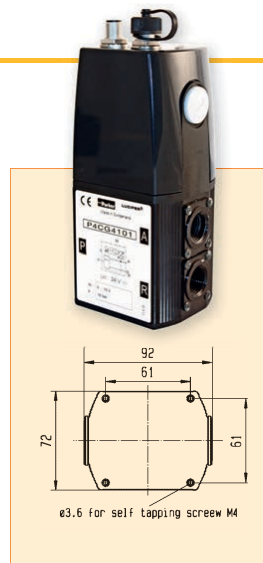
EPP4 Series

EPP4 COMFORT 1/2"HP

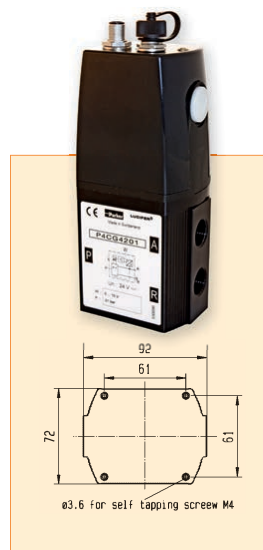
DIMENSIONS DRAWINGS



Drawing 5



Drawing 6



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EPP4 Series

EPP4 Series

EPP4 COMFORT 1" & 2"

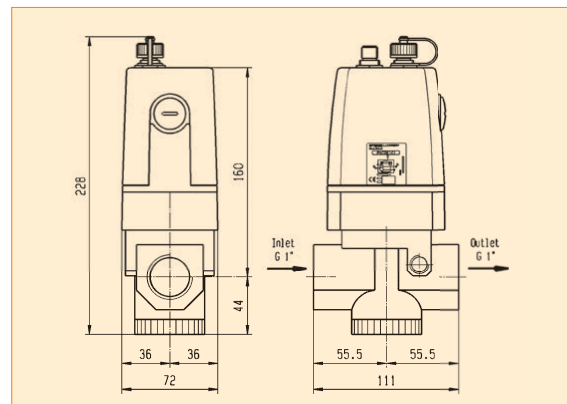
REFERENCES

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
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"

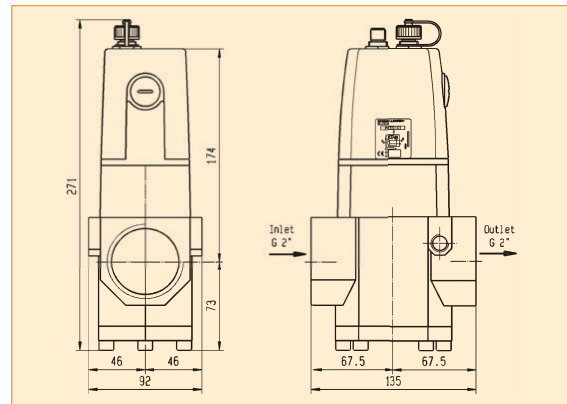
DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1"



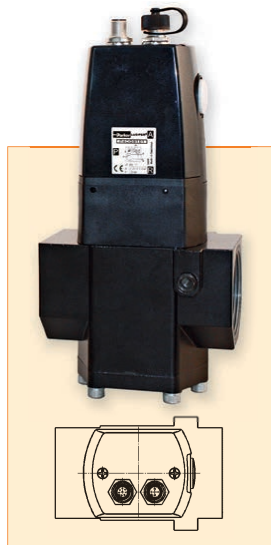
Drawing 7



DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 2"



Drawing 8



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EPP4 Series

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



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

TECHNICAL DATA

	Comfort 1/2" ATEX	Comfort 1" ATEX	Comfort 2" ATEX
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 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 IIB T130°C Dc		
Supply voltage:	24V DC ± 15 %		
Power consumption:	Max. 6 W with 24 V DC and constant changes of the control 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	Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)	
Max. flow:	150 m³/h	1 000 m³/h	2 700 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator		
Filling 2 to 8 bar:	120 msec	250 msec	250 msec
Emptying 8 to 2 bar:	190 msec	400 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.



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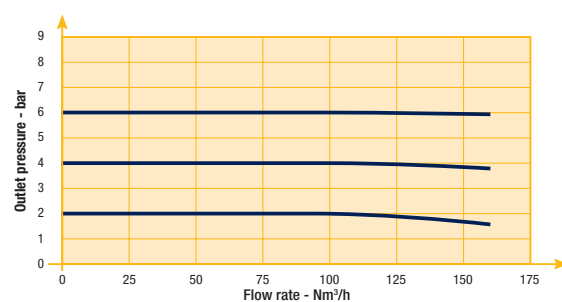
EPP4 Series

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

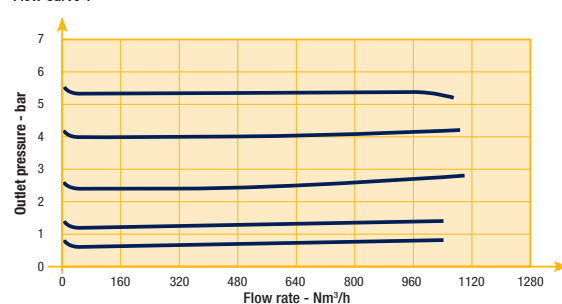


FLOW CURVES

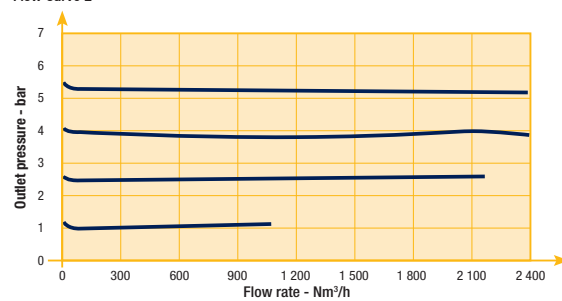
Flow Curve 1/2"



Flow Curve 1"



Flow Curve 2"



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EPP4 Series

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

** 02

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



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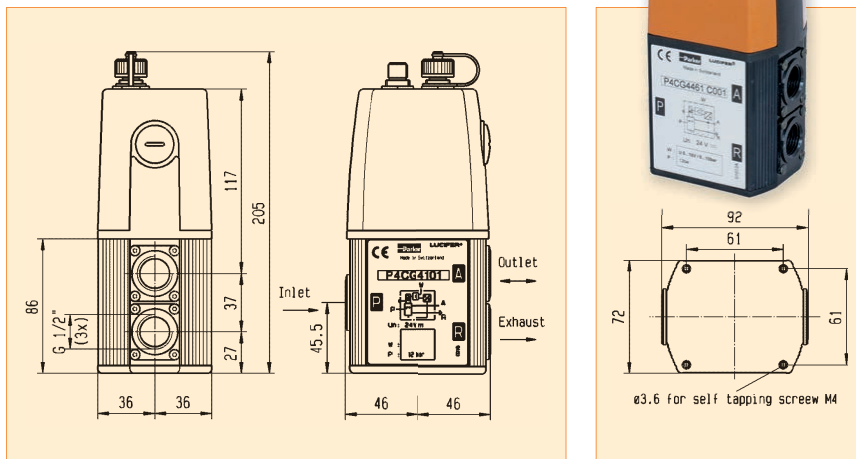
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EPP4 Series

EPP4 COMFORT 1/2" ATEX



DIMENSIONS DRAWINGS



Drawing 9



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EPP4 COMFORT 1" & 2" ATEX



REFERENCES

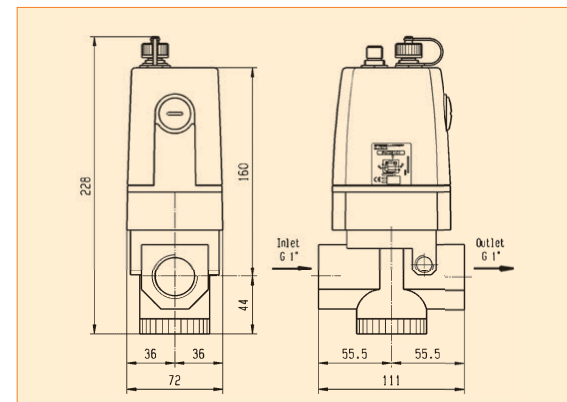
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)	Control signal (see options)	Dimensional Drawing
P4CG6161C001	G1	12	0 10	0-10 V	11
P4CG6161C002	G1	12	0 10	4-20 mA	11
P4CG9161C001	G2	12	0 10	0-10 V	12
P4CG9161C002	G2	12	0 10	4-20 mA	12

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

EPP4 COMFORT 1" & 2" ATEX



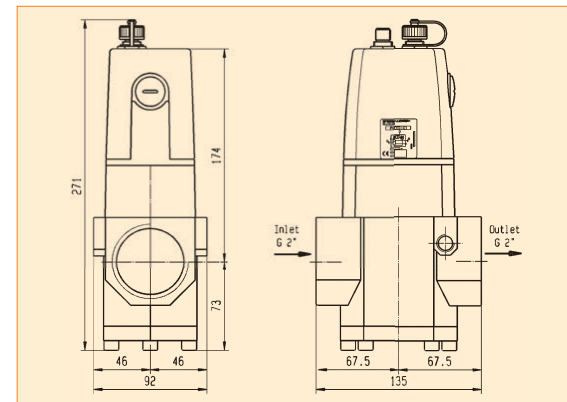
DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 1"



Drawing 11



DIMENSIONS DRAWINGS EPP4 COMFORT RANGE 2"



Drawing 12



EPP4 Series

EPP4 ACCESSORIES

MOUNTING BRACKETS FOR EPP4 1/4" BASIC / COMFORT



This mounting bracket is delivered as a standard with all EPP4 1/4".



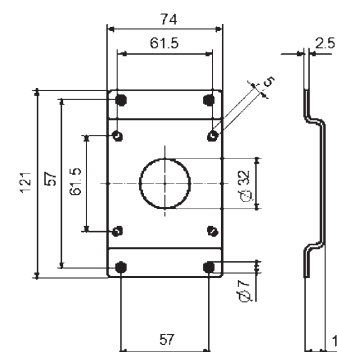
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EPP4 Series

EPP4 ACCESSORIES

MOUNTING BRACKETS FOR EPP4 1/2" BASIC / COMFORT



Order reference 491366



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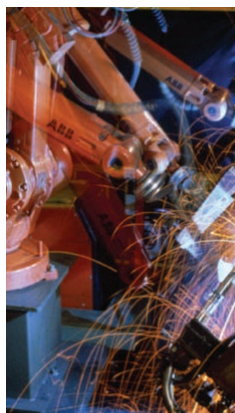
EPP4 ACCESSORIES

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 496796K



EPP4 COMFORT ACCESSORIES

calys SOFTWARE

Calys is a unique software in house developed to configure 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.

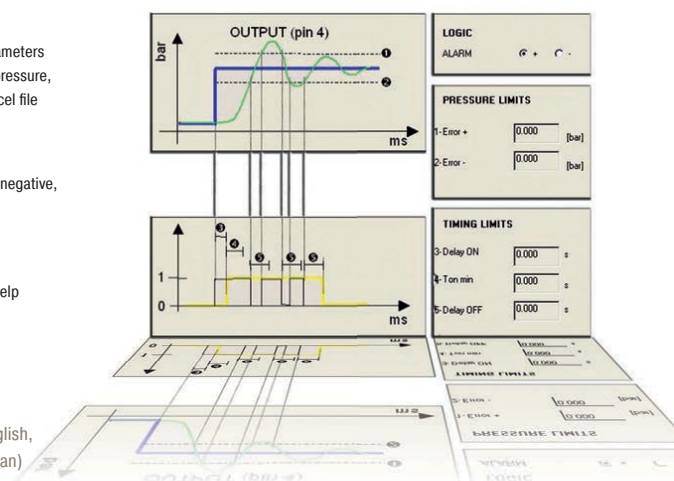


Calys offers many capabilities:

- 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.

NOTES

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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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	-40°C to +50°C	-	IP65	Ex nAc nCc IIC T5 IP65	473
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	477
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	479
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	478
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	474
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	476
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	474
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	472
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	475
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	481
482606	1.1	Explosion proof encapsulated electrical part "mb", 32 mm	2.5	2.0	-40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
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	482
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	483
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	484
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	480
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	489
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	486
496560	10.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +80°C	-	IP67	II 2 G Ex db mb IIC T4	487
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	488
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	485
496555	10.2	Flame proof encapsulated electrical part "db mb", 37 mm	6.0	6.0	-40°C to +80°C	-	IP67	II 2 G Ex db mb IIC T4/T5/T6	487
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	488
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	490
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	490
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	493
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	491
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	492
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	495
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	496
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	494
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	498
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	497
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	499
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.1, Gr. A, B, C, D	498

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 Intrinsically 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 Intrinsically safe coils or electrical parts with booster
9.0	Special valves "xx" or on 9000 Series, for Intrinsically 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

COILS

COIL GROUP

2.0

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.



Reference (Without DIN Plug)	481865			
Coil Group	2.0			
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)	-	10 W
		P (cold) 20°C	-	14 W
	AC	Pn (holding)	8 to 11 W	-
		Attraction cold	13 W	-
Weight	130 g (without plug)			
Voltages "Un"	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un	12V 50-60Hz	1W	12V	C1*
	24V 50-60Hz	P0*	24V	C2*
	48V 50-60Hz	S4	48V	C4*
	110V 50Hz 115-120V 60Hz	T8*	72V	0N*
	100V 50Hz 100-120V 60Hz 200V	T7	96V	1T*
	50-60Hz	P6	110V	C5*
	220-240V 50Hz 240V 60Hz	S6*		
	380V 50Hz	A9		

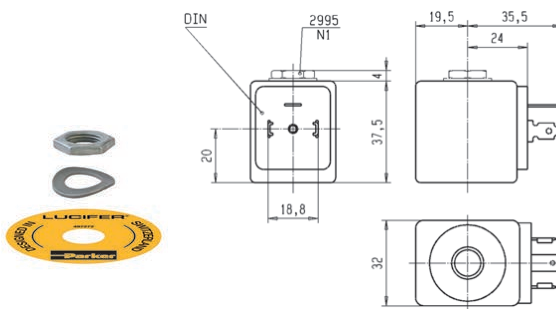
To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = 481865C2

* = UL Approved

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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COILS

COIL GROUP

2.0/2.2

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.



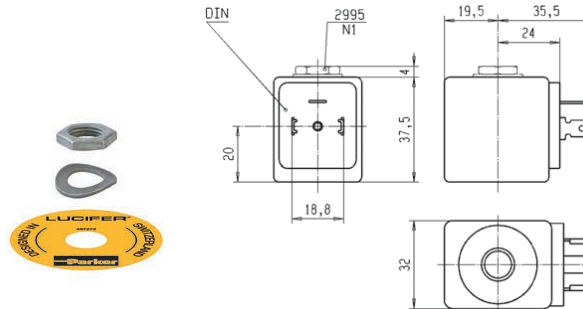
Specification		High temperature + high power							
Ref. (without DIN plug)		492425							
Ref. (with DIN plug)		492425							
Coil Group		2.0 / 2.2							
Degree of protection		IP65 according to IEC / EN 60529 standards (with DIN plug).							
Class of insulation		H 180°C							
Electrical connection		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)	14 W						
		P (cold) 20°C	21 W						
	AC	Pn (holding)	14 W						
		Attraction cold	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	A2	24	C2	24/50	A2	24	C2
		110/50	A5			110/50	A5		
		220/50-230/50	3D	110	C5	230/50	F4		

To Order a Coil choose Coil Ref + Voltage Code, example: 492425 for 24 VDC = 492425C2

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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COILS

COIL GROUP

3.0

COILS FOR DIN PLUG CONNECTION



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.



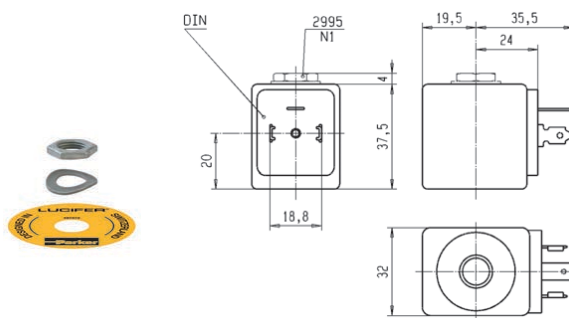
Specification		Reduced power			
Ref. (without DIN plug)		482730			
Ref. (with DIN plug)					
Coil Group		3.0			
Degree of protection		IP65 according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation		H 180°C			
Electrical connection		The coil is connected with a 2 P + E plug according 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)	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

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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COILS

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.



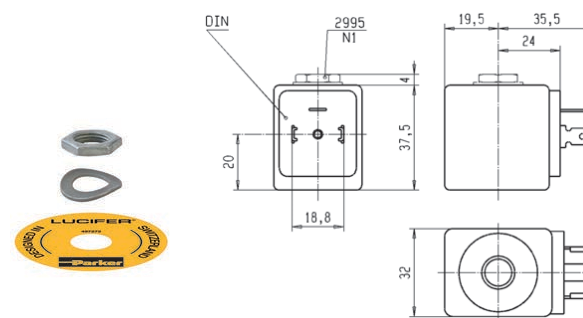
Specification		Miniwatt	
Reference (without DIN plug) Reference (with DIN plug)		482740	
Coil Group		6.0	
Degree of protection		IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation		H 180°C	
Electrical connection		The coil is connected with a 2 P + E plug according to EN 175301-803 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)	1.6 W
		P (cold) 20°C	2.1 W
	AC	Pn (holding)	-
		Attraction cold	-
Weight		130 g (without plug)	
Voltages "Un" -10% to +10% of the Un		VDC 24	Code C2

To Order a Coil choose Coil Ref + Voltage Code, example: 482740 for 24 VDC = 482740C2

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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COILS

COIL GROUP

2.0/2.1

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.

DIN plug connector to be ordered separately (see coil accessories section)



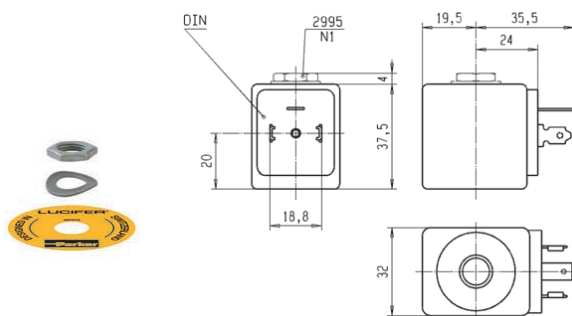
Specification		UL-recognized coil		
Reference (without DIN plug)		491514		
Coil Group		2.0 / 2.1		
Degree of protection		IP65 according to IEC / EN 60529 standards (with DIN plug).		
Class of insulation		H 180°C		
Electrical connection		The coil is connected with a 2 P + E plug according to EN 175301-803 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)	-	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
- 15% to +10% of the Un		110/50-120/60	P3	12
		220/50-240/60	Q3	24
		24/60	B2	
		208-240/60	U3	
				Code
				C1
				C2

To Order a Coil choose Coil Ref + Voltage Code, example: 491514 for 24 VDC = 491514C2

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.



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COILS

COIL GROUP

2.2

COILS FOR
DIN PLUG CONNECTION



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)



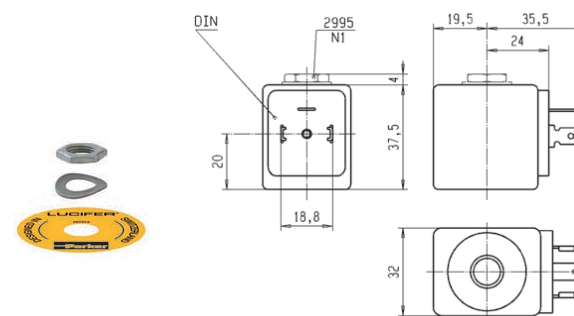
Specification		32 mm coil 14 W		
Reference		483816		
Coil Group		2.2		
Degree of protection		IP65 according to IEC / EN 60529 standards (with DIN plug).		
Class of insulation		H 180°C		
Electrical connection		The coil is connected with a 2 P + E plug according to EN 175301-803 type A		
Ambient temperature		-40°C to +50°C The application is limited also by the temperature range of the valve.		
Elect. Power	DC	Pn (hot)	-	14 W
		P (cold) 20°C	-	-
	AC	Pn (holding)	14 W	-
		Attraction cold	-	-
Weight		160 g		
Voltages "Un"		VDC	Code	
-10% to +10% of the Un		24 V	C2	

To Order a Coil choose Coil Ref + Voltage Code, example: 483816 for 24 VDC = 483816C2

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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COILS

COIL GROUP

1.1

COILS FOR DIN PLUG CONNECTION



COILS 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 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)



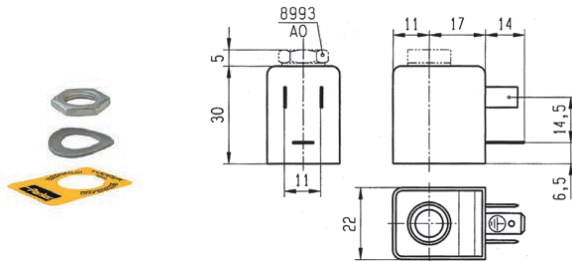
Specification			Low power			High power				
Ref. (without DIN plug) Ref. (with DIN plug)			488980			481180				
Coil Group			1.1							
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).							
Class of insulation			F 155°C							
Electrical connection			The coil is connected 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	A2						
			48/50	A4	12	C1				
			110/50-115/50	0A	24	C2	24/50	A2	12	C1
			220/50-230/50	3D	48	C4	110/50-115/50	0A	24	C2
			24/60	B2	110	C5	220/50-230/50	3D	110	C5
			110-115/60	6J						
			220-230	7J						

To Order a Coil choose Coil Ref + Voltage Code, example: 488980 for 24 VDC = 488980C2

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.



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COILS

COIL GROUP

1.1

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.



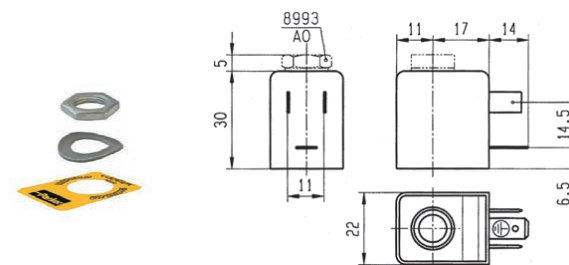
Specification		Standard (only if used with 321K, 121M, 131M valves)			
Reference (without DIN plug) Reference (with DIN plug)		492912			
Coil Group		1.1			
Degree of protection		IP65 according to IEC / EN 60529 standards (with DIN plug).			
Class of insulation		A 105°C for UL/CSA			
Electrical connection		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		230/50-240/60	T1	24	C2

To Order a Coil choose Coil Ref + Voltage Code, example: 492912 for 24 VDC = 492912C2

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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COILS

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).



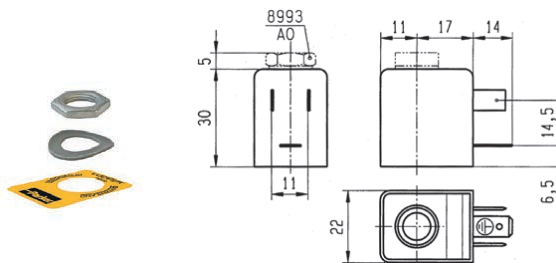
Specification			Double frequency	
Reference (without DIN plug)			483590	
Coil group			1.1	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type 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	P0
			48/50-60	S4
			110-115/50, 120/60	S5
			220-240/50, 240/60	S6

To Order a Coil choose Coil Ref + Voltage Code, example: 483590 for 24/50,24/60 = 483590P0

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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COILS

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).



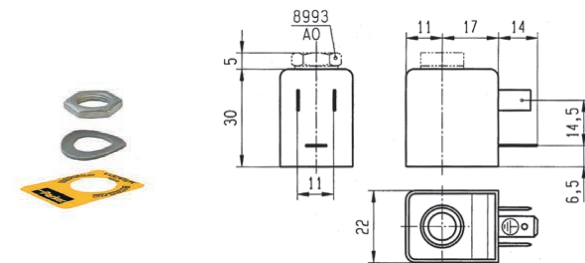
Specification			Double frequency	
Reference (without DIN Plug)			488143	
Coil group			1.1	
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).	
Class of insulation			F 155°C	
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type 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			200/50-60	P6

To Order a Coil choose Coil Ref + Voltage Code, example: 488143 for 200/50-60 = 488143P6

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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COILS

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.

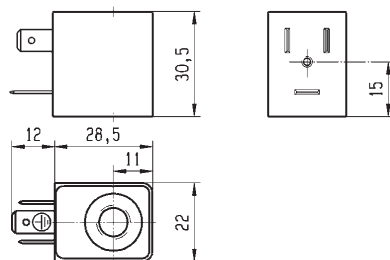
DIN plug connector to be ordered separately (see coil accessories section).



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	12 V	C1
		110/50-60	P2	24 V	C2
		230/50-60	P9	48 V	C4
		48/50-60	S4	110 V	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 496131 for 24 VDC = 496131C2

"The housing kit is already included in the valve reference, it is not needed to order it separately."



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COILS

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.

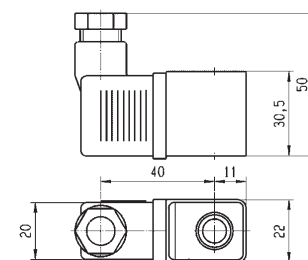
DIN plug connector included.



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	12 V	C1
			110/50-60	P2	24 V	C2
			230/50-60	P9	48 V	C4
			48/50-60	S4	110 V	C5
			115/60	K8		

To Order a Coil choose Coil Ref + Voltage Code, example: 496482 for 24 VDC = 496482C2

"The housing kit is already included in the valve reference, it is not needed to order it separately."



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COILS

COIL GROUP

1.2

COILS FOR DIN PLUG CONNECTION



DOUBLE FREQUENCY COIL 22 MM

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.

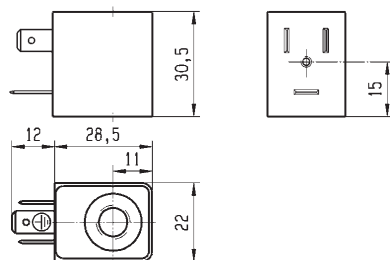
Coil conforms to the IEC/CENELEC safety standards and complies with European low-voltage directive.

DIN plug connector to be ordered separately.



Specification			Double frequency			
Reference (with DIN plug)			497510			
Coil group			1.2			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug)			
Class of insulation			F 155°C / H 180°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	9,3 W			
	AC	Pn (holding)	4,5 W			
		Attraction cold	7,5 VA			
Weight			90 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50-60	P0	24 V	C2 (UL)
			110-120/60	3K (UL)		
			220-230/50-60	3P		
			208-240/60	U3 (UL)		

To order a Coil choose Coil Ref + Voltage Code, example: 497510 for 24 VDC = 497510C2
The housing kit is already included in the valve reference, it is not needed to order it separately.»



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COILS

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.

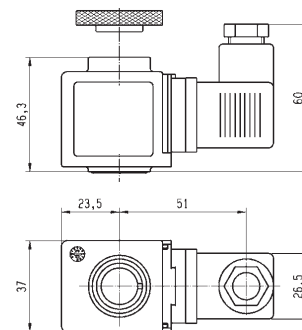
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

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	P9	24 V	C2		
		110/50-60	P2			48 V	
		24/50-60	P0				110 V
		48/50-60	S4				

To Order a Coil choose Coil Ref + Voltage Code, example: 496895 for 24 VDC = 496895C2
The fixing nut (housing kit) is already included in the coil kit.



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COILS

COIL GROUP

2.0/2.1

COILS WITH
FLYING LEADS



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.

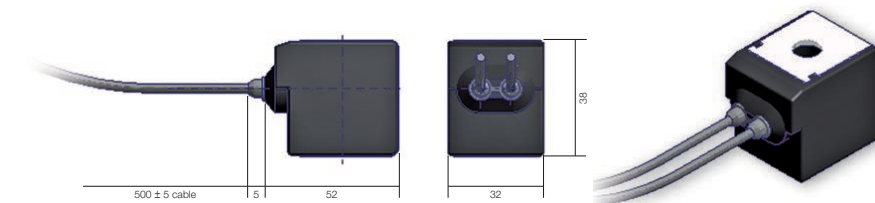
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



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	P0	12	C1
			110-115/50 - 120/60	S5	24	C2
			220-240/50 - 240/60	S6		

To Order a Coil: Coil Ref + Voltage Code, example: 496081 for 24 VDC = 496081C2

To assemble this coil on our solenoid valves, please order housing Ref: 2995



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COILS

COIL GROUP

2.0/2.1



COIL 32 MM IP67 UL

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.

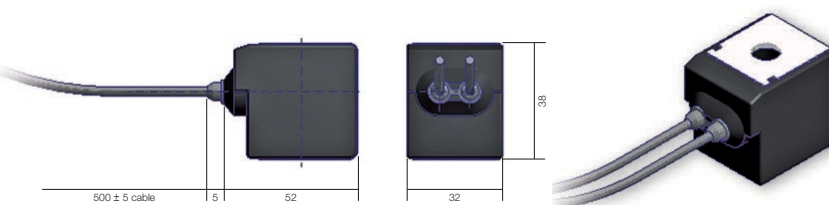
Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification		UL Coil with two 500 mm flying leads			
Reference		496082			
Coil Group		2.0/2.2			
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)	16 W		
		P (cold) 20°C	-		
	AC	Pn (holding)	13-14 W		
		Attraction cold	40 VA		
Weight		180 g			
Voltages "Un"		VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC - 5 % to + 10 % for Un DC		110/50	P3	24	C2
		220/50	Q3	12	C1

To Order a Coil: Coil Ref + Voltage Code, example: 496082 for 24 VDC = 496082C2



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COILS

COIL GROUP

2.0/2.1

COILS WITH
SCREW TERMINALS



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.

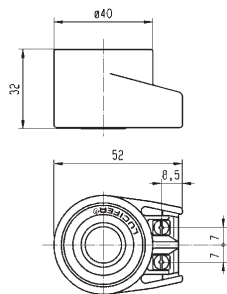
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



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
-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	A2		
			48/50	A4	6	C0
			110/50-115/50	0A	12	C1
			220/50-230/50	3D	24	C2
			24/60	B2	48	C4
			42-48/60	S7	110	C5
			110-115/60	6J	220	C7
			220-240/60	4K		
					24/50-60	P0
					220-240/50-240/60	S6

To Order a Coil choose Coil Ref + Voltage Code, example: 4828 for 24 VDC = 481000C2

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



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COILS

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.

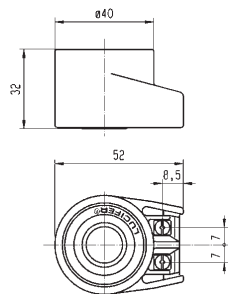
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



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	A2
		220/50	A7
		230/50	F4
		380/60	A9
		24/60	B2
		220/60	B7
		230/60 - 200/50	S2
		115/60 - 100/50	0P

To Order a Coil choose Coil Ref + Voltage Code, example: 481044 for 24VAC/50Hz = 481044A2

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



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COILS

COIL GROUP

2.0/2.2

COILS WITH
SCREW TERMINALS



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.

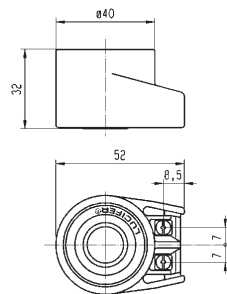
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



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		
			110/50		A5	12	C1
			220/50		A7	24	C2
			230/50		F4	36	C3
			380/60		A9	48	C4
			220/60		B7		
			230/60 - 200/50		S2		
			115/60 - 100V/50		OP		

To Order a Coil choose Coil Ref + Voltage Code, example: 486265 for 24VAC/50Hz = 486265

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



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COILS

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.

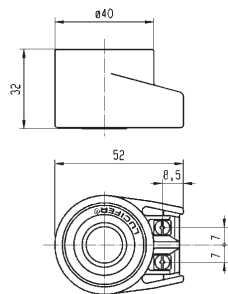
This coil is used only in safety application according to DIN/EN/ISO 23551-1:2009-10 (Oil burners)



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	A6
			240/50	A8
			110/60	B5
			220/60	B7
			58/50-60/60	T6
			55/60	4J
			115/50 - 120/60	P8
			230/50 - 240/60	T1

To Order a Coil choose Coil Ref + Voltage Code, example: 483824 for 120/50 = 483824A6

These coils must be used with suitable housings, Ref: 8760.24 and Ref: 8520.23



Ref. 8760.24



Ref. 8520.23



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Fluid Control Solutions Europe
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COILS

COIL GROUP

14.3

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.

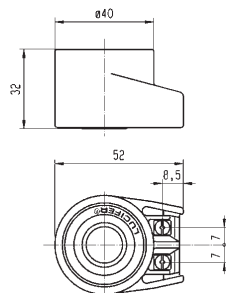
Coil conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.
This coil is used only in safety application according to DIN/EN/ISO 23551-1:2009-10 (Oil burners)



Specification			High Temperature & High Power	
Reference			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	A6
			240/50	A8
			110/60	B5
			220/60	B7
			58/50-60/60	T6
			55/60	4J
			115/50 - 120/60	P8
			230/50 - 240/60	T1

To Order a Coil choose Coil Ref + Voltage Code, example: 483541 for 120/50 = 483541A6

These coils must be used with suitable housings, Ref: 8760.24 and Ref: 8520.23



Ref. 8760.24



Ref. 8520.23



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COILS

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.

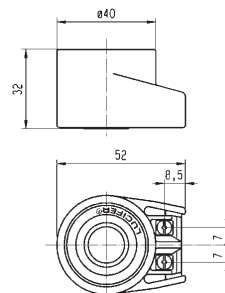
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



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	P1
			200/50-60	P6

To Order a Coil choose Coil Ref + Voltage Code, example: 488553 for 110/50-60 = 488553P1

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



Ref. 4270 - Protection IP 44



Ref. 8520 - Protection IP 54



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COILS

COIL GROUP

4.0

COILS WITH SCREW TERMINALS



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.



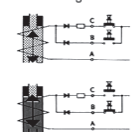
Specification		Bistable (Impulse)		
Reference		484990		485400
Coil Group		4.0		
Class of insulation		F 155°C		
Ambient temperature		-40°C to +50°C The application is limited also by the temperature range of the valve.		
Length of impulses		Switch on (terminals A-B): minimum 50 ms Switch off (terminals A-C): minimum 35 ms		
Elect. Power consumption	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
-10% to +10% of the Un		24/50-24/60	P0	24
		110-115/50-115/60	1P	48
		220-230/50-60	3P	110
		48/50-60	S4	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 485400 for 24 VDC = 485400C2

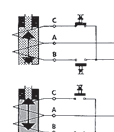
These coils must be used with suitable housings, see examples below:

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

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COILS

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 dismantling in confined spaces. Bayonet twist and lock coupling for tight, vibration resistant connection.

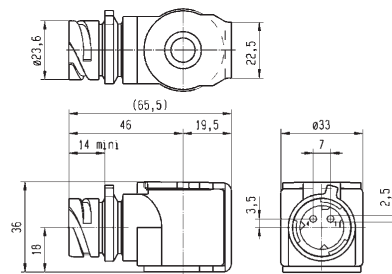
Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification		Transportation		
Reference		496193 with diode		495294 without diode
Coil Group		13.0		
Degree of protection		IP69K for DIN 40050 part 9		
Ambient 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
-30% to +30% of the Un		12	C1	12
		24	C2	24

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.



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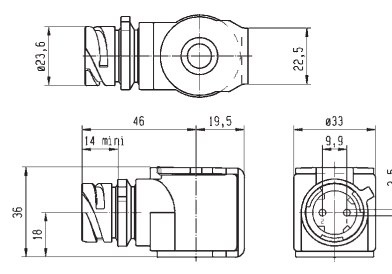


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EXPLOSION-PROOF
ELECTRICAL PARTS

COIL GROUP

1.1

ELECTRICAL PARTS
"nAc nCc"



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.

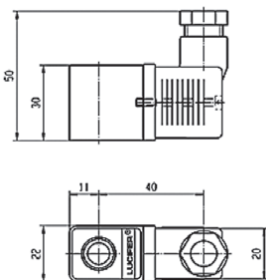
Benefits:

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	A2	24	C2
		110/50-115/50	0A		
		220/50-230/50	3D		

To Order a Coil choose Coil Ref + Voltage Code, example: 495865 for 24 VDC = 495865C2



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EXPLOSION-PROOF
ELECTRICAL PARTS

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.

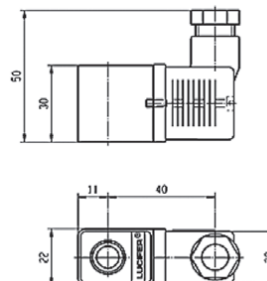
Benefits:

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 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			
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	P0	12 V 24 V 48 V	C1
			110/50-60	P2		C2
			230/50-60	P9		C4
			48/50-60	S4		
			115/60	K8		

To Order a Coil choose Coil Ref + Voltage Code, example: 496637 for 24 VDC = 496637C2



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EXPLOSION-PROOF ELECTRICAL PARTS

COIL GROUP

2.0/2.1

ELECTRICAL PARTS
"nAc nCc"



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.

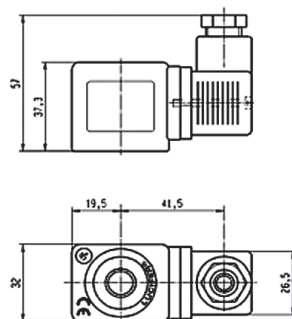
Benefits:

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 Dust II 3 D - Ex tc IIIC - T195°C / T130°C	II 3 G Ex nAc nCc IIC T3/T4 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%	
Ambient 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
	Attraction cold	26 VA (9 W)
Weight	150 g	
Voltagess "Un"	VAC/Hz	Code
-10% to +10% of the Un	220-230/50	3D
	24	C2
	48	C4
	110	C5
	24/50-60	P0
	48/50-60	S4
	110-115/50, 120/60	S5
	220-240/50, 240/60	S6

To Order a Coil choose Coil Ref + Voltage Code, example: 495870 for 24 VDC = 495870C2



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EXPLOSION-PROOF ELECTRICAL PARTS

COIL GROUP

6.0

ELECTRICAL PARTS
"nAc nCc"



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.

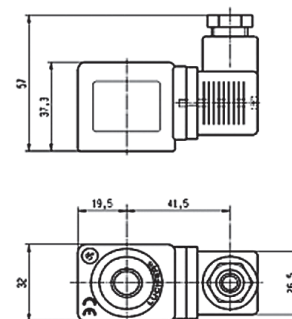
Benefits:

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%	
Ambient 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"		VDC	Code
-10% to +10% of the Un		24	C2
		48	C4
		110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 496125 for 24 VDC = 496125C2



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EXPLOSION-PROOF ELECTRICAL PARTS

COIL GROUP

3.0

ELECTRICAL PARTS
"nAc nCc"



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.

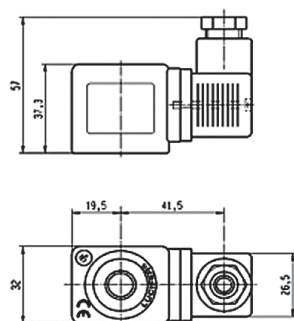
Benefits:

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.



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



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EXPLOSION-PROOF ELECTRICAL PARTS

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.

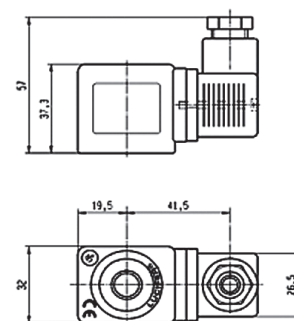
Benefits:

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%			
Ambient 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	A2	24	C2
		110/50	A5		
		230/50	F4		

To Order a Coil choose Coil Ref + Voltage Code, example: 495880 for 24 VDC = 495880C2



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EXPLOSION PROOF
ELECTRICAL PARTS

COIL GROUP

4.0

INCREASED SAFETY
ELECTRICAL PARTS
"nAc nCc"



ZONE 2/22

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 varnished steel with internal and external screw terminals for earth connection.

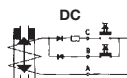
Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.



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			
Consumation 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		
		220-230/50-60	3P	24	C2
		48/50-60	S4	48	C4
		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 simultaneously 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)



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Parker Hannifin Corporation
Fluid Control Solutions Europe
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COIL GROUP

2.0/2.2

INCREASED SAFETY
ELECTRICAL PARTS
"nAc nCc"



ZONE 2/22

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 varnished 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.

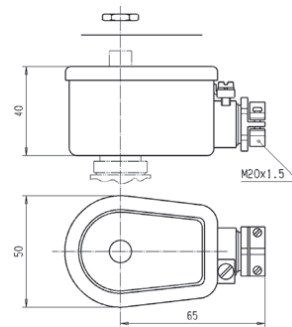


Reference		496155			
Certificate		LCIE 05 ATEX 6010 X			
Coil Group		2.0/2.2			
Type of protection	Gas	II 3 G Ex nAc nCc IIC T3			
	Dust	II 3 G D - Ex tc IIIC - T 195 °C			
Degree of protection		IP67 according to IEC/EN 60529 Standards			
Ambient temperature		-40°C to +65°C The application is limited also by the temperature range of the valve.			
Insulation Class		H 180°C			
Electrical connection		By special cable gland or M20x1.5 on screw terminals for wires up to 1.5 mm ² . 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	A2	24	C2
		230/50	F4	48	C4
		110/50	A5		

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.



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUP

10.3

FLAMEPROOF ELECTRICAL PARTS "db"



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.

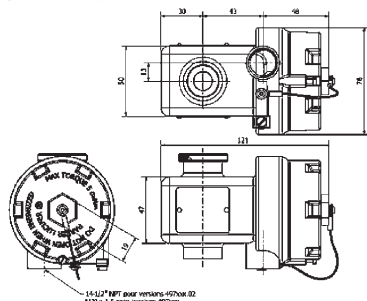
Benefits: Rotatable 360°, stainless steel with internal and external screw terminals for earth connection.

Small size for ease of mounting in confined space. Simplifies conversion of existing equipment 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		H 180°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	P0	12	C1
		110-115 / 50-60	1P	24	C2
		220-230 / 50-60	3P	48	C4
				110	C5

To Order a Coil choose Coil Ref + Voltage Code, example: 497105 for 24 VDC = 497105C2



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

COIL GROUP

1.1

ENCAPSULATED ELECTRICAL PARTS "mb"



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					
Ambient temperature		-40°C to +65°C / +40°C		-40°C to +65°C / +35°C			
Insulation Class		The application is limited also by the temperature range of the valve. F 155°C					
Electrical connection		Cable connection (3 x 0.75 mm ²) 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	C1	24/50	A2	12	C1
		24	C2	48/50	A4	24	C2
				110/50-115/50	0A	24	C2
				220/50-230/50	3D	48	C4
				220-230/60	7J	110	C5
				24/60	B2		

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 below:

482605:

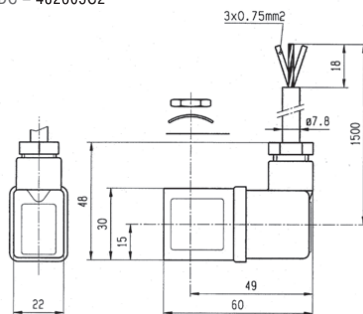
DC: 12 V, 1000 mA - 24 V, 500 mA

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



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Parker Hannifin Corporation
Fluid Control Solutions Europe
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EXPLOSION-PROOF ELECTRICAL PARTS

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.

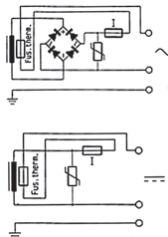
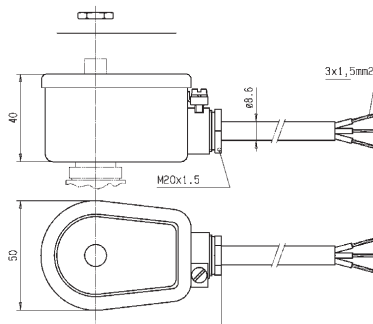
Benefits: Epoxy-vernished steel housing - solenoid coil, rectifier (silicium diodes), fuse and varistor protection element are completely encapsulated in the coil housing by means of epoxy resin.

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) 492070.60 (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		H 180°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		110/50-60	P2	24	C2
		220/50-60	R5	48	C4
		230/50-60	P9	110	C5
		240/50-60	Q1		

To Order a Coil choose Coil Ref + Voltage Code, example: 492070 for 24 VDC = 492070C2



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

EXPLOSION-PROOF ELECTRICAL PARTS

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.

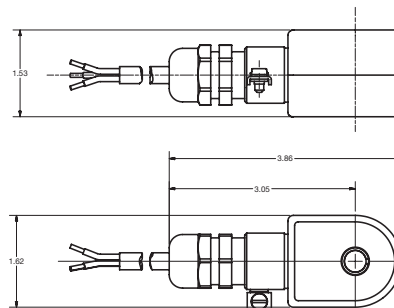
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T3/T4/T5 is required.

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				
Degree of protection		II 2 D - Ex tb IIIC T195°C / 130°C / 95°C			
Ambient temperature		IP65 (with plug) according to IEC/EN 60529 Standards			
		-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 mm ²) 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.



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUP
2.0/2.2

ENCAPSULATED
ELECTRICAL PARTS
"mb"



ZONE 1/21

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.

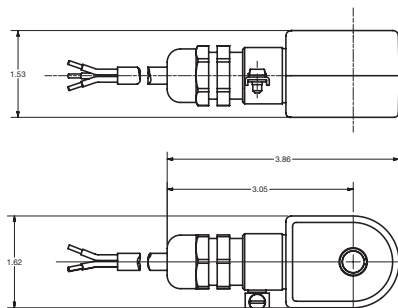
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex mb IIC T3/T4/T5 is required.

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)	22 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.



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUPS
6.0

FLAME PROOF ENCAPSULATED
ELECTRICAL PARTS
"db mb"



ZONE 1/21

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 Gb is required.

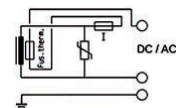
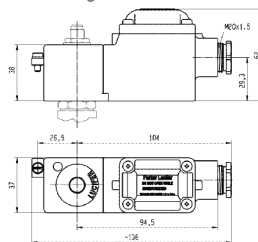
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified together with the equipment. Small size for ease of mounting in confined space.



Reference		495900 (VAC)	495900 (VDC)
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X - IECEx IMQ 22.0002 X	
KCs Certificates		KTL 24-KA4B0-0457X / 0458X	KTL 24-KA4B0-0459X / 0460X
CCC Certificate		CCC 2021322307004013	
Coil Group		6.0	
Type of protection	II 2 G	Ex db mb IIC T4 / T5 / T6 Gb	Ex db mb IIC T4 / T5 / T6 Gb
	II 2 D	Ex tb IIIC - 130°C / 95°C / 80°C Db	Ex tb IIIC - T130°C / 95°C / 80°C Db
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards	
Ex d enclosure		The «Ex d» enclosure can withstand a maximum pressure of 58 bar -40°C to +80°C / 60°C / 40°C	
Environmental temperature		The thermal class depends on the environmental temperature as shown above The application is limited also by the temperature range of the valve	
Insulation Class		H (180°C)	
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminal. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm², 2P+E) in the connection box passes by the built-in M20x1.5 cable gland	
Elect. Power	DC	Pn (hot)	2 W
		P (cold) 20°C	2.5 W
	AC	Pn (holding)	-
		Attraction cold	-
Voltages "Un"		VAC/Hz	VDC
Voltage tolerance: +/- 10% Un		24/50	12
		48/50	24
		115/50	48
		230/50	110
		115/60	
		240/60	
		Code	Code
		A2	C1
		A4	C2
		E5	C4
		F4	C5
		K8	
		B8	

To Order a Coil: Coil Ref + Voltage Code 495900 24VDC = 495900C2



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Parker Hannifin Corporation
Fluid Control Solutions Europe
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EXPLOSION PROOF ELECTRICAL PARTS

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 Gb 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.

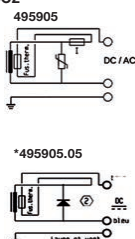
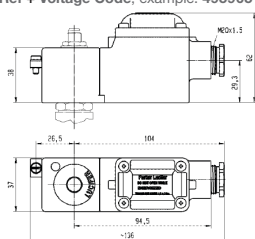
The plastic housing is delivered with M20 x 1.5 cable gland certified together with the equipment. Small size for ease of mounting in confined space.



Reference		495905 (VAC)		495905 (VDC) & 495905.05**	
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X - IECEx IMQ 22.0002 X			
KCs Certificates		KTL 24-KA4B0-0457X / 0458X		KTL 24-KA4B0-0459X / 0460X	
CCC Certificate		CCC 2021322307004013			
JPEX Certificate*		DEK24, 0036X			
Coil Group		2.0 / 2.1			
Type of protection		II 2 G		Ex db mb IIC T4 Gb	
		II 2 D		Ex tb IIIC - 130°C Db	
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards			
Ex d enclosure		The «Ex d» enclosure can withstand a maximum pressure of 58 bar			
Environmental temperature		-40°C to +80°C The thermal class depends on the environmental temperature as shown above The application is limited also by the temperature range of the valve			
Insulation Class		H (180°C)			
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminal. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm², 2P+E) in the connection box passes by the built-in M20x1.5 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
Voltage tolerance: +/- 10% Un		24/50	A2	24	C2
		48/50	A4	48	C4
		115/50	E5	110	C5
		230/50	F4		
		115/60	K8		
		240/60	B8		

To Order a Coil choose Coil Ref + Voltage Code, example: 495905 for 24VDC = 495905C2

*JPEX for 495905C2, C4, C5 only
** 495905.05 available only in C4



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUP

10.2/10.1

FLAME PROOF ENCAPSULATED
ELECTRICAL PARTS
"db mb"



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 Gb is required.

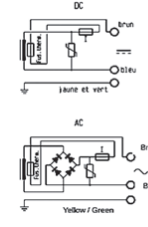
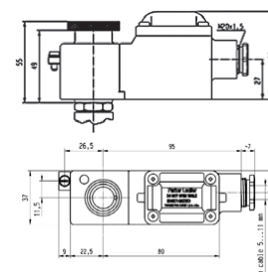
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified together for the equipment. Small size for ease of mounting in confined space.



Reference		496555			496560				
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X – IECEx IMQ 22.0002 X							
KCs Certificates		KTL 24-KA4B0-0465X / 0466X / 0467X / 0468X							
CCC Certificate		CCC 2021322307004013							
Coil Group		10.2			10.1				
Type of protection		II 2 G Ex db mb IIC T4 / T5 / T6 Gb			Ex db mb IIC T4 Gb				
		II 2 D Ex tb IIIC - T130°C / 95°C / 80°C Db			Ex tb IIIC - T130°C Db				
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards							
Ex d enclosure		The «Ex d» enclosure can withstand a maximum pressure of 58 bar -40°C to +65 / 50 / 35°C -40°C to +65°C							
Environmental temperature		The thermal class depends on the environmental temperature as shown above The application is limited also by the temperature range of the valve							
Insulation Class		H (180°C)							
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminal. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm², 2P+E) in the connection box passes by the built-in M20x1.5 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	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: 496555 for 24VDC = 496555C2



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EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUP

10.2/10.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"



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 Gb is required.

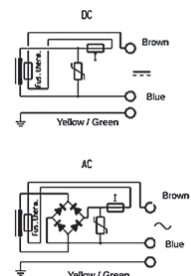
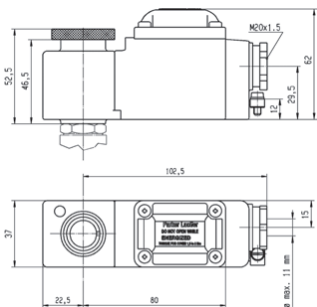
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

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)				
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X – IECEx IMQ 22.0002 X							
KCs Certificates		KTL 24-KA480-0461X / 0462X / 0463X / 0464X							
CCC Certificate		CCC 2021322307004013							
Coil Group		10.2			10.1				
Type of protection	II 2 G	Ex db mb IIC T4 / T5 / T6 Gb			Ex db mb IIC T4 Gb				
	II 2 D	Ex tb IIIC - T130 / 95 / 80°C Db			Ex tb IIIC - T130°C Db				
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards							
Environmental temperature		-40°C to +35°C / +50°C / +65°C The thermal class depends on the environmental temperature as shown above The application is limited also by the temperature range of the valve				-40°C to +65°C			
Insulation Class		H (180°C)							
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm², 2P+E) in the connection box passes by the M20x1.5 (or ½" NPT for .02 models) cable gland (not included).							
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 24VDC = 496700C2



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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.

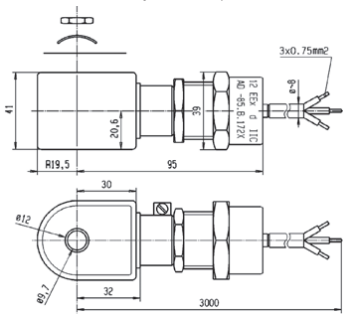
Small size for ease of mounting in confined space.



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 +75°C / +40°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



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EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUP

2.0/2.1

INCREASED SAFETY
ELECTRICAL PARTS
"eb"



ZONE 1/2/1

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 or T4 is required.

Benefits: Rotatable housing 360°, epoxy varnished 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 rubber 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	A2	6	C0	220-230/50	3D	24	C2
			48/50	A4	12	C1				
			110-115/50	OA	24	C2				
			220-230/50	3D	48	C4				
			24/60	B2	110	C5				
			220-240/60	4K	220	C7				

To Order a Coil choose Coil Ref + Voltage Code, example: 483371 for 24 VDC = 483371C2

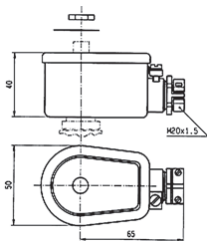
Fuses:
Both electrical parts have to be connected in series with a safety fuse according to IEC 60127-3.

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



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Parker Hannifin Corporation
Fluid Control Solutions Europe
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COIL GROUP

10.1

INCREASED SAFETY
AND ENCAPSULATED
ELECTRICAL PARTS "eb mb"



ZONE 1/2/1

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.

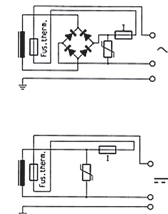
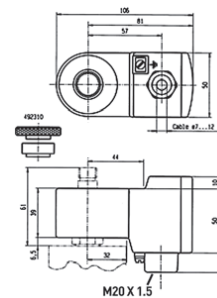
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

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			H 180°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	12	C1
			48/50-60	S4	24	C2
			230/50-60	P9	48	C4
			110/50-60	P2	110	C5
			240/50-60	Q1	220	C7
			220/50-60	R5		

To Order a Coil choose Coil Ref + Voltage Code, example: 492310 for 24 VDC = 492310C2



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Parker Hannifin Corporation
Fluid Control Solutions Europe
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EXPLOSION PROOF ELECTRICAL PARTS

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.

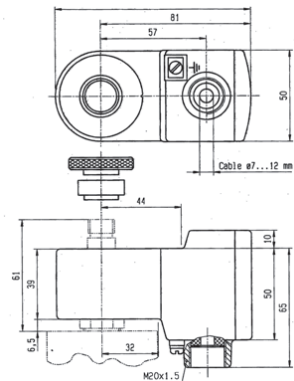
Benefits: Rotatable 360° fiberglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Available only in 24 VDC (suffix code : C2)



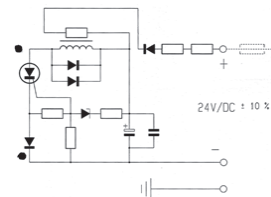
Reference	492210
Certificate	LCIE 02 ATEX 6023 X - IECEx LCI 06.0011 X
Coil group	9.0
Type of protection	Gas II 2 G - Ex eb mb IIC T5 / T6 Dust II 2 D - Ex tb IIIC - T95°C / T80°C
Degree of protection	IP66 according to IEC/EN 60529 Standards
Ambient temperature	-40°C to +75°C / +40°C The operating temperature of the valve/coil can be limited by that of the valve
Insulation Class	H 180°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



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EXPLOSION PROOF ELECTRICAL PARTS

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.

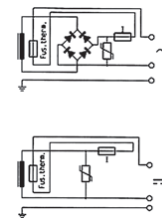
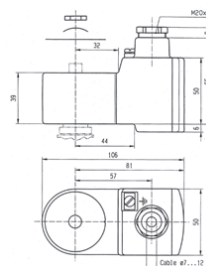
Benefits: Rotatable 360°, fiberglass -reinforced plastic housing. Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

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	H 180°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"	VAC/Hz Code VDC Code
-10% to +10% of the Un	24/50-60 P0 24 C2 110/50-60 P2 48 C4 230/50-60 P9 110 C5 48/50-60 S4 220 C7 220/50-60 R5 240/50-60 Q1

To Order a Coil choose Coil Ref + Voltage Code, example: 492190 for 24 VDC = 492190C2



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EXPLOSION PROOF ELECTRICAL PARTS

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.

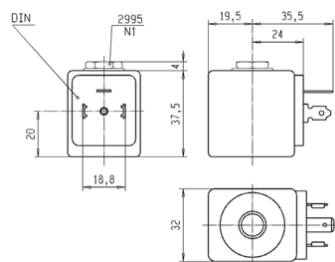
The encapsulation provides an effective compact housing offering full protection against dust, oil, water, etc.

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	340 Ω
Impedance	340 Ω
Apparent inductance	0 mH
Apparent capacitance	0 μF
Weight	160 g (with plug)

To Order a Coil choose Coil Ref + Voltage Code, example: 483580 for 28 VDC = 483580N7

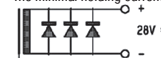


Important

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.

For Valves with operator «96» and «97», a minimum current of 65 mA is required.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.

These coil must be used with suitable housing : Ref. 2995



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

COIL GROUP

8.0

INTRINSICALLY SAFE ELECTRICAL PARTS "ia"



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.

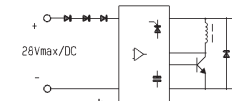
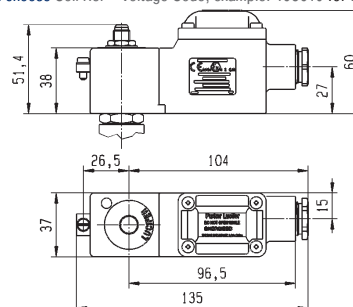
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

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	Charge ~ 550 Ω - Holding ~ 500 Ω
Impedance	0 mH
Apparent inductance	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



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Parker Hannifin Corporation
Fluid Control Solutions Europe
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EXPLOSION PROOF
ELECTRICAL PARTS

COIL GROUP

9.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"



ZONE 0/20

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.

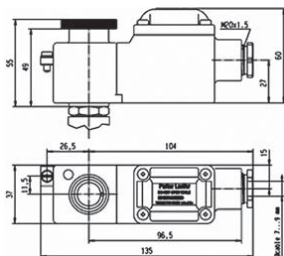
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

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	H 180°C	
Minimum Current of function	20 mA	
Minimum voltage of function at 60°C	13 VDC (N7)	
Safety parameters	28 V / 110 mA / 0.77 W	28 V / 280 mA / 1.96 W
Maximum acceptable values:	27 V / 120 mA / 0.81 W	27 V / 320 mA / 2.16 W
Ui (V) / Ii (mA) / Pi (W)	26 V / 135 mA / 0.88 W	26 V / 350 mA / 2.27 W
	25 V / 150 mA / 0.94 W	25 V / 390 mA / 2.43 W
	24 V / 170 mA / 1.02 W	24 V / 430 mA / 2.58 W
Line check	4 mA or 5 VDC max	
Apparent Impedance Typ.	Attraction ~ 600 Ω - Holding ~ 570 Ω	
Apparent Inductance	0 mH	
Apparent Capacitance	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



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Parker Hannifin Corporation
Fluid Control Solutions Europe
General Catalogue FCSE/0112/UK V3 04/2026

COIL GROUP

9.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"



ZONE 0/20

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.

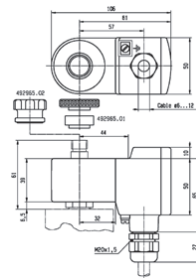
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment 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	H 180°C	
Maximum supply voltage	28 VDC (N7) - 110 mA	
Power	DC	Minimum
		Maximum
	0.3 W (with 13 VDC)	
	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	85 Ω	
Impedance	275 Ω (with 13 VDC) - 260 Ω (with 24 VDC)	
Apparent inductance	0 mH	
Apparent capacitance	0 µF	
Response time	2 - 4 s	
Weight	500 g	

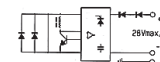
To Order a Coil choose Coil Ref + Voltage Code, example: 492965.01 for 28 VDC = 492965.01N7



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.



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EXPLOSION PROOF ELECTRICAL PARTS

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.

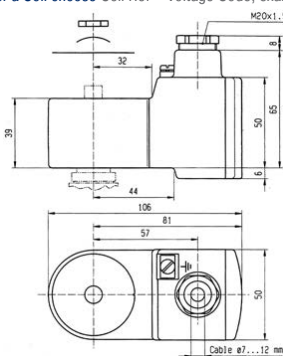
Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

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 II 1 G - Ex ia IIC - T6 Dust II 1 D - Ex ta IIIC - T80°C	Cl. I, Div.I, Gr. A, B, C, D, Cl. II, Div.I, Gr. E, F, G
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 x 1.5. Screw terminals for leads 3 x 1.5 mm² max. Additional earth connection possible with external screw terminal	
Class of insulation	H 180°C	
Maximum supply voltage	28 VDC (N7) - 110 mA	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	295 Ω	
Impedance	345 Ω	
Apparent inductance	0 mH	
Apparent capacitance	0 µF	
Weight	500 g	

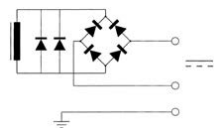
To Order a Coil choose Coil Ref + Voltage Code, example: 490885 for 30VDC = 490885L8



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.



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COIL GROUP

12.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"



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.

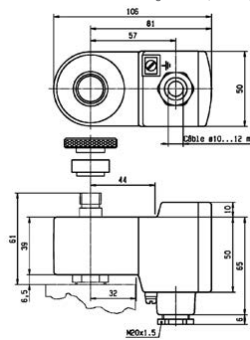
Application: Control of solenoid valves in dangerous areas where an explosion-proof protection Ex ia IIC - T6 is required.

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	H 180°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
	3 W
	Depending on applied voltage, IS barrier type and resistance of connected cable
Coil resistance at 20°C	295 Ω
Impedance	345 Ω
Apparent inductance	0 mH
Apparent capacitance	0 µF
Weight	500 g

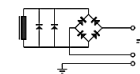
To Order a Coil choose Coil Ref + Voltage Code, example: 482870.01 for 30VDC = 482870L8



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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HOUSINGS

HOUSING

4270

COIL STANDARD HOUSING WITH SCREW TERMINALS

Standard housing:

Reference:	4270
Material:	Epoxy varnished steel with cathoporesis 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:

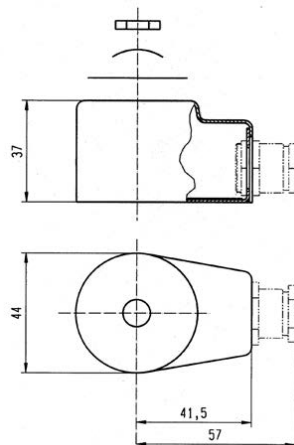
This metal housing offers the ideal protection against shocks and corrosion- rotatable 360° - easy mounting in confined spaces - single-nut mounting - light weight - simplifies conversion of existing equipment to other requirements.

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)



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HOUSINGS

HOUSING

4269

HOUSING FOR BISTABLE (IMPULSE) COILS

Housing for bistable coil:

Reference:	4269
Material:	Epoxy varnished 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:

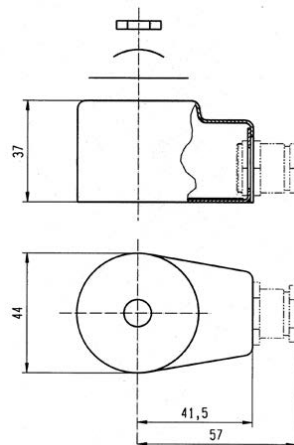
This metal housing offers the ideal protection against shocks and corrosion- rotatable 360° - easy mounting in confined spaces - single-nut mounting - light weight - simplifies conversion of existing equipment to other requirements.

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)



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HOUSINGS

HOUSING

4538

WATERPROOF AND DUSTPROOF HOUSING

Waterproof housing:

Reference:	4538
Material:	Epoxy varnished 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:

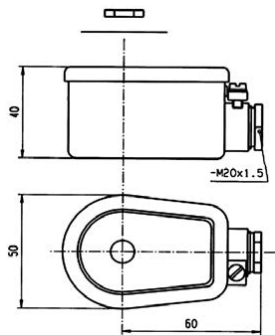
This enclosure is dust- and waterproof. It corresponds to the degree of "International Protection" IP 67 according to IEC / EN 60529. Corrosion resistant, the metal housing offers good protection for the coil against shocks and other outside influences - rotatable 360° - easy mounting in confined spaces - 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)



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HOUSINGS

HOUSING

8520

WATERPROOF HOUSING FOR HIGH-TEMPERATURE COILS

Waterproof housing:

Reference:	8520
Material:	Epoxy varnished 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:

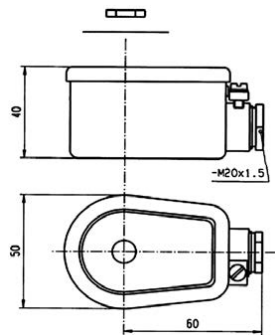
This enclosure is dust- and waterproof. It corresponds to the degree of "International Protection" IP 67 according to IEC / EN 60529. Corrosion resistant, the metal housing offers good protection for the coil against shocks and other outside influences - rotatable 360° - easy mounting in confined spaces - 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 - Standard High-Power Coil
14 W Class F (155°C)
- 486265 - High-Temperature and High-Power Coil
14 W Class H (180°C)
- 485100 - Standard High-Temperature Coil
8 W Class H (180°C)



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COIL ACCESSORIES

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 48104340 (Q.ty 1 KIT = 25pcs)

Electrical connection suitable for all 22 mm coils
(e.g. 488980, 481180)



DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 - A

Part Number 600003K (BOX = 10pcs) or
Part Number 49264540 (Q.ty 1 KIT = 25pcs) to be used with ATEX coils only

Electrical connection suitable for all 32 mm coils
(e.g. 481865, 492425)



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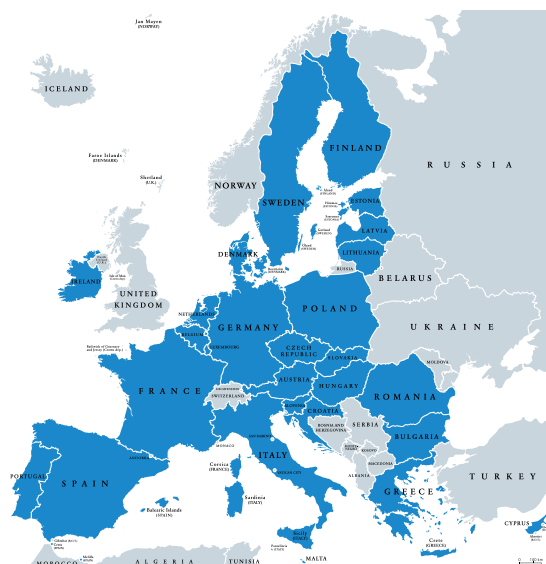
EXPLOSIVE ENVIRONMENTS

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



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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.

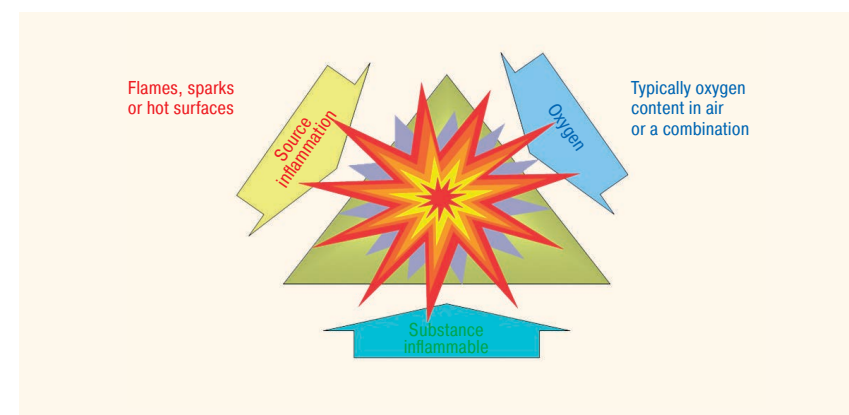
HAZARDOUS AREAS

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 hazardous 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.



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EXPLOSIVE ENVIRONMENTS

DEFINITIONS

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:

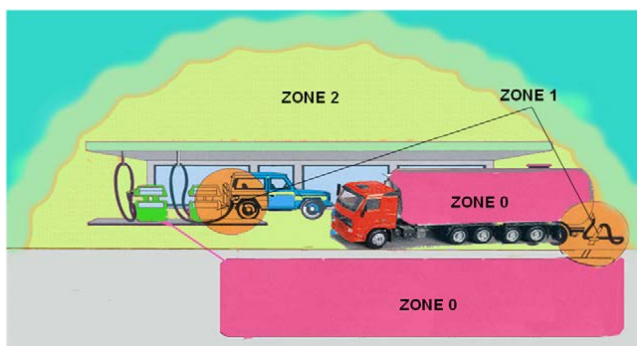
Zone 0 (20)	Zone 1 (21)	Zone 2 (22)
An area in which an explosive gas (dust) atmosphere is present CONTINUOUSLY or is present for LONG PERIODS (~1000 h/y).	An area in which an explosive gas (dust) atmosphere is present LIKELY TO OCCUR in normal operation (~10 to 999 h/y).	An area in which an explosive 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:



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DEFINITIONS

HAZARDOUS LOCATION CLASSIFICATION

Category	Fault protection	Atmosphere	Zone	Example of protections
1 Very high level	2 types of protection or 2 independent faults	G (Gas) D (Dust)	0 20	"ia", "ta"...

EC Type examination by Notified Body annex III

2 High level	One type of protection Habitual frequent malfunction	G (Gas) D (Dust)	1 21	One type of protection "db", "mb", "tb"...
------------------------	---	-----------------------------------	-----------------------	---

EC Type examination by Notified Body annex III

Internal production inspection EC declaration of conformity

3 Normal	Required level of protection	G (Gas) D (Dust)	2 22	"ec", "tc"...
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Hazardous Location Classification

Group	Gas Reference
I	Methane
IIA	Propane
IIB	Ethylene
IIC	Hydrogen / Acetylene

Hazardous Location Classification

Group	Dust Reference
-	-
IIA	Fibres
IIB	Non-conductive dust
IIC	Conductive dust

Surface Temperature Classes

Class Temperature	Max. Temperature	°C	Gas & Ignition Temperature
T1	450°C	600	560°C Hydrogen T1
T2	300°C	500	537°C Methane T1
T3	200°C	400	425°C Ethylene T2
T4	135°C	300	305°C Acetylene T2
T5	100°C	200	210°C Kerosene T3
T6	85°C	100	160°C Ethylether T4
		0	95°C Carbon disulphide T6



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EXPLOSIVE ENVIRONMENTS

PROTECTION MODES IN PARKER FCSE PRODUCTS

Concept	Gas	Code	Dust	Gas	Zones	Dust
Flameproof enclosure	db		tb	1/2		21/22
Encapsulation	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.



STANDARDS AND PROTECTION MODES

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 = Equipment Protection Level
In red, protection modes used by Parker FCSE.



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EXPLOSIVE ENVIRONMENTS

STANDARDS AND PROTECTION MODES



EXAMPLES OF MARKING

ELECTRICAL EQUIPMENT FOR EXPLOSIVE DUST ATMOSPHERE - EQUIPMENT GROUP III

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 = Equipment Protection Level
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 ignition sources, liquid immersion

ZONES AND EQUIPEMENT PROTECTION LEVEL (EPL)

Zone	Gas	EPL	Zone	Dust	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)

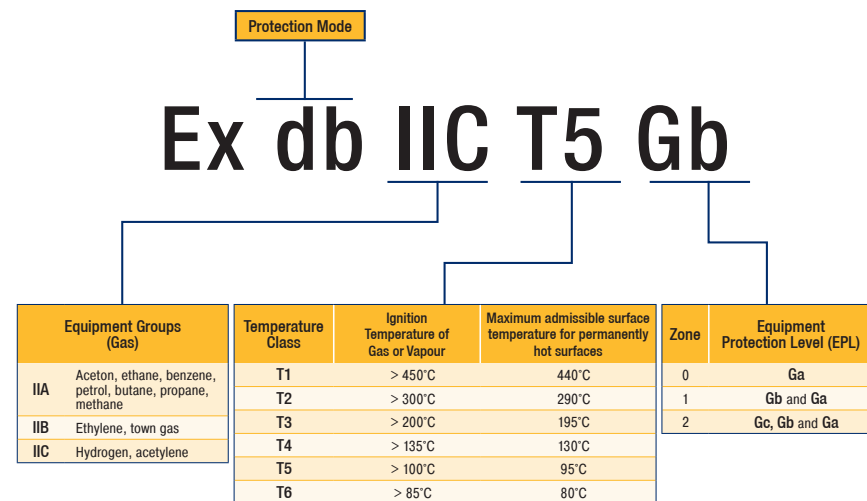
Categories	Gas	Dust	Safety
1	Ga	Da	Very high
2	Gb	Db	High
3	Gc	Dc	Normal



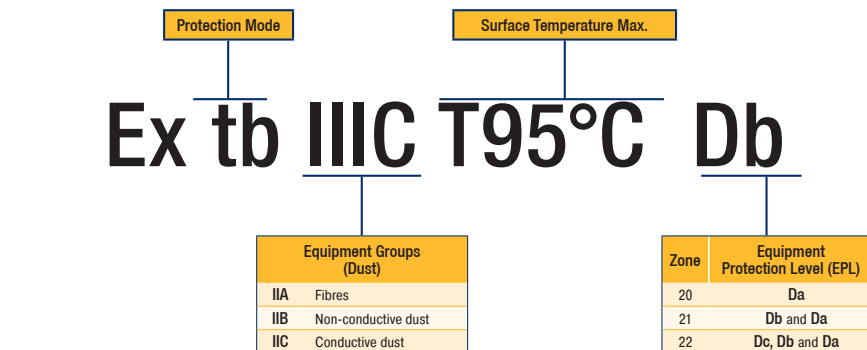
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ELECTRICAL APPARATUS FOR EXPLOSIVE GAS ATMOSPHERES EQUIPMENT GROUP II



ELECTRICAL EQUIPMENT FOR USE IN AREAS WITH COMBUSTIBLE DUST - EQUIPMENT GROUP III



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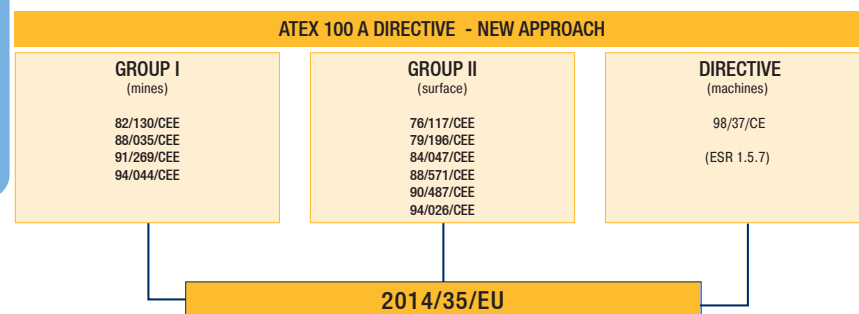
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EXPLOSIVE ENVIRONMENTS

WHAT ABOUT THE DIRECTIVE ?

(2014/34/EU - 19.04.16)



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.

APPLICATIONS

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.)



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WHAT ABOUT THE DIRECTIVE ?

(2014/34/EU - 19.04.16)

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 assess the operational reliability of such devices and their interaction with other components connected with the equipment.



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COIL APPENDICES



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 (483997) 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 496665 LCIE	Ex ia IIC T6 495910 LCIE
A pulssance 3	NAEV 22-140	ia	•	-	•	-	•	•	-	•	•	•
	NAEV 26-100	ia	•	-	•	-	•	•	-	•	•	•
ABB	V71132-54	ib	•	-	•	-	•	•	-	•	•	•
	V71132-55	ib	•	-	•	-	•	•	-	•	•	•
	V71132-61	ia	•	-	•	-	•	•	-	•	•	•
	DO 890	ib	•	-	•	-	•	•	-	•	•	•
	S900-DO4-EX	ib	•	-	•	-	•	•	-	•	•	•
	FEY-EX 24V	ia	•	•	•	•	•	•	-	•	•	•
BRADLEY	LB 2101	ia	•	•	•	•	•	•	-	•	•	•
	LB 2105	ia	•	•	•	•	•	•	-	•	•	•
COOPER	LB 2112	ia	•	•	•	•	•	•	-	•	•	•
	1881 / 1882	ia	•	•	•	•	•	•	-	•	•	•
ELCON	471 / 472	ia	•	•	•	•	•	•	-	•	•	•
	2871/2872	ia	•	•	•	•	•	•	-	•	•	•
	2874/2875/2876	ia	•	•	•	•	•	•	-	•	•	•
	AVB 122	ia	•	-	•	-	•	•	-	•	•	•
GEORGIN	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	•	-	-	-	•	•	-	•	•	•
	2 728	ia	•	•	•	•	•	•	-	•	•	•
	2 779	ia	•	•	•	•	•	•	-	•	•	•
Pepperl & Fuchs	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-BO-EX	ia	-	•	•	•	•	•	-	•	•	•
	RSD-BO-EX4	ib	-	•	-	•	-	•	-	•	•	•
	RSD-VO-EX8	ib	-	-	-	-	-	-	-	•	•	•



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COIL APPENDICES



GUIDANCE CHART FOR IS-BARRIERS

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SIEMENS	5RD00-0AB0	ib	-	-	-	-	-	-	-	•	-	-
	7RD00-0AB0	ia	-	-	-	-	-	-	-	•	•	•
	7RD01-0AB0	ia	-	-	-	-	-	-	-	•	•	•
	7RD10-0AB0	ia	-	-	-	-	-	-	-	•	•	•
	7RD11-0AB0	ia	-	-	-	-	-	-	-	•	•	•
	7RD20-0AB0	ia	-	-	-	-	-	-	-	•	•	•
	7RD21-0AB0	ia	-	-	-	-	-	-	-	•	•	•
	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	-	•	•	-	•	•	•
STAHL	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	-	-	-	-	-	-	-	-	-	-
Turck	9475/12-08-61	ia/ib	-	-	-	-	-	-	-	-	•	•
	MK72-S01-EX	ib	-	-	-	-	•	•	-	•	•	•
	MK72-S02-EEEX	ib	-	-	-	-	•	•	-	•	•	•
	MK72-S04-EEEX	ib	•	-	•	-	•	•	-	•	•	•
	MK72-S05-EEEX	ib	•	-	-	-	•	•	-	•	•	•
	MK72-S06-EEEX	ib	•	-	•	-	•	•	-	•	•	•
	MK72-S07-EEEX	ib	•	-	-	-	•	•	-	•	•	•
	MK72-S09-EEEX	ia	-	-	-	-	-	-	-	-	-	-
BARTEC	MK72-S12-EEEX	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 (FCCE.FCSE.Technical@support.parker.com)



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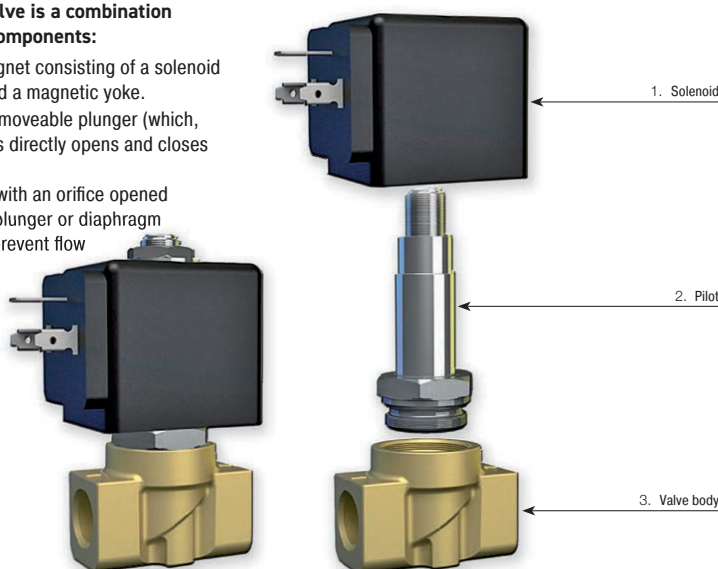
TECHNICAL INFORMATION ABOUT SOLENOID VALVES

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.



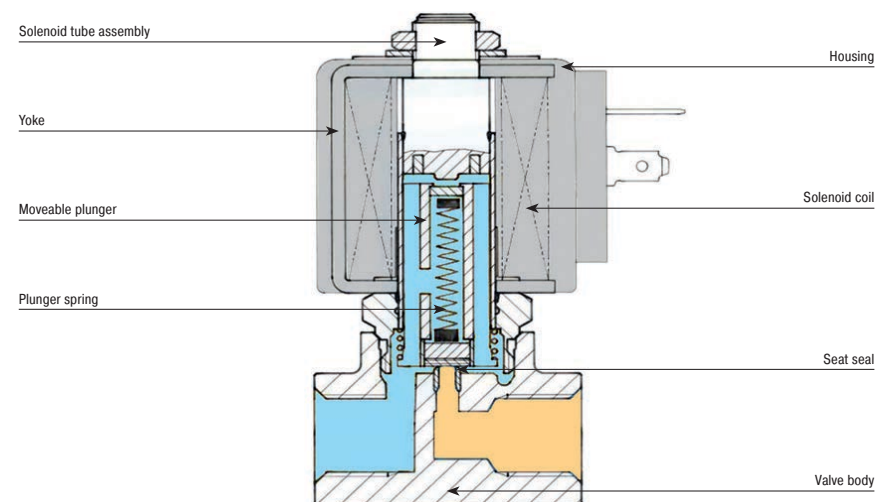
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TECHNICAL INFORMATION

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 attracting the moveable plunger.
Housing:	Part that contains and protects the coil.
Yoke:	Metalic case surrounding the coil and concentrating electro-magnetic force on the moveable plunger.



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TECHNICAL VOCABULARY USED IN TABLES

Actuation	Body	Function	Port Size	Orifice (mm)	Flow Factor Kv(l/min)	MOPD (bar)	Max Fluid Temp. (°C)
-----------	------	----------	-----------	--------------	-----------------------	------------	----------------------

NORMALLY CLOSED

Port size	Orifice Ø	Flow factors			Operating Pressure Differential			Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	Min	Max(MOPD)	DC	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm				bar	bar	bar	°C	°C								

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 m³/h.
Max Fluid Temperature:	Maximum fluid temperature the valve can withstand.
Max Ambient Temperature:	Maximum ambient temperature the valve can withstand typical value for pressure vessel is 50°C.
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).



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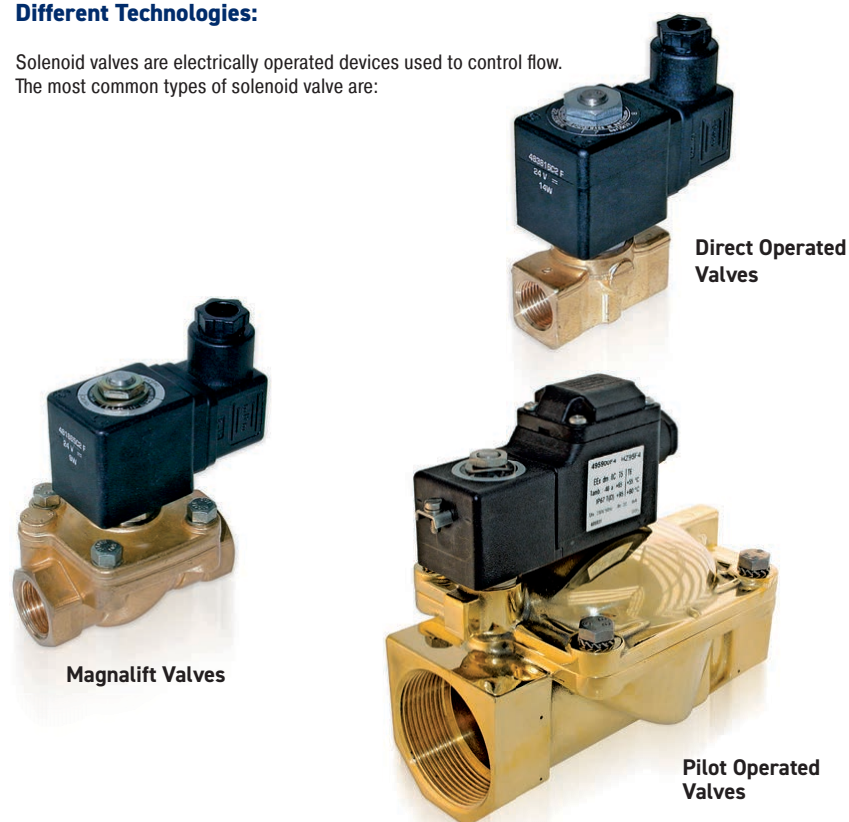
TECHNICAL INFORMATION

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 environment 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 available from Parker Hannifin - FCSE.

Different Technologies:

Solenoid valves are electrically operated devices used to control flow. The most common types of solenoid valve are:



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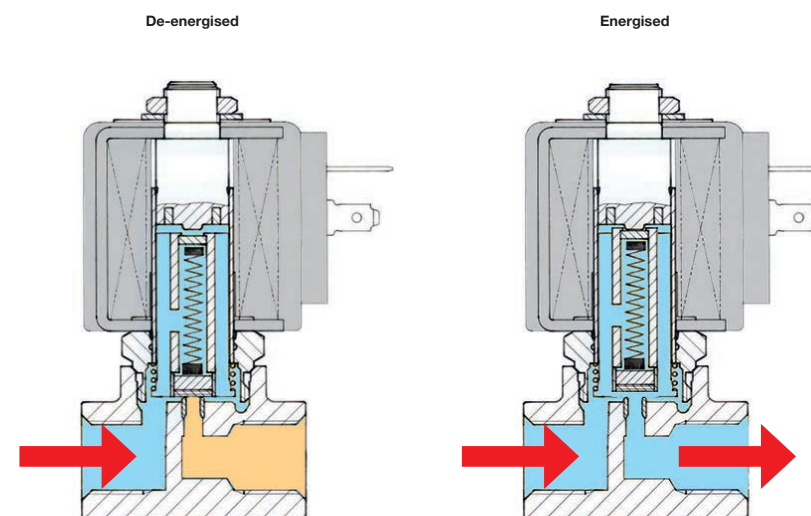
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TECHNICAL INFORMATION

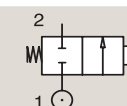
DIRECT OPERATED VALVE

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



Example:
• 121 Series



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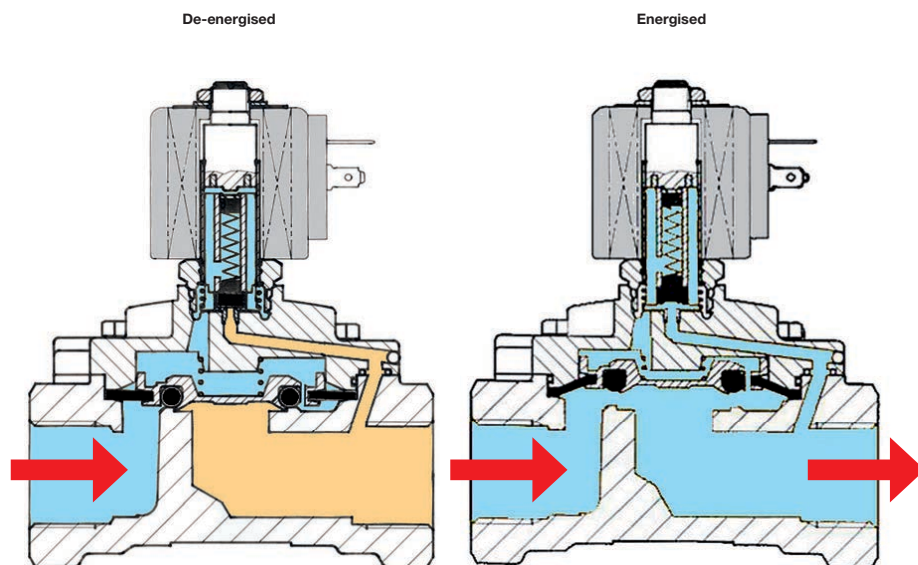
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TECHNICAL INFORMATION

PILOT OPERATED VALVE

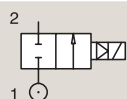
To control a higher flow, it is necessary to use pilot operated valves. The supply pressure enters the direct operated "pilot stage" which directs the flow to a "pilot chamber" which, in turn, applies the pilot pressure over a large area (generally a diaphragm or piston). Therefore, a large force is 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. Pilot Operated Valves are also called Servo Operated Valves).

Pilot Operated Valve



Example:

- 321 Series
- 7321B Series



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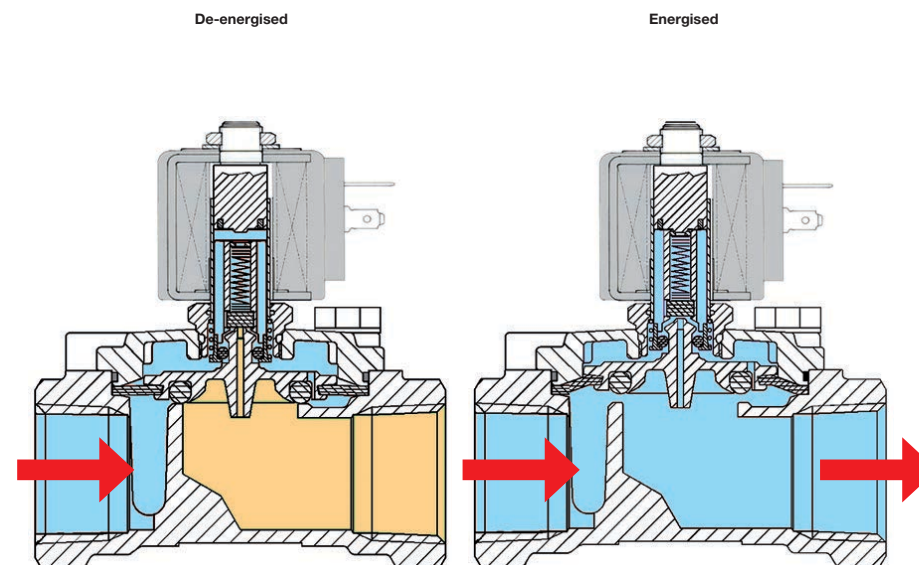
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TECHNICAL INFORMATION

MAGNALIFT VALVE

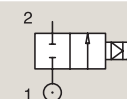
The magnalift valves combine the features of the direct operated and pilot operated valves. A mechanical link between the plunger and diaphragm retainer allows the valve to operate as a direct operated valve at low pressures and as a pilot operated valve at higher pressures. Magnalift valves are specially 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



Example:

- 221 Series



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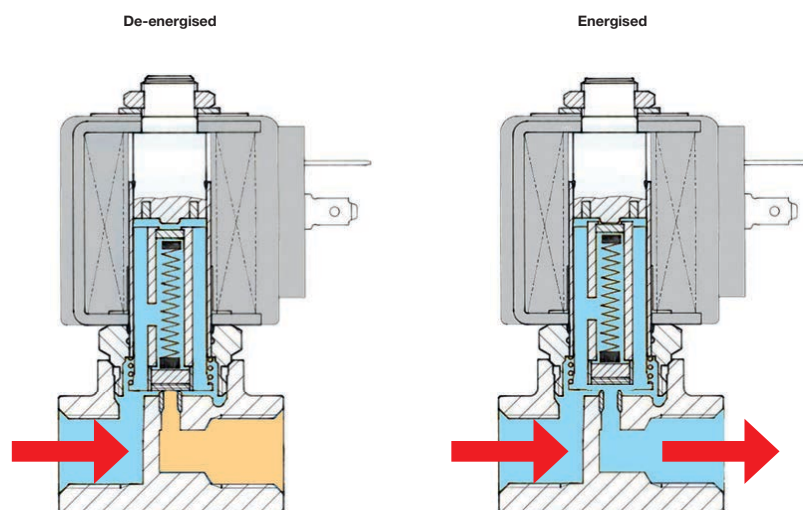
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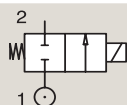
NORMALLY CLOSED VALVE

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 comparison to a normally closed valve.

Normally Closed Valve



Example:
• 121 Series



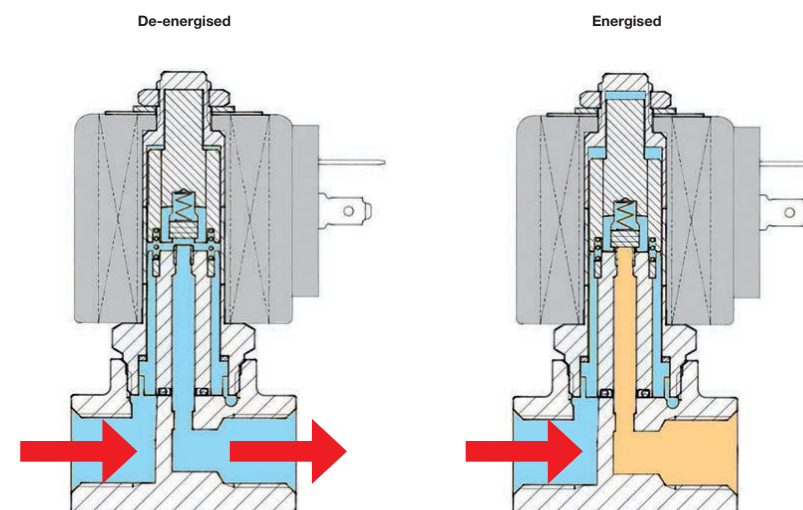
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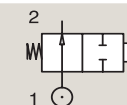
TECHNICAL INFORMATION

NORMALLY OPEN VALVE

Normally Open Valve



Example:
• 122 Series



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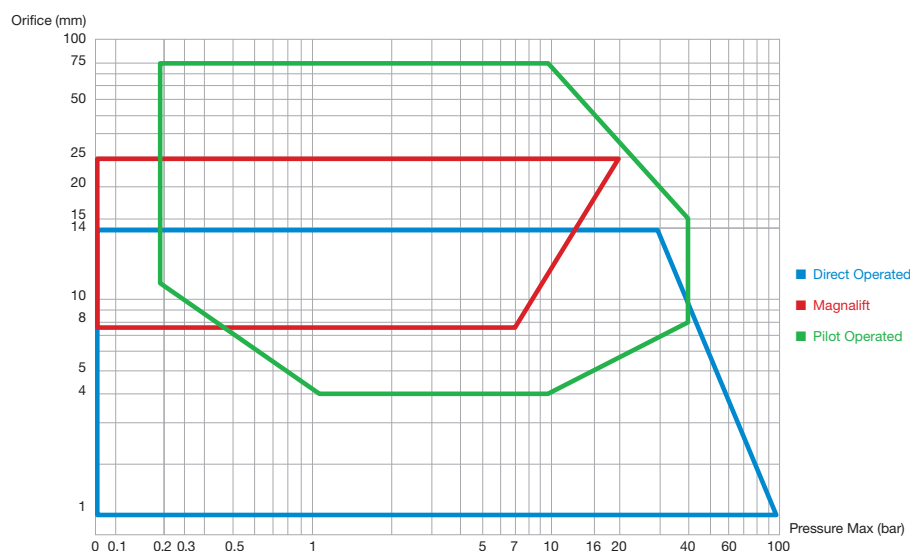
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TECHNICAL INFORMATION

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.



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TECHNICAL INFORMATION

SIZING SOLENOID VALVES

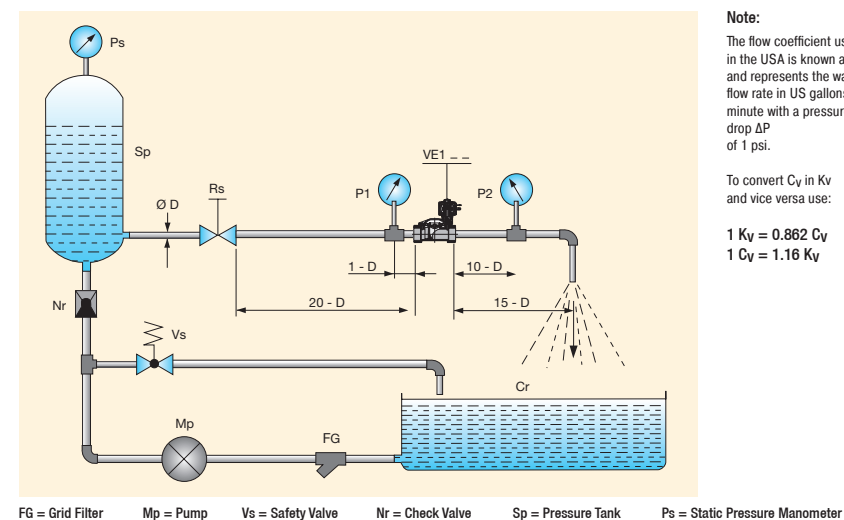
The correct choice of solenoid valve is essential as it determines the regulation and performance required for practical application on a system. In order to decide on the exact type of solenoid valve, various parameters have to be known.

However the calculation method, based on the flow coefficient K_v , 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 K_v is determined as defined in the VDI/VDE 2173 standards.

It represents the flow of water in m^3/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 C_v and represents the water flow rate in US gallons per minute with a pressure drop ΔP of 1 psi.

To convert C_v in K_v and vice versa use:

$$1 K_v = 0.862 C_v$$

$$1 C_v = 1.16 K_v$$

After existing conditions have been converted into this factor K_v , 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.



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TECHNICAL INFORMATION

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 (P₁) and outlet (P₂) of the solenoid valve when a medium is flowing through the valve (ΔP = P₁ - P₂).

Flow coefficient

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: $Q = \text{l/min}$
 $\Delta P = \text{bar}$
 $\gamma = \text{Kg/dm}^3$

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:

$$Kv_1 = Kv + C \quad C = \frac{\delta \cdot \sqrt{Kv} + 1}{200 \cdot Q}$$

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: $Qn = 514 \cdot Kv \cdot \sqrt{\frac{\Delta P \cdot P_2}{\gamma \cdot n \cdot (273 + t)}}$

where: $Qn = \text{Nm}^3/\text{h}$ $P_1 = \text{bar}$ $P_2 = \text{bar}$

Flow coefficient: $Kv = \frac{Qn}{514} \cdot \sqrt{\frac{(273+t) \cdot \gamma \cdot n}{\Delta P \cdot P_2}}$

t = °C
γ n = Kg/dm³

Pressure drop: $\Delta P = \frac{(273 + t) \cdot \gamma \cdot n}{P_2} \cdot \frac{Qn^2}{(514 \cdot Kv)^2}$

If $\Delta P > 1/2 P_1$ use the following formula:

$Qn = 757 \cdot Kv \cdot \sqrt{\frac{\Delta P \cdot P_2}{(273 + t) \cdot \gamma \cdot n}}$

c) Solenoid valves for steam:

If $\Delta P \leq 1/2 P_1$ use the following formulae:

Flow rate: $Qv = 31,7 \cdot Kv \cdot \sqrt{\frac{\Delta P}{Vs}}$

where: $Qv = \text{Kg/h}$ $\Delta P = \text{bar}$ $Vs = \text{m}^3/\text{Kg}$

Flow coefficient: $Kv = \frac{Qv}{31,7} \cdot \sqrt{\frac{Vs}{\Delta P}}$

Pressure drop: $\Delta P = Vs \cdot \frac{Qv^2}{(31,7 \cdot Kv)^2}$

If $\Delta P > 1/2 P_1$ use the following formula:

$$Qv = 22,4 \cdot Kv \cdot \sqrt{\frac{P_1}{Vs}}$$

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 (P₁).
- 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.



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TECHNICAL INFORMATION

FLOW RATE FOR LIQUIDS

The liquid flow through a pipe or a valve is given by:

$$Q = K_v \cdot \sqrt{\frac{\Delta P}{\gamma}}$$

Where Q = Flow [l/min]
 ΔP = Differential Pressure [bar]
 γ = Density of the fluid [kg/dm³]
 (water $\gamma = 1$ [kg/dm³])
 k_v = Flow Factor [l/min]

Flow factor k_v :

The k_v 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 manufacturers use different definitions for k_v . It may be expressed in l/h or m³/h. Care should therefore be taken when comparing values.

Maximum flow rate Q_{max} .

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.

NORMALLY CLOSED

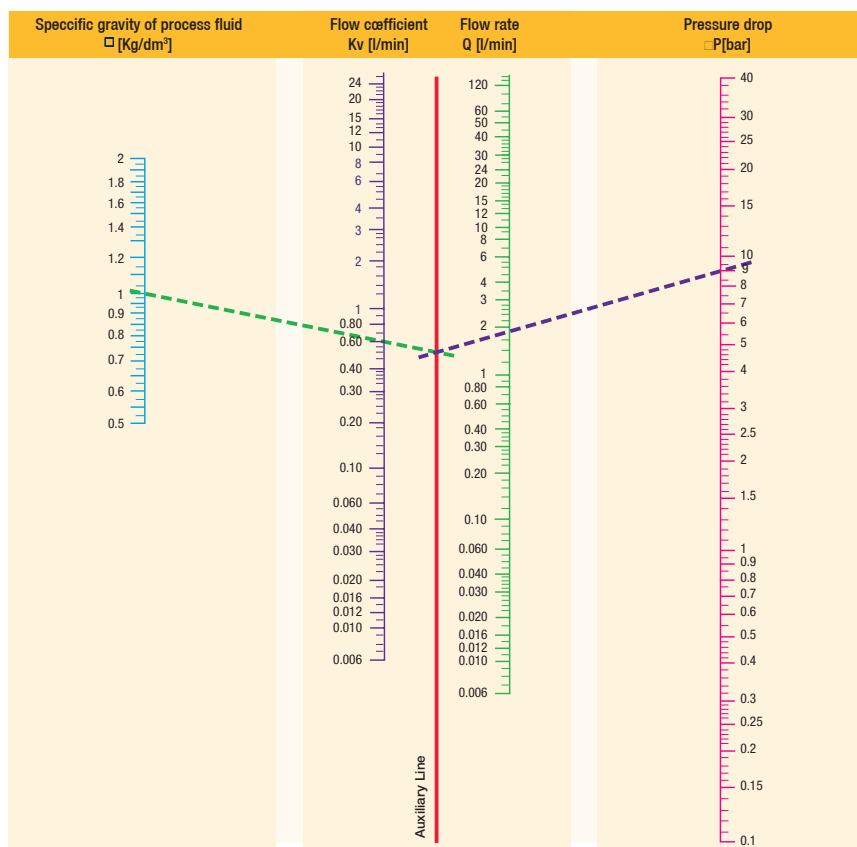
Port size	Orifice Ø	Flow factors			Operating Pressure Differential		Fluid Temp.		Seat Seal	Parker Valves			Power		Coil Group	Dwg. No.
		K_v l/min	K_v m ³ /h	Q_n l/min	Min	Max(MOPD)	Min	Max		Valve Ref.	Housing Ref.	Coil Ref.	AC W	DC W		
BSP	mm				bar	bar	°C	°C								



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Monogram for liquid flow calculation

Specific gravity of the most common fluids ($\gamma = \text{Kg/dm}^3$) - (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		



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FLOW RATE FOR GASES

The gas flow through a valve is given by:

$$Q = C \cdot P_1 \cdot k_T \cdot W \cdot \gamma_{\text{air}} / \gamma_{\text{gas}}$$

Where

- Q = Flow Rate [dm³/s]
- C = Conductance [dm³/s.bar]
- P₁ = Inlet Pressure [bar abs]
- γ = Specific Weight [Kg/dm³]
- k_T = Temperature Correction Factor

$$W = \sqrt{1 - \frac{P_2/P_1 - b}{1 - b}} \quad k_T = \sqrt{\frac{293}{273 + \text{Temp. } ^\circ\text{C}}}$$

Nominal Flow Q_n:

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 Q_n. The nominal flow Q_n is defined as the flow rate (L/min) of air across the valve when the inlet pressure P₁ = 6 bar and the pressure drop ΔP = 1 bar.

N.B.

The values of the flow factors and flow rates mentioned in catalogues are subject to +/-15% tolerances.

Pneumatic application: $\gamma_{\text{air}} / \gamma_{\text{gas}} = 1$

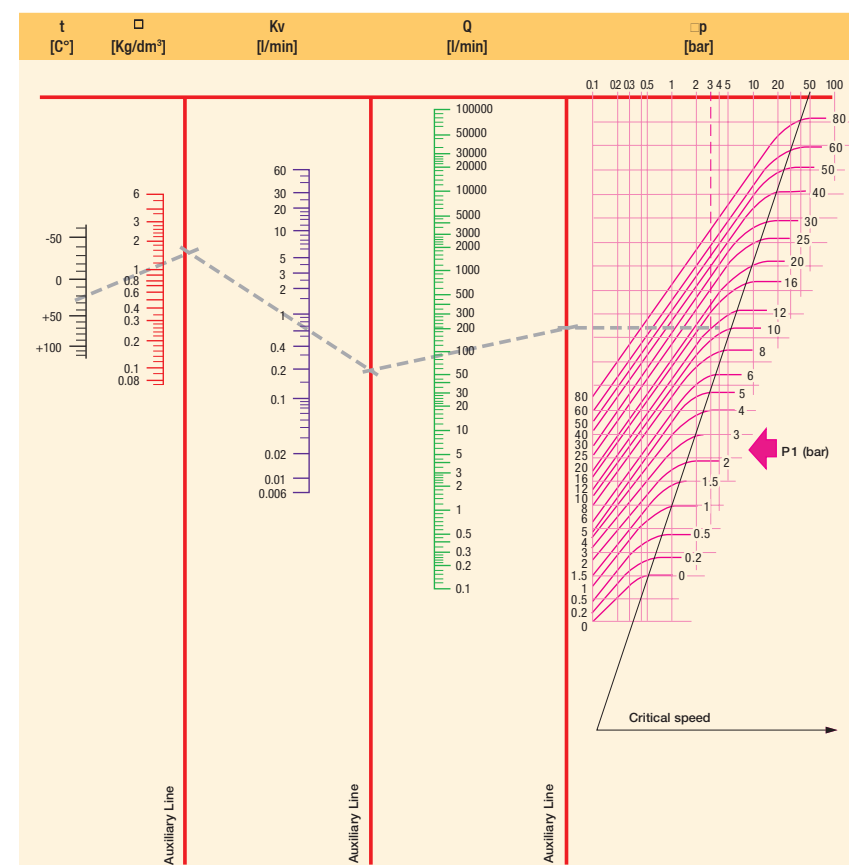
- Choked flow conditions $P_2 \leq b \cdot P_1$
in this case $W = 1 \rightarrow Q = C \cdot P_1 \cdot k_T$
- Free flow conditions $P_2 > b \cdot P_1$
in this case $\rightarrow Q = C \cdot P_1 \cdot k_T \cdot W$



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t = Fluid Temperature γ = Specific Gravity Kv = Flow Coefficient Q_n = Flow Rate ΔP = Pressure Drop P₁ = Inlet Pressure

Specific gravity of the most common gases (γ = Kg/m³) - (t = 0°C - P = 760mm Hg)			
Acetylene	1.176	Helium	0.179
Carbon dioxide	1.965	Ethane	1.035
Air	1.293	Ethylene	1.259
Argon	1.780	Hydrogen	0.089
Nitrogen	1.255		
Butane	2.000		
		Natural gas	0.723
		Methane	0.722
		Carbon monoxide	1.250
		Oxygen	1.429
		Propane	1.520
		Steam	0.805



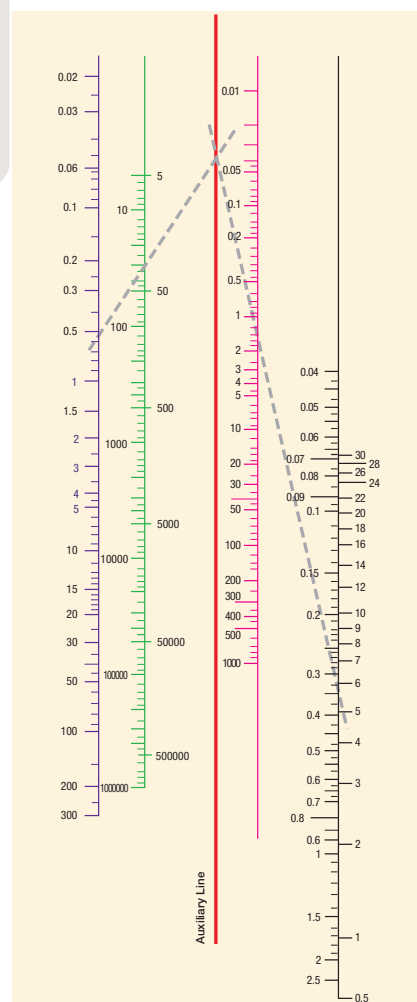
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Diagram 3 for Dry Saturated Steam



Kv = Flow Coefficient

Qv = Flow Rate

Δp = Pressure Drop

Vs = Specific Volume

P₂ = Outlet Pressure

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Steam (Dry Saturated) Data

P ₂ bar	Temp. °C	Vs m ³ /Kg	P ₂ bar	Temp. °C	Vs m ³ /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	59.7	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			

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VISCOSITY CONVERSION TABLE

Centistokes cStokes mm ² /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:

$$\begin{aligned}^{\circ}\text{C} &= (^{\circ}\text{F} - 32) \times 5/9 \\^{\circ}\text{F} &= (^{\circ}\text{C} \times 9/5) + 32 \\ \text{m}^3/\text{h} &= \text{l/min} \times 0.06 \\ \text{l/min} &= \text{m}^3/\text{h} \times 16,67 \\ \text{m}^3/\text{sec} &= \text{m}^3/\text{h} \times 2,778 \times 10^{-4} \\ \text{m}^3/\text{sec} &= \text{l/min} \times 1,667 \times 10^{-5}\end{aligned}$$

Examples:

$$\begin{aligned}(167^{\circ}\text{F} - 32) \times 5/9 &= 75^{\circ}\text{C} \\ (30^{\circ}\text{C} \times 9/5) + 32 &= 86^{\circ}\text{F} \\ 100 \text{ l/min} \times 0.06 &= 6 \text{ m}^3/\text{h} \\ 9 \text{ m}^3/\text{h} \times 16,67 &= 150 \text{ l/min} \\ 18.000 \text{ m}^3/\text{h} \times 2,778 \times 10^{-4} &= 5 \text{ m}^3/\text{sec} \\ 479.904 \text{ l/min} \times 1.667 \times 10^{-5} &= 8 \text{ m}^3/\text{sec}\end{aligned}$$



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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	-	482
481044	2.0/2.2	Coil with screw terminal High power, 40 mm	-	14.0	-40°C to +50°C	-	IP 44 to 67	-	483
481180	1.1	Coil for DIN plug connection, 22 mm	5.0	4.0	-40°C to +50°C	-	IP65	-	452
481865	2.0	COILS FOR DIN PLUG CONNECTION 32 mm	10.0	9.0	-40°C to +50°C -40°C to +65°C	Y	IP65	-	446
482605	1.1	Explosion proof encapsulated electrical part "mb", 22 mm	5.0	4.0	-40°C to +50°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
482606	1.1	Explosion proof encapsulated electrical part "mb", low power, 22 mm	2.5	2.0	-40°C to +50°C -40°C to +65°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
482730	3.0	COILS FOR DIN PLUG CONNECTION, REDUCED POWER, 32 mm	7.0	6.0	-40°C to +50°C	-	IP65	-	448
482740	6.0	COILS FOR DIN PLUG CONNECTION, low power, 32 mm	1.6	-	-40°C to +50°C	-	IP65	-	449
483371	2.0/2.1	Explosion proof increased safety electrical part "eb", 40 mm	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex eb IIC T4	490
483520	2.0/2.1	Coil with screw terminal, double frequency, 40 mm	-	9.0	-40°C to +50°C	-	IP 44 to 67	-	482
483541	14.3	Coil with screw terminal, high temperature-high power, 40 mm	20.0	20.0	-40°C to +50°C	Y	IP 44 to 67	-	486
483590	1.1	Coil for DIN plug connection, double frequency, 22 mm	-	3.0	-40°C to +50°C	-	IP65	-	454
483816	2.2	Coil for DIN plug connection for Jet Valves, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	451
483824	14.1	Coil with screw terminal, high temperature-high power, 40 mm	19.0	19.0	-40°C to +50°C	Y	IP 44 to 67	-	485
484990	4.0	Coil with screw terminal, bistable, for impulse applications, 40 mm	-	11.0	-40°C to +50°C	-	IP 44 to 67	-	488
485400	4.0	Coil with screw terminal, bistable, for impulse applications, 40 mm	13.0	-	-40°C to +50°C	-	IP 44 to 67	-	488
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	-	484
488143	1.1	Coil for DIN plug connection, double frequency, 22 mm	-	2.5	-40°C to +50°C	-	IP65	-	455
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	-	487
488980	1.1	Coil for DIN plug connection, low power, 22 mm	2.5	2.0	-40°C to +50°C	-	IP65	-	452
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.1, Gr. A, B, C, D	498
491514	2.0/2.1	COILS FOR DIN PLUG CONNECTION, 32 mm, UL	-	11.0	-40°C to +50°C	Y	IP65	-	450
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	482
492190	2.0/2.1	Explosion proof increased safety and encapsulated electrical part "eb mb", 50 mm	9.0	11.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T3/T4	493
492210	9.0	Explosion proof increased safety and encapsulated electrical part "eb mb", "Booster", 50 mm	1.0 to 1.8	-	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T5/T6	492
492310	10.1	Explosion proof increased safety and encapsulated electrical part "eb mb", 50 mm	6.0	6.0	-40°C to +75°C	-	IP66	II 2 G Ex eb mb IIC T4/T5	491
492425	2.0/2.2	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 mm	14.0	14.0	-40°C to +50°C	-	IP65	-	447
492912	1.1	Coil for DIN plug connection, 22 mm	4.0	3.0	-40°C to +50°C	-	IP65	-	453
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	489
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	490
495294	13.0	Coil with ISO-DIN connector, 12-24VDC for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	469
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	472
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	474
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	476
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	477
495900	6.0	Flame proof encapsulated electrical part "db mb", low power, 37 mm	2.0	2.5	-40°C to +80°C	-	IP67	II 2 G Ex db mb IIC T4 / T5/T6	485



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495905	2.0/2.1	Flame proof encapsulated electrical part "db mb", 37 mm	8.0	8.0	-40°C to +80°C	-	IP67	II 2 G Ex db mb IIC T4	488
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	495
495915	4.0	Explosion proof increased safety electrical part "nAc nCc", 40 mm	13.0	11.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	478
496081	2.0/2.1	Coil with flying leads, IP 67, 32 mm	9.0	9.0	-40°C to +50°C	-	IP67	-	460
496082	2.0/2.1	Coil with flying leads, IP 67, 32 mm, UL certified	16	13	-40°C to +50°C	Y	IP65	-	461
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	474
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	475
496131	1.2	Coil for DIN plug connection, double frequency, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	456
496155	2.0/2.2	Explosion proof increased safety electrical part "nAc nCc", 40 mm	14.0	14.0	-40°C to +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	479
496193	13.0	Coil with ISO-DIN connector, 12-24VDC, for transportation applications, 32 mm	9.0	-	-40°C to +120°C	-	IP69K	-	469
496482	1.2	Coil for DIN plug connection, double frequency coil, 22 mm	3.0	3.0	-40°C to +50°C	-	IP65	-	457
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	487
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	487
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	496
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 G Ex nAc nCc IIC T5	473
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	488
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	488
496895	10.1	Coil for DIN plug connection for oil and gas, 37 mm	8.0	8.0	-40°C to +50°C	-	IP65	-	459
497105	10.3	Flame proof stainless steel electrical part "db", M20x1.5	8.0	8.0	-50°C to +80°C / +40°C to +100°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	480
497510	1.2	Double frequency coil 22 mm	-	4.5	-40°C to +50°C	-	IP66	-	458
482606.160	1.1	Explosion proof encapsulated electrical part "mb", low power, 22 mm	2.5	2.0	-40°C to +65°C / +35°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
492070.60	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	482
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	494
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	494
488850.01	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	498
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	497
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	497
493840.60	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	489
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	486
496700.02	10.2	Flame proof encapsulated electrical part "db mb", 37 mm, NPT 1/2"	6.0	6.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4 / T5 / T6	488
496800.02	10.1	Flame proof encapsulated electrical part "db mb", 37 mm, NPT 1/2"	8.0	8.0	-40°C to +65°C	-	IP67	II 2 G Ex db mb IIC T4	488
497105.02	10.3	Flame proof stainless steel electrical part "db", NPT 1/2"	8.0	8.0	-50°C to +80°C / +40°C to +100°C	-	IP66	II 2 G Ex db IIC T4/T5/T6	480
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	483
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	484



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1.1	481180	COIL FOR DIN PLUG CONNECTION, 22 mm	5.0	4.0	-40°C TO +50°C	-	IP65	-	452
1.1	483590	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 mm	-	3.0	-40°C TO +50°C	-	IP65	-	454
1.1	488143	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 mm	-	2.5	-40°C TO +50°C	-	IP65	-	455
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	472
1.1	482605	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", 22 mm	5.0	4.0	-40°C TO +65°C / +40°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
1.1	482606	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", LOW POWER, 22 mm	2.5	2.0	-40°C TO +65°C / +35°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
1.1	482606.160	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", LOW POWER, 22 mm	2.5	2.0	-40°C TO +65°C / +35°C	-	IP65	II 2 G Ex mb IIC T4/T5	481
1.1	488980	COIL FOR DIN PLUG CONNECTION, LOW POWER, 22 mm	2.5	2.0	-40°C TO +50°C	-	IP65	-	452
1.1	492912	COIL FOR DIN PLUG CONNECTION, 22 mm	4.0	3.0	-40°C TO +50°C	-	IP65	-	453
1.2	496482	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY COIL, 22 mm	3.0	3.0	-40°C TO +50°C	-	IP65	-	457
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 G Ex nAc nCc IIC T5	473
1.2	496131	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 mm	3.0	3.0	-40°C TO +50°C	-	IP65	-	456
2.0/2.1	481865	COILS FOR DIN PLUG CONNECTION 32 mm	9.0	8.0	-40°C TO +50°C	Y	IP65	-	446
2.0/2.1	491514	COILS FOR DIN PLUG CONNECTION, 32 mm, UL	-	11.0	-40°C TO +50°C	Y	IP65	-	450
2.0/2.1	496081	COIL WITH FLYING LEADS, IP 67, 32 mm	9.0	9.0	-40°C TO +50°C	-	IP67	-	460
2.0/2.1	481000	COIL WITH SCREW TERMINAL, 40 mm	8.0	8.0	-40°C TO +50°C	-	IP 44 TO 67	-	462
2.0/2.1	483520	COIL WITH SCREW TERMINAL, DOUBLE FREQUENCY, 40 mm	-	9.0	-40°C TO +50°C	-	IP 44 TO 67	-	462
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	474
2.0/2.1	496100	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	474
2.0/2.1	492070	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", WITH WATER PROOF METAL HOUSING, 50 mm (WITH 3 M CABLE LENGTH)	8.0	9.0	-40°C TO +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	482
2.0/2.1	492070.60	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", WITH WATER PROOF METAL HOUSING, 50 mm (WITH 6 M CABLE LENGTH)	8.0	9.0	-40°C TO +65°C	-	IP67	II 2 G Ex mb IIC T4/T5	482
2.0/2.1	H210	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	482
2.0/2.1	H211	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	483
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	458
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	458
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	489
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	489
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	490
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	490
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 IIC T3/T4	493
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	-	467
2.0/2.2	492425	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 mm	14.0	14.0	-40°C TO +50°C	-	IP65	-	447
2.0/2.2	481044	COIL WITH SCREW TERMINAL, HIGH POWER, 40 mm	-	14.0	-40°C TO +50°C	-	IP 44 TO 67	-	463
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	-	464
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	477
2.0/2.2	496155	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "NAC NCC", 40 mm	14.0	14.0	-40°C TO +65°C	-	IP67	II 3 G Ex nAc nCc IIC T3	479

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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	-	451
3.0	482730	COILS FOR DIN PLUG CONNECTION, REDUCED POWER, 32 mm	7.0	6.0	-40°C TO +50°C	-	IP65	-	448
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	476
4.0	484990	COIL WITH SCREW TERMINAL, BISTABLE FOR IMPULSE APPLICATIONS, 40 mm	-	11.0	-40°C TO +50°C	-	IP 44 TO 67	-	468
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	478
4.0	485400	COIL WITH SCREW TERMINAL, BISTABLE FOR IMPULSE APPLICATIONS, 40 mm	13.0	-	-40°C TO +50°C	-	IP 44 TO 67	-	468
6.0	482740	COILS FOR DIN PLUG CONNECTION, LOW POWER, 32 mm	1.6	-	-40°C TO +50°C	-	IP65	-	449
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	475
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	485
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	494
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	494
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	498
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	-	498
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	495
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	492
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	497
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	497
10.1	496895	COIL FOR DIN PLUG CONNECTION FOR OIL AND GAS, 37 mm	8.0	8.0	-40°C TO +50°C	-	IP65	-	459
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	487
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	488
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	488
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	491
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	487
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	488
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	488
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	480
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	480
13.0	495913	Coil with ISO-DIN connector, for transportation applications, 32 mm	9.0	-	-40°C TO +20°C	-	IP69K	-	469
13.0	495294	COIL WITH ISO-DIN CONNECTOR, 12-24VDC FOR TRANSPORTATION APPLICATIONS, 32 mm	9.0	-	-40°C TO +20°C	-	IP69K	-	469
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	-	465
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	-	466

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