






Plunger valve 2/2-way direct-acting

- Direct-acting and compact valve up to diameter of DN 6.0
- Vibration-proof, bolted coil system
- Explosion proof versions
- Energy-saving version with Kick and Drop available

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type 1087 Timer, form A according to DIN EN 175301 - 803	▶
	Type 2518 Cable plug, form A according to DIN EN 175301 - 803	▶
	Type 2509 Cable plug, form A according to DIN EN 175301 - 803	▶

Type description

Valve 6013 is a direct-acting plunger valve. The stopper and plunger guide tube are welded together to enhance pressure resistance and leak-tightness. Various seal material combinations are available depending on the application. A Bürkert-specific flange design (SFB) enables space-saving arrangement of valves on a manifold. Kick and Drop coils are available for the reduction of electrical power consumption during operation.

DTS 1000011032 EN Version: RL (released | freigegeben | valide) printed: 10.01.2024

Table of contents

1. General technical data	4
1.1. Standard version	4
1.2. Analytical version	5
1.3. DVGW version	5
2. Circuit functions	5
3. Approvals and conformities	6
3.1. General notes	6
3.2. Conformity	6
3.3. Standards	6
3.4. Explosion protection	6
3.5. North America (USA/Canada)	7
3.6. Drinking water	7
3.7. Foods and beverages/Hygiene	7
3.8. Others	8
Fuel gases	8
4. Materials	8
4.1. Bürkert resistApp	8
4.2. Material specifications	8
Standard version	8
ATEX/IECEX cable version	9
ATEX/IECEX terminal box version	10
5. Dimensions	11
5.1. Standard version	11
5.2. ATEX/IECEX cable version	12
5.3. ATEX/IECEX terminal box version	13
5.4. Single manifold	14
5.5. Multiple manifold	15
5.6. Manifolds for block mounting	15
6. Performance specifications	16
6.1. Power consumption	16
Circuit function A	16
Circuit function B	16
7. Product installation	17
7.1. Installation notes	17
Control for impulse version with polarity reversal control	17
8. Product accessories	18
8.1. Cable glands for ATEX/IECEX terminal box	18
8.2. Special tool to turn the terminal box	18
9. Ordering information	19
9.1. Bürkert eShop	19
9.2. Bürkert product filter	19
9.3. Bürkert Product Enquiry Form	19

9.4.	Ordering chart	20
	Standard version	20
	Impulse version	21
	Analytical version	22
	DVGW version	22
	ATEX/IECEX cable version	23
	ATEX/IECEX terminal box version	23
9.5.	Ordering chart accessories	24
	Singel manifold	24
	Multiple manifold	24
	Cable plug Type 2518, form A according to DIN EN 175301 - 803	24
	Cable plug Type 2509, form A according to DIN EN 175301 - 803	25
	Cable glands for ATEX/IECEX terminal box	25

DTS 1000011032 EN Version: AJ Status: RL (released | freigegeben | validé) printed: 10.01.2024

1. General technical data

1.1. Standard version

Product properties	
Dimensions	Further information can be found in chapter “5. Dimensions” on page 11.
Material	
Seal	FKM, PTFE/Graphite (EPDM on request)
Body	Brass, stainless steel 1.4305/303
Coil	Polyamide or epoxy
Orifice	DN 2.0...DN 6.0
Circuit function	A and B Further information can be found in chapter “2. Circuit functions” on page 5.
Thermal insulation class of solenoid coil	Polyamide coil class B Epoxy coil class H
Performance data	
Duty cycle/single valve with block assembly on manifold	100 % continuous operation Intermittent operation 60 % (30 min) or with 5 W coil (on request)
Electrical data	
Operating voltage	
Standard version	24 V/DC, 24 V/50 Hz, 24 V/60 Hz, 120 V/50 Hz, 230 V/50 Hz, 240 V /60 Hz
Analytical version	24 V/DC, 230 V/50 Hz (other voltages on request)
Power consumption	Further information can be found in chapter “6. Performance specifications” on page 16.
Voltage tolerance	± 10 %
Medium data	
Operating medium	
Standard version	Technical vacuum, neutral gases and fluids (e.g. compressed air, water, hydraulic oil)
Analytical version	Neutral medium which do not attack the body and seal materials Further information can be found in chapter “4.1. Bürkert resistApp” on page 8.
Medium temperature	
With FKM	-10 °C...+100 °C (PA coil), -10 °C...+120 °C (Epoxy coil), -40 °C on request
With PTFE/Graphite	-40 °C...+180 °C (further information can be found in chapter “4.1. Bürkert resistApp” on page 8)
With FKM, circuit function B	-10 °C...100 °C (AC), -10 °C...120 °C (DC)
Viscosity	Max. 21 mm ² /s
Process/Port connection & communication	
Electrical connection	<ul style="list-style-type: none"> Plug contacts according to DIN EN 175 301 -803 form A for cable plug Type 2518 ▶. Further information can be found in chapter “Cable plug Type 2518, form A according to DIN EN 175301 -803” on page 24. Plug contacts according to DIN EN 175 301 -803 form A for cable plug Type 2509 ▶. Further information can be found in chapter “Cable plug Type 2509, form A according to DIN EN 175301 -803” on page 25. ATEX/IECEx version with 3 m moulded cable or terminal cable
Port connection	
Standard version	G 1/8, G 1/4, G 3/8, NPT 1/8, NPT 1/4, NPT 3/8, manifold (SFB)
Analytical version	G 1/8, G 1/4, NPT 1/8, NPT 1/4
Approvals and conformities	
Degree of protection	IP65 with cable plug
Explosion protection	Further information can be found in chapter “3.4. Explosion protection” on page 6.
North America (USA/Canada)	Further information can be found in chapter “3.5. North America (USA/Canada)” on page 7.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. +55 °C (higher temperatures on request)

1.2. Analytical version

This version is particularly suitable for switching from extremely pure gaseous medium. All medium-affected parts are submitted to additional purification processes, so that the medium is not contaminated under any circumstances.

The tightness test takes place at the Helium leak detector from a min. of 10^{-4} mbar l/sec.

Product properties

Material

Seal	Silicon, oil and fat free version Tightness $< 10^{-4}$ mbar l/s
Body	Brass, stainless steel 1.4305/303

Medium data

Operating medium	Neutral medium, which does not attack the body and seal materials Further information can be found in chapter "4.1. Bürkert resistApp" on page 8.
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Environment and installation

Installation instructions	No oils, fats or silicone to be used during installation.
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1.3. DVGW version

The solenoid valve Type 6013 DVGW is primarily intended as an automatic safety shut-off valve for fuel gases. A strainer is installed in the inlet of the valve.

Product properties

Material

Seal	NBR
Body	Brass, stainless steel 1.4305/303
Circuit function	A Further information can be found in chapter "2. Circuit functions" on page 5.

Performance data

Operating pressure	Max. 0...5 bar
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Medium data

Operating medium	Fuel gases (e.g. town gas, district gas, liquid gas) Further information can be found in chapter "4.1. Bürkert resistApp" on page 8.
Medium temperature	0 °C...+80 °C

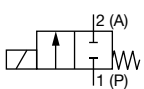
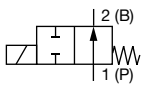
Approvals and conformities

Standards	DIN EN 161:2013, DIN EN 13611:2016
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Environment and installation

Ambient temperature	-20 °C...+55 °C
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2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid valve Direct-acting Normally closed
	Circuit function B (CF B) 2/2-way solenoid valve Direct-acting Normally open

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available versions can be supplied with the below mentioned approvals or conformities.



3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.






3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.


3.4. Explosion protection

Approval	Description								
 	<p>Optional: Explosion protection according to category 2 (zone 1/21)</p> <p>Ex marking of the components according to the following table:</p> <table><tr><th colspan="2">Coil Type AC10</th></tr><tr><th>Coils with cable outlet</th><th>Coils with terminal box</th></tr><tr><td>ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db</td><td>ATEX: EPS 18 ATEX 1232 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db</td></tr><tr><td>IECEx: IECEx EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db</td><td>IECEx: IECEx EPS 18.0110 X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db</td></tr></table>	Coil Type AC10		Coils with cable outlet	Coils with terminal box	ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	ATEX: EPS 18 ATEX 1232 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db	IECEx: IECEx EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db	IECEx: IECEx EPS 18.0110 X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db
Coil Type AC10									
Coils with cable outlet	Coils with terminal box								
ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	ATEX: EPS 18 ATEX 1232 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db								
IECEx: IECEx EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db	IECEx: IECEx EPS 18.0110 X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db								
	<p>Optional: Explosion protection according to category 3 (zone 2/22)</p> <p>Ex marking of the components according to the following table:</p> <table><tr><th colspan="2">Coil Type AC10</th></tr><tr><th colspan="2">Coil with plug contacts form A and cable plug Type 2509</th></tr><tr><td colspan="2">ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db</td></tr><tr><td colspan="2">IECEx: IECEx EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db</td></tr></table>	Coil Type AC10		Coil with plug contacts form A and cable plug Type 2509		ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db		IECEx: IECEx EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db	
Coil Type AC10									
Coil with plug contacts form A and cable plug Type 2509									
ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db									
IECEx: IECEx EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db									


3.5. North America (USA/Canada)

Approval	Description
	Optional: UL Listed for the USA (valid for valves) The valves are UL Listed for the USA according to: <ul style="list-style-type: none"> UL 429 (electrically operated valves)
	Optional: UL Hazardous Locations – Explosion Protection (valid for coils) UL Listed for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 2, Group A, B, C and D Class II + III, Division 2, Group F and G
	Optional: UL Recognized for the USA (valid for valves) The valves are UL Recognized for the USA according to: <ul style="list-style-type: none"> UL 429 (electrically operated valves)
	Optional: CSA for Canada (valid for valves) The valves are CSA approved for Canada according to: <ul style="list-style-type: none"> CSA 139 (electrically operated valves)
	Optional: FM (Factory Mutual) – Explosion Protection (valid for coils) FM for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 1, Groups A, B, C and D Class II + III, Division 1, Groups E, F and G

3.6. Drinking water



Conformity	Description
	Suitable for use in drinking water applications The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV). PA body: PF36: Suitable for products with a maximum temperature of 60 °C (warm water) PPS/brass/stainless steel body: PF39: Suitable for products with a maximum temperature of 85 °C (hot water)

3.7. Foods and beverages/Hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations (valid for the variable code PL02, PL03) All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
USP	United States Pharmacopeial Convention (USP) (valid for the variable code PL04) All wetted materials are biocompatible according to the manufacturer's declaration.
	EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02) All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.

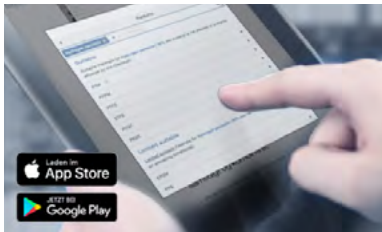
3.8. Others

Fuel gases

Conformity	Description
	Fuel gases (valid for the variable code PO16) The products comply with: <ul style="list-style-type: none">• Regulation (EU) 2016/426 – Appliances burning gaseous fuels and• DVGW DIN EN 161 (Automatic shut-off valves for gas burners and gas appliances) and
	Optional: DIN EN 549:2023-07 certification The wetted valve seals are compliant with DIN EN 549:2023-07 (Rubber materials for seals and diaphragms for gas appliances and gas equipment) for medium temperatures of 0 °C...+80 °C.

4. Materials

4.1. Bürkert resistApp



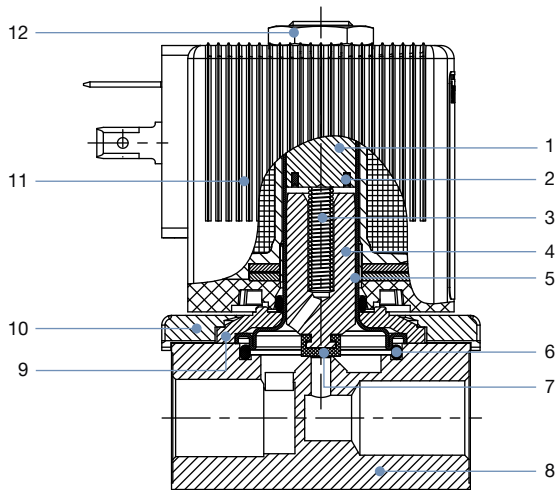
Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

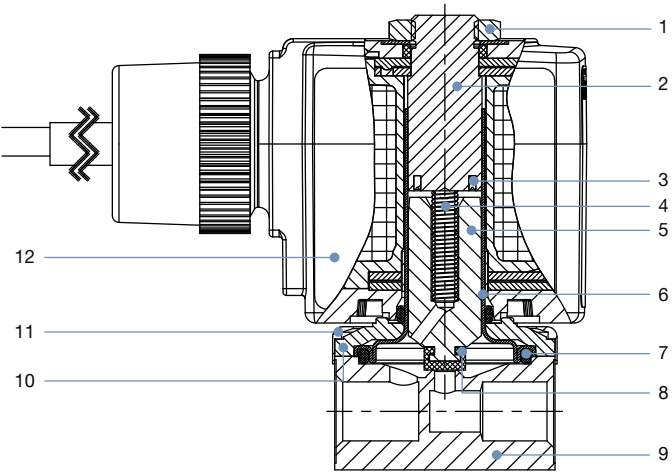
4.2. Material specifications

Standard version



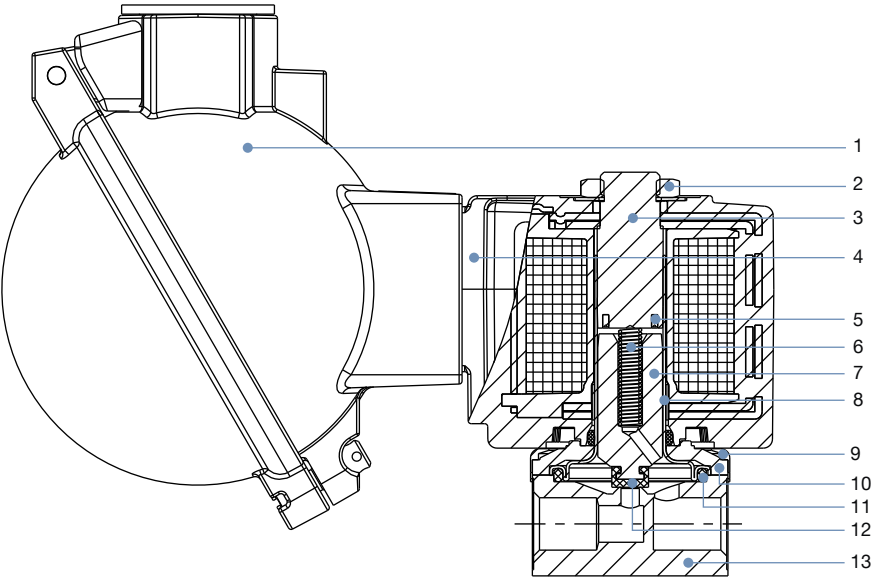
No.	Element	Material
1	Stopper	Stainless steel 1.4105/430F
2	Shading ring	Cu (brass version) Ag (stainless steel version)
3	Spring	Stainless steel 1.4310/301
4	Magnetic core	Stainless steel 1.4105/430F
5	Armature guide tube	Stainless steel 1.4303/305/308
6	Seal	FKM Graphite (high temperature version)
7	Armature seal	FKM PTFE
8	Valve body	Brass Stainless steel 1.4305/303
9	Sub-base	Steel, surface finish thick-film passivated (brass version) Stainless steel 1.4301/304 (stainless steel version)
10	Cover	Polyamide
11	Coil	PA (polyamide) Epoxy
12	Locknut	Steel, surface finish thick-film passivated (brass version) Stainless steel 1.4305/303 PTFE coated (stainless steel version)

ATEX/IECEx cable version



No.	Element	Material
1	Locknut	Steel, surface finish thick-film passivated (brass version) Stainless steel 1.4305/303 PTFE coated (stainless steel version)
2	Stopper	Stainless steel 1.4105/430F
3	Shading ring	Cu (brass version) Ag (stainless steel version)
4	Spring	Stainless steel 1.4310/301
5	Magnetic core	Stainless steel 1.4105/430F
6	Armature guide tube	Stainless steel 1.4303/305/308
7	Seal	FKM Graphite (high temperature version)
8	Armature seal	FKM PTFE (high temperature version)
9	Valve body	Brass Stainless steel 1.4305/303
10	Sub-base	Steel, surface finish thick-film passivated (brass version) Stainless steel 1.4301/304 (stainless steel version)
11	Cover	Polyamide
12	Coil	Epoxy

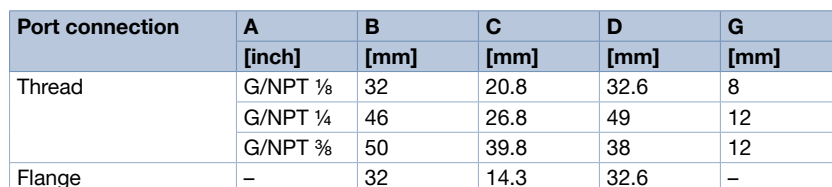
ATEX/IECEx terminal box version



No.	Element	Material
1	Terminal box	Aluminium
2	Locknut	Steel, surface finish thick-film passivated (brass version) Stainless steel 1.4305/303 PTFE coated (stainless steel version)
3	Stopper	Stainless steel 1.4105/430F
4	Coil	Epoxy
5	Shading ring	Cu (brass version) Ag (stainless steel version)
6	Spring	Stainless steel 1.4310/301
7	Magnetic core	Stainless steel 1.4105/430F
8	Armature guide tube	Stainless steel 1.4303/305/308
9	Cover	Polyamide
10	Sub-base	Steel, surface finish thick-film passivated (brass version) Stainless steel 1.4301/304 (stainless steel version)
11	Seal	FKM Graphite (high temperature version)
12	Armature seal	FKM PTFE (high temperature version)
13	Valve body	Brass Stainless steel 1.4305/303

5.1. Standard version

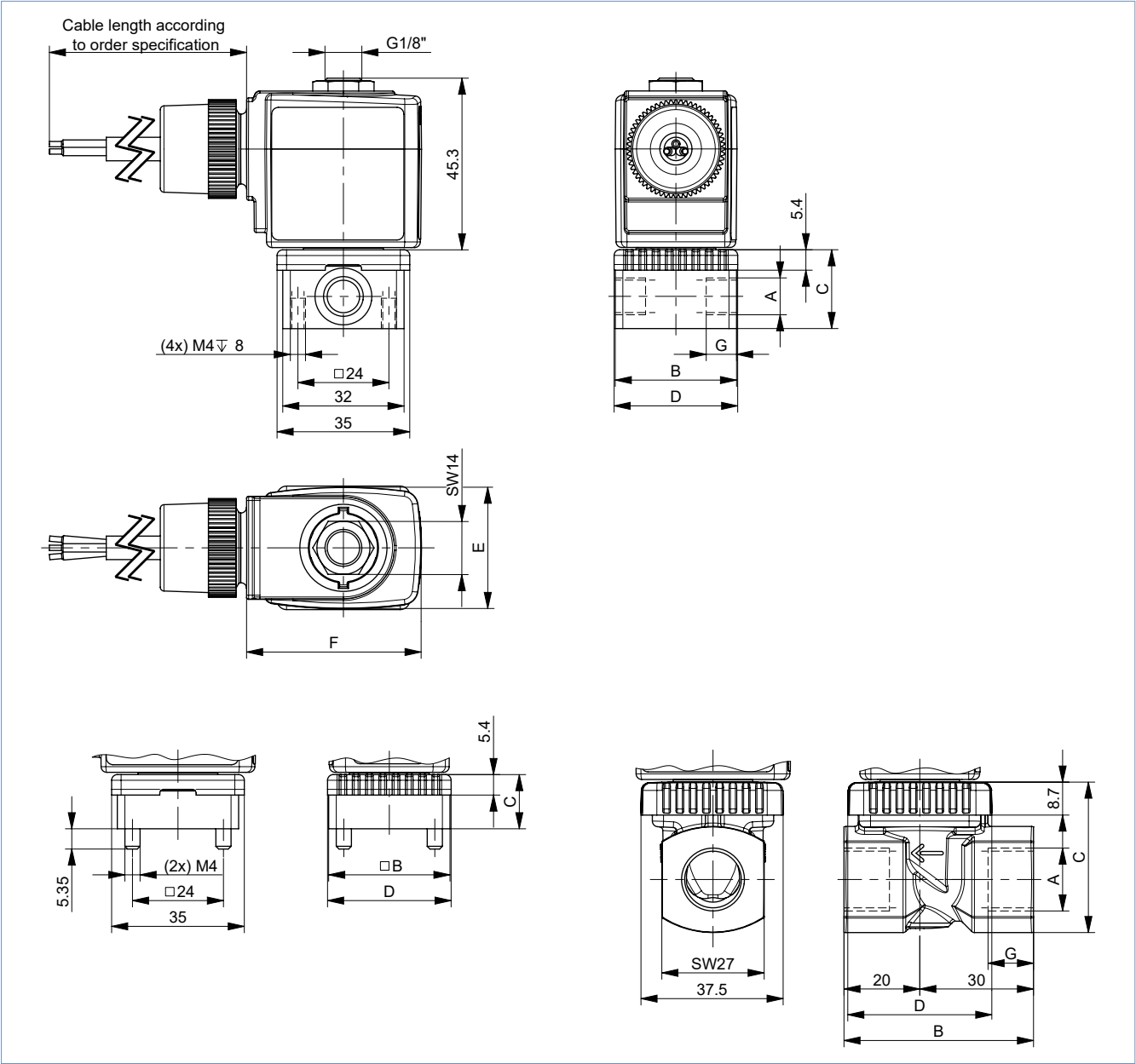
Dimensions in mm



Visit product website ►

5.2. ATEX/IECEx cable version

Note:
Dimensions in mm



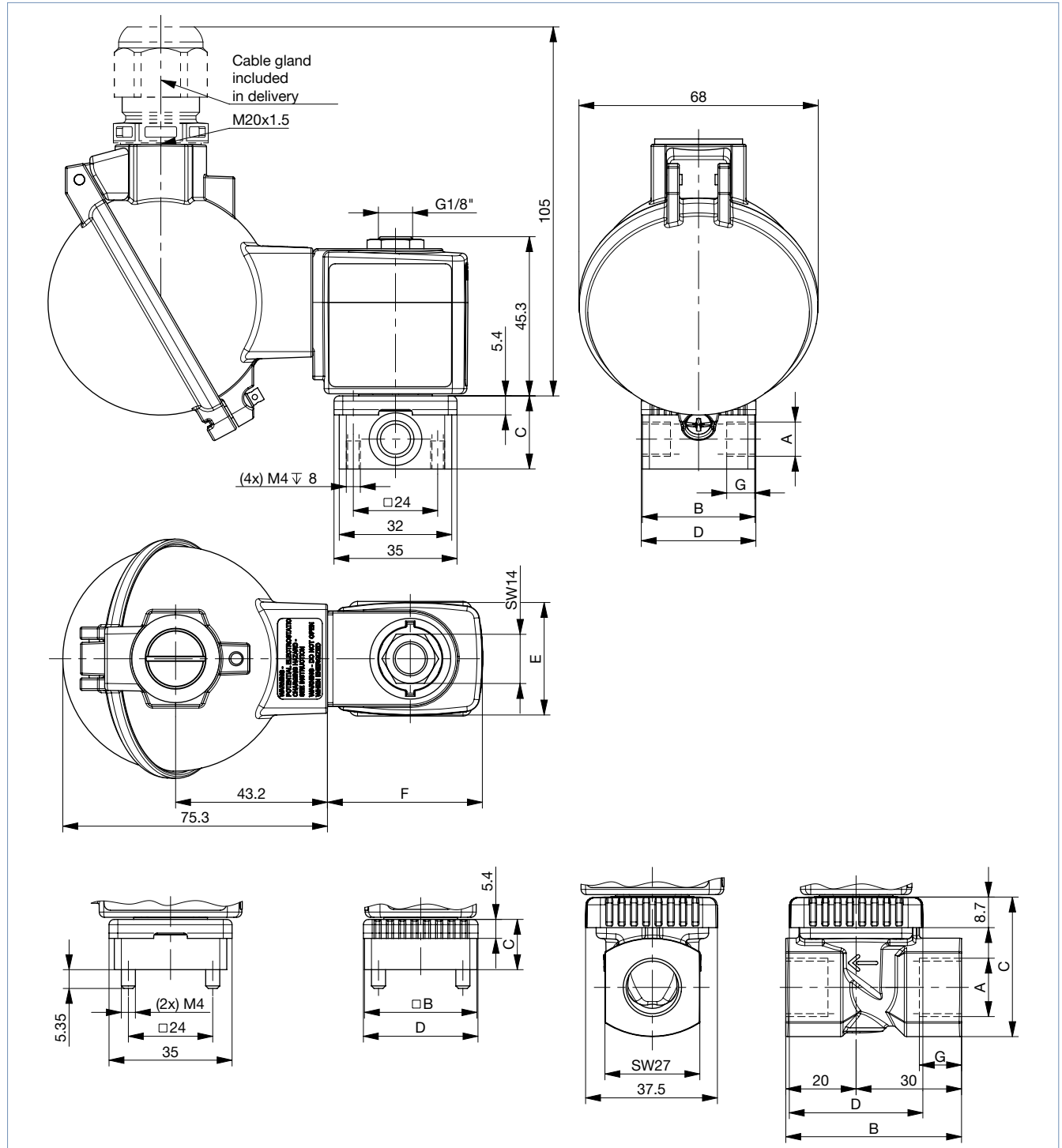
Port connection	A [inch]	B [mm]	C [mm]	D [mm]	G [mm]
Thread	G/NPT 1/8	32	20.8	32.6	8
	G/NPT 1/4	46	26.8	49	12
	G/NPT 3/8	50	39.8	38	12
Flange	–	32	14.3	32.6	–

Coil size	E [mm]	F [mm]
5	32	46
6	40	52

5.3. ATEX/IECEx terminal box version

Note:

Dimensions in mm



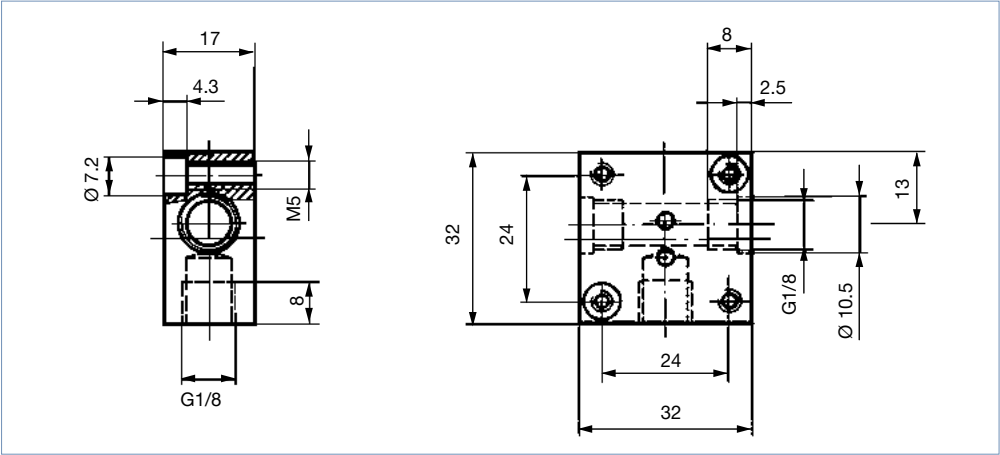
Port Connection	A	B	C	D	H
	[inch]	[mm]	[mm]	[mm]	[mm]
Thread	G/NPT 1/8	32	20.8	32.6	8
	G/NPT 1/4	46	26.8	49	12
	G/NPT 3/8	50	39.8	38	12
Flange	–	32	14.3	32.6	–

Coil size	E	F
	[mm]	[mm]
5	32	44
6	40	51

5.4. Single manifold

Note:

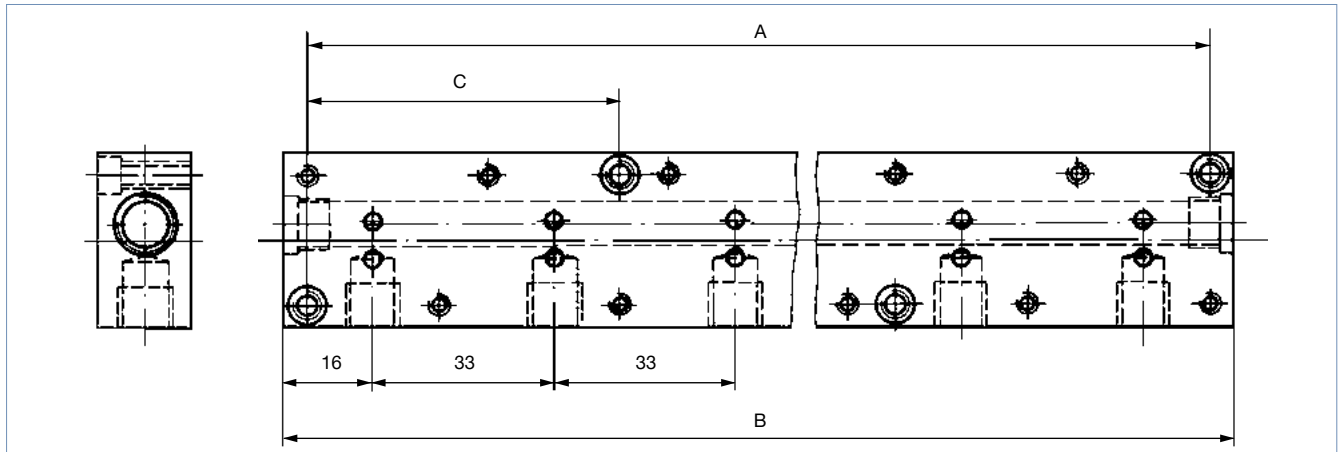
- Dimensions in mm
- Refer to **“5.6. Manifolds for block mounting”** on page 15 for more information about the installation of manifolds.



5.5. Multiple manifold

Note:

- Dimensions in mm
- The manifold is only possible with coil size 5.
- Brass or stainless steel manifold is available on request.



Accessory part	Quantity of valve places	Hole spacing A		Total length B		Hole spacing C		Article no.
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	
Multiple manifold (in aluminium)	2	57	2.24	65	2.56	–	–	005023 𐀀
	3	90	3.54	98	3.86	–	–	005286 𐀀
	4	123	4.84	131	5.16	–	–	005287 𐀀
	5	156	6.14	164	6.46	57	2.24	005035 𐀀
	6	189	7.44	197	7.76	57	2.24	005038 𐀀
	8	255	10.04	263	10.35	90	3.54	005386 𐀀
	10	321	12.64	329	12.95	90	3.54	005764 𐀀
Single manifold (in aluminium)								005020 𐀀
Connector nipple with O-ring to connect from manifold								005040 𐀀
Covering plate with screws and O-ring for locking unoccupied valve positions								005630 𐀀

5.6. Manifolds for block mounting

Note:

- Close open ports for valves that are not required with cover plates (see accessories).
- Fasten the manifolds to a standard rail.
- Refer to chapter **“5.5. Multiple manifold” on page 15** for more information about the dimensions.

With manifold mounting, please comply with the permissible duty cycle (5 W models with 100 % continuous rating or standard 8 W model with 60 % duty cycle). The pressure port for the manifold is designated with P (R) and the outlet port with A (B). Only connect together ports with the same designation.

2/2-way valves of Type 6013 can be operated together on a manifold with 3/2-way valves of Type 6014, circuit function C (not D or T!) if the operating pressures matches according to the rating plates. The manifolds can also be expanded if the valve functions are taken into consideration. Connector nipples with O-rings are used to connect the P (R) ports.

6. Performance specifications

6.1. Power consumption

Circuit function A

Orifice [mm]	Port connection	K _v value water [m ³ /h]	Weight [g]	Power consumption ^{1.)} [W]	Electrical power		Coil size	Switching times	
					Inrush AC [VA]	Hold AC [VA]		Opening [ms]	Closing [ms]
2.0	G ⅜	0.12	325	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
2.0	G ¼	0.12	465	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
2.0	Flange	0.12	290	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
2.5	G ⅜	0.16	325	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
2.5	G ¼	0.16	465	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
3.0	G ⅜	0.23	325	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
3.0	G ¼	0.23	465	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
3.0	G ⅜	0.23	550	10 W AC or 10 W DC (11)	30	22	6 (40 mm)	20	30
4.0	G ¼	0.30	465	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
4.0	G ⅜	0.30	550	10 W AC or 10 W DC (11)	30	22	6 (40 mm)	20	30
6.0	G ¼	0.55	465	8 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
6.0	G ⅜	0.55	550	10 W AC or 10 W DC (11)	30	22	6 (40 mm)	20	30

1.) The values in brackets correspond to a coil temperature of +20 °C.

Circuit function B

Orifice [mm]	Port connection	K _v value water [m ³ /h]	Weight [g]	Power consumption ^{1.)} [W]	Electrical power		Coil size	Switching times	
					Inrush AC [VA]	Hold AC [VA]		Opening [ms]	Closing [ms]
2.00	G ⅜	0.12	325	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
2.00	G ¼	0.12	465	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
2.00	Flange	0.12	290	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
3.00	G ⅜	0.23	325	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
3.00	G ¼	0.23	465	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
3.00	Flange	0.23	290	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
4.00	G ¼	0.3	465	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30
6.00	G ¼	0.55	465	7 W AC or 8 W DC (9)	24	17	5 (32 mm)	20	30

1.) The values in brackets correspond to a coil temperature of +20 °C.

7. Product installation

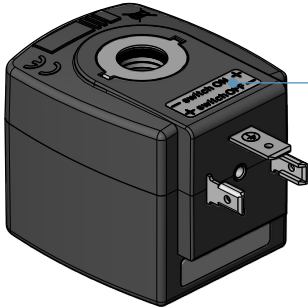
7.1. Installation notes

Control for impulse version with polarity reversal control

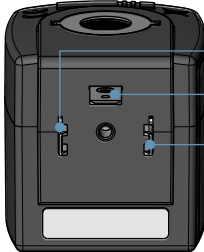
Note:

- Use cable plug without electrical wiring exclusively for impulse version.
- Pulse duration min. 50 ms

Polarity (is marked on the coil with a label)	Features	Terminal connections
– switch ON +	valve open	(+) on terminal 2 and (–) on terminal 1 (see below)
+ switch OFF –	valve closed	(+) on terminal 1 and (–) on terminal 2 (see below)



Polarity is marked on the coil with a label:
- switch ON +
+ switch OFF -



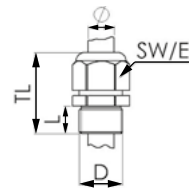
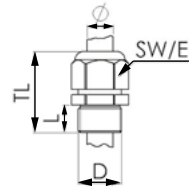
1
Protective conductor port
2

8. Product accessories

8.1. Cable glands for ATEX/IECEX terminal box

Note:

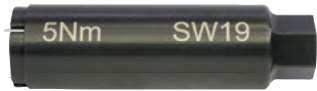
A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at a surcharge, see “9.5. Ordering chart accessories” on page 24.

Description	Ex approvals	Identification	Dimensions											
	Certification													
Ex cable gland, Nickel-plated brass, 6...13 mm	PTB 04 ATEX 1112 X, IECEx PTB 13.0027X	II 2 G Ex e IIC Gb, II 2 D Ex tb IIIC Db IP68		<table><tr><td>TL</td><td>29...37 mm</td></tr><tr><td>L</td><td>6 mm</td></tr><tr><td>D</td><td>20 mm</td></tr><tr><td>SW</td><td>24 mm</td></tr><tr><td>E</td><td>27 mm</td></tr></table>	TL	29...37 mm	L	6 mm	D	20 mm	SW	24 mm	E	27 mm
TL	29...37 mm													
L	6 mm													
D	20 mm													
SW	24 mm													
E	27 mm													
Ex cable gland, Polyamide, 7...13 mm	PTB 13 ATEX 1015 X, IECEx PTB 13.0034X	II 2 G Ex e IIC Gb, II 2 D Ex tb IIIC Db IP68		<table><tr><td>TL</td><td>36...45 mm</td></tr><tr><td>L</td><td>10 mm</td></tr><tr><td>D</td><td>20 mm</td></tr><tr><td>SW</td><td>24 mm</td></tr><tr><td>E</td><td>28 mm</td></tr></table>	TL	36...45 mm	L	10 mm	D	20 mm	SW	24 mm	E	28 mm
TL	36...45 mm													
L	10 mm													
D	20 mm													
SW	24 mm													
E	28 mm													

8.2. Special tool to turn the terminal box

Note:

This special tool is not supplied with the valve, see “9.5. Ordering chart accessories” on page 24.

Description	Components of the set
Set SC02-AC10 	<ul style="list-style-type: none">• Special wrench• Service manual

9. Ordering information

9.1. Bürkert eShop



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9.2. Bürkert product filter

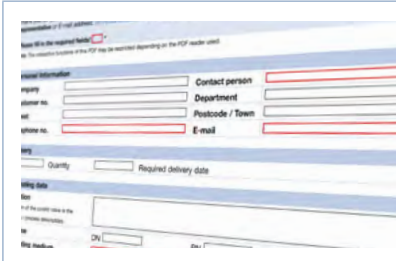


Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

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9.3. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

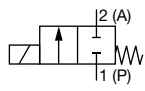





















































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9.4. Ordering chart

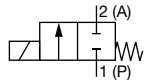









Standard version

Note:

Please note that the cable plug must be ordered separately, see “Cable plug Type 2518, form A according to DIN EN 175301-803” on page 24 or separate data sheet Type 2518 ▶.

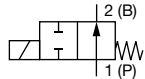










Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no. Brass body	Article no. Stainless steel body
		[mm]	[m³/h]	[V/Hz]	[W]	[bar]	FKM seal	
	With FKM seal, brass or stainless steel body (class B)							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ⅝	2.0	0.12	024/DC	8	0...12	134237 	134233 
				024/50		0...25	132865 	134234 
				230/50		0...25	134239 	134236 
	G ¼		0.12	024/DC	8	0...12	137537 	137533 
				024/50		0...25	137538 	137534 
				230/50		0...25	137540 	137536 
	Flange (SFB)		0.12	024/DC	8	0...12	134244 	145954 
				024/50		0...25	134245 	–
				230/50		0...25	20022979 	–
	G ⅝	2.5	0.16	024/DC	8	0...10	134240 	437352 
				024/50		0...16	134241 	–
				230/50		0...16	134243 	–
	G ⅝	3.0	0.23	024/DC	8	0...6	126091 	126078 
				024/50		0...10	126092 	126079 
				230/50		0...10	126094 	126081 
	G ¼		0.23	024/DC	8	0...6	125301 	125317 
				024/50		0...10	125302 	126082 
				230/50		0...10	125304 	126084 
	G ⅜		0.23	024/DC	10	0...8	134248 	–
				024/50		0...14	134249 	–
				230/50		0...14	134251 	–
	G ¼	4.0	0.30	024/DC	8	0...1.5	125306 	125318 
				024/50		0...4	125307 	125319 
				230/50		0...4	125309 	125320 
	G ⅜		0.30	024/DC	10	0...2.5	134252 	–
				024/50		0...6	134253 	–
				230/50		0...6	134255 	–
	G ¼	6.0	0.55	024/DC	8	0...0.5	125311 	126086 
				024/50		0...1.5	125312 	126087 
				230/50		0...1.5	125314 	126089 
	G ⅜		0.55	024/DC	10	0...0.75	134256 	–
				024/50		0...2.5	134257 	–
				230/50		0...2.5	134259 	–

– = not available

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.
		[mm]	[m ³ /h]	[V/Hz]	[W]	[bar]	
For high temperature applications (- 40 °C...+ 180 °C), PTFE seat seal, brass body (class H)							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ¼	2.0	0.12	024/DC	8	0...12	136015 
				024/50		0...25	136016 
				230/50		0...25	136018 
	G ¼	3.0	0.23	024/DC	10	0...6	136019 
				024/50		0...10	136020 
				230/50		0...10	136022 
	G ¾		0.23	024/DC	10	0...8	136023 
				024/50		0...14	136024 
				230/50		0...14	136026 

1.) Measurement at +20 °C, 1 bar^{2.)} at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.
		[mm]	[m ³ /h]	[V/Hz]	[W]	[bar]	
With FKM seal and brass body (class H)							
CF B 2/2-way solenoid valve Direct-acting Normally open 	G ⅝	2.0	0.12	024/DC	8	0...16	213543 
				230/50	7		213550 
	G ⅝	3.0	0.23	024/DC	8	0...8	213545 
				230/50	7		213551 
	G ¼		0.23	024/DC	8	0...8	213546 
				230/50	7		213552 
	G ¼	4.0	0.3	0024/DC	8	0...4	213548 
				230/50	7		213553 
	G ¼	6.0	0.55	0024/DC	8	0...2	213549 
				230/50	7		213554 

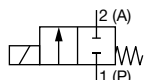










1.) Measurement at +20 °C, 1 bar^{2.)} at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

Impulse version

Note:

Please note that the cable plug must be ordered separately, see **“Cable plug Type 2518, form A according to DIN EN 175301-803”** on **page 24** or separate data sheet **Type 2518** .

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Pressure range ^{2.)}	Power consumption DC (hot/cold coil)	Article no.	
						012/DC	024/DC
			[mm]	[m ³ /h]	[bar]	[W]	[V/Hz]
With FKM seal and brass body (class H)							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Flange (SFB)	2.0	0.12	0...16	7	209266 	209272 
		2.5	0.16	0...10	7	209267 	209273 
		3.0	0.23	0...6	7	209268 	209274 
	G ⅝	2.0	0.12	0...16	7	209269 	209275 
		2.5	0.16	0...10	7	209270 	209276 
		3.0	0.23	0...6	7	209271	209277

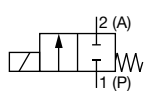








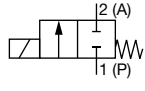








1.) Measurement at +20 °C, 1 bar^{2.)} at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

Analytical version

Note:

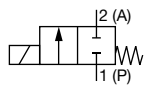
Please note that the cable plug must be ordered separately, see [“Cable plug Type 2518, form A according to DIN EN 175301 - 803” on page 24](#) or separate data sheet [Type 2518](#) ▶.

Circuit function	Port connection	Orifice	K _V value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.
		[mm]	[m ³ /h]	[V/Hz]	[W]	[bar]	
With FKM seal and brass body (class B)							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ⅛	2.0	0.12	024/DC	8	0...12	137826 
				230/50		0...25	137827 
	G ⅜	2.5	0.16	024/DC	8	0...10	137828 
				230/50		0...16	137829 
	G ¼	3.0	0.23	024/DC	8	0...6	137830 
				230/50		0...10	137831 
	G ¼	4.0	0.30	024/DC	8	0...1.5	137832 
				230/50		0...4	137833 
With FKM seal and stainless steel body (class B)							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ⅛	2.0	0.12	024/DC	8	0...12	137818 
				230/50		0...25	137819 
	G ¼	2.0	0.12	024/DC	8	0...12	137820 
				230/50		0...25	137821 
	G ¼	3.0	0.23	024/DC	8	0...6	137822 
				230/50		0...10	137823 
	G ¼	4.0	0.30	024/DC	8	0...1.5	137824 
				230/50		0...4	137825 

1.) Measurement at +20 °C, 1 bar^{2.)} at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

DVGW version

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.
		[mm]	[m³/h]	[V/Hz]	[W]	[bar]	
With NBR seal, brass body (class B)							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ¼	3.0	0.23	024/DC	8	0...5	258362 𐀀
				230/50		0...5	296548 𐀀
	G ¼	4.0	0.3	024/DC	8	0...1.5	258361 𐀀
				230/50		0...4	296549 𐀀
	G ¼	6.0	0.55	024/DC	8	0...0.5	266293 𐀀
				230/50		0...1.5	301072 𐀀

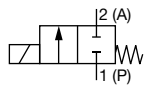






















1.) Measurement at +20 °C, 1 bar^{2.)} at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

ATEX/IECEX cable version

Note:

- The maximum medium temperature must never exceed the permitted temperature class (T4: +135 °C, T5: +100 °C, T6: +85 °C) minus 5 K.
- With 3 m cable as standard. Other lengths are available on request.

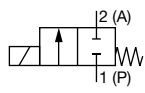









Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.	
		[mm]	[m ³ /h]	[V/Hz]	[W]	[bar]	Brass body	Stainless steel body
Ex m T4 approved, with FKM seal and molded cable (3 m), single mounting only								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	manifold (SFB)	2.0	0.11	024/AC/DC	7	0...6	351923 	351915 
				230/AC/DC			364417 	o. r.
	G ⅛	0.12	024/AC/DC	9	0...10	351895 	351900 	
			230/AC/DC			o. r.	351926 	
	G ¼	0.12	024/AC/DC	9	0...10	351909 	351901 	
			230/AC/DC			351920 	351914 	
	G ⅛	2.5	0.16	024/AC/DC	9	0...8	364430 	o. r.
				230/AC/DC			o. r.	o. r.
	G ⅛	3.0	0.23	024/AC/DC	9	0...5	o. r.	351933 
				230/AC/DC			o. r.	o. r.
	G ¼		0.23	024/AC/DC	9	0...5	351896 	351899 
				230/AC/DC			351925 	351936 
	G ¼	4.0	0.30	024/AC/DC	9	0...1.2	351921 	364523 
				230/AC/DC			o. r.	364528 
	G ¼	6.0	0.55	024/AC/DC	9	0...0.4	351902 	351948 
				230/AC/DC			364517 	o. r.

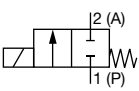










o. r. = on request

ATEX/IECEX terminal box version

Note:






The maximum medium temperature must never exceed the permitted temperature class (T4: +135 °C, T5: +100 °C, T6: +85 °C) minus 5 K.

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.	
		[mm]	[m³/h]	[V/Hz]	[W]	[bar]	Brass body	Stainless steel body
Ex m T4 approved, with FKM seal and molded cable (3 m), single mounting only								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	manifold (SFB)	1.5	0.08	024 / AC/DC	9	0...16	364529 	o. r.
	G ⅝	2	0.12	024 / AC/DC		0...10	351938 	351953 
				230 / AC/DC			364533 	364537 
				024 / AC/DC			351944 	351917 
				230 / AC/DC			364538 	351929 

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Voltage/ Frequency	Coil power	Pressure range ^{2.)}	Article no.	
		[mm]	[m³/h]	[V/Hz]	[W]	[bar]	Brass body	Stainless steel body
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ⅝	3	0.23	024 / AC/DC	9	0...5	364540 	o. r.
				230 / AC/DC			o. r.	o. r.
				024 / AC/DC			o. r.	351906 
				230 / AC/DC			o. r.	364541 
	G ¼	4	0.3	024 / AC/DC		0...1.2	351941 	364544 
				230 / AC/DC			o. r.	364548 
		6	0.55	024 / AC/DC		0...0.4	364551 	364554 
				230 / AC/DC			364555 	364556 

o. r. = on request

Further versions on request

 Approval <ul style="list-style-type: none"> UL/UR/CSA UL Hazloc Div 2 FM Hazloc Div 1 European gas approval Class A, Group 2 	 Pressure Variants with increased coil power for higher medium pressure
	 Process connection Threaded port NPT, Rc
 Material Seal material EPDM	 Voltage Further voltages on request

9.5. Ordering chart accessories

Singel manifold

Note:

Refer to chapter "5.4. Single manifold" on page 14 for more order information.


Multiple manifold


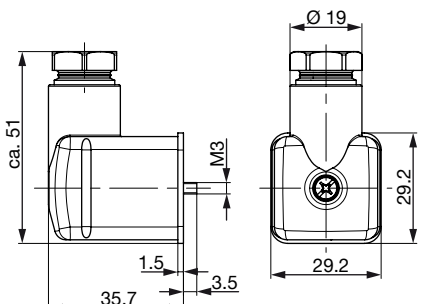





Note:

Refer to chapter "5.5. Multiple manifold" on page 15 for more order information.

Cable plug Type 2518, form A according to DIN EN 175301-803

Note:


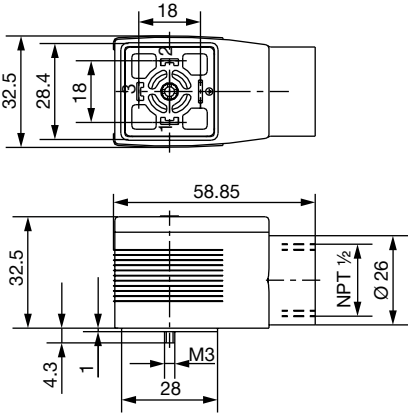

- Dimensions in mm
- For further versions see data sheet **Type 2518** 

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry (AC/DC)	0...250 V AC/DC	314802 
		With LED (AC/DC)	12...24 V AC/DC	314812 
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820 
		With rectifier, LED and varistor	12...24 V AC/DC	314816 
		Without circuitry (AC/DC) with silicone seal for higher ambient temperature, e.g. steam version (NA07)	0...250 V AC/DC	361687 

Cable plug Type 2509, form A according to DIN EN 175301-803

Note:




- Dimensions in mm
- Without circuitry (Standard)
- Refer to data sheet **Type 2509** ► for more information about the cable plug.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry	0...250 V AC/DC	137943 

Cable glands for ATEX/IECEx terminal box

Note:

- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at surcharge.
- Refer to **“8.1. Cable glands for ATEX/IECEx terminal box”** on page 18 for more information about Ex cable glands.
- Refer to **“8.2. Special tool to turn the terminal box”** on page 18 for more information about special wrench.

Description	Article no.
Ex cable gland, nickel-plated brass, 6...13 mm ^{1.)}	773278 
Ex cable gland, polyamide, 7...13 mm ^{1.)}	773277 
Set SC02-AC10: special wrench ^{2.)} incl. service manual	293488 

1.) Cable diameter

2.) Not included in the scope of delivery of the valve