bürkert
FLUID CONTROL SYSTEMS









Direct-acting 2/2 or 3/2-way pivoted armature valve

- Direct-acting, media-separated valve up to DN 4
- Pilot valve with Bürkert-specific flange variant (SFB)
- Maintenance-free pivoted armature technology
- Service-friendly, robust manual override
- Explosion-proof variants

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

Can be combined with



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



Type 1087
Timer,
form A according to
DIN EN 175301-803



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

Type description

The 0331 valve is a direct-acting, media-separated pivoted armature valve. It is available as a 2/2 and 3/2-way variant. As a 3/2-way variant, it can be used as a distributor or mixing valve. Various diaphragm materials and circuit functions are available depending on the actual application. Brass, stainless steel, PEEK and polypropylene bodies are offered. The solenoid coils are moulded with a chemically resistant epoxy. Since the coil system is separated from the medium by a diaphragm, the valve is especially suitable for critical media such as aggressive acids and lyes. The 0331 is equipped with manual override for start-up and testing. To reduce energy demands, all the coils can be delivered with electronic power reduction or as an impulse variant. The switching status can be indicated via position feedback as a binary or NAMUR signal.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 9.
Material	
Seal	EPDM FKM FFKM NBR
Body	Brass Stainless steel (1.4401) PP (Polypropylene) PEEK PVDF (on request)
Material resistance	Further information can be found in chapter "4.1. Bürkert resistApp" on page 8.
Weight	
Standard variant	Metal body: 0.47 kg Plastic body: 0.40 kg
Explosion-proof variant	Metal body: 0.75 kg Plastic body: 0.60 kg
Orifice	DN 2...DN 4
Circuit function	A, B, C, D, E, F and T Further information can be found in chapter "2. Circuit functions" on page 6.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	
With brass and stainless steel	100 % continuous operation
With PP and PVDF	40 % duty cycle (60 % intermittent operation) in 30 min for 8 W variant 100 % continuous operation for 5 W variant
With PEEK	60 % duty cycle (40 % intermittent operation) in 30 min for 8 W variant
With block mounting	Use reduced duty cycle or 5 W coil
Switching frequency (explosion-proof variant)	Medium temperature up to + 70 °C: max. 20/min Medium temperature up to + 90 °C: max. 5/min
Switching time[1.] standard variant	
Frequency AC	Opening: 8...15 ms Closing: 8...15 ms
Frequency DC	Opening: 10...20 ms Closing: 10...20 ms
Switching time[1.] explosion-proof variant	
Orifices DN 2... DN 4	Opening: 30 ms Closing: 40 ms
Electrical data	
Power consumption standard	
Frequency AC	Inrush: 30 VA Hold: 15 VA Hold: 8 W
Frequency DC	Cold: 11 W Warm: 8 W
Power consumption Impulse (inrush winding)	
Frequency AC	Hold: 20 VA Hold: 11 W
Frequency DC	Cold: 11 W Warm: 8 W
Power consumption explosion-proof variant	
Frequency AC/DC	Inrush: 40 W Hold: 3 W

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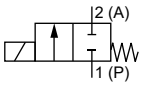
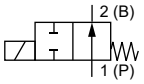
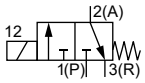
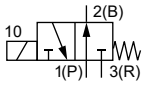
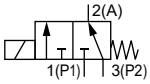
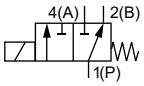
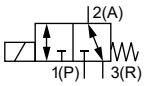
Voltage	
Standard variant	24 V 50 Hz, 110 V 50 Hz, 230 V 50 Hz, 120 V 60 Hz, 240 V 60 Hz, 12 V DC, 24 V DC (further voltages on request)
Explosion-proof variant	24 V, 230 V (further voltages on request)
Voltage tolerance	± 10 %
Medium data	
Operating medium	
With NBR	Neutral mediums such as compressed air, town gas, water, hydraulic oil, oils and greases without additives, oxygen
With EPDM	Alkalis, acids to medium concentrations, alkaline washing and bleaching lyes
With FKM	Oxidizing acids and substances, hot oils with additives, salt solutions, waste gases, oxygen
With FFKM	Aggressive mediums, hot air, hot oils
All Materials	Further information can be found in chapter "4.1. Bürkert resistApp" on page 8
Medium temperature	
With body material brass, stainless steel or PEEK	NBR: 0 °C...+ 80 °C EPDM: - 30 °C...+ 90 °C FKM: 0 °C...+ 90 °C FFKM: + 5 °C...+ 90 °C
With body material PP	NBR: 0 °C...+ 80 °C EPDM: - 30 °C...+ 80 °C FKM: 0 °C...+ 80 °C FFKM: + 5 °C...+ 80 °C
Viscosity	Max. 37 mm²/s
Product connections	
Electrical connection	
Standard variant	• 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 21. • Plug contacts according to DIN EN 175 301 - 803 form A for cable plug **Type 2509** ▸ (Also available with moulded cable on request.) Further information can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301 - 803" on page 21.
Explosion-proof variant	Moulded cable Terminal box without safety fuse (Information about ACP016 see operating manual.)
Port connection	Flange interface according to Bürkert standard (see also chapter "5. Dimensions" on page 9)
Approvals and conformities	
Degree of protection	
Standard variant	IP65 with cable plug
Explosion-proof variant	IP65
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 7.
North America (USA/Canada)	Further information can be found in chapter "3.5. North America (USA/Canada)" on page 7.
Drinking water	Further information can be found in chapter "3.6. Drinking water" on page 7.
Others	Further information can be found in chapter "3.7. Others" on page 8.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	
Standard variant	Max. + 55 °C
Explosion-proof variant	Max. + 55 °C

1.) Measurement at + 20 °C, 6 bar at the valve outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %

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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
	**Circuit function C (CF C)** 3/2-way solenoid valve Direct-acting Normally closed
	**Circuit function D (CF D)** 3/2-way solenoid valve Direct-acting Normally open
	**Circuit function E (CF E)** 3/2-way mixing valve (solenoid valve)
	**Circuit function F (CF F)** 3/2-way distribution valve (solenoid valve) Direct-acting
	**Circuit function T (CF T)** 3/2-way solenoid valve Direct-acting Flow direction optional Normally closed

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 variants 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.

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3.4. Explosion protection

Approval	Description
	Optional: Explosion protection according to category 2 (zone 1/21) Ex marking of the components according to the following table:

Coil Type ACP016	
Coils with cable outlet	**Coils with terminal box**
ATEX: EPS 16 ATEX 1 111 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db **IECEx:** IECEx EPS 16.0049X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db	**ATEX:** EPS 16 ATEX 1 111 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db **IECEx:** IECEx EPS 16.0049X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db

3.5. North America (USA/Canada)

Approval	Description
c UL us LISTED SOLENOID FOR USE IN HAZARDOUS LOCATIONS E504714	**Optional (valid for coils): UL Hazardous Locations – Explosion Protection** 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 (valid for valves): UL Recognized for the USA The valves are UL Recognized for the USA according to: • UL 429 (electrically operated valves) and UL 429A (Electrically Operated Valves for Fire Protection Service)
	Optional (valid for valves): CSA for Canada The valves are CSA approved for Canada according to: • CSA 139 (electrically operated valves)
FM C US APPROVED	**Optional (valid for coils): FM (Factory Mutual) – Explosion Protection** 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
H_2O	**Suitable for use in drinking water applications** The materials comply with the assessment principles (UBA) for materials in contact with drinking water (Trinkwasserverordnung). PF39: Suitable for products with a maximum temperature of + 85 °C (hot water) PF36: Suitable for products with a maximum temperature of + 60 °C (warm water) PF40: Suitable for products with a maximum temperature of + 23 °C (cold water)

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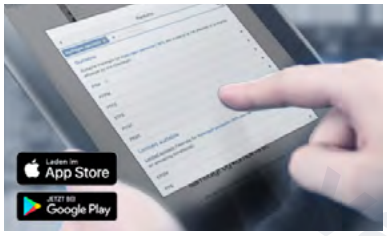
3.7. Others

DNV GL classification

Approval	Description
TYPE APPROVED PRODUCT DNV DNV.COM/AF	**DNV GL classification – Ships, offshore units, and high speed and light craft** The products are accepted for installation on all vessels classed by DNV GL.

4. Materials

4.1. Bürkert resistApp

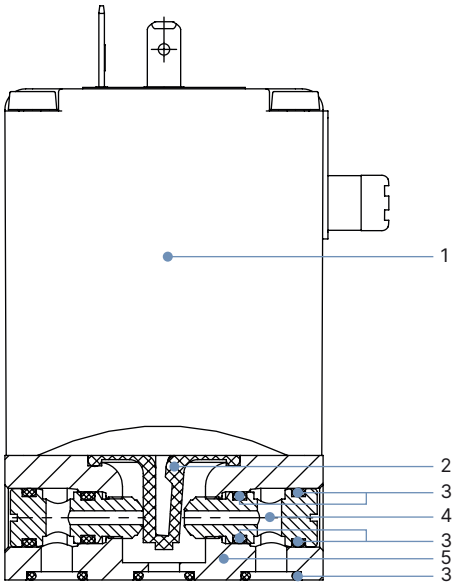


Bürkert resistApp – Chemical resistance chart

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



No.	Element	Material
1	Coil	Epoxy
2	Diaphragm	EDPM, FKM, FFKM, NBR
3	O-ring	EDPM, FKM, FFKM, NBR
4	Seat	Brass Stainless steel (1.4401) PP (Polypropylene) PEEK
5	Valve body	Brass Stainless steel (1.4401) PP (Polypropylene) PEEK

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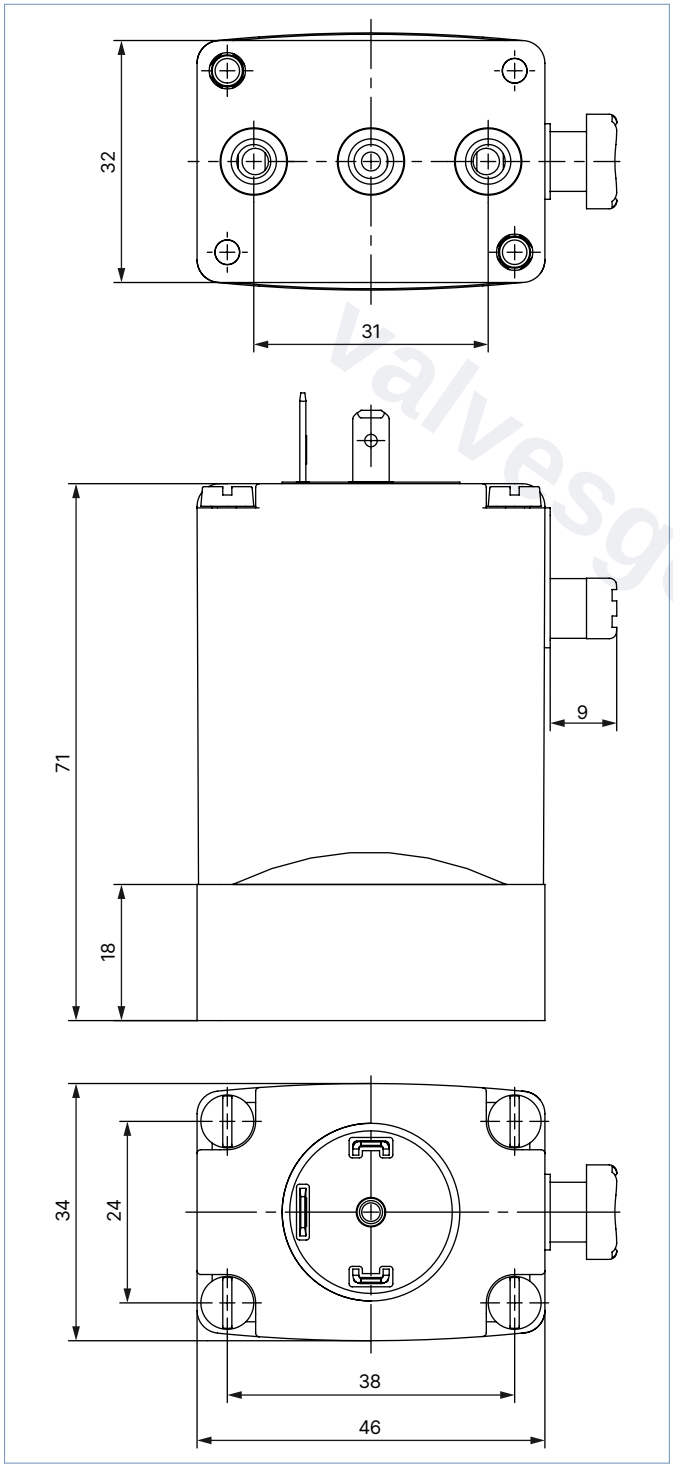
5. Dimensions

5.1. Standard variant

Metal body

Note:

- Dimensions in mm
- The dimensions of the cable plug Type 2518 can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 21.
- The dimensions of the cable plug Type 2509 can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301-803" on page 21.



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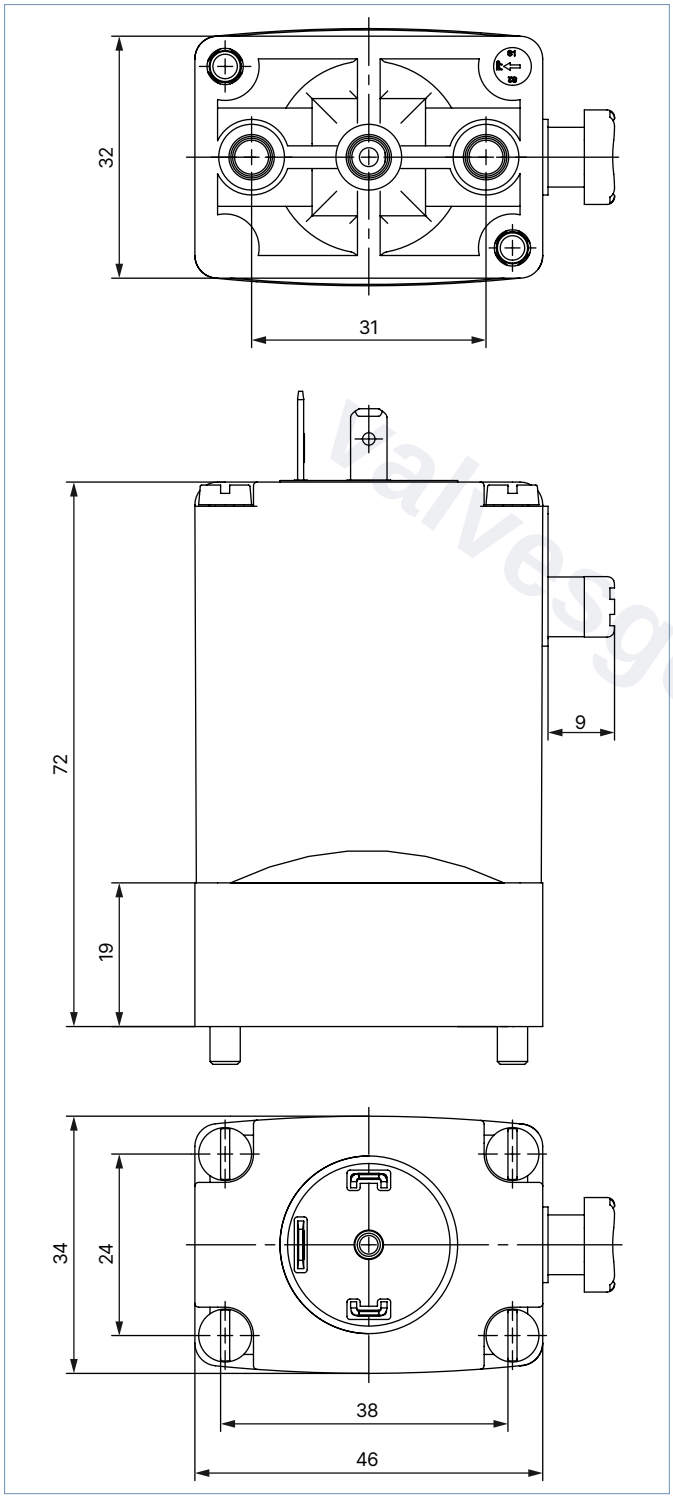
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Plastic body

Note:

- Dimensions in mm
- The dimensions of the cable plug Type 2518 can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 21.
- The dimensions of the cable plug Type 2509 can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301-803" on page 21.



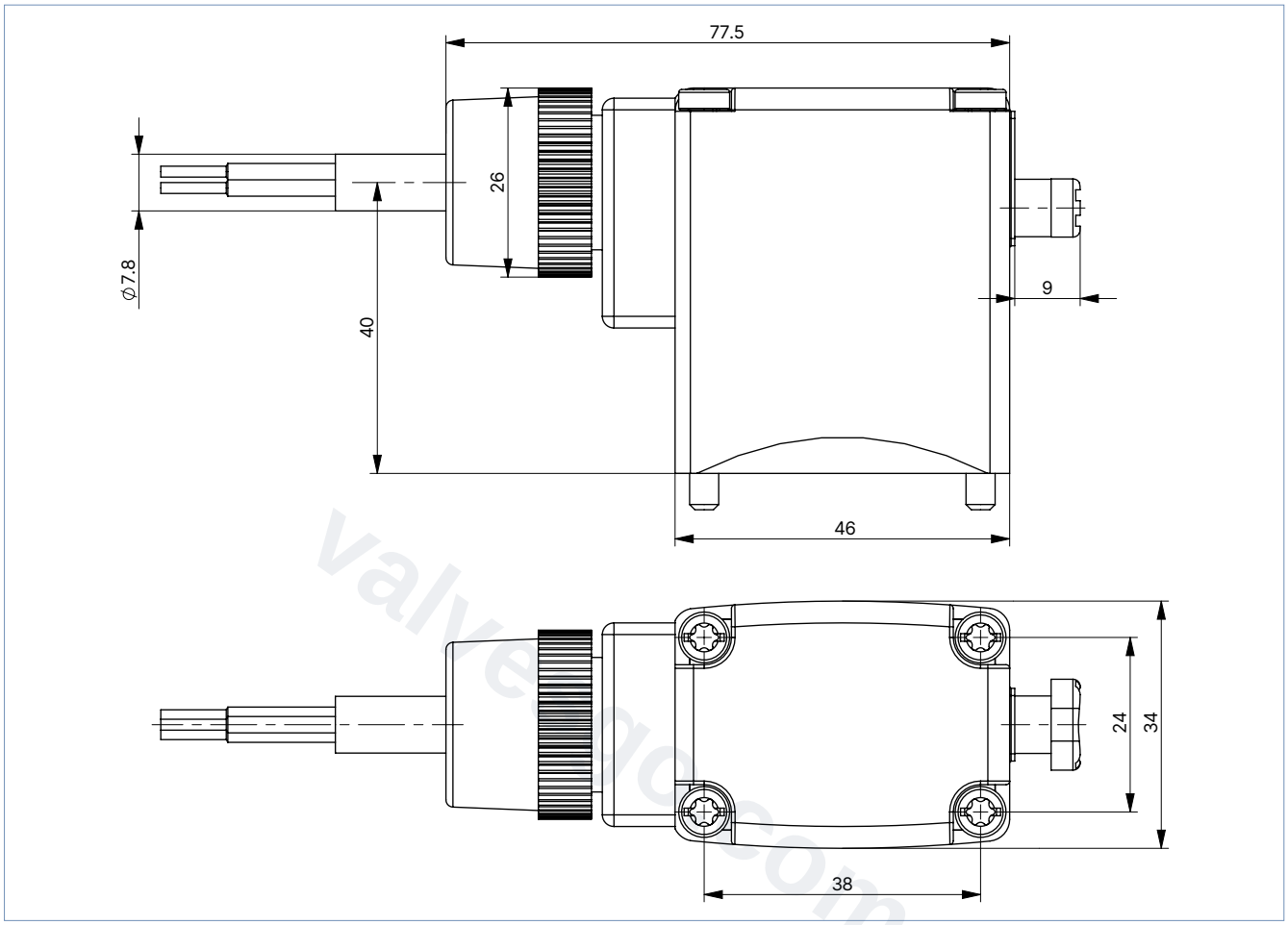
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Cable variant

Note:
Dimensions in mm



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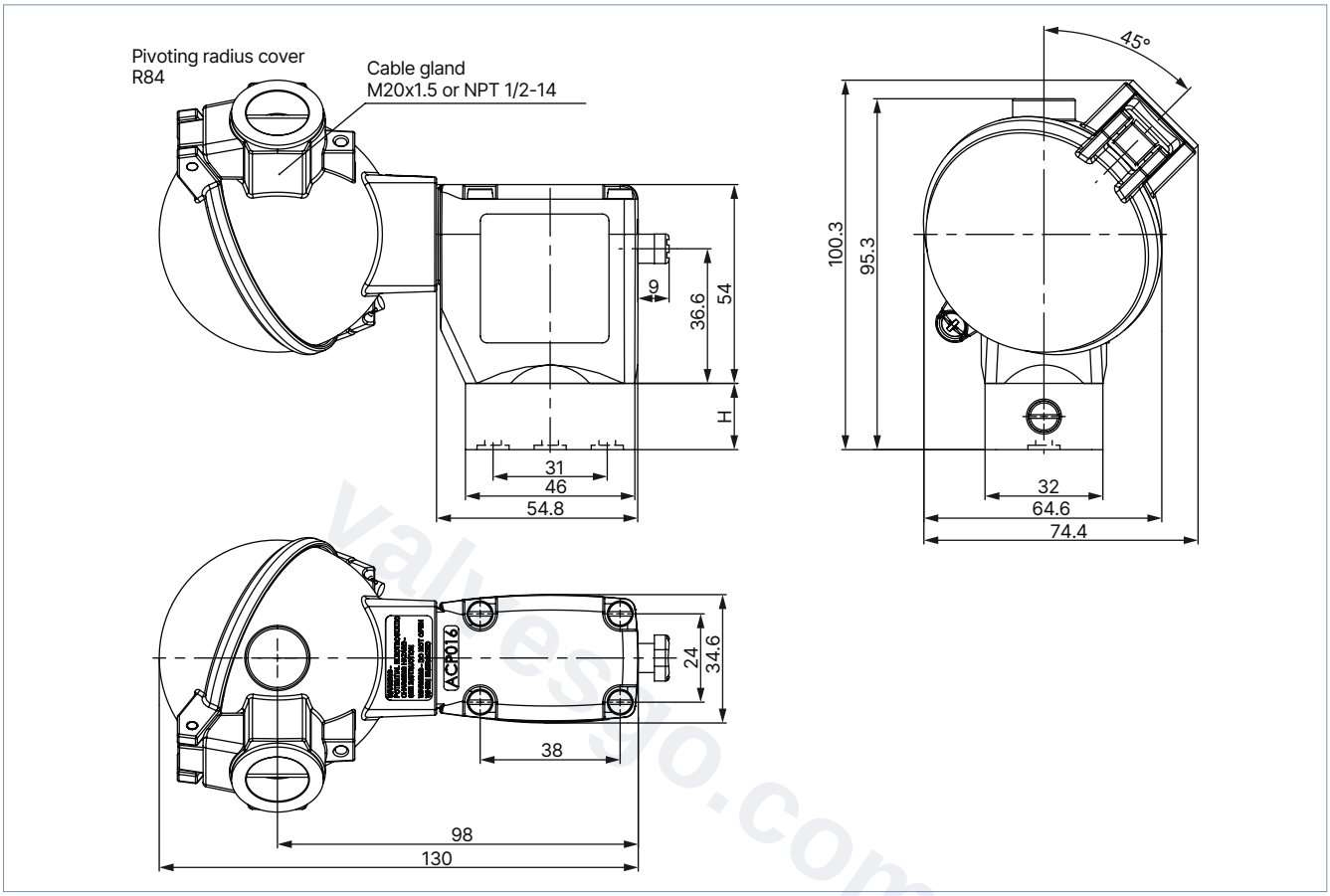
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5.2. Explosion-proof variant

Terminal box variant

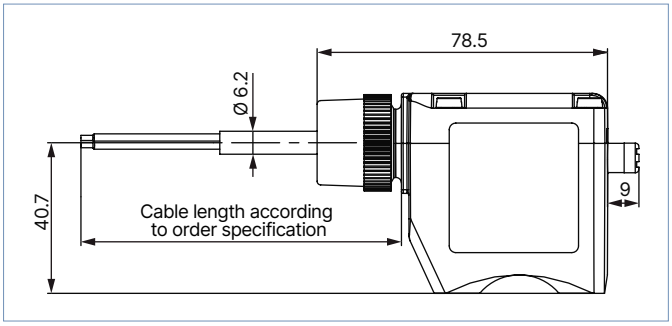
Note:
Dimensions in mm



Body material	H
Brass/Stainless steel	18
PP/PD	19

Cable variant

Note:
Dimensions in mm



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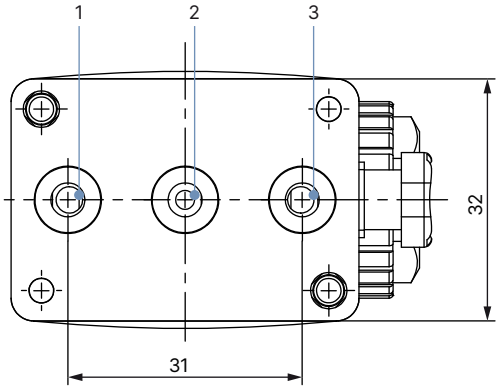
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6. Product connections

6.1. Port connection

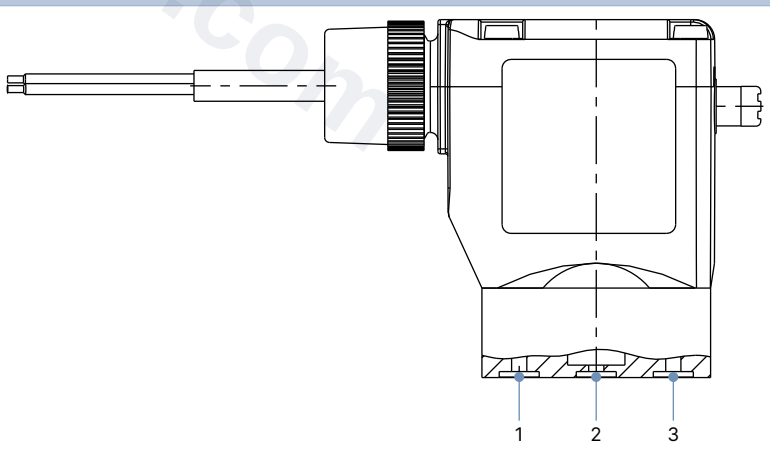
Pin assignment standard variant

Note:
The pin assignment (marked No. 1, 2 and 3 in the drawing) depends on the circuit function. In the table, compare the respective pin assignment with the corresponding circuit function.

Circuit function	Connection 1	Connection 2	Connection 3	3-way
A	P	A	–	
B	–	B	P	
C	P	A	R	
D	R	B	P	
E	P1	A	P2	
F	A	P	B	
T	NC	I_N/OUT	NO	

Pin assignment explosion-proof variant

Note:
The pin assignment (marked No. 1, 2 and 3 in the drawing) depends on the circuit function. In the table, compare the respective pin assignment with the corresponding circuit function.

Circuit function	Connection 1	Connection 2	Connection 3	3-way
A	P	A	–	
B	–	B	P	
C	P	A	R	
D	R	B	P	
E	P1	A	P2	
F	A	P	B	
T	NC	I_N/OUT	NO	

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7. Performance specifications

7.1. Pressure range and flow rate

Standard variant

Note:
Refer to "Use in other circuit function" on page 15 for more information about use in other circuit function.

Circuit function	DN	K_V value water [1.]		Pressure range [2.]		
		DC	AC (50 or 60 Hz)	Standard [3.]	Vacuum [4.]	Impulse [5.]
		[m³/h]	[m³/h]	[bar]	[bar]	[bar]
Brass, stainless steel or PEEK body						
A / B / C / D / F	2	0.08	0.10	0...16 [6.]	- 0.98...10	0...16 [6.]
	3	0.12	0.15	0...10	- 0.98...6	0...10
	4	0.15	0.18	0...5	- 0.98...3	0...5
E	2	0.08	0.10	0...10	- 0.98...8	0...10
	3	0.12	0.15	0...6	- 0.98...5	0...6
	4	0.15	0.18	0...3	- 0.98...2.5	0...3
T	2	0.08	0.10	0...12	- 0.98...8	–
	3	0.12	0.15	0...8	- 0.98...5	–
	4	0.15	0.18	0...4	- 0.98...3	–

Circuit function	DN	K_V value water [7.]	Pressure range [2.]			
			Standard [3.] AC [50 or 60 Hz]	Standard [3.] DC	Vacuum [4.]	Impulse [5.]
		[m³/h]	[bar]	[bar]	[bar]	[bar]
PP and PVDF body						
A / B / C / D / F	2	0.1	0...16 [6.]	0...12	- 0.98...10	0...12
	3	0.15	0...10	0...8	- 0.98...6	0...8
	4	0.18	0...5	0...4	- 0.98...3	0...4
E / T	2	0.1	0...10	0...7	- 0.98...7	0...7
	3	0.15	0...6	0...4	- 0.98...5	0...4
	4	0.18	0...3	0...2.5	- 0.98...2.5	0...2

1.) For frequency 56, the K_V values of the DC variant apply
2.) Pressure data: overpressure to atmospheric pressure (deviating pressure range for 5 W variant)
3.) Heat output 8 W
4.) Vacuum possible for all seal materials
5.) Starting power 11 W
6.) The maximum medium pressure is 12 bar for seal material FKM and FFKM.
7.) The K_V value at DC frequency is reduced by up to 10 % to guarantee the function.

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Explosion-proof variant

Note:
Refer to "Use in other circuit function" on page 15 for more information about use in other circuit function.

Circuit function	DN	K_V value water	Pressure range [1.) 2.)]	
			Standard	Vacuum
		[m³/h]	[bar]	[bar]
Brass, stainless steel or PEEK body				
A / B / C / D / F	2.0	0.10	0...16	-0.98...10
	3.0	0.15	0...10	-0.98...6
	4.0	0.18	0...5	-0.98...3
E	2.0	0.10	0...10	-0.98...8
	3.0	0.15	0...6	-0.98...5
	4.0	0.18	0...3	-0.98...2.5
T	2.0	0.10	0...10	-0.98...8
	3.0	0.15	0...8	-0.98...5
	4.0	0.18	0...4	-0.98...3

1.) Devices with FKM and/or FFKM diaphragms are reduced to a maximum pressure of 12 bar.
2.) Pressure data: overpressure to atmospheric pressure

Circuit function	DN	K_V value water	Pressure range [1.) 2.)]	
			Standard	Vacuum
		[m³/h]	[bar]	[bar]
PP and PVDF body				
A / B / C / D / F	2.0	0.10	0...16	-0.98...10
	3.0	0.15	0...10	-0.98...6
	4.0	0.18	0...5	-0.98...3
E / T	2.0	0.10	0...10	-0.98...8
	3.0	0.15	0...6	-0.98...5
	4.0	0.18	0...3	-0.98...2.5

1.) Devices with FKM and/or FFKM diaphragms are reduced to a maximum pressure of 12 bar.
2.) Pressure data: overpressure to atmospheric pressure

Use in other circuit function

The compression springs installed in the valves differ depending on the circuit function. When used in other circuit functions, the permissible operating pressure changes according to the following table.

Note:
The following table applies to both the standard variant and the explosion-proof variant.

Circuit function	Max. operating pressure [bar] when using the valve in a new circuit function																	
	Orifice DN 2						Orifice DN 3						Orifice DN 4					
	A [1.)]	B [1.)]	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
Metal body (8 W respectively 11 W)																		
C	16	1.5	16	1.5	1.5	16	10	1	10	1	1	10	5	0.8	5	0.8	0.8	5
D	4	16	4.5	16	4	4	2.5	10	2.5	10	2	3	2	5	2	5	2	2
T	8	8	10	10	10	8	6	6	6	6	6	6	3	3	3	3	3	3
Plastic body (8 W respectively 11 W)																		
C	16	1.5	16	1.5	1.5	16	10	1	10	1	1	10	5	0.8	5	0.8	0.8	5
D	4	16	4.5	16	4	4	2.5	10	2.5	10	2	3	2	5	2	5	2	2
F	16	1.5	10	1.5	1.5	16	6	1	6	1	1	10	4	1	4	1	1	

1.) For circuit function A and B, the valve must be connected according to the pin assignment of 3/2-way valve.

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8. Product accessories

8.1. Accessory standard variant

Option	Variable code	Description
Impulse variant	CF02	Bistable magnetic system with inrush and drop-off coil; continuous operation or operation with short current pulses (min. 150 ms) possible
Oxygen variants	NL02	Suitable for applications with oxygen (non-metal materials that are in contact with the medium, are tested and approved according to BAM)
Increased purity requirements, e.g. oil-free, grease-free and silicone-free	NL50/ NL05	Wetted parts are specially cleaned and packaged in accordance with the valves
Increased tightness requirements	PCxx	Standard devices are tested at 10^{-2} mbar x l/s; up to 10^{-6} mbar is possible
Electrical feedback	LF02/ LF03	See **Type 1060** ▶. Function as opener, closer or toggle switch depending on the connection (no IP65 achievable)
High-performance electronics	CZ05	Inrush power 60 W, nominal holding current 3 W; with plastic variants 100 % duty cycle is now feasible
Vacuum variant	NA02	Suitable for vacuums up to - 0.98 bar
Increased purity and tightness requirements	NA03	Wetted parts are specially cleaned and leak tested to 10^{-4} mbar x l/sec
Increased purity and tightness requirements and vacuum variant	NA01	Wetted parts are specially cleaned and leak tested up to 10^{-4} mbar x l/sec and suited for vacuum up to - 0.98 bar
Coil with reduced power (5 W)	–	The devices have a lower pressure range; 100% duty cycle is possible with plastic variants
Cable plug	JHxx/ JGxx/ JFxx	A cable plug is part of the delivery. Cable plug variants (according to DIN EN 175301 - 803 form A), see separate data sheet **Type 2518** ▶ and **Type 2509** ▶
Manifold with banjo bolt	LG09	Due to the banjo bolt a direct attachment is possible (for example, to externally controlled pneumatic drives)
Approvals	PD01	CSA General Purpose valve
	PD02	UR (UL Recognized)/CSA approval
	PD07	DNV-GL (formerly Germanischer Lloyd)
	PR05	cFMus approved coil Class I, Division 1, Groups A, B, C and D - T4 Class II, Division 1, Groups E, F and G - T4 Class III, Division 1 - T4 Class I, Zone 1, AEx mb IIC T4 Gb, Zone 21 AEx mb IIIC T130 °C Db Ex mb IIC T4 Gb; Ex mb IIIC T130 °C Db
	PE95	UL (UL Listed) approval
	PU15	UL Listed for Hazardous Locations for USA and Canada, Class I, Zone 1, AEx eb mb IIC T4; Zone 21, AEx mb tb IIIC T130 °C / Class I, Div 2, Group A,B,C,D; Class II+III, Div 2, Group F,G
	PX41	EPS 16 ATEX 1111 X/IECEx EPS 16.0049X, 2G T4 IIC/2D T130 °C IIIC, Tamb - 40 °C...+ 60 °C, single and block mounting
Possible conformities (depending on the assembly)	–	EAC, drinking water, FDA

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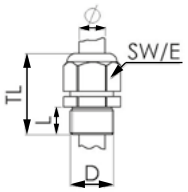
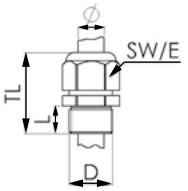
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8.2. Accessory explosion-proof variant

Option	Variable code	Description
Oxygen variants	NL02	Suitable for applications with oxygen (non-metal materials that are in contact with the medium, are tested and approved according to BAM)
Increased purity requirements, e.g. oil-free, grease-free and silicone-free	NL50/ NL05	Wetted parts are specially cleaned and packaged in accordance with the valves
Increased tightness requirements	PCxx	Standard devices are tested at 10^{-2} mbar x l/s; up to 10^{-6} mbar is possible
Vacuum variant	NA02	Suitable for vacuums up to - 0.98 bar
Increased purity and hermetic requirements	NA03	Wetted parts are specially cleaned and leak tested to 10^{-4} mbar x l/sec
Increased purity and hermetic requirements and vacuum variant	NA01	Wetted parts are specially cleaned and leak tested up to 10^{-4} mbar x l/sec and suited for vacuum up to - 0.98 bar
Electrical feedback	CF15	Coil with intrinsically safe proximity switches (PTB 00 ATEX 2048X) instead of manual override
Manifold with banjo bolt	LG09	Due to the banjo bolt a direct attachment is possible (for example, to externally controlled pneumatic drives)
Possible conformities (depending on the assembly)	–	EAC, drinking water, FDA

8.3. Cable glands for ATEX/IECEx terminal box

Note:
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge, see "Cable glands for ATEX/IECEx terminal box" on page 21.

Description	Ex approvals		Dimensions	
	Certification	Identification		
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		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		TL 36...45 mm L 10 mm D 20 mm SW 24 mm E 28 mm

8.4. Special tool to turn the terminal box

Note:
This special tool is not included in the scope of delivery of the valve, see "Cable glands for ATEX/IECEx terminal box" on page 21.

Description	Components of the set
Set SC02-AC10 	• Special tool • Service manual

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9. Ordering information

9.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

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9.2. Bürkert product filter

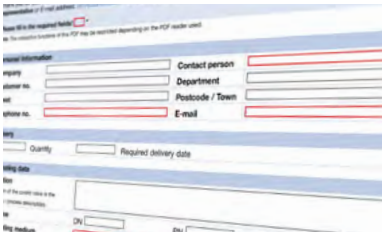


Bürkert product filter – Get quickly to the right product

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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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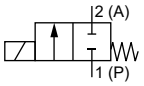
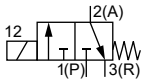
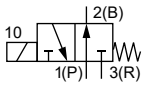
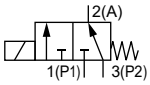
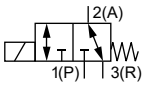
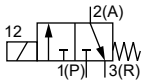
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9.4. Ordering chart

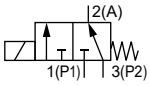
Standard variant

Note:
Products with reduced delivery time

Circuit function	Orifice	Body and seat material	Seal material	Article no.			
				024/DC	024/50	110/50	230/50
	[mm]			[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
With manual override and cable plug Type 2518							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	4.0	Polypropylene	FKM	088352	–	–	020278
CF C 3/2-way solenoid valve Direct-acting Normally closed 	2.0	Brass	NBR	041183	041184	044989	041188
	2.0	Stainless steel	FKM	048354	–	–	–
	3.0	Brass	NBR	041195	041198	041203	041209
	3.0	Stainless steel	FKM	045796	–	–	–
CF D 3/2-way solenoid valve Direct-acting Normally open 	2.0	Brass	NBR	041234	041235	041798	041242
	3.0	Brass	NBR	041247	041248	041531	041254
CF E 3/2-way mixing valve (solenoid valve) 	2.0	Brass	NBR	042061	042799	040064	041265
	3.0	Brass	NBR	042980	043104	046843	041270
	3.0	Polypropylene	EPDM	021892	–	–	–
CF T 3/2-way solenoid valve Direct-acting Flow direction optional Normally closed 	2.0	Brass	FKM	124953	124954	124955	124956
	3.0	Brass	FKM	124958	124959	124960	124961
With manual override and cable plug Type 2518 and manifold (banjo variant)							
CF C 3/2-way solenoid valve Direct-acting Normally closed 	2.0	Brass	NBR	041191	–	–	041192
	3.0	Brass	NBR	041217	041219	041223	041228
	3.0	Brass	FKM	041231	–	–	041233

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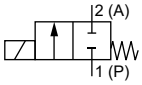
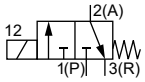
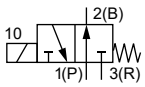
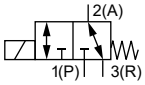
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Circuit function	Orifice	Body and seat material	Seal material	Article no.			
				024/DC	024/50	110/50	230/50
	[mm]			[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
CF E 3/2-way mixing valve (solenoid valve) 	2.0	Brass	NBR	123092	–	–	043913

– = not available

Explosion-proof variant

Note:
Other variants are available on request.

Circuit function	Orifice	Body and seat material	Seal material	Electrical connection	Article no.		
					024 / AC/DC	110 / AC/DC	230 bzw. 240 / AC/DC
	[mm]				[V/Hz]	[V/Hz]	[V/Hz]
With manual override							
CF A 2/2-way solenoid valve Direct-acting Normally closed 	3.0	Stainless steel	FKM	Cable	353437	–	–
CF C 3/2-way solenoid valve Direct-acting Normally closed 	2.0	Stainless steel	NBR	Terminal box	–	–	–
	2.0	Stainless steel	FKM	Terminal box	–	–	–
	2.0	Stainless steel	NBR	Cable	353434	–	–
	3.0	Brass	NBR	Cable	353418	–	353414
	3.0	Stainless steel	FKM	Cable	353438	–	–
CF D 3/2-way solenoid valve Direct-acting Normally open 	2.0	Brass	NBR	Terminal box	–	–	–
	2.0	Brass	NBR	Cable	353450	–	353422
	2.0	Stainless steel	NBR	Cable	353431	–	–
	2.0	Stainless steel	NBR	Terminal box	–	353392	–
	3.0	Brass	NBR	Cable	353433	–	–
CF T 3/2-way solenoid valve Direct-acting Flow direction optional Normally closed 	2.0	Stainless steel	FKM	Cable	353430	–	353421
	2.0	Stainless steel	FKM	Terminal box	–	353421	353386
	2.0	Stainless steel	NBR	Cable	353428	–	353429
	2.0	Stainless steel	EPDM	Terminal box	–	–	353389
	2.0	Brass	NBR	Cable	353423	353424	353425
	2.0	Brass	NBR	Terminal box	–	–	–
	2.0	Brass	FKM	Cable	353426	–	353427
	2.0	Brass	FKM	Terminal box	–	353381	353382

– = not available

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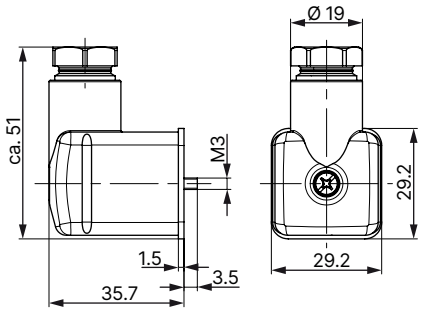
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9.5. Ordering chart accessories

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

Note:

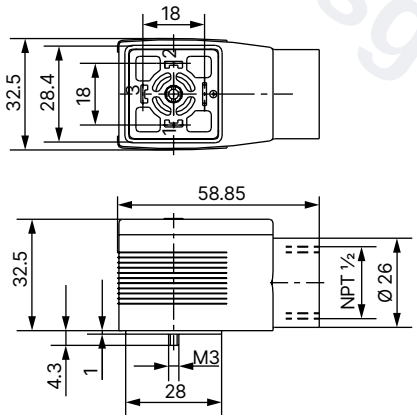
- Dimensions in mm
- For further variants see data sheet **Type 2518** ▶.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (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

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

Note:

- Dimensions in mm
- Without wiring (standard)
- Refer to data sheet **Type 2509** ▶ for more information about the cable plug.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring	0...250 V AC/DC	137943

Cable glands for ATEX/IECEx terminal box

Note:

- A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge.
- Refer to "8.3. Cable glands for ATEX/IECEx terminal box" on page 17 for more information about Ex cable glands.
- Refer to "8.4. Special tool to turn the terminal box" on page 17 for more information about special tool.

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 tool [2.] incl. service manual	293488

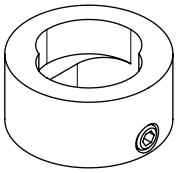
1.) Cable diameter
2.) Not included in the scope of delivery of the valve

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Circlip

Description	Article no.
Circlip to prevent inadvertent manual actuation	013372



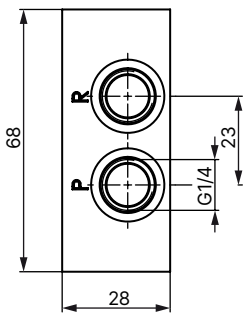
Manifolds for flange valves G ¼

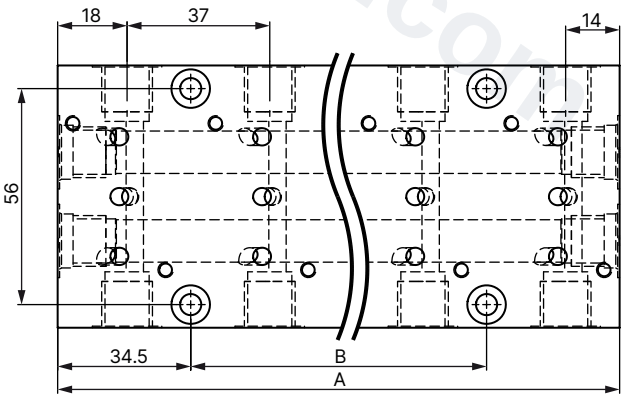
Number of valve slots	Length A	Hole spacing B	Article no.		
	[mm]	[mm]	Anodized Aluminium	Stainless steel	Brass
1	32	–	005043	o. r.	o. r.
2	69	–	005045	o. r.	612071
3	106	37	005366	o. r.	o. r.
4	143	74	005294	658925	006324
5	180	111	005295	o. r.	o. r.
6	217	148	005296	o. r.	006326
7	254	185	005403	o. r.	o. r.
8	291	222	006074	o. r.	–

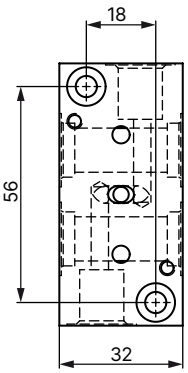
o. r. = on request
– = not available

Note:
Dimensions in mm

Multiple manifold		Single manifold







Accessories for manifolds

Description	Material	Seal material	Article no.
Cover plate (for unoccupied valve slot)	Stainless steel	FKM	265294
Cover plate (for unoccupied valve slot)	Anodized Aluminium	NBR	005625
Nipple (for connecting the collection channel of 2 manifolds)	Coated Steel	FKM	005049
Nipple (for connecting the collection channel of 2 manifolds)	Stainless steel	FKM	007376
Nipple (for connecting 2 manifolds; collection channel is closed)	Coated Steel	NBR	006049

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