

DATA SHEET

Type 6281



Servo-assisted 2/2 way diaphragm valve

- Servo-assisted diaphragm with diameter of up to DN50
- Vibration-proof, central screwed coil system
- Damped design for quiet closing
- Service-friendly manual override
- Explosion-proof versions



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

Can be combined with



Type 2518

Cable Plug
DIN EN 175301 - 803 -
Form A

Type description

The 6281 valve is a servo-assisted solenoid valve of the S.EV series. A minimum differential pressure is always required for the function of the valve. Various diaphragm material combinations and methods of operation are available depending on the application. The standard brass housing satisfies all European drinking water requirements. Dezincification-resistant brass is available for other markets. The housing offering is rounded out by a stainless steel version. For reduced energy requirement, all coils can be delivered with electronic power reduction. The valve can be equipped with manual override for easy maintenance and commissioning. In combination with a plug in accordance with DIN EN 175301 - 803 Form A, the valves satisfy protection class IP65 – in combination with a stainless steel housing NEMA 4X.

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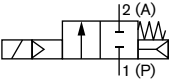
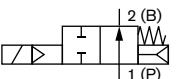
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1. General Technical Data

Product properties	
Dimensions	Detailed information can be found in chapter “5. Dimensions” on page 5.
Material	
Body	Brass acc. to DIN EN 50930 - 6, stainless steel (dezincification resistant on request)
Inner valve parts	Stainless steel, Brass, Plastic (PPS)
Seal	NBR, EPDM, FKM
Nominal diameter	DN10...DN50
Thermal insulation class of solenoid	Polyamide class B Epoxy class H
Performance data	
Duty cycle	100 % continuous rating
Response times ^{1.)}	0.1...4 sec. (depending on orifice and differential pressure)
Electrical data	
Voltage tolerance	± 10 %
Operating voltage	024/DC, 024/UC, 024/50...60 V/Hz, 230/UC, 230/50...60 V/Hz
Electrical connection	Tag connector acc. to DIN EN 175301 - 803 Form A for cable plug Type 2518 (see “8.4. Ordering chart accessories” on page 16)
Media data	
Media	
NBR	Neutral fluids, e.g. compressed air, water
EPDM	Oil and fat-free fluids, hot water, acetone, aqueous alkali solution
FKM	Hot air, per-solution
Medium temperature	
NBR	-10 °C... +80 °C
EPDM	-30 °C... +90 °C (with epoxy coil to +100 °C)
FKM	0 °C... +90 °C (with epoxy coil to +120 °C)
Approvals and certificates	
Directives	CE, EAC
Environment and installation	
Installation	As required, preferably with actuator upright
Degree of protection	IP65 with cable plug, cable connection and terminal box
Ambient temperature (max.)	+55 °C

1.) Measured at valve outlet at 6 bar and +20 °C. Opening: pressure build-up 0...90 %, Closing: pressure decay 100...10 %.

2. Circuit functions

Circuit functions	Description
	Type: A, solenoid valve 2/2 way Servo-controlled Normally closed
	Type: B, solenoid valve 2/2 way Servo-controlled Normally open

3. Approvals

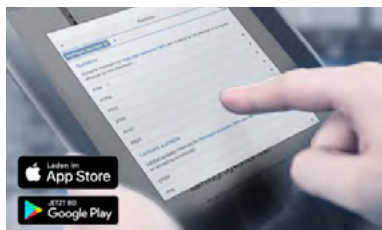
Explosion-proof approvals

ATEX: EPS 18 ATEX 1232 X
 II 2G Ex mb IIC T4 Gb
 II 2D Ex mb IIIC T130 °C Db
 II 2G Ex eb mb IIC T4 Gb
 II 2D Ex mb tb IIIC T130 °C Db

IECEX: IECEX EPS 18.0110 X
 Ex mb IIC T4 Gb
 Ex mb IIIC T130 °C Db
 Ex eb mb IIC T4 Gb
 Ex mb tb IIIC T130 °C Db

4. Materials

4.1. Chemical Resistance Chart – Bürkert resistApp

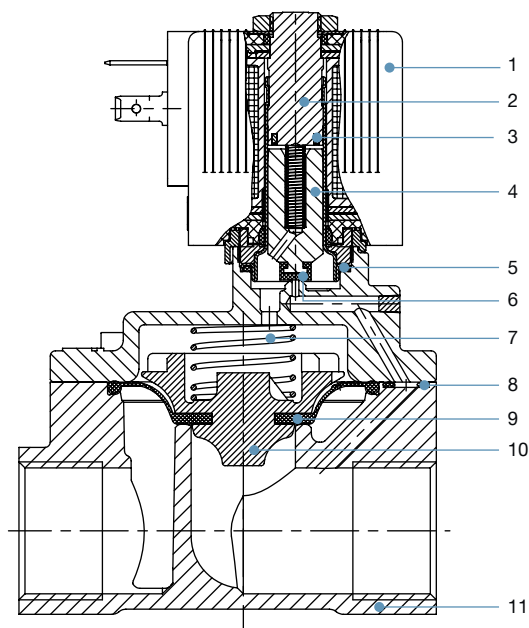


Bürkert resistApp – Chemical Resistance Chart

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

[Start Chemical Resistance Check](#)

4.2. Material specifications standard version



No.	Element	Material
1	Coil	Polyamide ^{1.)} or Epoxy ^{2.)}
2	Stopper	1.4113
3	Shading ring	Cu (brass version) Ag (stainless steel version)
4	Magnetic core	1.4113
5	O-rings	NBR, FKM, EPDM
6	Magnetic core	NBR, FKM, EPDM
7	Spring	1.4310
8	O-rings	NBR, FKM, EPDM
9	Diaphragm	NBR, FKM, EPDM
10	Diaphragmholder	PPSGF40, DN50: Brass and stainless steel
11	Valve body	Brass, conforming to DIN 50930-6 or stainless steel 1.4408 (CF8M)

1.) With NBR/EPDM seal

2.) With FKM seal

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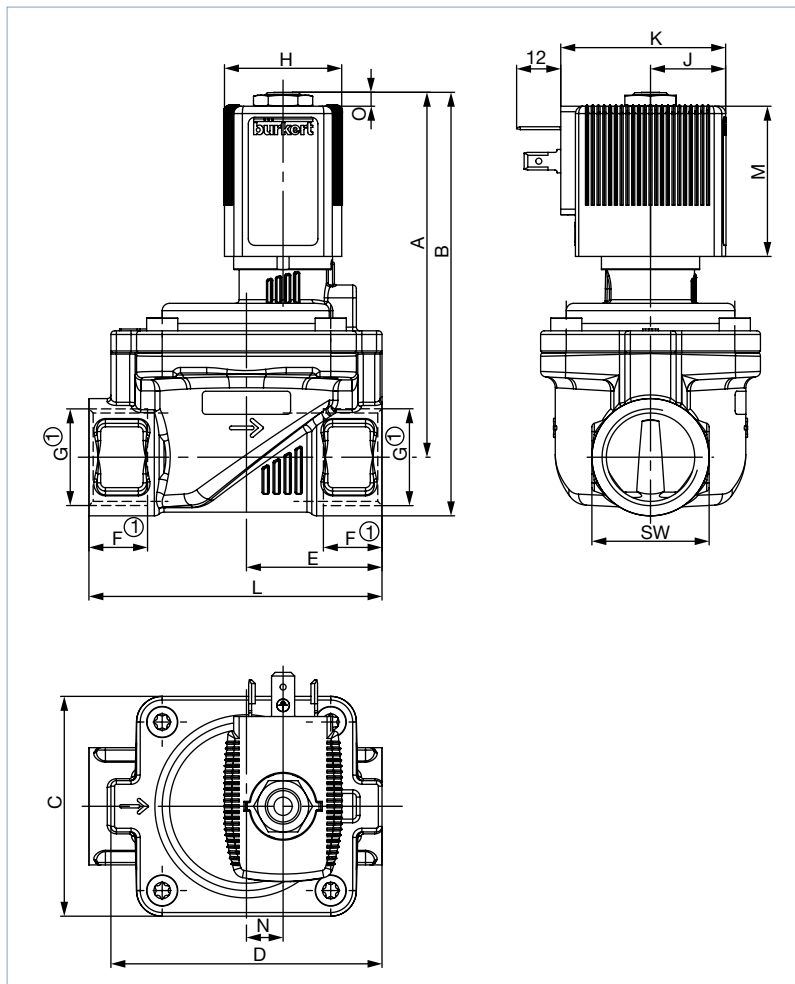
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5. Dimensions

5.1. Standard version

Note:

- Dimensions in mm
- The dimensions F1 and G1 apply to G-threads
- The dimensions F2 and G2 apply to NPT-threads
- The dimensions F3 and G3 apply to RC-threads



Coil size	H	J	K	M	O
5	32	20.5	45	41	3.4
6	40	23.5	51	41.4	3.8

DN	A	B	C	D	E	G		NPT		Rc		L	SW	N
						F1	G1	F2	G2	F3	G3			
10 ¹⁾	83.1	94.1	32	44	22	12	G ¼	10	NPT ¼	–	–	50	22	–
	85.1	98.6			24.5	14	G ½	10.3	NPT ½	–	–			
10 ²⁾	83.6	94.6	32	44	22	12	G ¼	10	NPT ¼	–	–	50	22	–
	85.6	99.1			24.5	14	G ½	10.3	NPT ½	–	–			
13 ¹⁾	91.1	104.6	42	54.5	27.25	12	G ¼	–	–	–	–	58	27	–
	93.1	109.1			32.5	14	G ½	13.7	NPT ½	13.2	Rc ½			
20	99.6	115.6	60	74	37	16	G ¾	14	NPT ¾	–	–	80	32	10
	102.1	122.6			37.5	18	G 1	16.8	NPT 1	–	–			
25	106.6	127.1	70	85	46	18	G 1	16.8	NPT 1	16.8	Rc 1	95	41	15
	111.6	136.6			46	20	G 1¼	17.3	NPT 1¼	19.1	Rc 1¼			

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DN	A	B	C	D	E	G		NPT		Rc		L	SW	N
						F1	G1	F2	G2	F3	G3			
40 ^{1.)}	120.1	145.1	99	114	61	20	G 1¼	17.3	NPT 1¼	19.1	Rc 1¼	126	50	23
40	125.6	155.6				22	G 1½		NPT 1½		Rc 1½	126	60	
	131.6	166.6			64	24	G 2	17.6	NPT 2	23.4	Rc 2	132	70	
50 ^{1.)}	119.9	154.9	115	132	82	24	G 2	17.6	NPT 2	23.4	Rc 2	164	70	37
	119.6	162.1			89.5	27	G 2½	23.6	NPT 2½	–	–	179	85	

1.) Only brass threaded port version

2.) Only stainless steel threaded port version

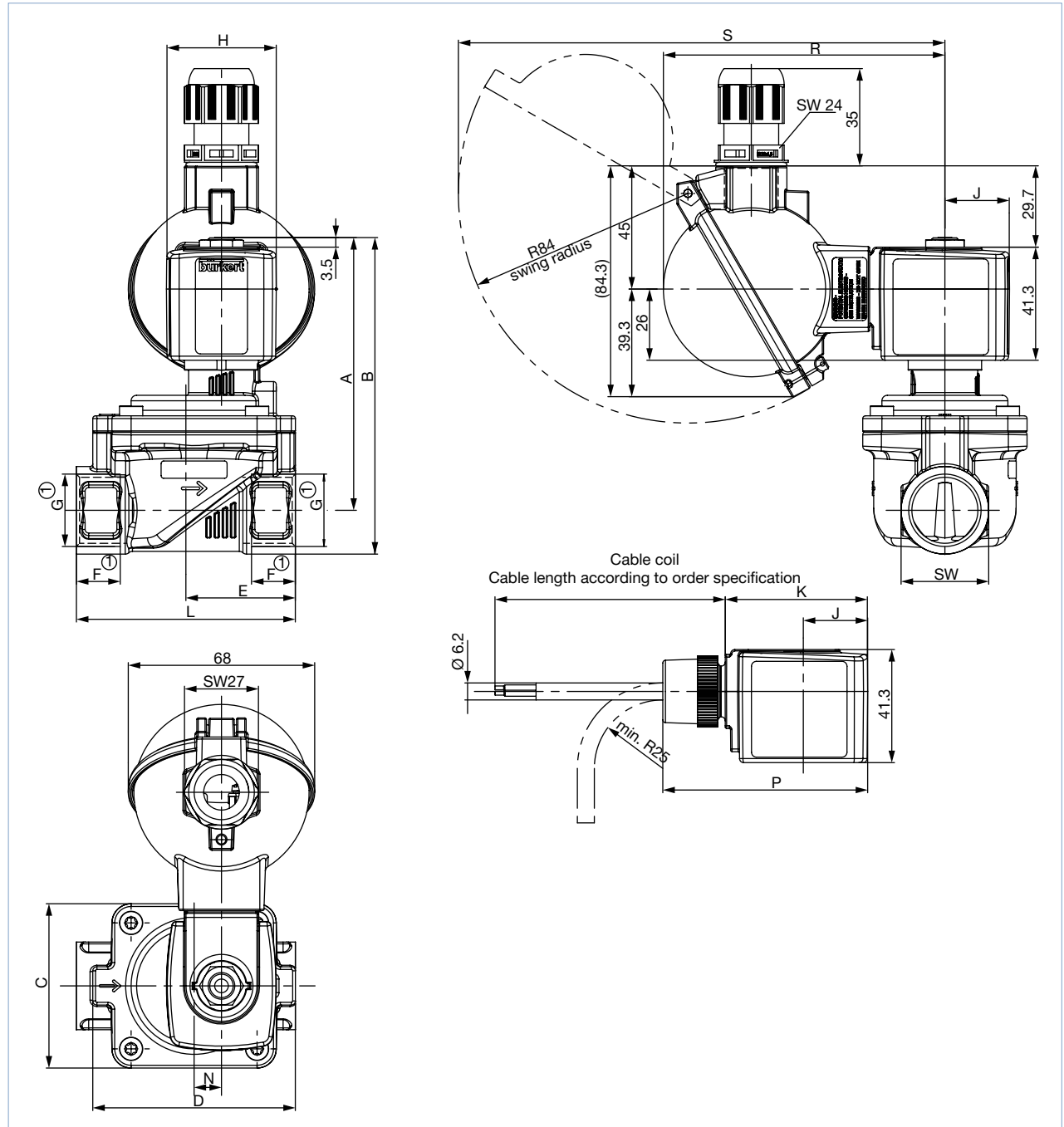
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5.2. ATEX version with cable connection

Note:

- Dimensions in mm
- The dimensions F1 and G1 apply to G-threads
- The dimensions F2 and G2 apply to NPT-threads
- The dimensions F3 and G3 apply to RC-threads
- For DN50 see dimensions “5.3. ATEX version with terminal box” on page 8



Coil size	H	J	K	P	R	S
5	32	20.5	46	68.8	99.8	174.7
6	40	23.5	52	74.8	103	177.7

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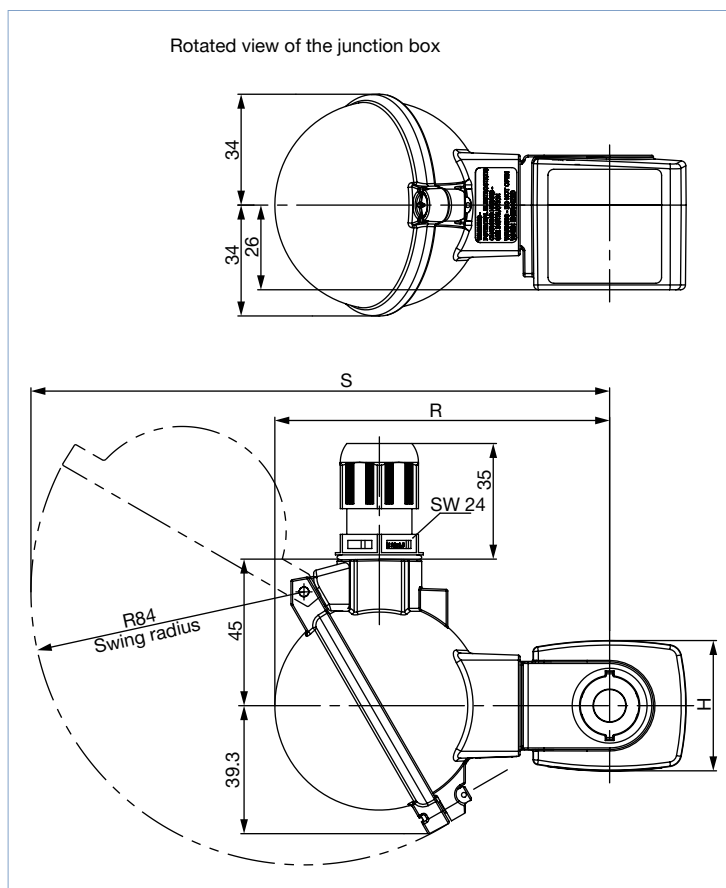
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DN	A	B	C	D	E	G		NPT		Rc		L	SW	N
						F1	G1	F2	G2	F3	G3			
10 ^{1,2}	83.1	94.1	32	44	22	12	G ¼	10	NPT ¼	–	–	50	22	–
						12	G ⅜	10.3	NPT ⅜	10.1	Rc ⅜			
10 ^{2,3}	85.1	98.6			24.5	14	G ½	13.7	NPT ½	–	–	50	27	–
						12	G ⅜	10.3	NPT ⅜	10.1	Rc ⅜			
13 ^{1,2}	83.6	94.6			22	12	G ¼	10	NPT ¼	–	–	50	22	–
						12	G ⅜	10.3	NPT ⅜	10.1	Rc ⅜			
13 ^{2,3}	85.6	99.1			24.5	14	G ½	13.7	NPT ½	–	–	55	27	–
						12	G ⅜	–	–	–	–			
13 ^{1,2}	91.1	104.6	42	54.5	27.25	12	G ⅜	–	–	–	–	58	27	–
						14	G ½	13.7	NPT ½	13.2	Rc ½			
13	93.1	109.1			32.5	16	G ¾	14	NPT ¾	–	–	65	32	
						16	G ¾	14	NPT ¾	–	–			
20	99.6	115.6	60	74	37	16	G ¾	14	NPT ¾	14.5	Rc ¾	80	32	10
						18	G 1	16.8	NPT 1	–	–			
25	102.1	122.6			37.5	18	G 1	16.8	NPT 1	–	–	80	41	
						18	G 1	16.8	NPT 1	16.8	Rc 1			
40 ^{1,2}	106.6	127.1	70	85	46	20	G 1¼	17.3	NPT 1¼	19.1	Rc 1¼	95	50	15
						20	G 1¼	17.3	NPT 1¼	19.1	Rc 1¼			
40	120.1	145.1	99	114	61	20	G 1¼	17.3	NPT 1¼	19.1	Rc 1¼	126	50	23
						22	G 1½	–	NPT 1½	–	Rc 1½			
50 ^{1,2}	125.6	155.6			64	24	G 2	17.6	NPT 2	23.4	Rc 2	132	70	
						24	G 2	17.6	NPT 2	23.4	Rc 2			
50 ^{2,3}	119.9	154.9	115	132	82	24	G 2	17.6	NPT 2	23.4	Rc 2	164	70	37
						27	G 2½	23.6	NPT 2½	–	–			

5.3. ATEX version with terminal box

Note:

- Dimensions in mm
- Standard at DN50



Coil size	H	J	K	P	R	S
5	32	20.5	46	68.8	99.8	174.7
6	40	23.5	52	74.8	103	177.7

Visit product website ►

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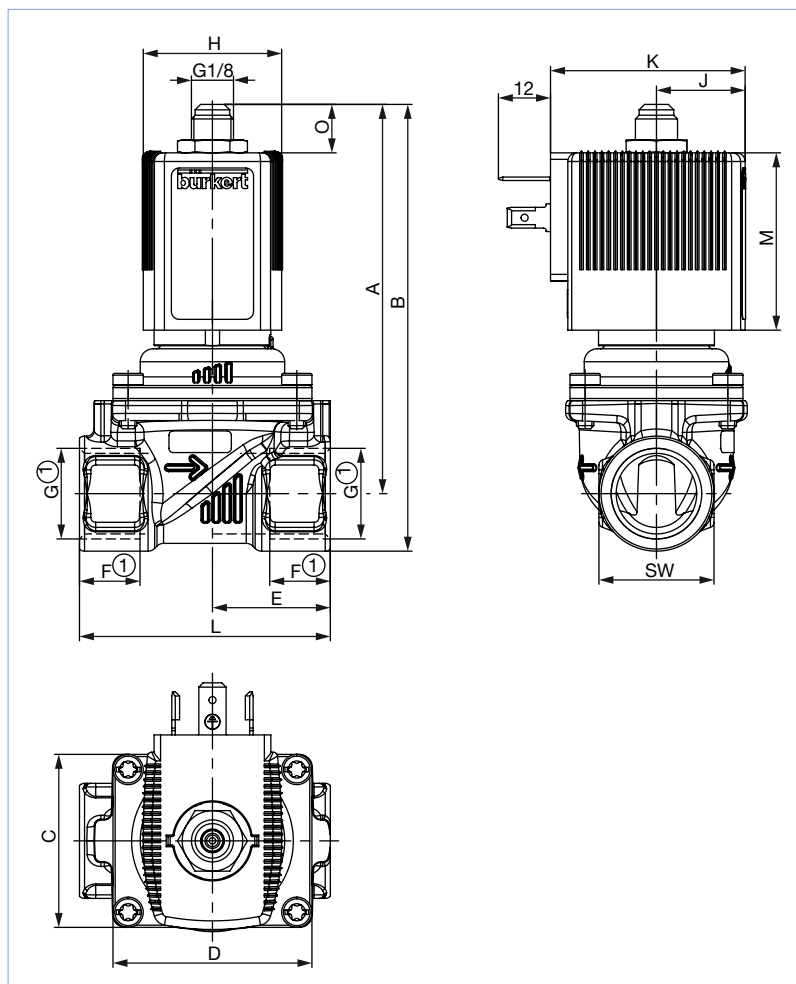
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5.4. Compressor relief valves

Note:

- Dimensions in mm
- The dimensions F1 and G1 apply to G-threads
- The dimensions F2 and G2 apply to NPT-threads
- The dimensions F3 and G3 apply to Rc-threads



Coil size	H	J	K	M	O
5	32	20.5	46	41	11.2
6	40	23.5	52	41.4	10.8

DN	A	B	C	D	E	G		NPT		Rc		L	SW
						F1	G1	F2	G2	F3	G3		
10	90.5	101.5	32	44	22	12	G 1/4	10	NPT 1/4	–	–	50	22
						12	G 3/8	10.3	NPT 3/8	10.1	Rc 3/8		
	92.5	106			24.5	14	G 1/2	13.7	NPT 1/2	13.2	Rc 1/2		27
13	90	103.5	42	54.5	27.25	12	G 3/8	–	–	–	–	58	27
						14	G 1/2	13.7	NPT 1/2	13.2	Rc 1/2		
	92	108			32.5	16	G 3/4	14	NPT 3/4	14.5	Rc 3/4		32
20	107	123	60	74	37	16	G 3/4	14	NPT 3/4	14.5	Rc 3/4	80	32
	109.5	130			37.5	18	G 1	16.8	NPT 1	–	–		41

6. Performance specifications

6.1. Power consumption

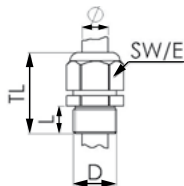
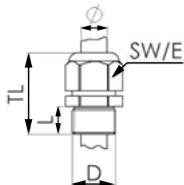
Orifice [mm]	Circuit function	Coil size [mm]	AC			DC		ATEX AC/DC Nominal power [W]
			Inrush power [VA]	Holding power [VA]	[W]	Cold power [W]	Warm power [W]	
10...50	WWA	32	24	14	8	9.5	8	–
10...50	WWB	32	24	16	7	9.5	8	–
13...50	WWA / WWB	40	–	–	–	–	–	9
10	WWA	32	–	–	–	–	–	7
10	WWB	40	–	–	–	–	–	9
10	WWB u. CF05	32	18	11	5	6	5	–
13	WWB u. MX62	32	24	14	8	–	–	–
13	WWB u. MX62	40	–	–	–	11	9.5	–

7. Product accessories

7.1. Cable glands for ATEX/IECEx terminal box

Note:

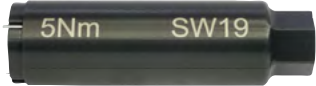
- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at a surcharge.
- This special tool is not supplied with the valve (see [“8.4. Ordering chart accessories” on page 16](#)).

Description	Ex approvals		Dimensions										
	Certification	Identification											
Ex cable gland, Brass, nickelplated, 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 supplied with the valve (see [“8.4. Ordering chart accessories” on page 16](#)).
- This special tool can only be used with ATEX AC10 coils.

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

8. Ordering information

8.1. Bürkert eShop – Easy ordering and quick delivery



Bürkert eShop – Easy ordering and fast 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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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.

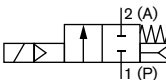
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8.3. Ordering chart

Standard version with brass body

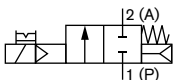
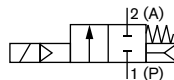
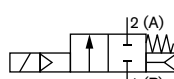
Note:

Please note that the cable plug has to be ordered separately, see “8.4. Ordering chart accessories” on page 16 or separate datasheet **Type 2518** ▶.

Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]		
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50 - 60	230/50 - 60
Seal material NBR, polyamide coil, medium temperature - 10 °C... + 80 °C								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	322499 	322500 	322501 
	G ¾	10	1.9	0.2...16	0.40	322502 	322503 	322504 
	G ¾	13	3.8	0.2...16	0.58	221841 	221842 	221843 
	G ½	13	3.8	0.2...16	0.54	221844 	221845 	221846 
	G ¾	13	3.8	0.2...16	0.59	221847 	221848 	221849 
	G ¾	20	8.5	0.2...16	0.89	221850 	221851 	221852 
	G 1	20	8.5	0.2...16	1.0	221853 	221854 	221855 
	G 1	25	12	0.2...16	1.3	221856 	221857 	221858 
	G 1¼	25	12	0.2...16	1.5	221859 	221860 	221861 
	G 1¼	40	23	0.2...16	2.7	270131 	268550 	270132 
	G 1½	40	30	0.2...16	3.0	221862 	221863 	221864 
	G 2	40	30	0.2...16	3.2	221865 	221866 	221867 
	G 2	50	40	0.2...16	4.5	253156 	253157 	253158 
	G 2½	50	40	0.2...16	5.2	253159 	253160 	253161 

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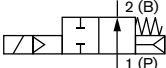
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Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]		
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50 - 60	230/50 - 60
Seal material NBR, polyamide coil, medium temperature - 10 °C... + 80 °C, with manual override								
A, solenoid valve 2/2 way Servo-controlled, with manual mode Normally closed 	G ¼	10	1.5	0.2...16	0.43	322505 	322506 	322507 
	G ⅜	10	1.9	0.2...16	0.40	322508 	322509 	322510 
	G ½	13	3.8	0.2...16	0.54	221952 	–	221953 
	G ¾	13	3.8	0.2...16	0.59	221954 	–	221955 
	G ¾	20	8.5	0.2...16	0.89	221956 	–	221957 
	G 1	20	8.5	0.2...16	1.0	221958 	–	221959 
	G 1	25	12	0.2...16	1.3	221960 	–	221961 
	G 1¼	25	12	0.2...16	1.5	221962 	–	221963 
	G 1¼	40	23	0.2...16	2.7	270142 	–	270143 
	G 1½	40	30	0.2...16	3.0	221964 	–	221965 
G 2	40	30	0.2...16	3.2	221966 	–	221967 	
Seal material FKM, epoxy coil, medium temperature 0 °C... + 120 °C								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	322511 	322512 	322513 
	G ⅜	10	1.9	0.2...16	0.40	322514 	322515 	322516 
	G ⅝	13	3.8	0.2...16	0.58	221868 	221869 	221870 
	G ½	13	3.8	0.2...16	0.54	221871 	221872 	221873 
	G ¾	13	3.8	0.2...16	0.59	221874 	221875 	221876 
	G ¾	20	8.5	0.2...16	0.89	221877 	221878 	221879 
	G 1	20	8.5	0.2...16	1.0	221880 	221881 	221882 
	G 1	25	12	0.2...16	1.3	221883 	221884 	221885 
	G 1¼	25	12	0.2...16	1.5	221886 	221887 	221888 
	G 1¼	40	23	0.2...16	2.7	270133 	270134 	270135 
	G 1½	40	30	0.2...16	3.0	221889 	221890 	221891 
	G 2	40	30	0.2...16	3.2	221892 	221893 	221894 
	G 2	50	40	0.2...16	4.5	253168 	253169 	253170 
	G 2½	50	40	0.2...16	5.2	253171 	253172 	253173 
Seal material EPDM, polyamide coil, medium temperature - 30 °C... + 90 °C								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	322517 	322518 	322519 
	G ⅜	10	1.9	0.2...16	0.40	322520 	322521 	322522 
	G ⅝	13	3.8	0.2...16	0.58	221895 	221896 	221897 
	G ½	13	3.8	0.2...16	0.54	221898 	221899 	221900 
	G ¾	13	3.8	0.2...16	0.59	221901 	221902 	221903 
	G ¾	20	8.5	0.2...16	0.89	221904 	221905 	221906 
	G 1	20	8.5	0.2...16	1.0	221907 	221908 	221909 
	G 1	25	12	0.2...16	1.3	221910 	221911 	221912 
	G 1¼	25	12	0.2...16	1.5	221913 	221914 	221915 
	G 1¼	40	23	0.2...16	2.7	270136 	270137 	270138 
	G 1½	40	30	0.2...16	3.0	221916 	221917 	221918 
	G 2	40	30	0.2...16	3.2	221919 	221920 	221921 
	G 2	50 ^{1.)}	40	0.2...16	4.5	253162 	253163 	253164 
	G 2½	50 ^{1.)}	40	0.2...16	5.2	253165 	253166 	253167 

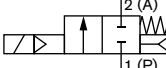
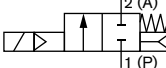
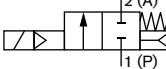
1.) Drinking water approved acc. to KTW and W270

Type 6281

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Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]		
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50	230/50
Seal material NBR, epoxy coil, medium temperature - 10 °C... + 80 °C								
B, solenoid valve 2/2 way Servo-controlled Normally opened 	G ¼	10	1.5	0.2...16	0.43	322523 	322524 	322525 
	G ⅜	10	1.9	0.2...16	0.40	322526 	322527 	322528 
	G ⅝	13	3.8	0.2...16	0.58	221923 	221924 	221925 
	G ½	13	3.8	0.2...16	0.54	221926 	221928 	221929 
	G ¾	13	3.8	0.2...16	0.59	221930 	221931 	221933 
	G ¾	20	8.5	0.2...16	0.89	221934 	221935 	221936 
	G 1	20	8.5	0.2...16	1.0	221937 	221938 	221939 
	G 1	25	12	0.2...16	1.3	221940 	221941 	221942 
	G 1¼	25	12	0.2...16	1.5	221943 	221944 	221945 
	G 1¼	40	23	0.2...16	2.7	270139 	270140 	270141 
	G 1½	40	30	0.2...16	3.0	221946 	221947 	221948 
	G 2	40	30	0.2...16	3.2	221949 	221950 	221951 
	G 2	50	40	0.2...16	4.5	253174 	253175 	253176 
	G 2½	50	40	0.2...16	5.2	253177 	253178 	253179 

Standard version with stainless steel body

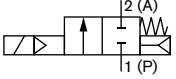
Circuit function	Port connection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]		
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50 - 60	230/50 - 60
Seal material NBR, polyamide coil, medium temperature - 10 °C... + 80 °C								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	322529 	322530 	322531 
	G ⅜	10	1.9	0.2...16	0.40	322532 	322533 	322534 
	G ½	13	3.8	0.2...16	0.54	221968 	221969 	221970 
	G ¾	20	8.5	0.2...16	0.86	221971 	221972 	221973 
	G 1	20	8.5	0.2...16	0.97	221974 	221975 	221976 
	G 1	25	12	0.2...16	1.3	221977 	221978 	221979 
	G 1¼	25	12	0.2...16	1.4	221980 	221981 	221982 
	G 1½	40	30	0.2...16	2.8	221983 	221984 	221985 
G 2	40	30	0.2...16	3.0	221986 	221987 	221988 	
Seal material FKM, epoxy coil, medium temperature 0 °C... + 120 °C								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	322535 	322536 	322537 
	G ⅜	10	1.9	0.2...16	0.40	322538 	322539 	322540 
	G ½	13	3.8	0.2...16	0.54	221989 	221990 	221991 
	G ¾	20	8.5	0.2...16	0.86	221992 	221993 	221994 
	G 1	20	8.5	0.2...16	0.97	221995 	221996 	221997 
	G 1	25	12	0.2...16	1.3	221998 	221999 	222000 
	G 1¼	25	12	0.2...16	1.4	222001 	222002 	222003 
	G 1½	40	30	0.2...16	2.8	222004 	222005 	222006 
G 2	40	30	0.2...16	3.0	222007 	222008 	222009 	
Seal material FKM, epoxy coil, medium temperature 0 °C... + 120 °C, with manual override								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	323894 	–	323968 
	G ⅜	10	1.9	0.2...16	0.40	323971 	–	323972 
	G ½	13	3.8	0.2...16	0.54	323973 	–	323975 
	G ¾	20	8.5	0.2...16	0.86	323977 	–	323978 
	G 1	25	12	0.2...16	1.3	323979 	–	323980 
	G 1¼	25	1.4	0.2...16	1.4	323982 	–	323984 
	G 1½	40	30	0.2...16	2.8	323986 	–	323987 
	G 2	40	30	0.2...16	3.0	323988 	–	323989 

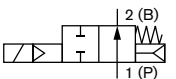
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Type 6281

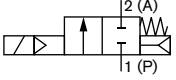
bürkert

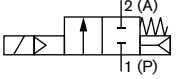
Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]		
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50 - 60	230/50 - 60
Seal material EPDM, polyamide coil, medium temperature -30 °C... +90 °C								
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.43	322541 	322542 	322543 
	G ⅜	10	1.9	0.2...16	0.40	322544 	322545 	322546 
	G ½	13	3.8	0.2...16	0.54	222010 	222011 	222012 
	G ¾	20	8.5	0.2...16	0.86	222013 	222014 	222015 
	G 1	20	8.5	0.2...16	0.97	222016 	222017 	222018 
	G 1	25	12	0.2...16	1.3	222019 	222020 	222021 
	G 1¼	25	12	0.2...16	1.4	222022 	222023 	222024 
	G 1½	40	30	0.2...16	2.8	222025 	222026 	222027 
	G 2	40	30	0.2...16	3.0	222028 	222029 	222031 

Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]		
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50	230/50
Seal material FKM, epoxy coil, medium temperature 0 °C... + 120 °C								
B, solenoid valve 2/2 way Servo-controlled Normally opened 	G ¼	10	1.5	0.2...16	0.43	322547 	322548 	322549 
	G ⅜	10	1.9	0.2...16	0.40	322550 	322551 	322552 
	G ½	13	3.8	0.2...16	0.54	228387 	228388 	228389 
	G ¾	20	8.5	0.2...16	0.86	228390 	228391 	228392 
	G 1	25	12	0.2...16	1.3	228393 	228394 	228395 
	G 1¼	25	12	0.2...16	1.4	228396 	228397 	228398 
	G 1½	40	30	0.2...16	2.8	228399 	228400 	228401 
	G 2	40	30	0.2...16	3.0	228402 	228403 	228404 

Explosion proofed version ATEX and IECEx, electrical connection with 3 m cable**Note:**

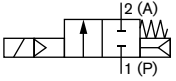
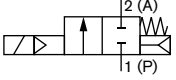
- The maximum fluid temperature must not in any case exceed the permissible temperature class (T4 135 °C, T5 100 °C, T6 85 °C), minus 5 K.
- Detailed information on the approvals can be found in the chapter **"3. Approvals"** on page 4.

Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	[kg]	024/UC	230/UC
Seal material NBR, brass body, medium temperature - 10 °C... +80 °C							
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.62	349656 𐀀	349658 𐀀
	G ⅜	10	1.9	0.2...16	0.59	349660 𐀀	349662 𐀀
	G ½	13	3.8	0.2...16	0.84	349690 𐀀	349696 𐀀
	G ¾	20	8.5	0.2...16	1.2	349717 𐀀	349719 𐀀
	G 1	25	12	0.2...16	1.7	349731 𐀀	349734 𐀀
	G 1¼	25	12	0.2...16	1.8	349737 𐀀	349739 𐀀
	G 1¼	40	23	0.2...16	3.0	349751 𐀀	349754 𐀀
	G 1½	40	30	0.2...16	3.3	349756 𐀀	349758 𐀀
	G 2	40	30	0.2...16	3.5	349760 𐀀	349762 𐀀
	G 2	50	40	0.2...16	4.8	349773 𐀀	349775 𐀀
	G 2½	50	40	0.2...16	5.5	349777 𐀀	349778 𐀀

Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	[kg]	024/UC	230/UC
Seal material FKM, stainless steel body, medium temperature 0 °C... +90 °C							
A, solenoid valve 2/2 way Servo-controlled Normally closed 	G ¼	10	1.5	0.2...16	0.62	349665 𐀀	349666 𐀀
	G ⅜	10	1.9	0.2...16	0.59	349669 𐀀	349670 𐀀
	G ½	13	3.8	0.2...16	0.84	349707 𐀀	349708 𐀀
	G ¾	20	8.5	0.2...16	1.2	349724 𐀀	349727 𐀀
	G 1	25	12	0.2...16	1.6	349742 𐀀	349744 𐀀
	G 1¼	25	12	0.2...16	1.7	349747 𐀀	349750 𐀀
	G 1½	40	30	0.2...16	3.1	349765 𐀀	349767 𐀀
	G 2	40	30	0.2...16	3.3	349770 𐀀	349771 𐀀

Explosion proofed version ATEX and IECEx, electrical connection with terminal box**Note:**

- The maximum fluid temperature must not in any case exceed the permissible temperature class (T4 135 °C, T5 100 °C, T6 85 °C), minus 5 K.
- Detailed information on the approvals can be found in the chapter **"3. Approvals"** on page 4.

Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	[kg]	024/UC	230/UC
Seal material NBR, brass body, medium temperature - 10 °C... +80 °C							
A, solenoid valve 2/2 way Servo-controlled Normally closed ^{1.)} 	G ¼	10	1.5	0.2...16	0.62	349657 	349659 
	G ⅜	10	1.9	0.2...16	0.59	349661 	349663 
	G ½	13	3.8	0.2...16	0.84	349691 	349697 
	G ¾	20	8.5	0.2...16	1.2	349718 	349720 
	G 1	25	12	0.2...16	1.7	349733 	349735 
	G 1¼	25	12	0.2...16	1.8	349738 	349740 
	G 1¼	40	23	0.2...16	3.0	349753 	349755 
	G 1½	40	30	0.2...16	3.3	349757 	349759 
	G 2	40	30	0.2...16	3.5	349761 	349763 
G 2	50	40	0.2...16	4.8	349774 	349776 	
Seal material FKM, stainless steel body, medium temperature 0 °C... +90 °C							
A, solenoid valve 2/2 way Servo-controlled Normally closed ^{1.)} 	G ¼	10	1.5	0.2...16	0.62	349664 	349667 
	G ⅜	10	1.9	0.2...16	0.59	349668 	349671 
	G ½	13	3.8	0.2...16	0.84	349705 	349709 
	G ¾	20	8.5	0.2...16	1.2	349725 	349728 
	G 1	25	12	0.2...16	1.6	349743 	349745 
	G 1¼	25	12	0.2...16	1.7	349748 	349749 
	G 1½	40	30	0.2...16	3.1	349766 	349768 
	G 2	40	30	0.2...16	3.3	349769 	349772 

1.) Only with Epoxy coil available

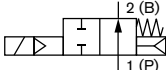
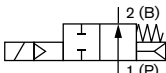
Type 6281

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Compressor relief valve with brass body

Note:

- Please note that the cable plug has to be ordered separately, see “8.4. Ordering chart accessories” on page 16 or separate datasheet **Type 2518** ►.
- In deenergized state the valve is open. The medium also flows off via the vent on the coil.

Circuit function	Port con- nection	Orifice	K _v value water	Pressure range	Weight	Article no. per voltage/frequency [V/Hz]			
		[mm]	[m³/h]	[bar]	[kg]	024/DC	024/50 - 60	110/50 - 60	230/50 - 60
Seal material FKM, polyamide coil, medium temperature 0 °C... + 90 °C, DN10_CFO5									
B, solenoid valve 2/2 way Servo-controlled Normally opened	G ¾	10	1.9	0.2...16	0.43	330985 	330986 	330987 	330988 
	G ½	10	1.9	0.2...16	0.40	330989 	331007 	331008 	331009 
									
Seal material FKM, polyamide coil, medium temperature 0 °C... + 90 °C, DN13									
B, solenoid valve 2/2 way Servo-controlled Normally opened	G ¾	13	3.6	0.5...16	0.58	310663 	310662 	310661 	310659 
	G ½	13	3.6	0.5...16	0.54	310667 	310666 	310665 	310664 
									

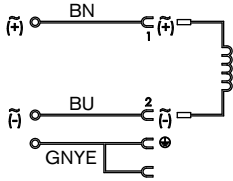
Further versions on request			
	Material Brass dezincification resistant		Temperature • EPDM version up to +100 °C with epoxy coil • FKM version up to +120 °C with epoxy coil
	Process connection NPT, Rc		Approval • European drinking water approval acc. to KTW W270 (Var. code PF23) • VDE sign permission acc. to DIN EN 60730 (Var. code PW01) • UL-Zulassung UL429 (Var. Code PE94/PE95) • Schiffsahrtzulassung DNV-GL (Var. Code PD07)
	Voltage Further voltages		

8.4. Ordering chart accessories

Cable plug Type 2513, form A acc. to DIN EN 175301 -803

Note:

- The Cable plug Type 2513 meets the requirements of ATEX category 3 GD.
- For more information on the cable plug, see data sheet **Type 2513** ►.

Cable plug	circuit diagram	Cable length [mm]	Article no.
		12000	260893 𐀀
		5000	260892 𐀀
		3000	260891 𐀀
		300	260890 𐀀

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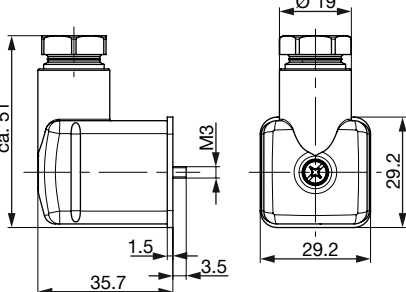
Type 6281

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

Note:

Further versions see data sheet **Type 2518** ►

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry (AC/DC)	0...250 V AC/DC	314802 
		With LED (AC/DC)	12...24 V AC/DC	314812 
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820 
		With rectifier, LED and varistor	12...24 V AC/DC	314816 

Cable glands for ATEX/IECEx terminal box

Note:

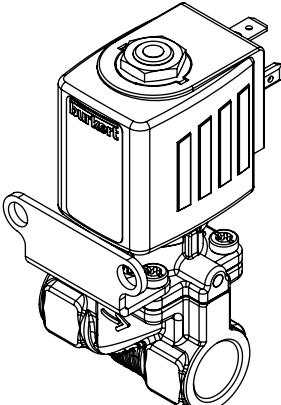
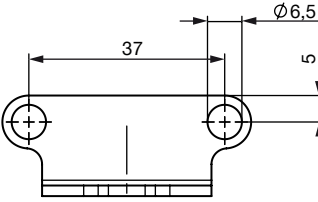
- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at surcharge.
- For more information on Ex cable glands, see **“6.1. Cable glands for ATEX/IECEx terminal box” on page 12.**
- For more information on Special wrench see **“7.2. Special tool to turn the terminal box” on page 10.**

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

1.) Cable diameter

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

Mounting set for DN10

Mounting set	Dimensions	Description	Article no.
		Bestehend aus Befestigungswinkel und Schrauben	365730 

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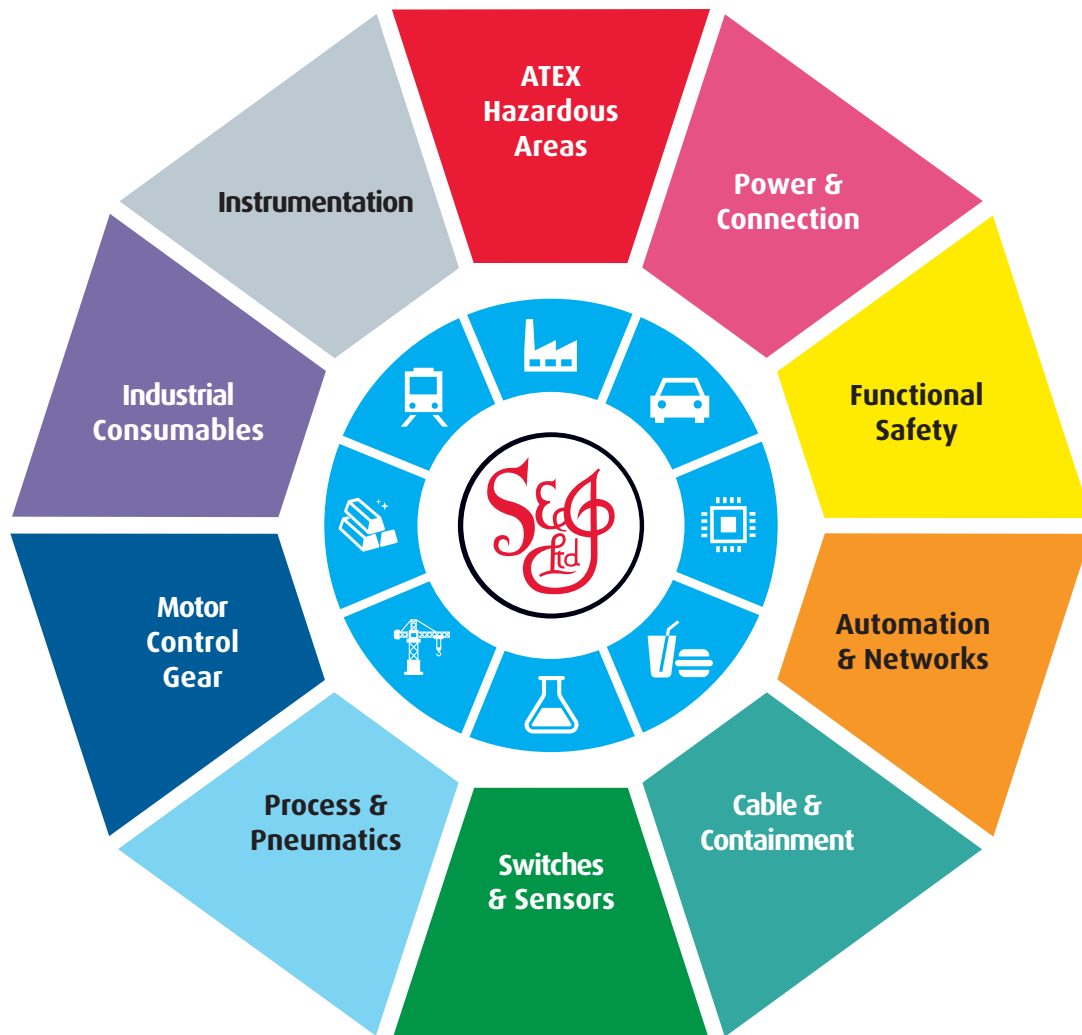
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