



Servo-assisted 2/2-way diaphragm valve

- Servo-assisted diaphragm valve up to DN 65 orifice
- Separating diaphragm for aggressive and contaminated media
- Closing and opening times can be adjusted individually
- Explosion-proof variants (Cat. 2)
- Service-friendly manual override

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 5282 valve is a servo-assisted diaphragm valve. A minimum differential pressure is required for the valve to function. Various diaphragm material combinations and circuit functions are available depending on the application. The standard brass body satisfies all European drinking water requirements. The body offering is completed with stainless steel variants. The 3/2-way pilot valve can be easily converted from NC to NO circuit function by rotating it on the armature. The solenoid coils are moulded with a chemically resistant epoxy. The 5282 is equipped with manual override for start-up and testing. NEMA 4X is available on request.

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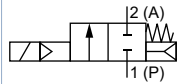
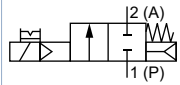
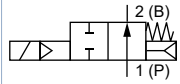
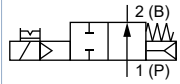
1. General technical data

Product properties	
Dimensions	Further information can be found in chapter “5. Dimensions” on page 7.
Material	
Seal	NBR, EPDM, FKM
Flange body	Stainless steel 1.4581/316CB
Threaded body	Brass according to DIN EN 50930 – 6 DN 13 stainless steel CF3M DN 20...DN 50 stainless steel 1.4581/316CB
Coil	Epoxy
Internal valve parts	Stainless steel, brass
Orifice	DN 13...DN 65
Circuit function	A and B Further information can be found in chapter “2. Circuit functions” on page 4.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	100 % continuous operation
Switching time ^{1.)}	Opening: 0.1...0.8 s Closing: 1.0...4.0 s
Electrical data	
Operating voltage	24 V DC, 24 V 56 Hz, 230 V 56 Hz, 24 V AC/DC, 230 V AC/DC
Power consumption	
Standard variant	Inrush: AC 30 VA Operation: AC 15/8 VA W DC cold/warm: 11/8 W
Explosion-proof variant	Inrush: AC 40 VA Operation: AC 3 VA W DC cold/warm: 40 W inrush / 3 W operation
Voltage tolerance	± 10 %
Medium data	
Operating medium	
With NBR	Neutral gases and liquids (e.g. compressed air, water, hydraulic oil)
With EPDM	Oil-free and grease-free media, alkalis, hot water
With FKM	Hot air, per solutions, hot oils
Medium temperature	
With NBR	0 °C...+ 80 °C
With EPDM	- 25 °C...+ 90 °C
With FKM	0 °C...+ 90 °C
Product connections	
Electrical connection	
Standard variant	- Cable plug Type 2518 ▶, form A according to DIN EN 175301 - 803 Further information can be found in chapter “Cable plug Type 2518, form A according to DIN EN 175301 - 803” on page 18. - Cable plug Type 2509 ▶, form A according to DIN EN 175301 - 803 Further information can be found in chapter “Cable plug Type 2509, form A according to DIN EN 175301 - 803” on page 18.
Explosion-proof variant	Moulded 3 meter cable, 3 × 0.5 mm ² Terminal box
Approvals and conformities	
Directive	CE, EAC
Degree of protection	IP65 with cable plug according to DIN EN 175301 - 803 form A IP65 with cable connection or terminal box
Explosion protection	Further information can be found in chapter “3.4. Explosion protection” on page 5.
North America (USA/Canada)	Further information can be found in chapter “3.5. North America (USA/Canada)” on page 5.
Others	Further information can be found in chapter “3.7. Others” on page 6.

Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	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 %
The switching time can be changed by turning the throttle screws (in the housing lid).

2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid valve Servo-controlled Normally closed
	Circuit function A (CF A) 2/2-way solenoid valve Servo-controlled, with manual override Normally closed
	Circuit function B (CF B) 2/2-way solenoid valve Servo-controlled Normally open
	Circuit function B (CF B) 2/2-way solenoid valve Servo-controlled, with manual override 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 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.

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			
	<table> <tr> <th>Coils with cable outlet</th><th>Coils with terminal box</th></tr> <tr> <td> ATEX: EPS 16 ATEX 1 111 X II 2 G Ex mb IIC T4 Gb II 2 D Ex mb IIIC T130 °C Db IECEx: IECEx EPS 16.0049X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db </td><td> 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 </td></tr> </table>	Coils with cable outlet	Coils with terminal box	ATEX: EPS 16 ATEX 1 111 X II 2 G Ex mb IIC T4 Gb II 2 D Ex mb IIIC T130 °C Db IECEx: IECEx EPS 16.0049X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db
Coils with cable outlet	Coils with terminal box			
ATEX: EPS 16 ATEX 1 111 X II 2 G Ex mb IIC T4 Gb II 2 D 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
	Valid for valves: UL Listed for the USA The valves are UL Listed for the USA according to: UL 429 (electrically operated valves) and UL 429A (Electrically Operated Valves for Fire Protection Service)
	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
	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)
	Valid for valves: CSA for Canada The valves are CSA approved for Canada according to: CSA 139 (electrically operated valves)
	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
	Suitable for use in drinking water applications The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV). 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)

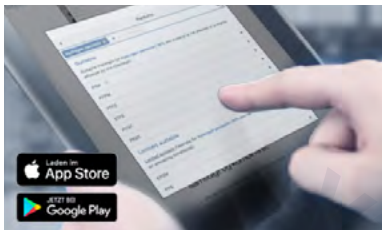
3.7. Others

DNV GL classification

Approval	Description
	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

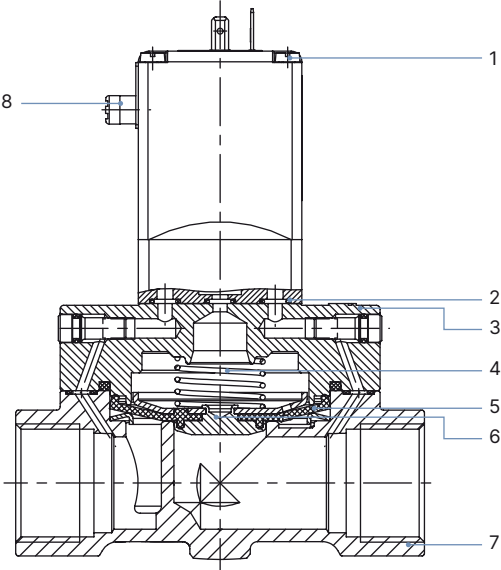


Bürkert resistApp – Chemical resistance chart

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	O-ring	NBR, EPDM, FKM
3	Cover	Brass DN 13 stainless steel 1.4408/316 DN 20...DN 50 stainless steel 1.4581/316CB
4	Spring	Stainless steel 1.4310/302
5	Diaphragm	NBR, EPDM, FKM
6	Diaphragm holder	Brass, stainless steel 1.4401 /316
7	Valve body	Brass DN 13 stainless steel CF3M DN 20...DN 50 stainless steel 1.4581/316CB
8	Manual override	PA

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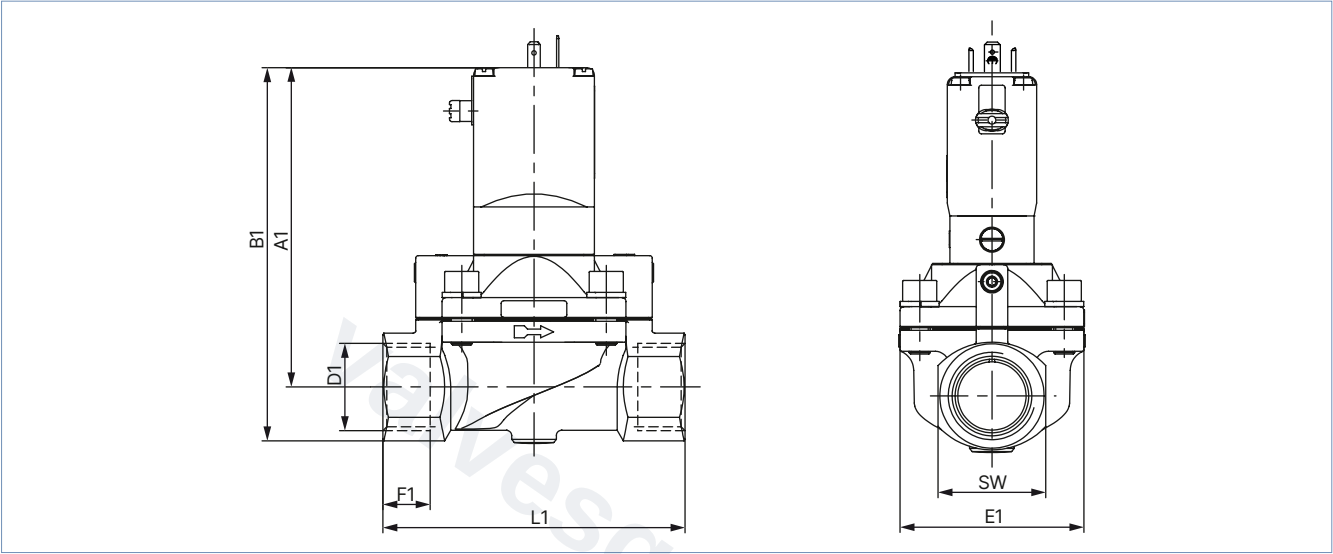
5. Dimensions

5.1. Standard variant

Threaded variant

Note:

- Dimensions in mm
- The dimensions D1 and F1 apply to G thread.
- The dimensions D2 and F2 apply to NPT thread.
- The dimensions D3 and F3 apply to Rc thread.

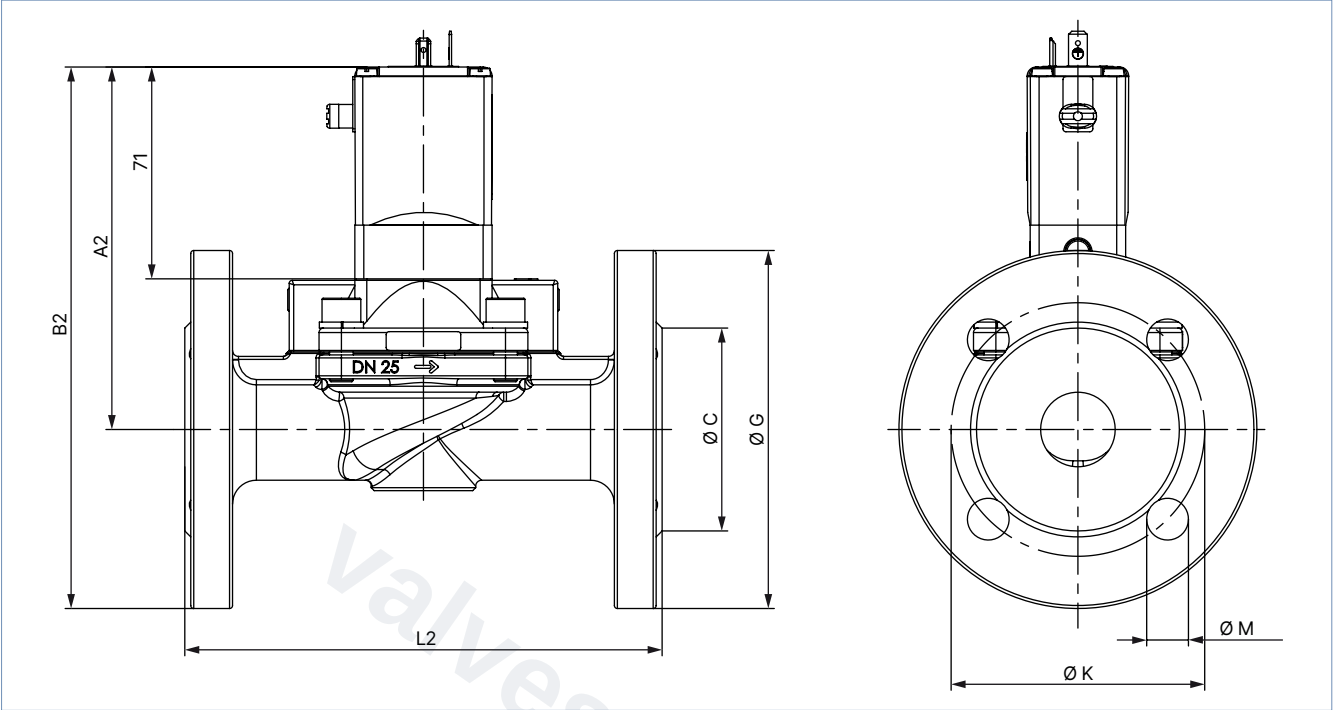


DN	A1	B1	G		NPT		Rc		E1	L1	SW
			D1	F1	D2	F2	D3	F3			
13 ^{1.)}	109.0	123.0	G ½	14	NPT ½	13.7	Rc ½	13.2	40	65	27
13 ^{2.)}	108.0	124.0	G ½	14	NPT ½	13.7	Rc ½	13.2	40	65	27
13 ^{2.)}	110.0	126.0	G ¾	16	NPT ¾	14.0	Rc ¾	14.5	40	65	32
20 ^{2.)}	115.0	131.0	G ½	14	NPT ½	13.7	Rc ½	13.2	60	100	32
20	115.0	131.0	G ¾	16	NPT ¾	14.0	Rc ¾	14.5	60	100	32
25	121.5	142.0	G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41
32	122.0	147.0	G 1¼	20	NPT 1¼	17.3	Rc 1¼	19.1	85	126	50
40	126.0	156.0	G 1½	22	NPT 1½	17.3	Rc 1½	19.1	85	126	60
50	142.5	177.5	G 2	24	NPT 2	17.6	Rc 2	23.4	115	164	70
65	142.5	185.0	G 2½	27	NPT 2½	23.6	–	–	115	180	85

1.) Only threaded brass connection
2.) Only threaded stainless steel connection

Flange variant according to DIN EN 1092 - 1

Note:
Dimensions in mm



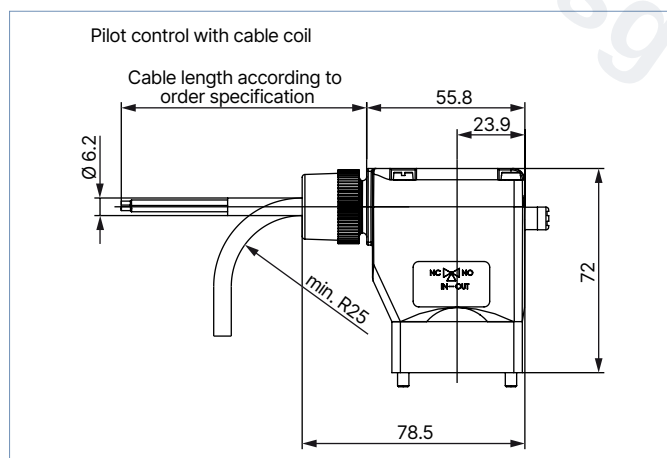
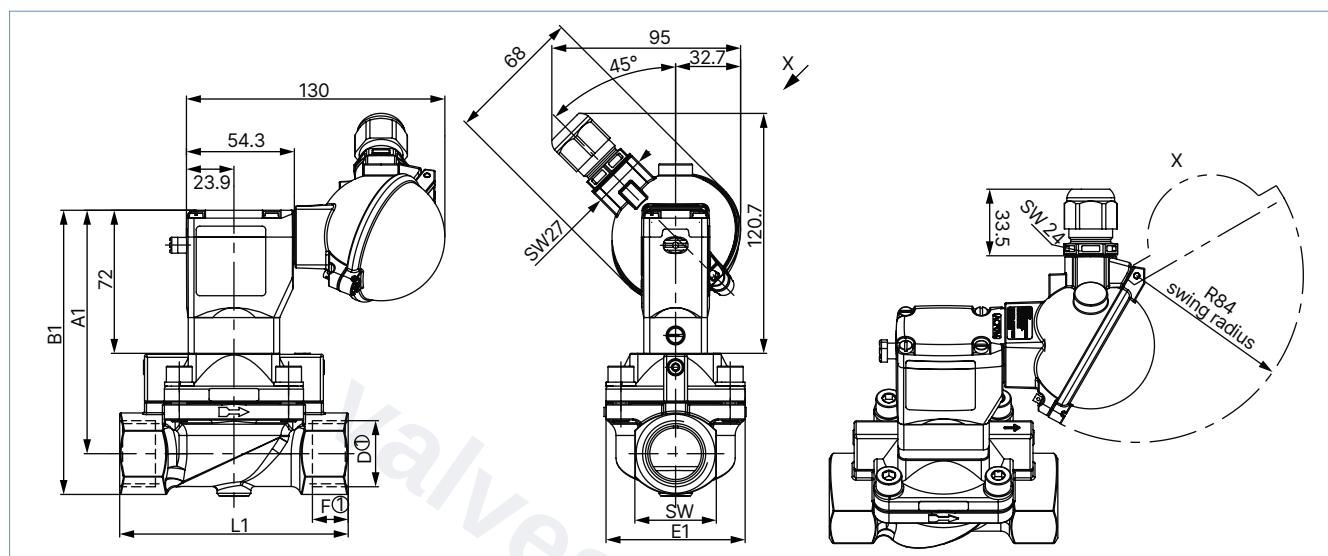
Variant	DN	A2	B2	Ø C	Ø G	L2	Ø M	Ø K
Brass with cast stainless steel body	25	121.5	181.5	68	120	160	14	85
	32	122.0	192.0	78	140	180	18	100
	40	128.0	203.0	88	150	200	18	110
	50	142.8	225.3	102	165	230	18	125
Stainless steel with cast stainless steel body	25	120.5	180.5	68	120	160	14	85
	32	122.0	192.0	78	140	180	18	100
	40	128.0	203.0	88	150	200	18	110
	50	142.8	225.3	102	165	230	18	125

5.2. ATEX/IECEx variant

Threaded variant

Note:

- Dimensions in mm
- The dimensions D1 and F1 apply to G thread.
- The dimensions D2 and F2 apply to NPT thread.
- The dimensions D3 and F3 apply to Rc thread.



DN	A1	B1	G		NPT		Rc		E1	L1	AF
			D1	F1	D2	F2	D3	F3			
13 ^{1.)}	110.0	124.0	G ½	14	NPT ½	13.7	Rc ½	13.2	40	65	27
13 ^{2.)}	109.0	125.0	G ½	14	NPT ½	13.7	Rc ½	13.2	40	65	27
13 ^{2.)}	111.0	127.0	G ¾	16	NPT ¾	14.0	Rc ¾	14.5	40	65	32
20 ^{2.)}	116.0	132.0	G ½	14	NPT ½	13.7	Rc ½	13.2	60	100	32
20	116.0	132.0	G ¾	16	NPT ¾	14.0	Rc ¾	14.5	60	100	32
25	122.5	143.0	G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41
32	123.0	148.0	G 1¼	20	NPT 1¼	17.3	Rc 1¼	19.1	85	126	50
40	127.0	157.0	G 1½	22	NPT 1½	17.3	Rc 1½	19.1	85	126	60
50	143.8	178.8	G 2	24	NPT 2	17.6	Rc 2	23.4	115	164	70
65	143.5	186.0	G 2½	27	NPT 2½	23.6	–	–	115	180	85

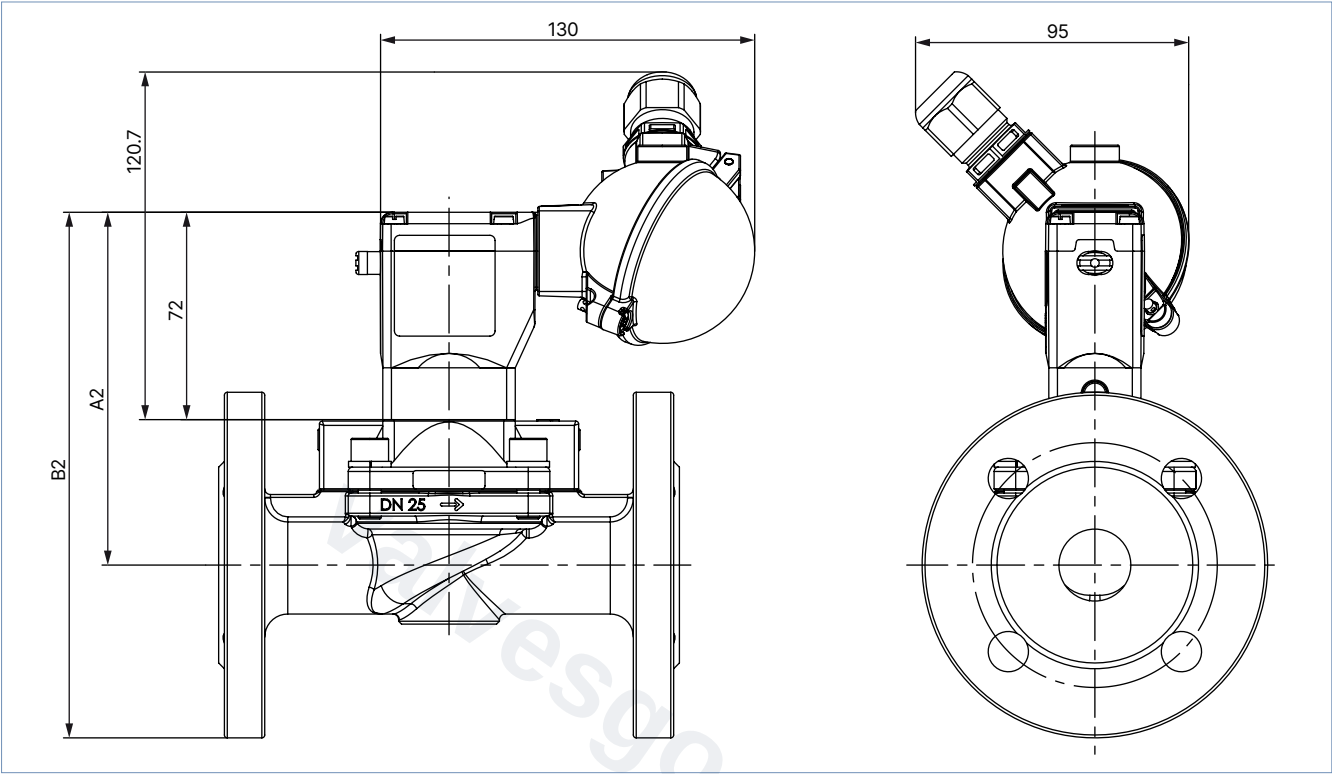
1.) Only threaded brass connection

2.) Only threaded stainless steel connection

Flange variant according to DIN EN 1092 - 1

Note:

- Dimensions in mm
- Refer to **“Threaded variant” on page 9** for more information about coil and terminal box dimensions.



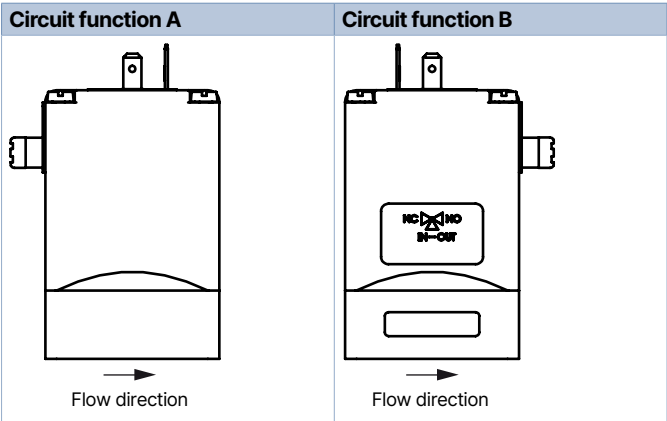
Variant	DN	A2	B2	Ø C	Ø G	L2	Ø M	Ø K
Brass with cast stainless steel body	25	122.5	182.5	68	120	160	14	85
	32	123.0	193.0	78	140	180	18	100
	40	129.0	204.0	88	150	200	18	110
	50	143.8	226.3	102	165	230	18	125
Stainless steel with cast stainless steel body	25	121.5	181.5	68	120	160	14	85
	32	123.0	193.0	78	140	180	18	100
	40	129.0	204.0	88	150	200	18	110
	50	143.8	226.3	102	165	230	18	125

6. Product installation

6.1. Mounting options

Note:

- The delivery condition corresponds to the order key. Turning the pilot valve through 180° changes the circuit function of the valve.
- The circuit function can only be changed for variants up to 10 bar.

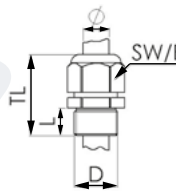
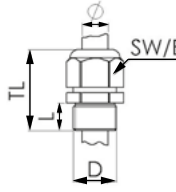


7. Product accessories

7.1. Cable glands for ATEX/IECEx terminal box

Note:

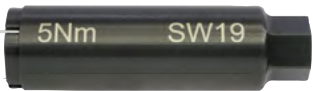
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge, see ["8.5. Ordering chart accessories"](#) on page 18.

Description	Ex approval	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													

7.2. Special tool to turn the terminal box

Note:

This special tool is not included in the scope of delivery of the valve, see "8.5. Ordering chart accessories" on page 18.

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

8. Ordering information

8.1. 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.

[Order online now](#)

8.2. Bürkert product filter

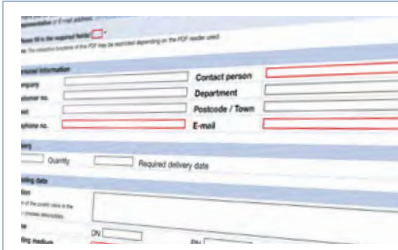


Bürkert product filter – Get quickly to the right product

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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8.3. 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.

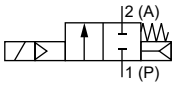
[Fill out the form now](#)

8.4. Ordering chart

Basic variant

Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ►.

Circuit function	Port connection	Orifice	Flow coefficient water ^{1), 2)}	Pressure range ³⁾	Weight	Article no.		
		[mm]				024/DC	024/50...60	230/50...60
			[m ³ /h]	[bar]	[kg]	[V/Hz]	[V/Hz]	[V/Hz]
With threaded connection without manual override, without adjustable opening and closing times, without cable plug								
CF A	Brass body and seal material NBR, pressure range 0.2...16 bar							
2/2-way solenoid valve Servo-controlled Normally closed 	G ½	13.0	4.0	0.2...16	0.95	20068749	o. r.	20068752
	G ¾	20.0	6.5	0.2...16	1.40	20068750	o. r.	20068753
	G 1	25.0	10.0	0.2...16	1.85	20068751	o. r.	20068754
	G 1¼	32.0	20.0	0.2...16	2.60	o. r.	o. r.	o. r.
	G 1½	40.0	20.0	0.2...16	3.05	o. r.	o. r.	o. r.
	G 2	50.0	40.0	0.2...16	5.15	o. r.	o. r.	o. r.
	G 2½	65.0	40.0	0.2...16	5.90	o. r.	o. r.	o. r.
	Stainless steel body and seal material FKM, pressure range 0.2...12 bar							
	G ½	13.0	4.0	0.2...12	0.95	20068755	o. r.	20068758
	G ¾	20.0	6.5	0.2...12	1.40	20068756	o. r.	20068759
	G 1	25.0	10.0	0.2...12	1.85	20068757	o. r.	20068760
	G 1¼	32.0	20.0	0.2...12	2.60	o. r.	o. r.	o. r.
	G 1½	40.0	20.0	0.2...12	3.05	o. r.	o. r.	o. r.
	G 2	50.0	40.0	0.2...12	5.15	o. r.	o. r.	o. r.
	G 2½	65.0	40.0	0.2...12	5.90	o. r.	o. r.	o. r.

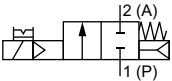
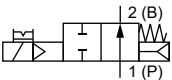
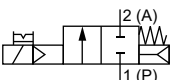
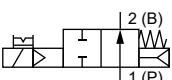
o. r. = on request

- 1.) Measurement at + 20 °C, 1 bar²⁾ at the valve inlet and free outlet
- 2.) A pressure difference of 0.5 bar is required to open the full cross-section.
- 3.) Pressure data: overpressure to atmospheric pressure

Standard variant with brass body

Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ▶.

Circuit function	Port connection	Orifice	Flow coefficient water ^{1,2,)}	Pressure range ^{3,)}	Weight	Article no.			
						024/DC	024/50...60	230/50...60	
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]	[V/Hz]	
With threaded connection and manual override, without cable plug									
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Seal material NBR, pressure range 0.2...10 bar								
	G ½	13.0	4.0	0.2...10	0.95	134430 ☹	134431 ☹	134433 ☹	
	G ¾	20.0	6.5	0.2...10	1.40	134434 ☹	134435 ☹	134437 ☹	
	G 1	25.0	10.0	0.2...10	1.85	134438 ☹	134439 ☹	134441 ☹	
	G 1¼	32.0	20.0	0.2...10	2.60	134442 ☹	134443 ☹	134445 ☹	
	G 1½	40.0	20.0	0.2...10	3.05	134446 ☹	134447 ☹	134449 ☹	
	G 2	50.0	40.0	0.2...10	5.15	134450 ☹	134451 ☹	134453 ☹	
	G 2½	65.0	40.0	0.2...10	5.90	134454 ☹	134455 ☹	134457 ☹	
	CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	Seal material FKM, pressure range 0.2...10 bar							
G ½		13.0	4.0	0.2...10	0.95	134486 ☹	134487 ☹	134489 ☹	
G ¾		20.0	6.5	0.2...10	1.40	134490 ☹	134491 ☹	134493 ☹	
G 1		25.0	10.0	0.2...10	1.85	134494 ☹	134495 ☹	134497 ☹	
G 1¼		32.0	20.0	0.2...10	2.60	134498 ☹	134499 ☹	134501 ☹	
G 1½		40.0	20.0	0.2...10	3.05	134502 ☹	134503 ☹	134505 ☹	
G 2		50.0	40.0	0.2...10	5.15	134506 ☹	134507 ☹	134509 ☹	
G 2½		65.0	40.0	0.2...10	5.90	134510 ☹	134511 ☹	134513 ☹	
		Seal material EPDM, pressure range 0.2...10 bar							
	G ½	13.0	4.0	0.2...10	0.95	134458 ☹	134459 ☹	134461 ☹	
	G ¾	20.0	6.5	0.2...10	1.40	134462 ☹	134463 ☹	134465 ☹	
	G 1	25.0	10.0	0.2...10	1.85	134466 ☹	134467 ☹	134469 ☹	
	G 1¼	32.0	20.0	0.2...10	2.60	134470 ☹	134471 ☹	134473 ☹	
	G 1½	40.0	20.0	0.2...10	3.05	134474 ☹	134475 ☹	134477 ☹	
	G 2	50.0	40.0	0.2...10	5.15	134478 ☹	134479 ☹	134481 ☹	
	G 2½	65.0	40.0	0.2...10	5.90	134482 ☹	134483 ☹	134485 ☹	
	CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Seal material NBR, pressure range 0.2...16 bar							
G ½		13.0	4.0	0.2...16	0.95	187421 ☹	254814 ☹	187422 ☹	
G ¾		20.0	6.5	0.2...16	1.40	187423 ☹	237670 ☹	186719 ☹	
G 1		25.0	10.0	0.2...16	1.85	202683 ☹	246449 ☹	183126 ☹	
G 1¼		32.0	20.0	0.2...16	2.60	202684 ☹	o. r.	202680 ☹	
G 1½		40.0	20.0	0.2...16	3.05	202685 ☹	209365 ☹	202681 ☹	
G 2		50.0	40.0	0.2...16	5.15	202686 ☹	318245 ☹	202682 ☹	
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 		Seal material NBR, pressure range 0.2...16 bar							
		G ½	13.0	4.0	0.2...16	0.95	184959 ☹	250917 ☹	184960 ☹
	G ¾	20.0	6.5	0.2...16	1.40	189506 ☹	o. r.	189342 ☹	
	G 1	25.0	10.0	0.2...16	1.85	183129 ☹	223653 ☹	183132 ☹	
	G 1¼	32.0	20.0	0.2...16	2.60	242280 ☹	o. r.	242277 ☹	
	G 1½	40.0	20.0	0.2...16	3.05	207728 ☹	o. r.	214331 ☹	
	G 2	50.0	40.0	0.2...16	5.15	242281 ☹	o. r.	242278 ☹	

o. r. = on request

1.) Measurement at + 20 °C, 1 bar²⁾ at the valve inlet and free outlet

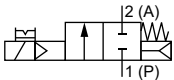
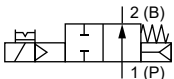
2.) A pressure difference of 0.5 bar is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

Standard variant in brass with stainless steel flange body

Note:

Please note that the cable plug must be ordered separately, see “8.5. Ordering chart accessories” on page 18 or separate data sheet Type 2518 ▶.

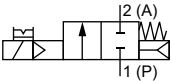
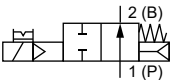
Circuit function	Port connection	Orifice	K _v value water ^{1.)2.)}	Pressure range ^{3.)}	Weight	Article no.	
						024/DC	230/50...60
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]
With flange connection acc. to DIN EN 1092 - 1 and manual override, without cable plug							
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed	Seal material NBR, pressure range 0.2...10 bar						
	Flange	25.0	10.0	0.2...10	5.2	355263 	355266 
	Flange	32.0	20.0	0.2...10	6.7	355269 	o. r.
	Flange	40.0	20.0	0.2...10	7.4	355261 	355265 
	Flange	50.0	40.0	0.2...10	11.5	355264 	355259 
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open							
							

o. r. = on request
1.) Measurement at + 20 °C, 1 bar ^{2.)} at the valve inlet and free outlet
2.) A pressure difference of 0.5 bar is required to open the full cross-section.
3.) Pressure data: overpressure to atmospheric pressure

Standard variant with stainless steel body

Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ▶.

Circuit function	Port connection	Orifice	Flow coefficient water ^{1,2,)}	Pressure range ^{3,)}	Weight	Article no.		
						024/DC	024/50...60	230/50...60
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]	[V/Hz]
With threaded or flange connection and manual override, without cable plug								
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Threaded connection, seal material NBR, pressure range 0.2...10 bar							
	G ½	13.0	4.0	0.2...10	0.91	281976 	281979 	281981 
	G ¾	20.0	6.5	0.2...10	1.40	137142 	137143 	137145 
	G 1	25.0	10.0	0.2...10	1.80	137146 	137147 	137149 
	G 1¼	32.0	20.0	0.2...10	2.25	137150 	137151 	137153 
	G 1½	40.0	20.0	0.2...10	2.70	137154 	137155 	137157 
	G 2	50.0	40.0	0.2...10	4.80	137158 	137159 	137161 
	Threaded connection, seal material FKM, pressure range 0.2...10 bar							
	G ½	13.0	4.0	0.2...10	0.91	220291 	220292 	220294 
	G ¾	20.0	6.5	0.2...10	1.40	134518 	134519 	134521 
	G 1	25.0	10.0	0.2...10	1.80	134522 	134523 	134525 
	G 1¼	32.0	20.0	0.2...10	2.25	134526 	134527 	134529 
	G 1½	40.0	20.0	0.2...10	2.70	134530 	134531 	134533 
	G 2	50.0	40.0	0.2...10	4.80	134534 	134535 	134537 
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	Threaded connection, seal material EPDM, pressure range 0.2...10 bar							
	G ½	13.0	4.0	0.2...10	0.91	220297 	220298 	220300 
	G ¾	20.0	6.5	0.2...10	1.40	145709 	o. r.	141714 
	G 1	25.0	10.0	0.2...10	1.80	141078 	93909807 	146160 
	G 1¼	32.0	20.0	0.2...10	2.25	438559 	o. r.	147803 
	G 1½	40.0	20.0	0.2...10	2.70	141667 	o. r.	139823 
	G 2	50.0	40.0	0.2...10	4.80	141075 	o. r.	146530 
	Flange connection according to DIN EN 1092 - 1, seal material FKM, pressure range 0.2...10 bar							
	Flange	25.0	10.0	0.2...10	5.1	361400 	361401 	361403 
	Flange	32.0	20.0	0.2...10	6.45	361404 	361405 	361406 
	Flange	40.0	20.0	0.2...10	7.2	361407 	361408 	361409 
	Flange	50.0	40.0	0.2...10	11.3	361410 	361411 	361412 
	Flange connection according to DIN EN 1092 - 1, seal material EPDM, pressure range 0.2...10 bar							
	Flange	25.0	10.0	0.2...10	5.1	371943 	o. r.	368163 
	Flange	32.0	20.0	0.2...10	6.45	o. r.	o. r.	367561 
	Flange	40.0	20.0	0.2...10	7.2	o. r.	o. r.	o. r.
	Flange	50.0	40.0	0.2...10	11.3	361414 	o. r.	367562 

o. r. = on request

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

2.) A pressure difference of 0.5 bar is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

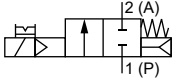
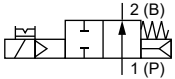
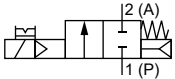
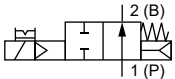
Further variants on request

	Additionally With optical position indicator or electrical position feedback sensor as potential-free contact or Namur signal	 Pressure Pressure range up to 16 bar
	 Approval UL, UR, CSA, Hazardous Locations Expl. proof, Ex, KOSHA, NEPSI, CGA/AGA, FM Ex Div. 1 or 2, drinking water approval acc. to UBA assessment principles (PF36/PF39), impulse variant	 Voltage Further voltages

ATEX/IECEx variant

Note:

- Max. switching frequency 20/min at max. medium temperature + 70 °C and max. ambient temperature + 40 °C
- Max. switching frequency 5/min at max. medium temperature + 90 °C and max. ambient temperature + 55 °C

Circuit function	Port connection	Nominal diameter	Flow coefficient water ^{1),2)}	Pressure range ³⁾	Weight	Article no.	
		[mm]	[m ³ /h]	[bar]	[kg]	024 / AC/DC	230 / AC/DC
						[V/Hz]	[V/Hz]
With manual override and terminal box							
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Brass body with threaded connection, seal material FKM						
	G 1/2	13	4.0	0.5...10	1.1	355080	355093
	G 3/4	20	6.5	0.5...10	1.5	355110	355098
	G 1	25	10.0	0.5...10	2.0	355096	355097
	G 1 1/4	32	20.0	0.5...10	2.7	o. r.	o. r.
	G 1 1/2	40	20.0	0.5...10	3.2	355118	355088
	G 2	50	40.0	0.5...10	5.3	o. r.	o. r.
	Stainless steel body with threaded connection, seal material FKM						
	G 1/2	13	4.0	0.5...10	1.0	355087	355103
	G 1/2	20	5.0	0.5...10	1.5	355081	355085
	G 3/4	20	6.5	0.5...10	1.5	355089	355092
	G 1	25	10.0	0.5...10	1.9	355084	355102
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	G 1 1/4	32	20.0	0.5...10	2.4	o. r.	355107
	G 1 1/2	40	20.0	0.5...10	2.8	370934	355111
	G 2	50	40.0	0.5...10	4.9	o. r.	o. r.
With manual override and cable outlet, cable 3 m							
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Brass body with threaded connection, seal material NBR						
	G 1/2	13	4.0	0.5...10	1.0	349632	349634
	G 3/4	20	6.5	0.5...10	1.5	349647	349648
	G 1	25	10.0	0.5...10	1.9	349627	349637
	G 1 1/4	32	20.0	0.5...10	2.7	349644	349649
	G 1 1/2	40	20.0	0.5...10	3.1	349651	349652
	G 2	50	40.0	0.5...10	5.2	349635	349650
	G 2 1/2	65	40.0	0.5...10	6.0	357536	349653
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 							

o. r. = on request

1.) Measurement at + 20 °C, 1 bar²⁾ at the valve inlet and free outlet

2.) A pressure difference of 0.5 bar is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

Further variants on request

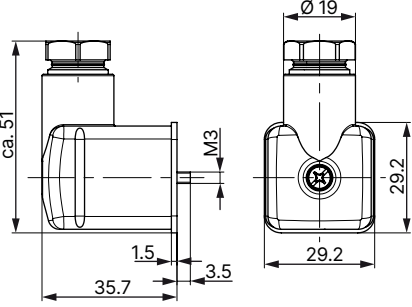
	Material Seal material: NBR, FKM, EPDM		Pressure Pressure range up to 16 bar
	Voltage 110/UC		

8.5. Ordering chart accessories

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

Note:

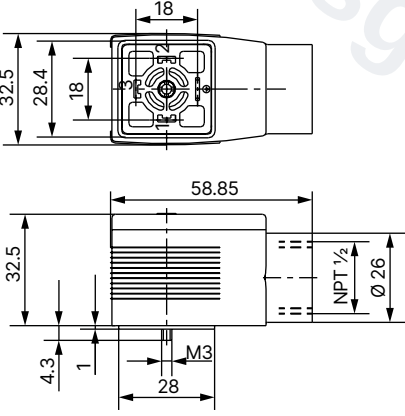
- Dimensions in mm
- For further variants see data sheet **Type 2518** ►

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 
		Without wiring (AC/DC) with silicone seal for higher ambient temperature, e.g. steam variant (NA07)	0...250 V AC/DC	361687 

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 **"7.1. Cable glands for ATEX/IECEx terminal box"** on page 11 for more information about Ex cable glands.
- Refer to **"7.2. Special tool to turn the terminal box"** on page 12 for more information about Ex cable glands.

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