

Direct-acting 2/2 way plunger valve

- Direct-acting, powerful valve with diameter of up to DN 13
- Vibration-proof, bolted coil system
- Increased leak-tightness with welded plunger guide tube
- Explosion proof versions
- High pressure variants for gases and liquids

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 2513 ▶
 Cable plug according
 to DIN EN 175301-803
 connector shape A

Type description

Valve 6027 is a direct-acting plunger valve. The stopper and plunger guide tube are welded together to enhance pressure resistance and leak-tightness. Various seal material combinations are available depending on the application. The coils are moulded with chemically resistant epoxy. An optional sliding ring bearing increases the service life with dry gases. Special seal technology is used for high-pressure applications. In combination with a plug in accordance with DIN EN 175301 - 803 Form A, the valves satisfy protection class IP65. Stainless steel valves satisfy NEMA 4X.

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1. General technical data

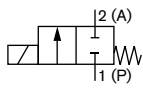
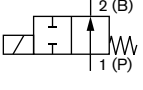
Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 9.
Material	
Seal	FKM, EPDM, NBR, PTFE and PEEK
Body	Brass or stainless steel 1.4404
Coil	Epoxy
Nominal diameter	DN 1.0...DN 13.0
Circuit function	A and B Detailed information can be found in chapter "2. Circuit functions" on page 5.
Thermal insulation class of solenoid coil	Epoxy class H
Performance data	
Switching time^{1.)}	
Switching time AC	Opening: 10...30 ms Closing: 50...80 ms
Switching time DC	Opening: 20...30 ms Closing: 50...80 ms
Electrical data	
Duty cycle / single valve	100 % continuous rating
Voltage	24 V/DC, 24 V/50 Hz, 230 V/50 Hz, others on request
Voltage tolerance	± 10 %
Medium data	
Operating medium^{2.)}	
Standard	Vacuum, neutral gases and liquids (e.g. compressed air, town gas, natural gas, water, hydraulic oil, petrol) and slightly aggressive medium, Hot liquids and steam
Oil burner version (PF15)	Heating oil (EL, L, M, S) acc. to DIN 51603 part 1...6, shipping fuels acc. to ISO 8217 Only with stainless steel body: Fatty acid methyl ester (FAME) acc. to DIN EN 14213, rape-seed oil acc. to DIN V 51605
Medium temperature	
Standard version ^{3.)}	Seat seal/external seal FKM/FKM: -10 °C...+140 °C EPDM/EPDM: -30 °C...+120 °C NBR/NBR: -10 °C...+80 °C PTFE/FKM: -10 °C...+140 °C PTFE/PEEK: -40 °C...+180 °C
High pressure version up to 250 bar (MX32) or 160 bar (MX31)	PEEK/FKM: -10 °C...+80 °C PEEK/EPDM: -30 °C...+80 °C PEEK/PEEK: -40 °C...+80 °C
Approval DIN EN 161 (PO19)	NBR/NBR: 0 °C...+80 °C FKM/FKM: 0 °C...+80 °C
Oil burner version (PF15)	0 °C...160 °C
Viscosity (max.)	21 mm ² /sec 1.6...76 cSt (DN 2, 2 NC 1.6...22 cSt) (Oil burner version PF15)
Approvals and certificates	
DIN CERTCO registration (Oil burner version PF15)	DN 2.2 (NO) Reg. No.: 5S255 DN 3.0 (NC) Reg. No.: 5S255 DN 3.5 (NC) Reg. No.: 5S255 DN 10.0 (NC) Reg. No.: 5S255
Degree of protection	IP65 with cable plug
Process/Port connection & communication	
Electrical connection	Acc. to DIN EN 175 301 - 803 Form A for cable plug Type 2508 (see "Cable plug Type 2518, form A acc. to DIN EN 175301 - 803" on page 26)
Port connection	G ¼, G ⅜, G ½, G ⅝ (NPT and RC on request) G ¼, G ⅜, G ½, G ⅝ (Oil burner version PF15)
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature (max.)	55 °C -15 °C...+60 °C (Oil burner version PF15)

1.) Switching time [ms]: Measured at valve outlet at 6 bar and +20 °C, opening: pressure build-up 0...90 %, closing: pressure relief 100...10 %

2.) Medium resistance according to material combination

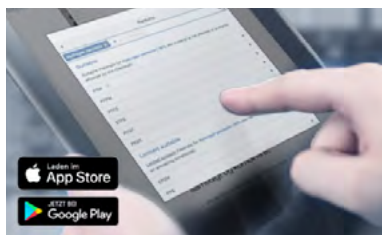
3.) Circuit function normally open in conjunction with AC voltage is limited to max. 100 °C

2. Circuit functions

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

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



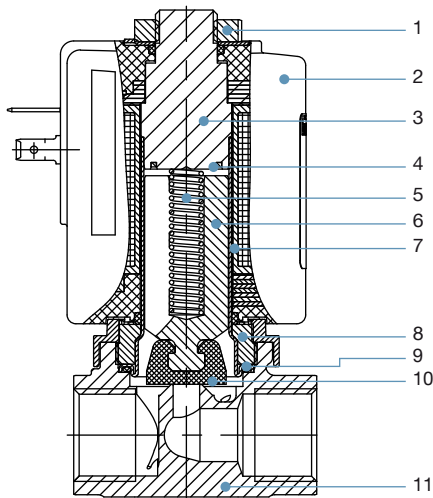
Bürkert resistApp – Chemical Resistance Chart

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](#)

3.2. Material specifications standard version

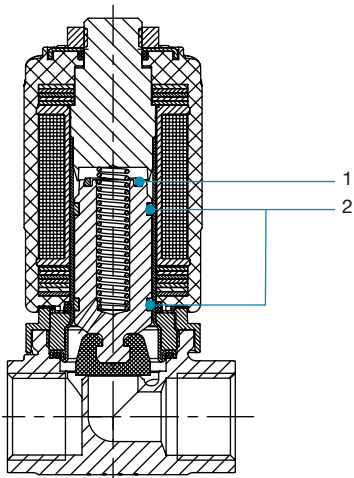
Elastomer seal version up to 30 bar



No.	Element	Material
1	Locknut	DIN 176 thick-film passivated or stainless steel
2	Coil	Epoxy
3	Stopper	Stainless steel 1.4113
4	Shading ring	Copper (brass body) Silver (stainless steel body)
5	Spring	Stainless steel 1.4310
6	Plunger	Stainless steel 1.4113
7	Guide tube	Stainless steel 1.4303
8	Nipple	Brass, stainless steel 1.4305
9	Seal	FKM, PEEK (EPDM on request)
10	Seat seal	FKM (EPDM on request)
11	Housing	Brass, stainless steel 1.4404 (CF3M)

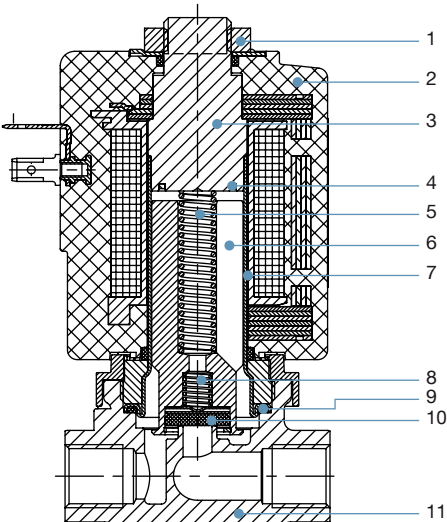
Version with increased lifespan (NF39)

Note:
All parts are the same as standard, but with two additional parts as follows.



No.	Element	Material
1	Damping ring	PEEK
2	Glider	PTFE carbon filled

Version PTFE pendulum seal up to 100 bar

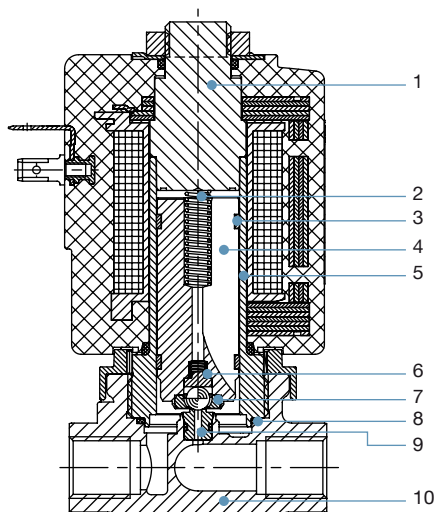


No.	Element	Material
1	Locknut	DIN 176 thick-film passivated or stainless steel
2	Coil	Epoxy
3	Stopper	Stainless steel 1.4113
4	Shading ring	Silver (stainless steel body)
5	Spring	Stainless steel 1.4310
6	Core	Stainless steel 1.4113
7	Guide tube	Stainless steel 1.4303
8	Spring	Stainless steel 1.4310
9	Seat	FKM, PEEK (EPDM on request)
10	Seat seal	PTFE pendulum seal
11	Housing	Brass, stainless steel 1.4404 (CF3M)

3.3. Materials high pressure version up to 250 bar (MX32) or 160 bar (MX31)

Note:

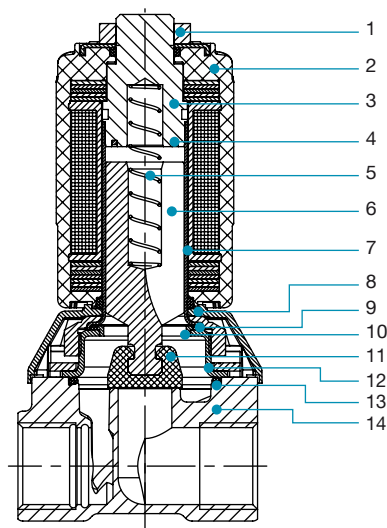
High pressure version from 135 bar, circuit function A



No.	Element	Material
1	Stopper	1.4523
2	Compression springs	1.4310
3	Glider	PTFE
4	Plunger	Stainless steel 1.4113
5	Armature guide tube	1.4571
6	Ball seat	1.4305
7	Seat seal	Ceramic ball
8	O-rings	FKM
9	Seat	PEEK
10	Housing	Stainless steel 1.4404 (CF3M) only in ¼" G and NPT

3.4. Materials version DN 13

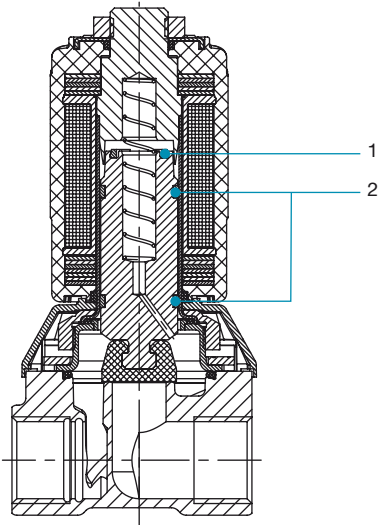
Version DN 13 standard



No.	Element	Material
1	Locknut	DIN 176 thick-film passivated or stainless steel
2	Coil	Epoxy
3	Stopper	Stainless steel 1.4113
4	Shading ring	Copper (brass body) Silver (stainless steel body)
5	Spring	Stainless steel 1.4310
6	Core	Stainless steel 1.4113
7	Guide tube	Stainless steel 1.4303
8	Hood	PA6
9	Seal	FKM, EPDM
10	Support ring	PPS Fortron
11	Core seal	FKM, EPDM, NBR
12	Cover	DN 10...DN 25 stainless steel 1.4301
13	Seal	FKM, EPDM
14	Housing	Brass, stainless steel 1.4408

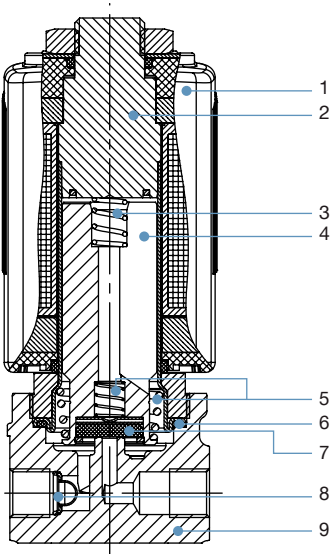
Version DN 13 with increased lifespan (NF39)

Note:
All parts are the same as standard, but with two additional parts as follows.



No.	Element	Material
1	Damping ring	PEEK
2	Glider	PTFE carbon filled

3.5. Materials oil burner version (PF15)

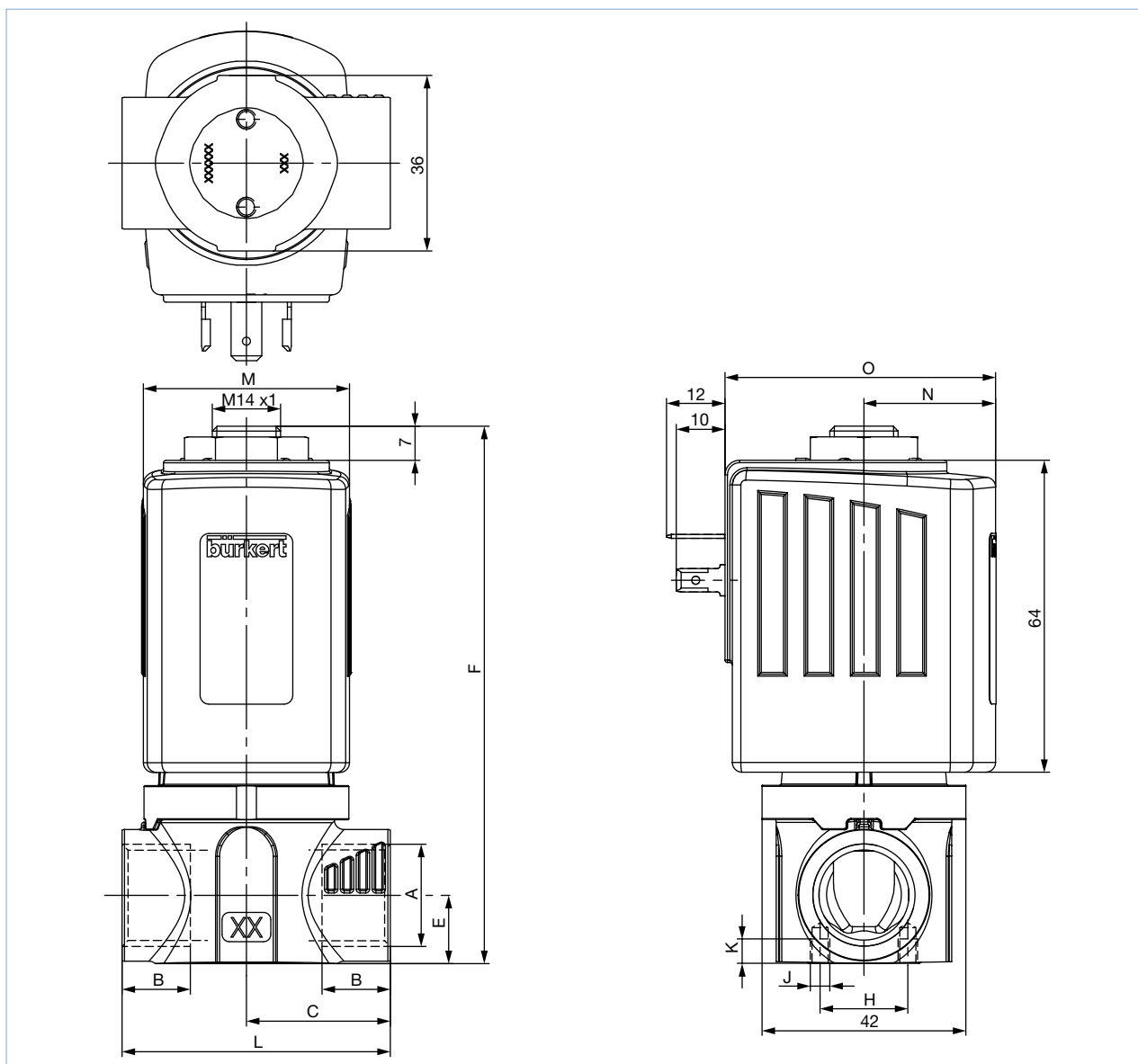


No.	Element	Material
1	Coil	Epoxy
2	Stopper	1.4113
3	Spring	1.4310
4	Plunger	1.4105
5	Spring	1.4310
6	Seal ring	FKM
7	Seat seal	PTFE
8	Strainer	Stainless steel only DN 3 and DN 3.5
9	Valve body	Brass

4. Dimensions

4.1. Standard version

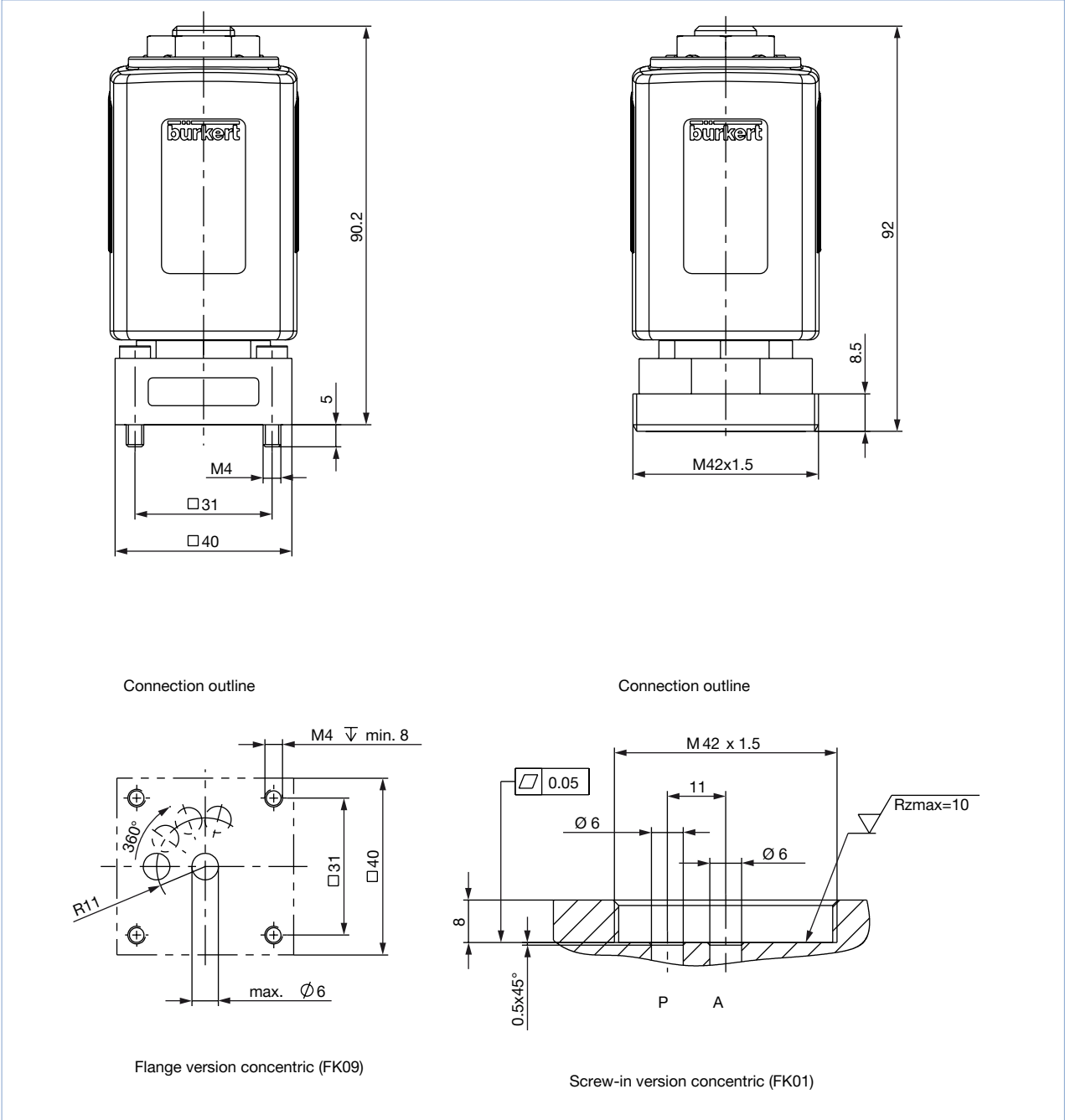
Threaded version



Version	L	A	B	C	E	F	H	J	K
Standard	55	Rc ½	13.2	29.5	14	110	18	M4	5
		NPT ½	13.7						
		G ½	14						
	55	Rc ¾	10.1	27.5	12	108	18	M4	5
		NPT ¾	10.3						
		G ¾	12						
	55	Rc ¼	9.7	27.5	10	105	18	M4	5
		NPT ¼	10						
		G ¼	12						
Version AG39	75	G ½	14.5	37.5	14	110	–	–	–
	75	G ¾	12	37.5	14	110	–	–	–
Version AG48	40	G ¼	12	20	10	105	15	M5	7
	40	G ⅜	8	20	10	105	15	M5	7

Coil size	H	J	K
L	65	37.5	72
K	42	27	55.5

Flange and screw-in version



The technical drawings illustrate the Burkert 1250 series solenoid valve in two configurations: Connection outline and Flange version high pressure (FB50).

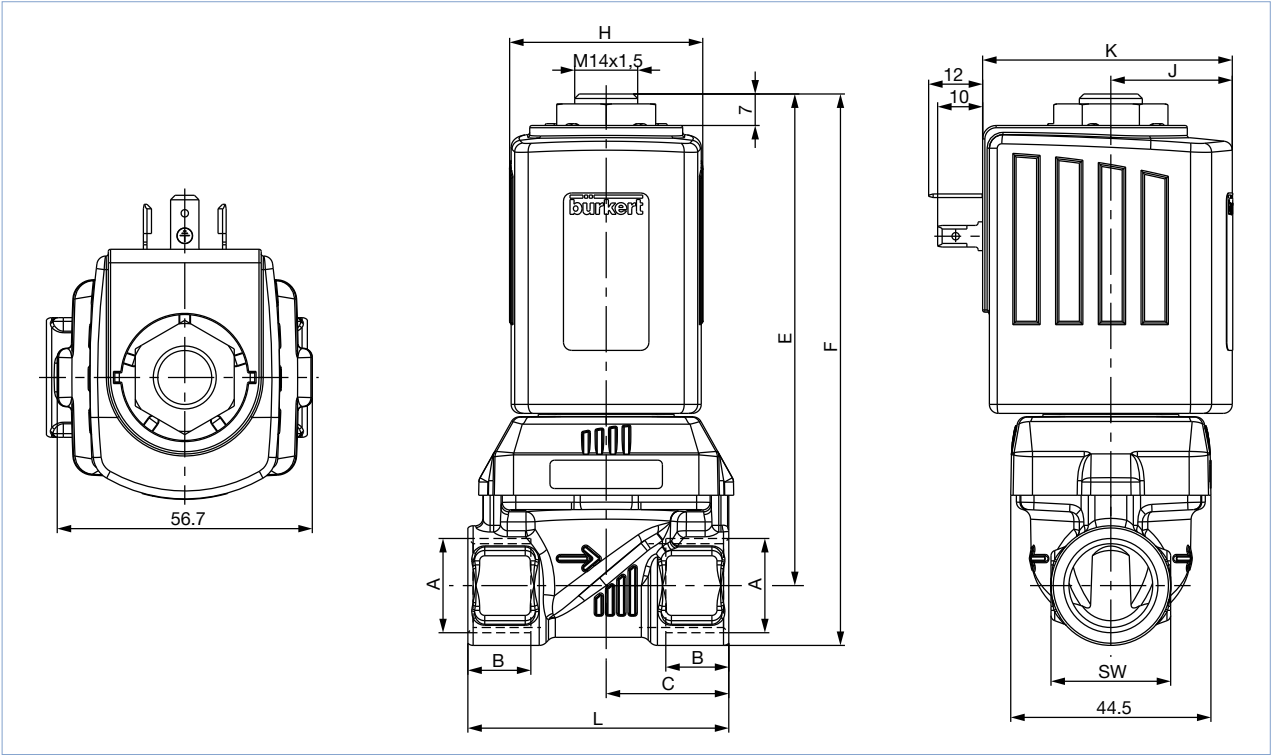
Connection outline (Left): This view shows the front and side profiles of the valve. The front view indicates a total height of 100.2 mm and a base width of 45 mm. The side view shows a height of 102.2 mm and a base diameter of 50 mm. Key features include the Burkert logo, a SW 40 handle, and an M30 x 1.5 thread. The base is marked with M6 and 33 dimensions.

Connection outline M 2:1 (Right): This view shows the front and side profiles of the valve at a 2:1 magnification. The front view indicates a total height of 103.5 mm and a base width of 45 mm. The side view shows a height of 102.2 mm and a base diameter of 50 mm. Key features include the Burkert logo, a SW 40 handle, and an M30 x 1.5 thread. The base is marked with M6 and 33 dimensions.

Flange version high pressure (FB50) (Left): This view shows the front and side profiles of the valve. The front view indicates a total height of 100.2 mm and a base width of 45 mm. The side view shows a height of 102.2 mm and a base diameter of 50 mm. Key features include the Burkert logo, a SW 40 handle, and an M30 x 1.5 thread. The base is marked with M6 and 33 dimensions.

Screw-in version high pressure (FK12) (Right): This view shows the front and side profiles of the valve. The front view indicates a total height of 100.2 mm and a base width of 45 mm. The side view shows a height of 102.2 mm and a base diameter of 50 mm. Key features include the Burkert logo, a SW 40 handle, and an M30 x 1.5 thread. The base is marked with M6 and 33 dimensions.

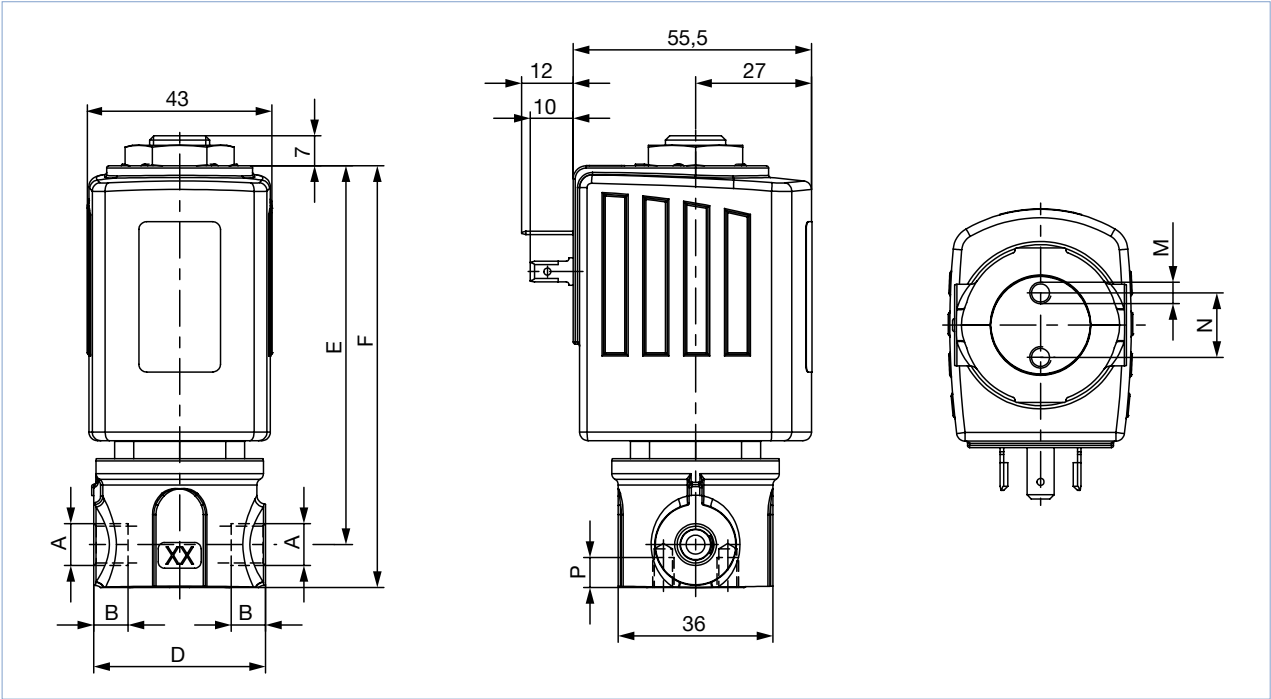
4.2. Version DN 13



Materials	A	B	C	E	F	L	SW
Brass / Stainless steel	Rc ¾	14.5	32.5	111.3	127.3	65	32
	NPT ¾	14					
	G ¾	16					
Stainless steel	Rc ½	13.2	32.5	109.3	122.6	65	27
	NPT ½	13.7					
	G ½	14					
Brass	Rc ½	13.2	27.25	109.3	122.6	58	27
	NPT ½	13.7					
	G ½	14					

Coil size	H	J	K
L	65	37.5	72
K	42	27	55.5

4.3. Oil burner version (PF15)

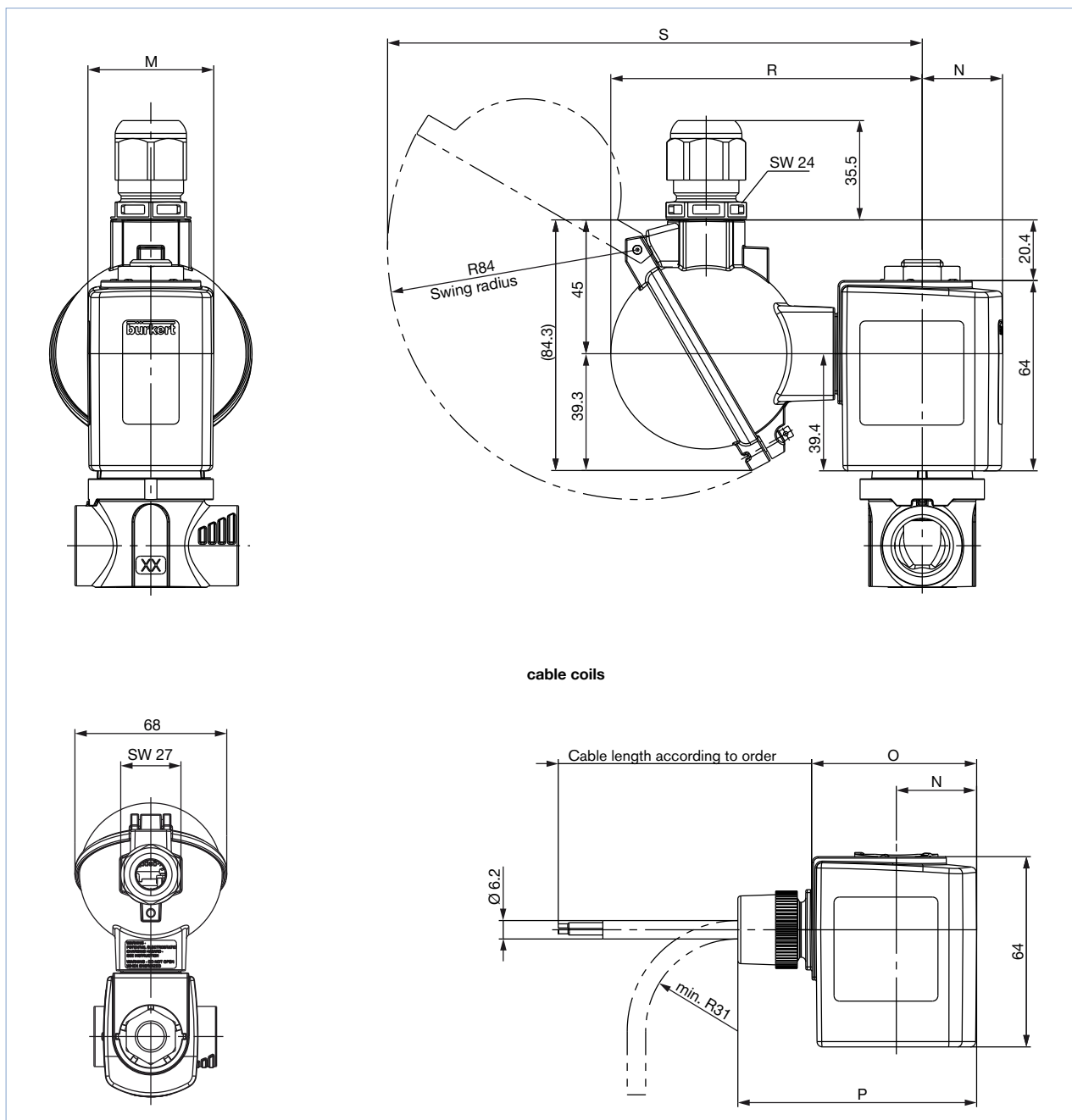


DN	Function	A	B	D	E	F	M	N	P	SW
2.2	NO	G 1/8	8	40	88.2	98.2	M5	15	7	-
	NO	G 1/4	12							
3	NC	G 1/8	8	40	88.2	98.2	M5	15	7	-
3.5	NC	G 1/4	12	40	88.2	98.2	M5	15	7	-
10	NC	G 3/8	12	75	89.2	103.2	-	-	-	27
	NC	G 1/2	14.5							

4.4. ATEX/IECEx version

Note:

Dimensions apply exclusively to ATEX/IECEx version of the solenoid coil. For other dimensions see previous versions.



Coil dimensions						
Coil size	M	N	O	P	R	S
L	65	37.5	72	97	110.8	185.8
K	42	27	55.5	80.3	104.8	179.8

5. Performance specifications

5.1. Power consumption

Coil size	AC			DC		KD coil AC/DC ^{1.)}		
	Inrush power	Holding power		Cold performance	Warm performance	Cold performance inrush power	Cold performance holding power	Warm performance holding power
[mm]	[VA]	[VA]	[W]	[W]	[W]	[W] 500 ms	[W]	[W]
42 (K)	150	37	16	21	16	85	8.5	7
42 (K) ATEX	–	–	–	15	12	44	6.5	5.5
65 (L)	–	–	–	28	21	–	–	–

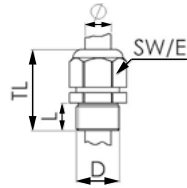
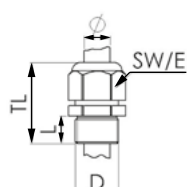
1.) "Kick and Drop" coil (KD coil): Integrated electronics for short-term power increase and reduction in dual coil technology

6. Product accessories

6.1. Cable glands for ATEX/IECEx terminal box

Note:

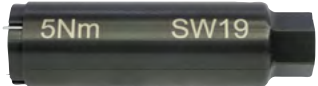
- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at a surcharge, see ["7.11. Ordering chart accessories" on page 26](#).
- This special tool is not supplied with the valve (see ["Cable glands for ATEX/IECEx terminal box" on page 27](#))

Description	Ex approvals		Dimensions										
	Certification	Identification											
Ex cable gland, Brass, nickel-plated, 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												

6.2. Special tool to turn the junction box

Note:

- This special tool is not supplied with the valve (see ["7.11. Ordering chart accessories" on page 26](#)).
- This special tool can only be used with ATEX AC10 coils.

Set SC02-AC10	
	Set includes: - Special wrench - Service manual

7. Ordering information

7.1. 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.

[Order online now](#)

7.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

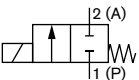
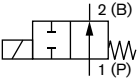
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

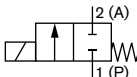
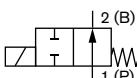
7.3. Ordering chart standard version elastomer seal up to 30 bar

Note:

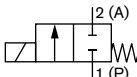
Further versions with alternative voltages, NPT or RC inner thread, as flange or screw-in version, seal material EPDM/EPDM available on request.

Circuit function	Port connection	Orifice [mm]	K _v value water [m³/h]	Max. medium pressure [bar]						Article no. acc. to voltage/frequency [V/Hz]		
				Water		Oil		Air		24/DC	24/50	230/50
				DC	AC	DC	AC	DC	AC			
Housing material brass, G-inner thread, seal material FKM/FKM												
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	3.0	0.28	0...30	0...25	0...30	0...25	0...30	0...30	178295 	178296 	178297 
		4.0	0.54	0...16	0...16	0...16	0...16	0...25	0...16	178299 	178300 	178301 
		5.0	0.73	0...8	0...10	0...6	0...10	0...8	0...10	178303 	178304 	178305 
		6.0	0.95	0...4	0...6	0...3	0...6	0...4	0...6	178307 	178308 	178309 
	G ½	3.0	0.28	0...30	0...25	0...30	0...25	0...30	0...30	178311 	178312 	178313 
		4.0	0.54	0...16	0...16	0...16	0...16	0...25	0...16	178315 	178316 	178317 
		5.0	0.73	0...8	0...10	0...6	0...10	0...8	0...10	178319 	178320 	178321 
		6.0	0.95	0...4	0...6	0...3	0...6	0...4	0...6	178323 	178324 	178325 
	G ¾	8.0	1.6	0...2	0...3	0...2	0...3	0...2	0...3.5	386836 	178328 	178329 
		6.0	0.95	0...4	0...6	0...3	0...6	0...4	0...6	178331 	178332 	178333 
		8.0	1.6	0...2	0...3	0...2	0...3	0...2	0...3.5	386839 	178336 	178337 
		10.0	1.8	0...1.5	0...2	0...1.5	0...2	0...1.5	0...2	261254 	178340 	178341 
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	3.0	0.28	0...16	0...16	0...16	0...16	0...16	0...16	20011134 	X	20011136 
		4.0	0.54	0...10	0...10	0...10	0...10	0...10	0...10	20011146 	X	20011147 
		6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	20011180 	X	20011181 
	G ½	6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	20011183 	20011182 	20011184 
		8.0	1.6	0...3	0...3	0...3	0...3	0...3	0...3	228500 	228501 	228502 
	G ¾	8.0	1.6	0...3	0...3	0...3	0...3	0...3	0...3	211916 	228503 	228504 
		10.0	1.8	0...2	0...2	0...2	0...2	0...2	0...2	210436 	219530 	210438 

X: on request

Circuit function	Port connec- tion	Orifice	K _v value water	Max. medium pressure [bar]						Article no.		
		[mm]	[m³/h]	Water		Oil		Air		acc. to voltage/frequency [V/Hz]		
				DC	AC	DC	AC	DC	AC	24/DC	24/50	230/50
Housing material stainless steel, G-inner thread, seal material FKM/FKM												
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	3.0	0.28	0...30	0...25	0...30	0...25	0...30	0...30	178239 	178240 	178241 
		4.0	0.54	0...16	0...16	0...16	0...16	0...25	0...16	178243 	178244 	178245 
		5.0	0.73	0...8	0...10	0...6	0...10	0...8	0...10	178247 	178248 	178249 
		6.0	0.95	0...4	0...6	0...3	0...6	0...4	0...6	178251 	178252 	178253 
	G ⅜	3.0	0.28	0...30	0...25	0...30	0...25	0...30	0...30	178255 	178256 	178257 
		4.0	0.54	0...16	0...16	0...16	0...16	0...25	0...16	178259 	178260 	178261 
		5.0	0.73	0...8	0...10	0...6	0...10	0...8	0...10	178263 	178264 	178265 
		6.0	0.95	0...4	0...6	0...3	0...6	0...4	0...6	178267 	178268 	178269 
		8.0	1.6	0...2	0...3	0...2	0...3	0...2	0...3.5	386840 	178272 	178273 
	G ½	6.0	0.95	0...4	0...6	0...3	0...6	0...4	0...6	178275 	178276 	178277 
		8.0	1.6	0...2	0...3	0...2	0...3	0...2	0...3.5	298596 	178280 	178281 
		10.0	1.8	0...1.5	0...2	0...1.5	0...2	0...1.5	0...2	386841 	178284 	178285 
		12.0	2	0...0.8	0...1.2	0...0.8	0...1.2	0...0.8	0...1.5	245067 	178288 	178289 
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	3.0	0.28	0...16	0...16	0...16	0...16	0...16	0...16	20011137 	X	20011139 
		4.0	0.54	0...10	0...10	0...10	0...10	0...10	0...10	20011151 	X	X
		6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	20011189 	X	X
	G ⅜	6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	20011192 	20011191 	20011193 
		8.0	1.6	0...3	0...3	0...3	0...3	0...3	0...3	230258 	230259 	230260 
	G ½	8.0	1.6	0...3	0...3	0...3	0...3	0...3	0...3	230261 	230262 	230263 
		10.0	1.8	0...2	0...2	0...2	0...2	0...2	0...2	225248 	230264 	230265 
		12.0	2	0...1	0...1	0...1	0...1	0...1	0...1	210441 	230266 	210321 

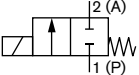
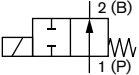
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Circuit function	Port connection	Orifice	K _v value water	Medium pressure KD coil 44/6.5 W max.	Article no. KD coil 44/6.5 W acc. to voltage/frequency [V/Hz]		Medium pressure KD coil 85/8.5 W max.	Article no. KD coil 85/8.5 W acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	24 V AC/DC	230 V AC	[bar]	24 V AC/DC	230 V AC
Housing material stainless steel, G-inner thread, seal material FKM/FKM									
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	4.0	0.54	0...30	386726 	386732 	0...30	–	–
		5.0	0.73	0...10	386727 	386733 	0...25	386739 	386745 
		6.0	0.95	0...6	386728 	386734 	0...14	386740 	386746 
	G ½	8.0	1.6	0...3	386729 	386735 	0...6	386741 	386747 
		10.0	1.8	0...2	386730 	386736 	0...3.5	386742 	386748 
		12.0	2	0...1.2	386731 	386737 	0...2	386743 	386749 

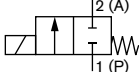
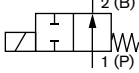
7.4. Ordering chart standard version pendulum seal up to 100 bar

Note:

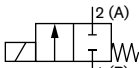
Further versions with alternative voltages, NPT or RC inner thread, as flange or screw-in version, seal material PTFE/FKM or PTFE/EPDM available on request.

Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]						Article no. acc. to voltage/frequency [V/Hz]			
		[mm]	[m³/h]	Water		Oil		Air					
				DC	AC	DC	AC	DC	AC	24/DC	24/50	230/50	
Housing material brass, G-inner thread, seal material PTFE/PEEK													
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	2.0	0.14	0...100	0...100	0...100	0...75	0...100	0...100	X	X	X	
		3.0	0.28	0...40	0...50	0...40	0...50	0...40	0...50	262435 	X	338571 	
		4.0	0.54	0...20	0...30	0...20	0...30	0...20	0...30	206367 	X	319934 	
	G ⅜	6.0	0.95	0...5	0...12	0...5	0...12	0...5	0...16	257403 	X	X	
		4.0	0.54	0...20	0...30	0...20	0...30	0...20	0...30	263995 	331984 	317310 	
		6.0	0.95	0...5	0...12	0...5	0...12	0...5	0...16	187966 	X	208842 	
	G ½	8.0	1.6	0...2	0...5	0...2	0...5	0...2	0...5	386842 	X	362254 	
		6.0	0.95	0...5	0...12	0...5	0...12	0...5	0...16	260425 	X	X	
		8.0	1.6	0...2	0...5	0...2	0...5	0...2	0...5	386843 	X	X	
	10.0	1.8	0...1.2	0...2	0...1.2	0...2	0...1.2	0...3	298916 	X	362210 		
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	2.0	0.14	0...30	0...30	0...30	0...30	0...30	0...30	X	X	X	
		3.0	0.28	0...16	0...16	0...16	0...16	0...16	0...16	0...16	20011131 	X	X
		4.0	0.54	0...10	0...10	0...10	0...10	0...10	0...10	0...10	X	X	20011140 
		6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	0...6	X	X	X
	G ⅜	4.0	0.54	0...10	0...10	0...10	0...10	0...10	0...10	0...10	X	X	X
		6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	0...6	20011160 	X	X
	G ½	6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	0...6	20011162 	X	X

X: on request

Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]						Article no. acc. to voltage/frequency [V/Hz]			
		[mm]	[m³/h]	Water		Oil		Air					
				DC	AC	DC	AC	DC	AC	24/DC	24/50	230/50	
Housing material stainless steel, G-inner thread, seal material PTFE/PEEK													
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	2.0	0.14	0...100	0...100	0...100	0...75	0...100	0...100	184689	271441	184690	
		3.0	0.28	0...40	0...50	0...40	0...50	0...40	0...50	247937	X	X	
		4.0	0.54	0...20	0...30	0...20	0...30	0...20	0...30	184692	230667	184693	
		6.0	0.95	0...5	0...12	0...5	0...12	0...5	0...16	300077	X	304305	
	G ⅜	4.0	0.54	0...20	0...30	0...20	0...30	0...20	0...30	292674	X	X	
		6.0	0.95	0...5	0...12	0...5	0...12	0...5	0...16	184695	202757	184696	
		8.0	1.6	0...2	0...5	0...2	0...5	0...2	0...5	386853	X	184699	
		G ½	6.0	0.95	0...5	0...12	0...5	0...12	0...5	0...16	259348	X	280481
	8.0		1.6	0...2	0...5	0...2	0...5	0...2	0...5	386854	X	X	
	10.0		1.8	0...1.2	0...2	0...1.2	0...2	0...1.2	0...3	386845	X	184702	
	12.0		2	0...0.8	0...1.2	0...0.8	0...1.2	0...0.8	0...2	242932	227982	184705	
	B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	1.5	0.07	0...60	0...60	0...60	0...60	0...60	0...60	20011122	X	20011123
2.0			0.14	0...30	0...30	0...30	0...30	0...30	0...30	20011130	X	X	
3.0			0.28	0...16	0...16	0...16	0...16	0...16	0...16	20011133	X	X	
4.0			0.54	0...10	0...10	0...10	0...10	0...10	0...10	20011141	X	223726	
6.0			0.95	0...6	0...6	0...6	0...6	0...6	0...6	20011163	X	X	
G ⅜		4.0	0.54	0...10	0...10	0...10	0...10	0...10	0...10	0...10	X	X	X
		6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	20011164	X	20011165	
G ½		6.0	0.95	0...6	0...6	0...6	0...6	0...6	0...6	0...6	X	X	X

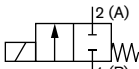
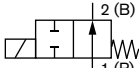
X: on request

Circuit function	Port connection	Orifice	K _v value water	Medium pres- sure KD coil 44/6.5 W max.	Article no.		Medium pres- sure KD coil 85/8.5 W max.	Article no.	
		[mm]	[m³/h]		[bar]	24 V AC/DC		230 V AC	[bar]
Housing material stainless steel, G-inner thread, seal material PTFE/PEEK									
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	3.0	0.28	0...50	386750 	386756 	0...80	386762 	386768 
		4.0	0.54	0...25	386751 	386757 	0...40	386763 	386769 
		6.0	0.95	0...6	386752 	386758 	0...12	386764 	386770 
	G ½	8.0	1.6	0...2.5	386753 	386759 	0...6	386765 	386771 
		10.0	1.8	0...1.5	386754 	386760 	0...3.5	386766 	386772 
		12.0	2	0...1.2	386755 	386761 	0...2	386767 	386773 

7.5. Ordering chart high pressure version up to 250 bar (MX32) or 160 bar (MX31)

Note:

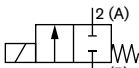
Further versions with alternative voltages, NPT or RC inner thread, as flange or screw-in version, seal material PEEK/EPDM available on request.

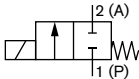
Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]						Article no. acc. to voltage/frequency [V/Hz]		
				Water		Oil		Air				
		[mm]	[m³/h]	DC	AC	DC	AC	DC	AC	24/DC	24/AC	230/AC
Housing material stainless steel, G-inner thread, seal material PEEK/FKM, cable head with integrated rectifier for AC part of delivery												
High pressure version with ball sealing												
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	1.0	0.03	0...250	0...250	0...250	0...250	0...250	0...250	265507 	–	267229 
				0...250	0...250	0...200	0...200	0...250	0...250	–	267226 	–
		1.5	0.07	0...150	0...150	0...80	0...80	0...150	0...150	267217 	–	267237 
				0...150	0...150	0...70	0...70	0...150	0...150	–	267234 	–
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	1.0	0.03	0...200	0...200	0...150	0...150	0...250	0...250	269823 	267219 	267239 
		1.5	0.07	0...100	0...100	0...80	0...80	0...130	0...130	269824 	267240 	271269 

7.6. Ordering chart DN 13 version with increased lifespan (NF39)

Note:

- Further versions with alternative voltages, stainless steel body, ¾" connection, seal material EPDM/EPDM on request.
- For all subsequent values, the nominal diameter is 13 mm and the K_v value water is 4 m³/h.

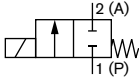
Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]						Article no. acc. to voltage/frequency [V/Hz]		
				Water		Oil		Air				
		[mm]	[m³/h]	DC	AC	DC	AC	DC	AC	24/DC	24/50	230/50
Housing material brass, seal material FKM/FKM												
For liquid and gaseous media												
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ½	13.0	4	0...0.15	0...0.15	0...0.15	0...0.15	0...0.15	0...0.15	315080 	315082 	315084 
				0...0.75	–	0...0.75	–	0...0.75	–	315088 	–	–
	NPT ½	13.0	4	0...0.15	0...0.15	0...0.15	0...0.15	0...0.15	0...0.15	315095 	315097 	315100 
				0...0.75	–	0...0.75	–	0...0.75	–	315102 	–	–

Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]						Article no. acc. to voltage/frequency [V/Hz]		
				Water		Oil		Air				
		[mm]	[m³/h]	DC	AC	DC	AC	DC	AC	24/DC	24/50	230/50
Only for liquid media												
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ½	13.0	4	–	0...0.75	–	0...0.75	–	0...0.75	–	315089 	315093 
	NPT ½	13.0	4	–	0...0.75	–	0...0.75	–	0...0.75	–	315103 	315105 

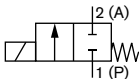
7.7. Ordering chart DIN EN 161 (PO19) certification version

Note:

- Materials and dimensions for DN 4...DN 12 see [“3.2. Material specifications standard version” on page 5](#) and for DN 13 see [“3.4. Materials version DN 13” on page 7](#)
- Further versions with alternative voltages, brass housing, ¼" or ¾" connection on request.

Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]		Seal material	Coil size	Article no. acc. to voltage/frequency [V/Hz]			
				Gas							
		[mm]	[m³/h]	DC	AC		[mm]	24/DC	24/AC	230/AC	
Housing material stainless steel, G-inner thread, seal material NBR/NBR or FKM/FKM optional, cable head with integrated rectifier for AC included.											
Automatic shut-off valves for gas burners up to 5 bar with increased lifespan NF39											
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¾	4.0	0.54	0...6	0...10	FKM	42	322103 	X	X	
				0...15	–	NBR	65	322105 	–	–	
	G ¾	6.0	0.95	0...2.5	0...2.5	FKM	42	X	X	X	
				0...7.5	–	NBR	65	X	–	–	
	G ½	8.0	1.6	0...1.3	0...1.3	FKM	42	322107 	X	X	
				0...4	–	NBR	65	322109 	–	–	
	G ½	10.0	1.8	0...0.5	0...0.5	FKM	42	X	X	X	
				0...1.8	–	NBR	65	X	–	–	
	G ½	12.0	2.0	0...0.4	0...0.4	FKM	42	X	X	X	
				0...1.4	–	NBR	65	X	–	–	
	G ½	13.0	3.0	0...0.15	0...0.15	FKM	42	322110 	X	X	
				0...0.75	–	NBR	65	322112 	–	–	

X: on request

Circuit function	Port connection	Orifice	K _v value water	Max. medium pressure [bar]	Seal material	Coil size	Article no. acc. to voltage/frequency [V/Hz]	
				Gas				
		[mm]	[m³/h]	AC		[mm]	24/DC	230/50
Housing material brass, G-inner thread, seal material NBR/NBR								
Automatic shut-off valves for gas burners up to 5 bar in standard								
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¾	4.0	0.54	0...13	NBR	42	X	322106 ☒
	G ½	6.0	0.95	0...5.5	NBR	42	X	291453 ☒
	G ½	8.0	1.6	0...2.3	NBR	42	X	270994 ☒
	G ½	10.0	1.8	0...1.3	NBR	42	X	267347 ☒
	G ½	13.0	3.0	0...0.5	NBR	42	X	—

X: on request

7.8. Ordering chart oil burner version (PF15)

Feed line valve/return line valve combinations

If the oil burner is designed with a return nozzle and without a nozzle shut-off valve (see DIN EN 267), the feed line and return line valves with safety shut-off function are required. The following combinations are possible:

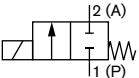
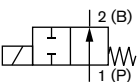
Feed line valve				Return line valve			
Type	Orifice [mm]	Housing material	K _v value water [m³/h]	Type	Orifice [mm]	Housing material	K _v value water [m³/h]
6027	3	Brass/stainless steel	0.22	6027	3	Brass/stainless steel	0.18
6027	3.5	Brass/stainless steel	0.38	6027	3.5	Brass/stainless steel	0.35
5406 ^{1.)}	13	Brass	3.5	6027	10	Brass	1.8
5406 ^{1.)}	20	Stainless steel	6.3	5407 ^{2.)}	20	Stainless steel	4.7

1.) See data sheet **Type 5406** ▶ solenoid valve safety shut off valve for oil burner

2.) See data sheet **Type 5407** ▶ solenoid valve safety shut off valve for oil burner

Note:

Further versions with alternative voltages, frequencies and thread connections on request.

Circuit function	Port connection	Orifice	K _v value water	Closing times	Applications	Max. medium pressure [bar]		Electrical power		Article no. acc. to voltage/frequency	
						Oil		Operation [W]	Acceleration [VA]	[V/Hz]	
		[mm]	[m³/h]	[ms]		Differential pressure	Static pressure			110...120/50	220...240/50
Housing material brass, G-inner thread, seal material PTFE/FKM											
DIN EN ISO 23553 - 1 Safety isolating equipment for liquid fuels PF15											
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ⅜	3.0	0.22 0.18	30	Feed line Return line	0...30	30	20	120	322828	322829
	G ¼	3.0	0.22 0.18	30	Feed line Return line	0...30	30	20	120	X	322830
		3.5	0.38	30	Feed line Return line	0...30	30	20	180	301016	284833
	G ⅝	10.0	2	50	Return line	–	30	20	180	X	X
	G ½	10.0	2	50	Return line	–	30	20	180	281948	281947
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	2.2	0.16	30	circulation line	0...30	30	20	120	301018	261036

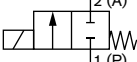
X: on request

7.9. Ordering charts ATEX/IECEx version with 3 meter cable

Standard version with elastomer seal up to 30 bar

Note:

- Further versions with normally open, alternative voltages, stainless steel body, NPT- or RC-inner thread, seal material EPDM/EPDM on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

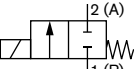
Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max.	Article no. acc. to voltage/frequency [V/Hz]		Medium pressure KD coil max.	Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	24 V AC/DC	230 V AC/DC	[bar]	24 V AC/DC	230 V AC
Body material brass with G-inner thread, seal material FKM/FKM									
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	3.0	0.28	0...30	X	X	0...30	X	X
		4.0	0.54	0...10	X	X	0...30	X	X
		5.0	0.73	0...3	X	380761 ☞	0...10	X	X
		6.0	0.95	0...1.5	X	380769 ☞	0...6	X	X
	G ½	8.0	1.6	0...1	X	X	0...3	380779 ☞	380780 ☞
		10.0	1.8	0...0.6	380786 ☞	380787 ☞	0...2	X	X

X: on request

Standard version with pendulum seal up to 100 bar

Note:

- Further versions with normally open, alternative voltages, brass housing, NPT- or RC-inner thread, seal material PTFE/FKM or PTFE/EPDM on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

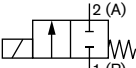
Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max.	Article no. acc. to voltage/frequency [V/Hz]		Medium pressure KD coil max.	Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	24 V AC/DC	230 V AC/DC	[bar]	24 V AC/DC	230 V AC
Body material stainless steel with G-inner thread, seal material PTFE/PEEK									
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	2.0	0.14	0...60	380720 ☞	380722 ☞	0...100	X	X
		3.0	0.28	0...20	380734 ☞	X	0...50	X	X
		4.0	0.54	0...8	380751 ☞	X	0...25	X	X
	G ½	6.0	0.73	0...1.5	380765 ☞	380766 ☞	0...6	X	X
		8.0	0.95	0...0.8	X	X	0...2.5	X	X
		10.0	1.6	0...0.5	X	X	0...1.5	X	X
		12.0	1.8	0...0.3	X	X	0...1.2	X	X

X: on request

Version DN 13

Note:

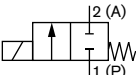
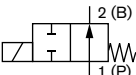
- Further versions with alternative voltages, stainless steel body, NPT- and RC-inner thread, 3/4" connection, seal material EPDM/EPDM or PTFE/PEEK on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max.		Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]		24 V AC/DC	230 V AC
Body material brass with G-inner thread, seal material FKM/FKM							
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ½	13.0	4	0...0.5		380791 	380793 

High pressure version up to 250 bar (MX32) or 160 bar (MX31)

Note:

- Further versions with alternative voltages, NPT- and RC-inner thread, seal material PEEK/EPDM on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max. [bar]			Article no. acc. to voltage/frequency [V/Hz]		Medium pressure KD coil max. [bar]			Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	Water	Oil	Air	24 V AC/DC	230 V AC/DC	Water	Oil	Air	24 V AC/DC	230 V AC
Body material stainless steel with G-inner thread, seal material PEEK/FKM													
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	1.0	0.03	0...200	0...150	0...250	380702 ☞	380706 ☞	0...250	0...250	0...250	380704 ☞	X
		1.5	0.07	0...80	0...40	0...100	380708 ☞	380709 ☞	0...160	0...160	0...160	X	X
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	1.0	0.03	–	–	–	–	–	0...200	0...160	0...250	380794 ☞	X
		1.5	0.07	–	–	–	–	–	0...100	0...80	0...130	X	X

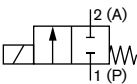
X: on request

7.10. Ordering chart ATEX/IECEX version clamp junction box

Standard version with elastomer seal up to 30 bar

Note:

- Further versions with normally open, alternative voltages, stainless steel body, NPT- or RC-inner thread, seal material EPDM/EPDM on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

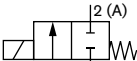
Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max.	Article no. acc. to voltage/frequency [V/Hz]		Medium pressure KD coil max.	Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	24 V AC/DC	230 V AC/DC	[bar]	24 V AC/DC	230 V AC
Body material brass with G-inner thread, seal material FKM/FKM									
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	3.0	0.28	0...30	X	X	0...30	X	X
		4.0	0.54	0...10	X	X	0...30	380753 ㉞	X
		5.0	0.73	0...3	380759 ㉞	380760 ㉞	0...10	X	X
	G ½	6.0	0.95	0...1.5	380770 ㉞	380771 ㉞	0...6	X	X
		8.0	1.6	0...1	X	X	0...3	X	X
		10.0	1.8	0...0.6	380785 ㉞	380802 ㉞	0...2	X	X

X: on request

Standard version with pendulum seal up to 100 bar

Note:

- Further versions with normally open, alternative voltages, brass housing, NPT- or RC-inner thread, seal material PTFE/FKM or PTFE/EPDM on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

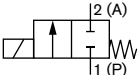
Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max.	Article no. acc. to voltage/frequency [V/Hz]		Medium pressure KD coil max.	Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]	24 V AC/DC	230 V AC/DC	[bar]	24 V AC/DC	230 V AC
Body material stainless steel with G-inner thread, seal material PTFE/PEEK									
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	2.0	0.14	0...60	380719 ㉞	380721 ㉞	0...100	X	X
		3.0	0.28	0...20	380733 ㉞	X	0...50	X	X
		4.0	0.54	0...8	380750 ㉞	X	0...25	X	X
	G ½	6.0	0.73	0...1.5	X	X	0...6	X	X
		8.0	0.95	0...0.8	380777 ㉞	X	0...2.5	X	X
		10.0	1.6	0...0.5	X	X	0...1.5	X	X
		12.0	1.8	0...0.3	X	X	0...1.2	X	X

X: on request

Version DN 13

Note:

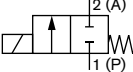
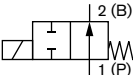
- Further versions with alternative voltages, stainless steel body, NPT- and RC-inner thread, 3/4" connection, seal material EPDM/EPDM or PTFE/PEEK on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max.		Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	[bar]		24 V AC/DC	230 V AC
Body material brass with G-inner thread, seal material FKM/FKM							
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ½	13.0	4	0...0.5		380790 	380792 

High pressure version up to 250 bar (MX32) or 160 bar (MX31)

Note:

- Further versions with alternative voltages, NPT- and RC-inner thread, seal material PEEK/EPDM on request.
- KD-coil (Kick and Drop) features integrated electronics for short-term power increase and reduction in double-coil technology.

Circuit function	Port connection	Orifice	K _v value water	Medium pressure standard max. [bar]			Article no. acc. to voltage/frequency [V/Hz]		Medium pressure KD coil max. [bar]			Article no. KD coil acc. to voltage/frequency [V/Hz]	
		[mm]	[m³/h]	Water	Oil	Air	24 V AC/DC	230 V AC/DC	Water	Oil	Air	24 V AC/DC	230 V AC
Body material stainless steel with G-inner thread, seal material PEEK/FKM													
A, solenoid valve 2/2 way Direct-acting Normally closed 	G ¼	1.0	0.03	0...200	0...150	0...250	X	380705 ☞	0...250	0...250	0...250	380703 ☞	X
		1.5	0.07	0...80	0...40	0...100	X	X	0...160	0...160	0...160	X	X
B, solenoid valve 2/2 way Direct-acting Normally open 	G ¼	1.0	0.03	-	-	-	-	-	0...200	0...160	0...250	380803 ☞	X
		1.5	0.07	-	-	-	-	-	0...100	0...80	0...130	X	X

X: on request

Further versions on request			
	Certification		Temperature
	- cULus(UL-listed) certification - cURus(UL-recognized) certification - Drinking water approval acc. to KTW/W270 - FDA (Food and Drug Administration) certification - Versions for oxygen applications		Special temperature ranges
	Process connection		Voltage
	- NPT - RC		110/50 and further non-standard voltages

7.11. Ordering chart accessories

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

Note:

For other versions see data sheet **Type 2518** ►.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry (AC/DC)	0...250 V AC/DC	314802
		With LED (AC/DC)	12...24 V AC/DC	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820
		With rectifier, LED and varistor	12...24 V AC/DC	314816
		Without circuitry (AC/DC) with silicone seal for higher ambient temperature, e.g. oil burner version (PF15)	0...250 V AC/DC	361687

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
		5000	260892
		3000	260891
		300	260890

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 15.](#)

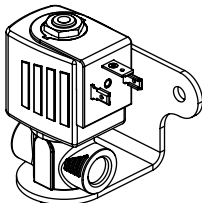
Description	Article no.
Ex cable gland, brass, nickel-plated, 6...13 mm ^{1.)}	773278
Ex cable gland, polyamide, 7...13 mm ^{1.)}	773277
Set SC02-AC10: Special wrench ^{2.)} incl. service manual	293488

1.) Cable diameter

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

Mounting bracket for Type 6027/6240**Note:**

- The scope of delivery includes the mounting bracket, two cylinder screws M4x8 and two spring rings.
- The mounting bracket can be used for all standard and high-pressure versions including ATEX/IECEX and DIN EN 161 options up to orifice of 12 mm.
- The mounting bracket can not be used for the oil burner and DN 13 versions as well as various special housings made of solid material.

Description	Article no.
	282304

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