DATA SHEET

Type 6282

Servo-assisted 2/2-way diaphragm valve

- Servo-assisted diaphragm valve up to DN 50
- Suitable for contaminated process media
- Media-isolated pilot control for corrosive media
- Explosion-proof versions in accordance with ATEX, CCC, IEC and NEC
- Approved for use on seagoing vessels

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

Valve 6282 is a servo-assisted diaphragm valve. A minimum differential pressure is required for the valve to function. A variety of diaphragm materials and circuit functions are available to suit different applications. The range of housings includes brass and stainless steel. 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 alkalis. The 0330 is equipped with manual override for start-up and testing.

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1. General technical data

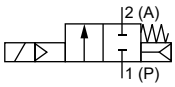
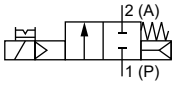
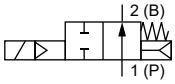
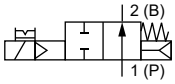
Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 8.
Material	
Seal	NBR, EPDM, FKM
Pilot valve housing	PPS, brass, stainless steel
Body	Brass, stainless steel
Coil	Epoxy
Internal valve parts	PPS, stainless steel, brass
Orifice	DN 13...DN 50
Pressure range	0.2...10 bar [2)], pilot valve body made of PPS (independent of seal material) 0.2...12 bar [2)], pilot valve body made of brass or stainless steel and seal material FKM 0.2...16 bar [2)], pilot valve body made of brass or stainless steel and seal material NBR and EPDM
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 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)]	Opening: 0.1...0.8 s Closing: 1.0...4.0 s
Electrical data	
Operating voltage	24 V DC, 24 V AC 50 Hz, 230 V AC 50 Hz
Power consumption standard variant 8 W coil	
AC	Inrush: 30 VA Hold: 15 VA/8 W
DC	Cold:11 W Warm: 8 W
Power consumption standard variant 5 W coil	
AC	Inrush: 22 VA Hold: 12 VA/5 W
DC	Cold: 6 W Warm: 5 W
Power consumption Impulse (inrush winding)	
AC	Hold: 20 VA Hold: 11 W
DC	Cold: 11 W Warm: 8 W
Power consumption explosion-proof variant	
AC/DC	Inrush: 40 W Hold: 3 W
Voltage tolerance	± 10 %
Medium data	
Operating medium	Neutral and slightly aggressive gaseous and liquid media, in accordance with the media resistance of the body and seal materials, liquids containing dirt particles. Further information can be found in chapter "4.1. Bürkert resistApp" on page 7.
Medium temperature	
With NBR	0 °C...+ 80 °C
With EPDM	- 25 °C...+ 90 °C 0 °C...+ 60 °C (with drinking water approval)
With FKM	0 °C...+ 90 °C
Viscosity	Max. 21 mm^2/s (21 cSt)

Product connections	
Electrical connection	
Standard variant	• Plug contacts according to DIN EN 175301-803 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 19. • Plug contacts according to DIN EN 175301-803 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 19.
Explosion-proof variant	• Moulded 3 meter cable, 3 × 0.5 mm² • Terminal box
Approvals and conformities	
Directive	CE
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.
Drinking water	Further information can be found in chapter "3.6. Drinking water" on page 6.
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 inlet and free outlet, opening: pressure reduction to 90 % of the difference to the flow pressure, closing: pressure build-up to 90 % of the inlet pressure

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

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.

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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

<table>
<tr><th>Approval</th><th>Description</th></tr>
<tr><td></td><td>Optional: Explosion protection according to category 2 (zone 1/21)

Ex marking of the components according to the following table:

<table>
<tr><th colspan="2">Coil Type ACP016</th></tr>
<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:
PTB 15 ATEX 1011 U
II 2G Ex eb mb IIC T4 Gb
II 2D EX mb tb IIIC T130 °C

IECEx:
IECEx PTB 15.0037 U
II eb mb IIC T4 Gb
II mb tb IIIC T130 °C Db</td></tr>
</table></td></tr>
</table>

3.5. North America (USA/Canada)

Approval	Description
	Optional: UL Listed for the USA (valid for valves) (in preparation) The valves are UL Listed for the USA according to: • UL 429 (electrically operated valves)
SOLENOID FOR USE IN HAZARDOUS LOCATIONS E504714	**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) (in preparation) 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: CSA for Canada (valid for valves) (in preparation) The valves are CSA approved for Canada according to: • 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

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3.6. Drinking water

Conformity
Suitable for drinking water (in preparation) The products comply with Article 11 of Directive (EU) 2020/2184 (Drinking Water Directive) and the corresponding implementing acts in the area of materials and products that come into contact with drinking water. PF43: Certified for drinking water according to EU DWD 2020/2184/EU up to + 60 °C warm water **SUITABLE FOR DRINKING WATER**

3.7. Others

DNV classification

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

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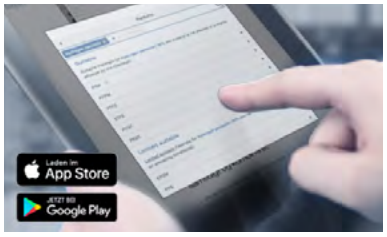
4. Materials

4.1. Bürkert resistApp

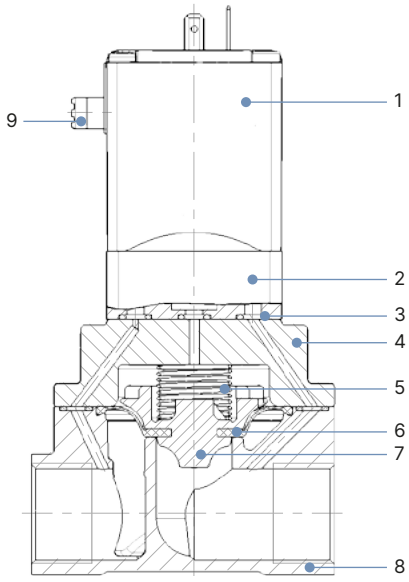


Bürkert resistApp – Chemical resistance chart

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	Pilot valve housing	PPSGF40 Brass Stainless steel 1.4401
3	O-ring	NBR, EPDM, FKM
4	Cover	Brass Stainless steel 1.4408 DN 50: stainless steel 1.4581
5	Spring	Stainless steel 1.4310
6	Diaphragm	NBR, EPDM, FKM
7	Diaphragm holder	PPSGF40, DN 50: brass, stainless steel
8	Valve body	Brass Stainless steel 1.4408 DN 50: stainless steel 1.4581
9	Manual override	PA

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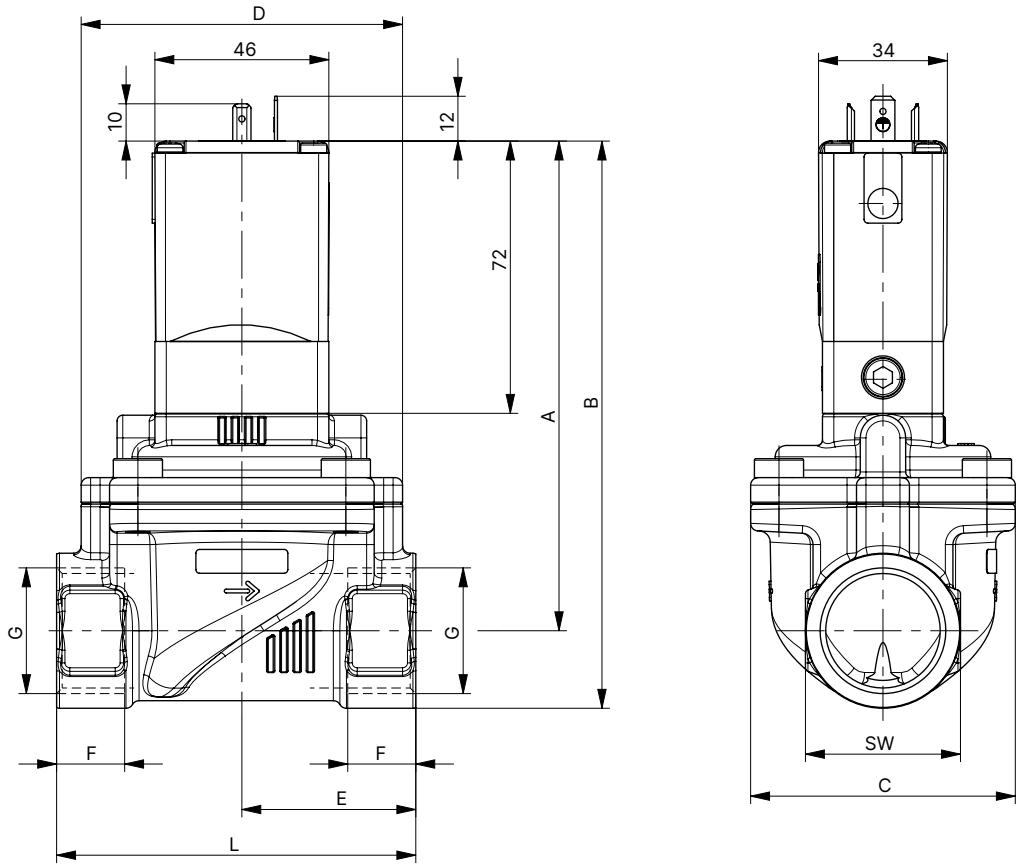
5. Dimensions

5.1. Standard variant

Threaded variant

Note:

- Dimensions in mm
- The dimensions F1 and G1 apply to G thread.
- The dimensions F2 and G2 apply to NPT thread.

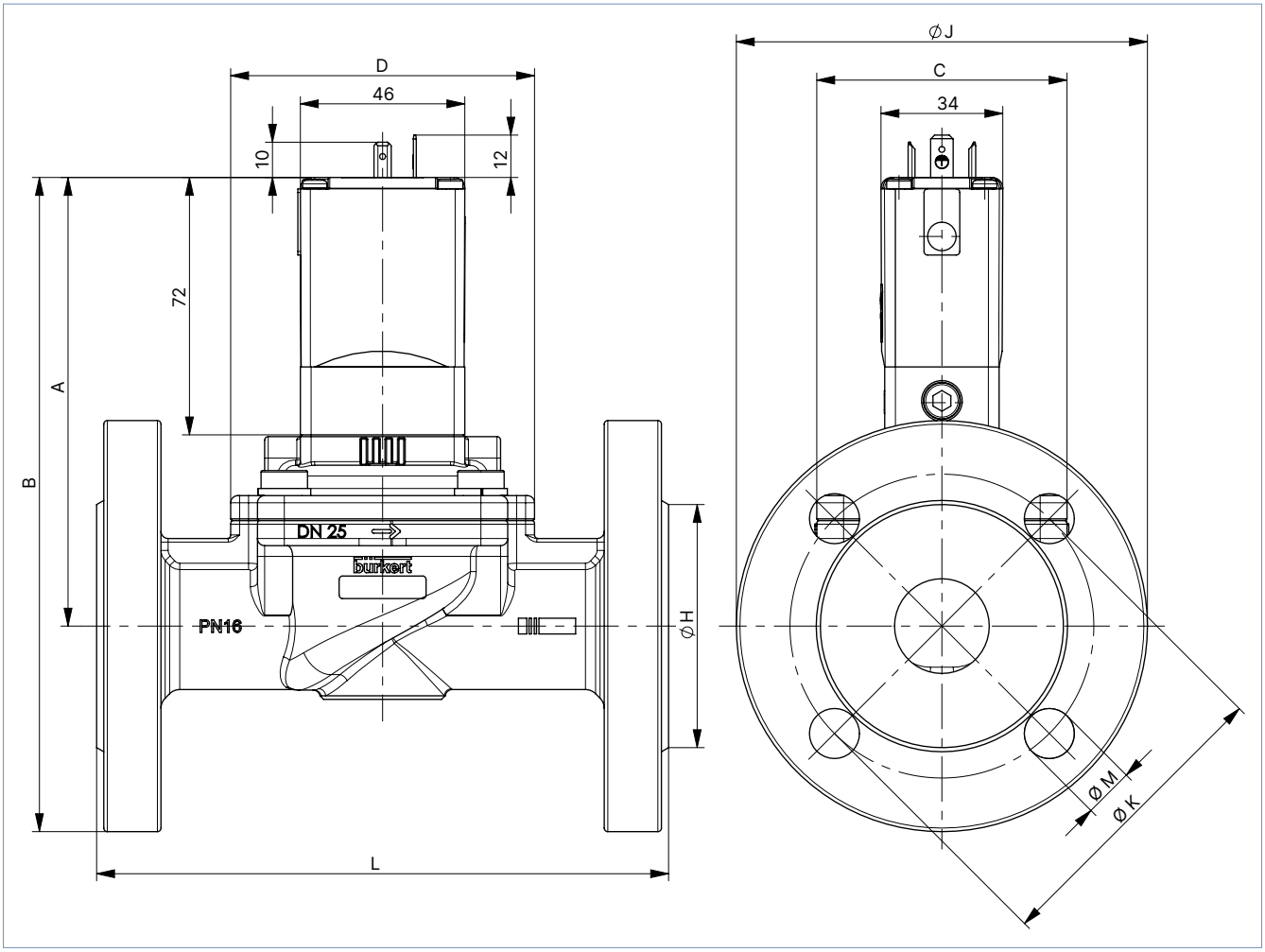


DN	A	B	C	D	E	G		NPT		L	SW
						F1	G1	F2	G2		
13[1.)]	108.5	122	42	54.5	32.5	14	G ½	13.7	NPT ½	65	27
13[2.)]	109	122	42	55.5	32.5	14	G ½	13.7	NPT ½	65	27
13[1.)]	110.5	126.5	42	54.5	32.5	16	G ¾	14	NPT ¾	65	32
20	123.5	139.5	60	74	37	16	G ¾	14	NPT ¾	80	32
25	129.5	150	70	85	46	18	G1	16.8	NPT 1	95	41
	134.5	159.5	70	85	46	20	G 1¼	17.3	NPT 1¼	95	50
40[1.)]	142	167	99	114	61	20	G 1¼	17.3	NPT 1¼	126	50
40	147.5	177.5	99	114	61	22	G 1½	17.3	NPT 1½	126	60
50	143.8	178.8	115	132	82	24	G 2	17.6	NPT 2	164	70
50[1.)]	143.5	186	115	132	89.5	27	G 2½	17.4	NPT 2½	179	85

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

Flange variant according to DIN EN 1092 - 1

Note:
Dimensions in mm



DN	A	B	C	D	Ø H	Ø J	Ø K	L	Ø M
25	125.5	183	70	85	68	115	85	160	14
40	138.5	208.5	99	114	78	140	100	180	18
40	147.5	222.5	99	114	88	150	110	200	18
50	143.8	226.3	115	132	102	165	125	230	18

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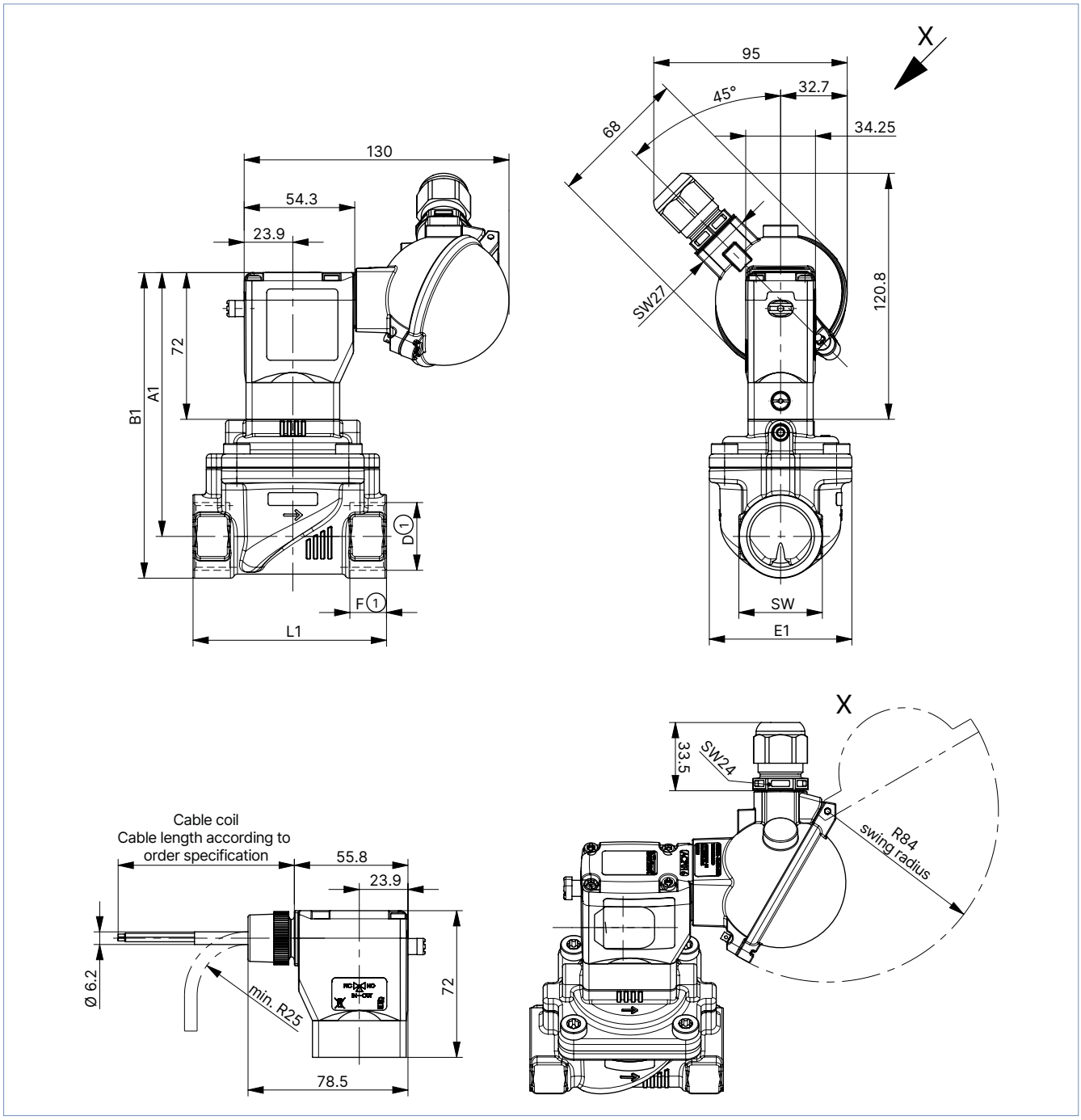
5.2. Explosion-proof variant

Threaded variant

Note:

- Dimensions in mm
- The dimensions F1 and G1 apply to G thread.
- The dimensions F2 and G2 apply to NPT thread.



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DN	A	B	C	D	E	G		NPT		L	SW
						F1	G1	F2	G2		
13[1.)]	108.5	122	42	54.5	32.5	14	G ½	13.7	NPT ½	65	27
13[2.)]	109	122	42	55.5	32.5	14	G ½	13.7	NPT ½	65	27
13[1.)]	110.5	126.5	42	54.5	32.5	16	G ¾	14	NPT ¾	65	32
20	123.5	139.5	60	74	37	16	G ¾	14	NPT ¾	80	32
25	129.5	150	70	85	46	18	G 1	16.8	NPT 1	95	41
	134.5	159.5	70	85	46	20	G11/4	17.3	NPT 1¼	95	50
40[1.)]	142	167	99	114	61	20	G 1¼	17.3	NPT 1¼	126	50
40	147.5	177.5	99	114	61	22	G 1½	17.3	NPT 1½	126	60
50	143.8	178.8	115	132	82	24	G 2	17.6	NPT 2	164	70
50[1.)]	143.5	186	115	132	89.5	27	G 2½	17.4	NPT 2½	179	85

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

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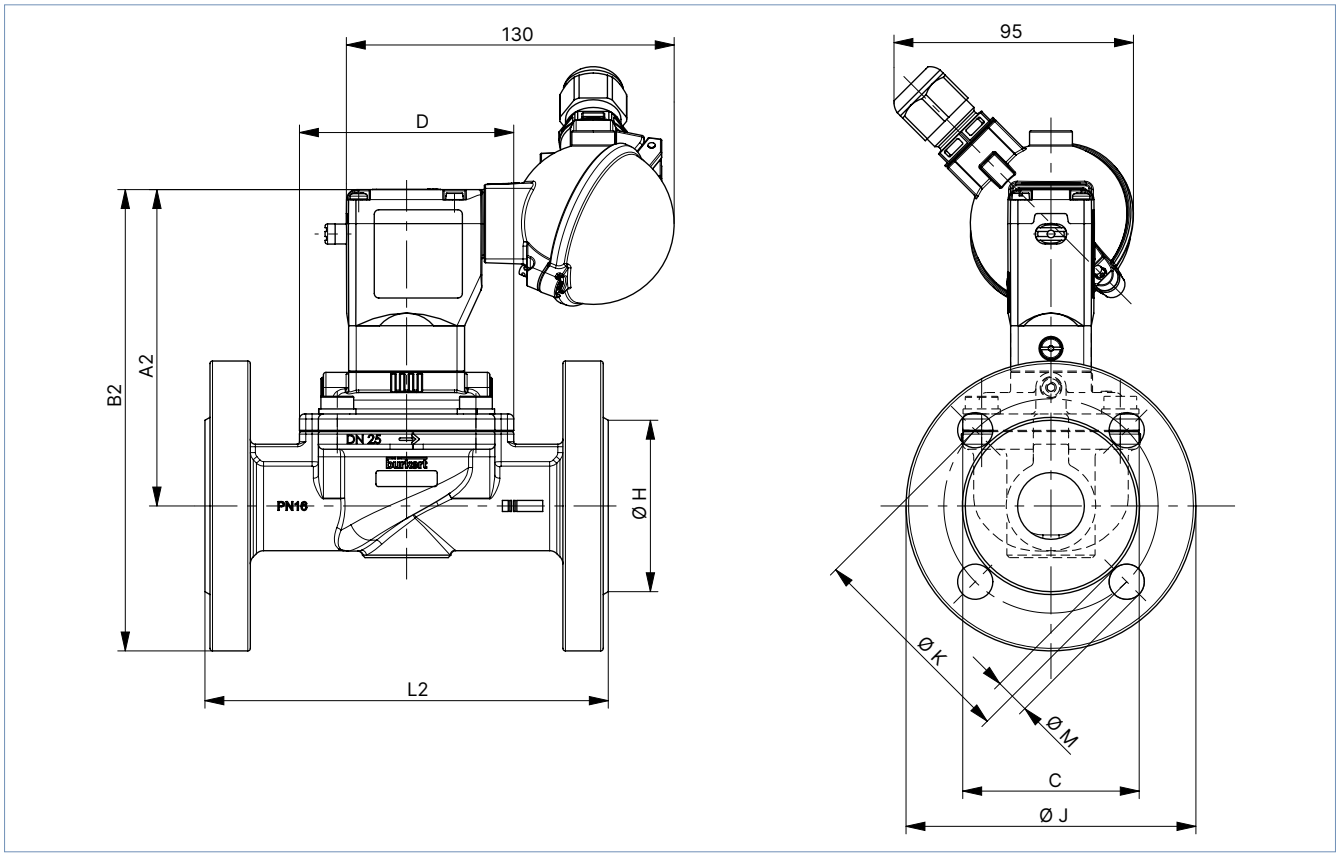
Flange variant according to DIN EN 1092 - 1

Note:

- Dimensions in mm
- Refer to "Threaded variant" on page 10 for more information about coil and terminal box dimensions.

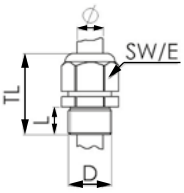
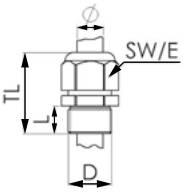


DN	A	B	C	D	Ø H	Ø J	Ø K	L	Ø M
25	125.5	183	70	85	68	115	85	160	14
40	138.5	208.5	99	114	78	140	100	180	18
40	147.5	222.5	99	114	88	150	110	200	18
50	143.8	208.3	115	132	102	165	125	230	18

6. Product accessories

6.1. 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 "7.5. Ordering chart accessories" on page 19.

Description	Ex approval		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

6.2. Special tool to turn the terminal box

Note:
This special tool is not included in the scope of delivery of the valve, see "7.5. Ordering chart accessories" on page 19.

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

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6.3. Additional options

Option	Variable code	Description
Pilot valve with brass or stainless steel body	NN99	Pilot valve with metal body. This allows an extended pressure range of up to 16 bar.
Valve function (NC/NO) changeable	NM01	The valve function (NC/NO) can be changed by rotating the pilot valve.
With manual override	HA04	The valve is equipped with a manual override.
Adjustable opening and closing times	MF26 (only DN13) MF27 (DN20...DN50)	MF26: The valve is equipped with a throttling screw that allows the closing time to be adjusted individually. MF27: The valve is equipped with throttling screws that allow the opening and closing times to be adjusted individually.
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 variant, free of oil, grease and silicone	NL02	The valve has been cleaned and is suitable for applications with oxygen (non-metallic, wetted materials have been tested).
Increased purity requirements, free of oil, grease and silicone	NL05	Wetted parts are specially cleaned and the valves are packaged accordingly (not applicable for seal material EPDM).
Increased purity requirements, silicone-free	NL50	Components are ultrasonically cleaned and silicone-free.
Electrical position feedback indicator as a micro switch with changeover contact	LF03	See **Type 1060** ▶. Function as opener, closer or toggle switch depending on the connection (no IP65 achievable)
Electrical position feedback indicator as inductive proximity switch	CF11 CF15 CF22	Coil with intrinsically safe proximity switch as normally closed contact (PTB 00 ATEX 2048X) instead of manual override CF11: 5 meter cable CF15: 2 meter cable CF22: M12 plug contact
Kick and Drop coil	CZ05	Kick and Drop coil: Plug variant with 60 W inrush power and 3 W holding power Cable variant with 40 W inrush power and 3 W holding power
Approvals	PD01	CSA General Purpose valve
	PD02	UR (UL Recognized)/CSA
	PD07	DNV (formerly Germanischer Lloyd)
	PE94	UR (UL Recognized)
	PE95	UL (UL Listed) approval
	PF43	Certified for drinking water according to EU DWD 2020/2184/EU up to + 60 °C warm water
	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
	PU09	Coil UL Recognised for USA and Canada cURus
	PU15	UL Listed for Hazardous Locations for the 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, T_{amb} - 40 °C...+ 60 °C, single and block mounting
	PY03	Korean Ex approval KOSHA
	PY11	Ex Approval China; CCC
Possible conformities (depending on the assembly)	PL03	The devices are suitable for use with food. Wetted materials are FDA compliant.

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7. Ordering information

7.1. 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

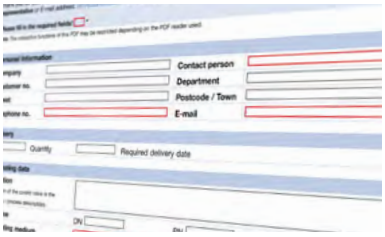
7.2. Bürkert product filter

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.

Try out our product filter

7.3. 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

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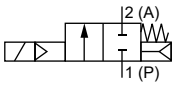
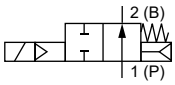
7.4. Ordering chart

Brass body with threaded connection

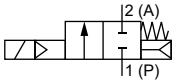
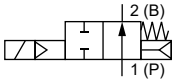
Note:
Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 19 or separate data sheet **Type 2518** ▶.

Pilot valve with PPS body

Circuit function	Port connection	Orifice	K_V value water [1.) 2.)]	Pressure range [3.)]	Weight	Article no.		
						024/DC	024/50	230/50
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]	[V/Hz]
With threaded connection, without manual override, without cable plug, seal material NBR, pressure range 0.2...12 bar								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	13.0	3.8	0.2...10	0.7	20110000	20136403	20136410
	G ¾	20.0	8.5	0.2...10	1.1	20110001	20136404	20136411
	G 1	25.0	13.8	0.2...10	1.5	20110002	20136405	20136412
	G 1¼	40.0	21.0	0.2...10	3.2	20136401	20136406	20136413
	G 1½	40.0	34.0	0.2...10	3.6	20110003	20136407	20136414
	G 2	50.0	40.0	0.2...10	5.0	20110005	20136408	20136415
	G 2½	50.0	40.0	0.2...10	5.7	20136402	20136409	20136417
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ½	13.0	3.8	0.2...10	0.7	20136418	20136426	20136433
	G ¾	20.0	8.5	0.2...10	1.1	20136419	20136427	20136434
	G 1	25.0	13.8	0.2...10	1.5	20136420	20136428	20136436
	G 1¼	40.0	21.0	0.2...10	3.2	20136421	20136429	20136437
	G 1½	40.0	34.0	0.2...10	3.6	20136423	20136430	20136438
	G 2	50.0	40.0	0.2...10	5.0	20136424	20136431	20136439
	G 2½	50.0	40.0	0.2...10	5.7	20136425	20136432	20136440

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

Pilot valve with brass body

Circuit function	Port connection	Orifice	K_V value 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, without manual override, without cable plug, seal material NBR, pressure range 0.2...16 bar								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	13.0	3.8	0.2...16	0.8	20136441	20136449	20136457
	G ¾	20.0	8.5	0.2...16	1.2	20136443	20136451	20136458
	G 1	25.0	13.8	0.2...16	1.6	20136444	20136452	20136459
	G 1¼	40.0	21.0	0.2...16	3.4	20136445	20136453	20136461
	G 1½	40.0	34.0	0.2...16	3.8	20136446	20136454	20136463
	G 2	50.0	40.0	0.2...16	5.2	20136447	20136455	20136464
	G 2½	50.0	40.0	0.2...16	5.9	20136448	20136456	20136465
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ½	13.0	3.8	0.2...16	0.8	20136466	20136473	20136480
	G ¾	20.0	8.5	0.2...16	1.2	20136467	20136474	20136481
	G 1	25.0	13.8	0.2...16	1.6	20136468	20136475	20136482
	G 1¼	40.0	21.0	0.2...16	3.4	20136469	20136476	20136483
	G 1½	40.0	34.0	0.2...16	3.8	20136470	20136477	20136484
	G 2	50.0	40.0	0.2...16	5.2	20136471	20136478	20136485
	G 2½	50.0	40.0	0.2...16	5.9	20136472	20136479	20136486

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

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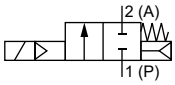
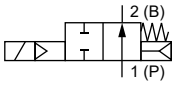
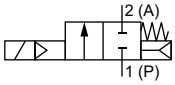
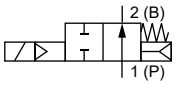
Stainless steel body with threaded connection

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 19 or separate data sheet **Type 2518** ▶.

Pilot valve with PPS body

Circuit function	Port connection	Orifice	K_V value water [1.) 2.)]	Pressure range [3.)]	Weight	Article no.		
						024/DC	024/50	230/50
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]	[V/Hz]
With threaded connection, without manual override, without cable plug, seal material FKM, pressure range 0.2...10 bar								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	13.0	3.8	0.2...10	0.7	20110021	20136488	20136494
	G ¾	20.0	8.5	0.2...10	1.1	20110022	20136489	20136496
	G 1	25.0	13.8	0.2...10	1.5	20110023	20136490	20136497
	G 1½	40.0	34	0.2...10	3.6	20110024	20136491	20136498
	G 2	50.0	40.0	0.2...10	4.6	20110025	20136492	20136499
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ½	13.0	3.8	0.2...10	0.7	20136500	20136505	20136510
	G ¾	20.0	8.5	0.2...10	1.1	20136501	20136506	20136511
	G 1	25.0	13.8	0.2...10	1.5	20136502	20136507	20136512
	G 1½	40.0	34	0.2...10	3.6	20136503	20136508	20136513
	G 2	50.0	40.0	0.2...10	4.6	20136504	20136509	20136514

Pilot valve with stainless steel body

Circuit function	Port connection	Orifice	K_V value 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, without manual override, without cable plug, seal material FKM, pressure range 0.2...12 bar								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	13.0	3.8	0.2...12	0.8	20136515	20136521	20136526
	G ¾	20.0	8.5	0.2...12	1.2	20136516	20136522	20136527
	G 1	25.0	13.8	0.2...12	1.6	20136517	20136523	20136528
	G 1½	40.0	34.0	0.2...12	3.8	20136519	20136524	20136529
	G 2	50.0	40.0	0.2...12	4.8	20136520	20136525	20136530
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ½	13.0	3.8	0.2...12	0.8	20136531	20136536	20136543
	G ¾	20.0	8.5	0.2...12	1.2	20136532	20136537	20136544
	G 1	25.0	13.8	0.2...12	1.6	20136533	20136539	20136545
	G 1½	40.0	34.0	0.2...12	3.8	20136534	20136541	20136546
	G 2	50.0	40.0	0.2...12	4.8	20136535	20136542	20136547

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

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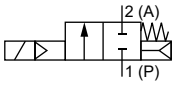
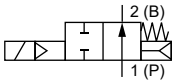
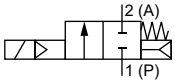
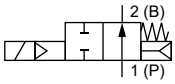
Stainless steel body with flange connection

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 19 or separate data sheet **Type 2518** ▶.

Pilot valve with PPS body

Circuit function	Port connection	Orifice	K_V value water [1.) 2.)]	Pressure range [3.)]	Weight	Article no.		
						024/DC	024/50	230/50
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]	[V/Hz]
With flange connection acc. to DIN EN 1092 - 1, without manual override, without cable plug, seal material FKM, pressure range 0.2...10 bar								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	Flange DN 25	25.0	13.8	0.2...10	4.5	20136598	20136617	20136635
	Flange DN 32	40.0	21.0	0.2...10	7.3	20136598	20136618	20136637
	Flange DN 40	40.0	34.0	0.2...10	8.1	20136600	20136619	20136638
	Flange DN 50	50.0	40.0	0.2...10	11.1	20136601	20136620	20136639
CF B 2/2-way solenoid valve Servo-controlled Normally open 	Flange DN 25	25.0	13.8	0.2...10	4.5	20136602	20136621	20136640
	Flange DN 32	40.0	21.0	0.2...10	7.3	20136603	20136622	20136641
	Flange DN 40	40.0	34.0	0.2...10	8.1	20136604	20136624	20136642
	Flange DN 50	50.0	40.0	0.2...10	11.1	20136605	20136625	20136643

Pilot valve with stainless steel body

Circuit function	Port connection	Orifice	K_V value 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 flange connection acc. to DIN EN 1092 - 1, without manual override, without cable plug, seal material FKM, pressure range 0.2...12 bar								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	Flange DN 25	25.0	13.8	0.2...12	4.7	20136607	20136626	20136644
	Flange DN 32	40.0	21.0	0.2...12	7.5	20136608	20136627	20136646
	Flange DN 40	40.0	34.0	0.2...12	8.3	20136609	20136628	20136647
	Flange DN 50	50.0	40.0	0.2...12	11.3	20136610	20136629	20136648
CF B 2/2-way solenoid valve Servo-controlled Normally open 	Flange DN 25	25.0	13.8	0.2...12	4.7	20136612	20136630	20136649
	Flange DN 32	40.0	21.0	0.2...12	7.5	20136613	20136631	20136651
	Flange DN 40	40.0	34.0	0.2...12	8.3	20136615	20136632	20136652
	Flange DN 50	50.0	40.0	0.2...12	11.3	20136616	20136634	20136653

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

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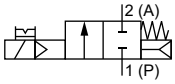
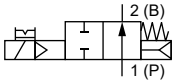
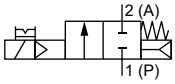
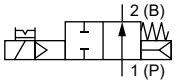
Explosion-proof variant

Brass body with threaded connection

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

Pilot valve with brass body

Circuit function	Port connection	Orifice	K_V value water [1.) 2.)]	Pressure range [3.)]	Weight	Article no.	
						024 AC/DC	230 AC/DC
		[mm]	[m³/h]	[bar]	[kg]	[V/Hz]	[V/Hz]
With threaded connection, with manual override and terminal box, seal material FKM							
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ½	13	3.8	0.2...12	1.1	20136654	20136668
	G ¾	20	8.5	0.2...12	1.5	20136655	20136669
	G 1	25	13.8	0.2...12	1.9	20136656	20136670
	G 1¼	40	21.0	0.2...12	3.6	20136657	20136671
	G 1½	40	34.0	0.2...12	4.0	20136658	20136672
	G 2	50	40.0	0.2...12	5.3	20136659	20136673
	G 2 ½	50	40.0	0.2...12	6.0	20136660	20136674
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	G ½	13	3.8	0.2...12	1.1	20137717	20137734
	G ¾	20	8.5	0.2...12	1.5	20137718	20137735
	G 1	25	13.8	0.2...12	1.9	20137719	20137736
	G 1¼	40	21.0	0.2...12	3.6	20137720	20137737
	G 1½	40	34.0	0.2...12	4.0	20137721	20137738
	G 2	50	40.0	0.2...12	5.3	20137722	20137739
	G 2 ½	50	40.0	0.2...12	6.0	20137723	20137740
With threaded connection, with manual override and cable outlet, cable 3 m, seal material NBR							
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ½	13	3.8	0.2...16	1.1	20136661	20136675
	G ¾	20	8.5	0.2...16	1.5	20136662	20136676
	G 1	25	13.8	0.2...16	1.9	20136663	20136677
	G 1¼	40	21.0	0.2...16	3.6	20136664	20136678
	G 1½	40	34.0	0.2...16	4.0	20136665	20136679
	G 2	50	40.0	0.2...16	5.3	20136666	20136680
	G 2 ½	50	40.0	0.2...16	6.0	20136667	20136681
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	G ½	13	3.8	0.2...16	1.1	20137724	20137744
	G ¾	20	8.5	0.2...16	1.5	20137725	20137746
	G 1	25	13.8	0.2...16	1.9	20137726	20137747
	G 1¼	40	21.0	0.2...16	3.6	20137728	20137748
	G 1½	40	34.0	0.2...16	4.0	20137730	20137749
	G 2	50	40.0	0.2...16	5.3	20137731	20137751
	G 2 ½	50	40.0	0.2...16	6.0	20137732	20137753

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

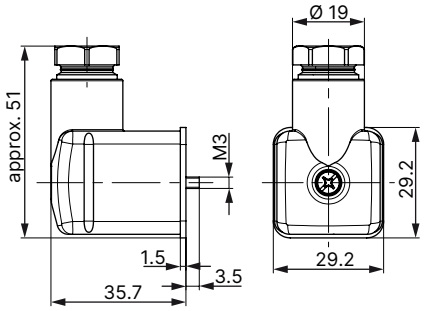
Further variants on request			
Additionally Manual override		**Process connection** NPT	
Approval Further information can be found in chapter "5. Dimensions" on page 19.		**Voltage** Further voltages	
Material Seal material: NBR, EPDM, FKM		**Control function/Circuit function** Further information can be found in chapter "5. Dimensions" on page 19.	

7.5. Ordering chart accessories

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

Note:

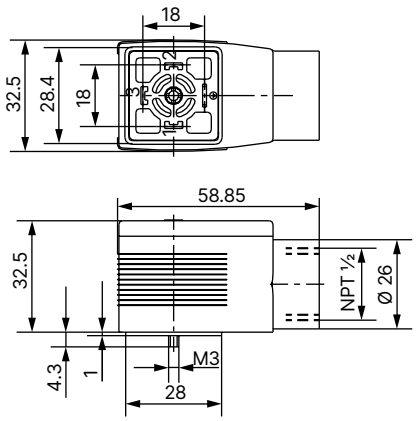
- Dimensions in mm
- For further variants see data sheet **Type 2518** ▶.

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)
- The cable plug Type 2509 meets the requirements of ATEX Cat. 3 GD in assembly with a Bürkert solenoid valve.
- The cable plug Type 2509 meets the requirements of UL Listed (UL 429) in assembly with a Bürkert solenoid valve.
- 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

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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 "6.1. Cable glands for ATEX/IECEx terminal box" on page 12 for more information about Ex cable glands.
- Refer to "6.2. Special tool to turn the terminal box" on page 12 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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