





Servo-assisted 2/2-way piston valve

- Servo-assisted piston valve with an orifice up to DN 50
- Explosion proof versions for cat. 2
- Suitable for gas and steam applications up to 180 °C
- Relief valves for compressors
- Energy-saving double coil technology with kick and drop variant



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

Type description

The 5404 valve is a servo-assisted piston valve available in NC and NO versions. A minimum differential pressure is required for the valve switching function. The solenoid coils are moulded with high-quality epoxy resin. To reduce power consumption in operation, coils with "Kick and Drop" (KD) electronics assembly (double coil technology) are available. In combination with a plug to DIN EN 175301 - 803 Form A, the valves satisfy degree of protection IP65. The cable plug is not included and must be ordered separately.

Table of contents

1. General technical data	4
2. Circuit functions	5
3. Materials	5
3.1. Chemical Resistance Chart – Bürkert resistApp.....	5
3.2. Material specifications standard version	5
DN 12, Circuit function A	5
DN 25, Circuit function B	6
DN 32, Circuit function A	6
3.3. Material specifications steam version NA07	7
DN 13, Circuit function A	7
DN 32, Circuit function A, flange body	7
3.4. Material specifications high pressure version MX13.....	8
DN 12, Circuit function A	8
3.5. Material specifications discharge valve for compressor systems CF05.....	8
DN 12, Circuit function B	8
4. Dimensions	9
4.1. Standard version.....	9
Threaded version DN 12	9
Threaded version DN 20 and DN 25	9
Threaded version DN 32 and DN 50	10
4.2. Steam version NA07	11
Threaded version DN 13	11
Threaded version DN 20 and DN 25	11
Flange version DN 25.....	12
Threaded version DN 32 and DN 40	12
Flange version DN 32 and DN 40	13
4.3. High pressure version MX13	14
4.4. Discharge valve for compressor systems CF05	14
Plug version with ventilation	14
4.5. ATEX/IECEX version	15
Cable version	15
Terminal box version	15
5. Performance specifications	16
5.1. Temperature/duty cycle derating diagram for steam version NA07.....	16
5.2. Characteristic values of intermittent operation	16
6. Product accessories	16
6.1. Cable glands for ATEX/IECEX terminal box	16
6.2. Special tool to turn the terminal box	17
7. Ordering information	17
7.1. Bürkert eShop – Easy ordering and quick delivery.....	17
7.2. Bürkert product filter	17

- 7.3. Ordering chart 18
 - Standard version DN 12...DN 25 18
 - Standard version DN 32...DN 50 18
 - Steam version NA07, DN 13...DN 25 19
 - Steam version NA07, DN 32...DN 40 19
 - High pressure version MX13 20
 - Discharge valve for compressor systems CF05 20
 - ATEX/IECEX cable version 21
 - ATEX/IECEX terminal box version 21
- 7.4. Ordering chart accessories 22
 - Cable plug Type 2513, form A according to DIN EN 175301 - 803 22
 - Cable plug Type 2518, form A according to DIN EN 175301 - 803 22
 - Cable glands for ATEX/IECEX terminal box 23

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | validé) printed: 31.05.2023

1. General technical data

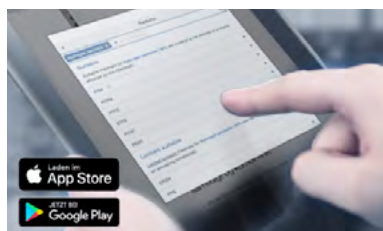
Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 9.
Material	
Seal	PTFE seat seal + FKM PTFE seat seal + Graphite steam version PTFE seat seal + EPDM on request
Body	Brass
Coil	Epoxy resin (polyamide on request)
Orifice	DN 12...DN 50
Circuit function	A and B Detailed information can be found in chapter "2. Circuit functions" on page 5.
Thermal insulation class of solenoid coil	H (B on request)
Valve internals	Stainless steel, brass
Performance data	
Duty cycle	100 % continuous rating
Switching time	
DN 12...DN 25	Opening: 20...400 ms Closing: 100...1500 ms
DN 32...DN 50	Opening: 200...1500 ms Closing: 1000...3000 ms
Electrical data	
Power consumption	
Circuit function A, DN 12...DN 25 (not in combination with high pressure MX13)	Inrush AC: 24 VA Hold AC (hot coil): 14 VA/8 W Hold DC (hot/cold coil): 8/9.5 W
Circuit function B, DN 12...DN 25	Inrush AC: 24 VA Hold AC (hot coil): 14 VA/8 W Hold DC (hot/cold coil): 8/9.5 W
ATEX/IECEx version	Inrush AC: 9 VA Hold AC (hot coil): 9 VA Hold DC (hot/cold coil): 9 W
Circuit function A, DN 32...DN 50 and DN 12 as high pressure MX13	Inrush AC: 24 VA Hold AC (hot coil): 16 VA/10 W Hold DC (hot/cold coil): 12/13 W
Voltage	24 V/DC, 24 V/50 Hz, 24 V/60 Hz, 110 V/50 Hz, 120 V/60 Hz, 230 V/50 Hz, 240 V/60 Hz Other voltages on request
Voltage tolerance	± 10 %
Medium data	
Operating medium	Neutral mediums, compressed air, water, hydraulic oil and steam
Medium temperature	
Standard version	- 10 °C...120 °C
Steam version	Up to 160 °C, see "5.1. Temperature/duty cycle derating diagram for steam version NA07" on page 16 (from - 40 °C on request) Up to 180 °C for AC 6 Watt
Viscosity	Max. 21 mm ² /sec
Approvals and certificates	
Degree of protection	IP65 with cable plug Type 2518 ▶ (IP67 on request) NEMA 4X with cable plug Type 2509 ▶ with stainless steel screws and epoxy coil
Process/Port connection & communication	
Electrical connection	Tag connector acc. to DIN EN 175301 - 803 form A
Port connection	G½, G¾, G 1, G 1 ¼, G 1 ½, G 2 NPT ½, NPT ¾, NPT 1, NPT 1 ¼, NPT 1 ½, NPT 2
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	- 10 °C...+ 55 °C (from - 40 °C on request)

2. Circuit functions

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

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



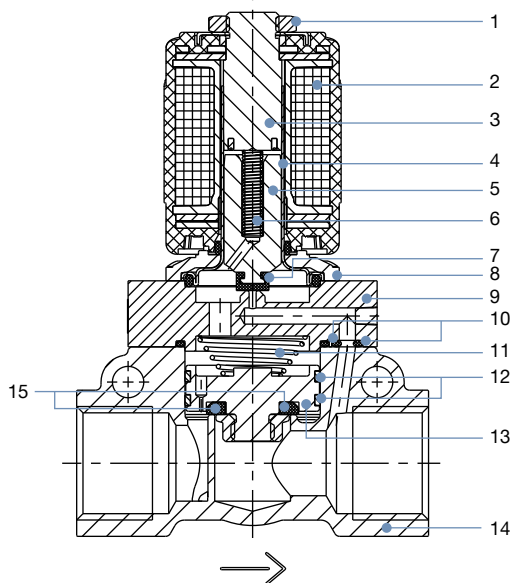
Bürkert resistApp – Chemical Resistance Chart

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

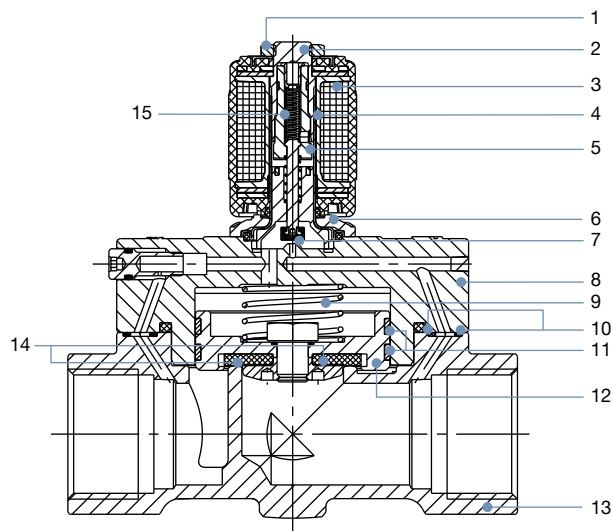
DN 12, Circuit function A



No.	Element	Material
1	Nut	Steel (thick-film passivated according to RoHS)
2	Coil	Epoxy (polyamide optional)
3	Stopper	Stainless steel 1.4105/303 ^{1.)}
4	Armature guide tube	Stainless steel 1.4303/305 ^{1.)} /308 ^{1.)}
5	Plunger	Stainless steel 1.4105/430F ^{1.)}
6	Spring	Stainless steel 1.4310/301 ^{1.)}
7	Plunger seal	FKM (EPDM optional)
8	Flange	Steel (thick-film passivated according to RoHS)
9	Cover	Brass
10	O-Rings	FKM (EPDM optional)
11	Spring	Stainless steel 1.4310/301 ^{1.)}
12	Piston rings	PTFE
13	Piston	Brass
14	Valve body	Brass
15	Piston seal	PTFE

1.) Material designation according to AISI

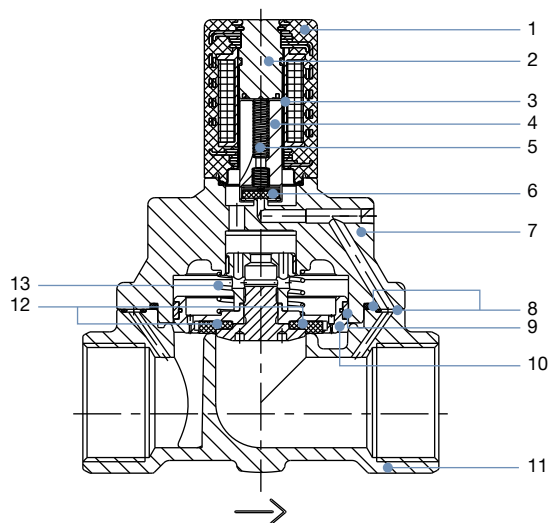
DN 25, Circuit function B



No.	Element	Material
1	Nut	Steel (thick-film passivated according to RoHS)
2	Stopper	Stainless steel 1.4113/434 ^{1.)}
3	Coil	Epoxy
4	Armature guide tube	Stainless steel 1.4303/305 ^{1.)} /308 ^{1.)}
5	Plunger	Stainless steel 1.4113/434 ^{1.)} /1.4305/303 ^{1.)}
6	Flange	Steel (thick-film passivated according to RoHS)
7	Plunger seal	FKM (EPDM optional)
8	Cover	Brass
9	Spring	Stainless steel 1.4310/301 ^{1.)}
10	O-Rings	FKM (EPDM optional)
11	Piston rings	PTFE
12	Piston	Brass
13	Valve body	Brass
14	Piston seal	PTFE
15	Spring	Stainless steel 1.4310/301 ^{1.)}

1.) Material designation according to AISI

DN 32, Circuit function A



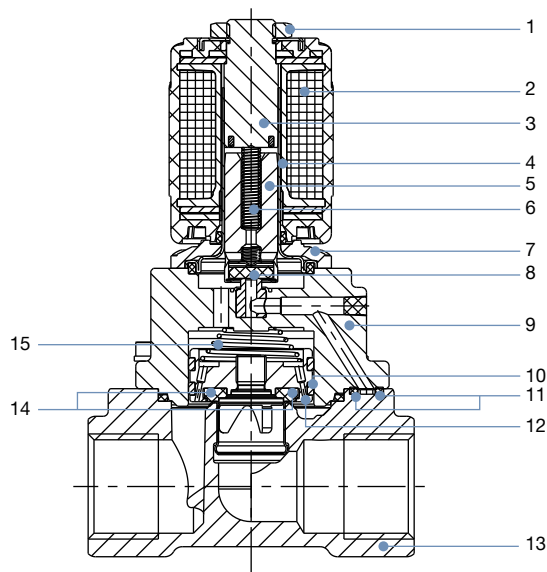
No.	Element	Material
1	Coil	Epoxy
2	Stopper	Stainless steel 1.4105/430F ^{1.)}
3	Armature guide tube	Stainless steel 1.4303/305 ^{1.)} /308 ^{1.)}
4	Plunger	Stainless steel 1.4105/430F ^{1.)}
5	Spring	Stainless steel 1.4310/301 ^{1.)}
6	Plunger seal	FKM
7	Cover	Brass
8	O-Rings	FKM
9	Piston rings	PTFE
10	Piston	Brass
11	Valve body	Brass
12	Piston seal	PTFE
13	Spring	Stainless steel 1.4310/301 ^{1.)}

1.) Material designation according to AISI

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | validé) printed: 31.05.2023

3.3. Material specifications steam version NA07

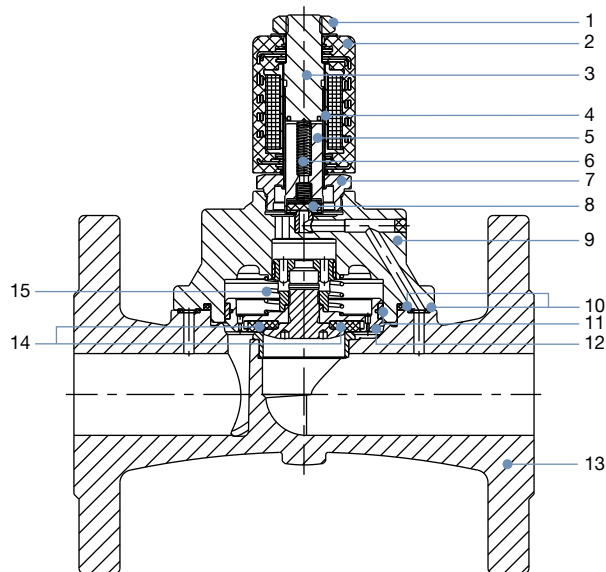
DN 13, Circuit function A



No.	Element	Material
1	Nut	Steel (thick-film passivated according to RoHS)
2	Coil	Epoxy
3	Stopper	Stainless steel 1.4113/434 ^{1.)}
4	Armature guide tube	Stainless steel 1.4303/305 ^{1.)}
5	Plunger	Stainless steel 1.4113/434 ^{1.)}
6	Spring	Stainless steel 1.4310/301 ^{1.)}
7	Flange	Steel (thick-film passivated according to RoHS)
8	Plunger seal	PTFE
9	Cover	Brass
10	Piston rings	PTFE
11	O-Rings	Graphite
12	Piston	Brass
13	Valve body	Brass
14	Piston seal	PTFE
15	Spring	Stainless steel 1.4310/301 ^{1.)}

1.) Material designation according to AISI

DN 32, Circuit function A, flange body



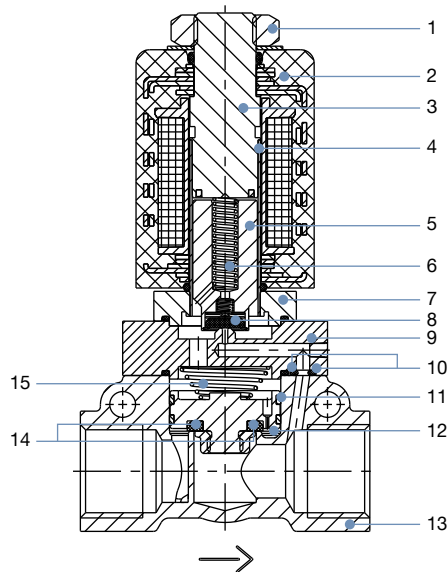
No.	Element	Material
1	Nut	Steel (thick-film passivated according to RoHS)
2	Coil	Epoxy
3	Stopper	Stainless steel 1.4113/434 ^{1.)}
4	Armature guide tube	Stainless steel 1.4571/316Ti ^{1.)}
5	Plunger	Stainless steel 1.4113/434 ^{1.)}
6	Spring	Stainless steel 1.4310/301 ^{1.)}
7	Threaded tube	Stainless steel 1.4401/316 ^{1.)} or 1.4571/316Ti ^{1.)}
8	Plunger seal	PTFE
9	Cover	Brass
10	O-Rings	Graphite
11	Piston rings	PTFE
12	Piston	Brass
13	Valve body	Stainless steel 1.4581/similar 316Ti ^{1.)}
14	Piston seal	PTFE
15	Spring	Stainless steel 1.4310/301 ^{1.)}

1.) Material designation according to AISI

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

3.4. Material specifications high pressure version MX13

DN 12, Circuit function A

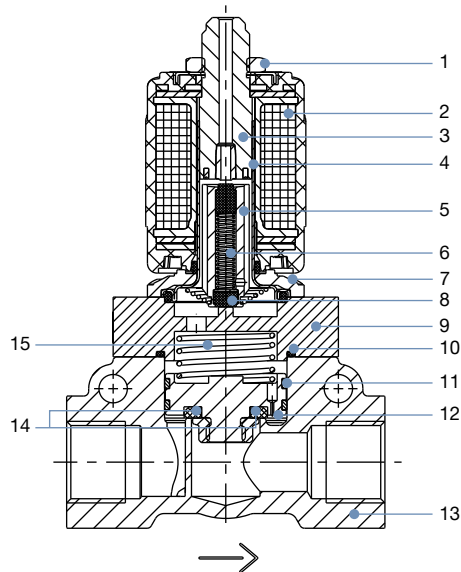


No.	Element	Material
1	Nut	Steel (thick-film passivated according to RoHS)
2	Coil	Epoxy (polyamide)
3	Stopper	Stainless steel 1.4113/434 ^{1.)}
4	Armature guide tube	Stainless steel 1.4571/316Ti ^{1.)}
5	Plunger	Stainless steel 1.4113/434 ^{1.)}
6	Spring	Stainless steel 1.4310/301 ^{1.)}
7	Flange	Stainless steel 1.4401/316 ^{1.)}
8	Plunger seal	PTFE
9	Cover	Brass
10	O-Rings	FKM
11	Piston rings	PTFE
12	Piston	Brass
13	Valve body	Brass
14	Piston seal	PTFE
15	Spring	Stainless steel 1.4310/301 ^{1.)}

1.) Material designation according to AISI

3.5. Material specifications discharge valve for compressor systems CF05

DN 12, Circuit function B



No.	Element	Material
1	Nut	Steel (thick-film passivated according to RoHS)
2	Coil	Epoxy (polyamide optional)
3	Stopper	Stainless steel 1.4105/430F ^{1.)}
4	Armature guide tube	Stainless steel 1.4303/305 ^{1.)}
5	Plunger	Stainless steel 1.4105/430F ^{1.)}
6	Spring	Stainless steel 1.4310/301 ^{1.)}
7	Flange	Steel (thick-film passivated according to RoHS)
8	Plunger seal	FKM
9	Cover	Brass
10	O-Rings	FKM
11	Piston rings	PTFE
12	Piston	Brass
13	Valve body	Brass
14	Piston seal	PTFE
15	Spring	Stainless steel 1.4310/301 ^{1.)}

1.) Material designation according to AISI

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

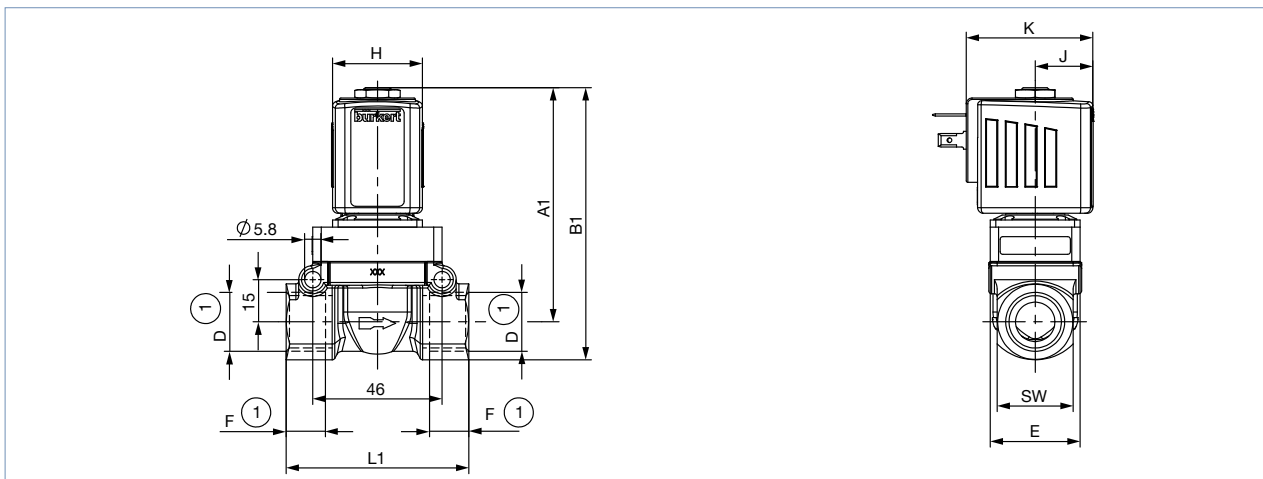
4. Dimensions

4.1. Standard version

Threaded version DN 12

Note:

- Dimensions in mm
- For G-threads the dimensions D1 and F1 apply
- For NPT-threads the dimensions D2 and F2 apply
- For Rc-threads the dimensions D3 and F3 apply

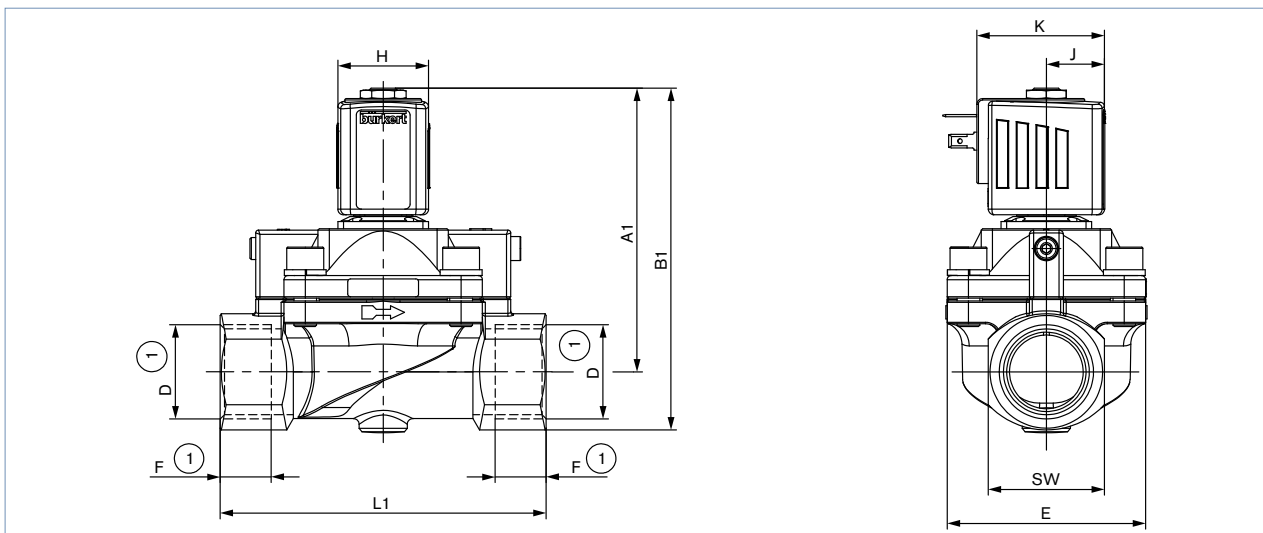


Coil size	DN	WWA		WWB		G thread		NPT thread		Rc thread		E	L1	SW	H	J	K
		A1	B1	A1	B1	D1	F1	D2	F2	D3	F3						
5	12.0	83	96.5	90.5	104	G ½	14	NPT ½	13.7	Rc ½	13.2	33	65	27	32	20.5	45
6	12.0	83	96.5	90.5	104	G ½	14	NPT ½	13.7	Rc ½	13.2	33	65	27	40	23.5	51

Threaded version DN 20 and DN 25

Note:

- Dimensions in mm
- For G-threads the dimensions D1 and F1 apply
- For NPT-threads the dimensions D2 and F2 apply
- For Rc-threads the dimensions D3 and F3 apply



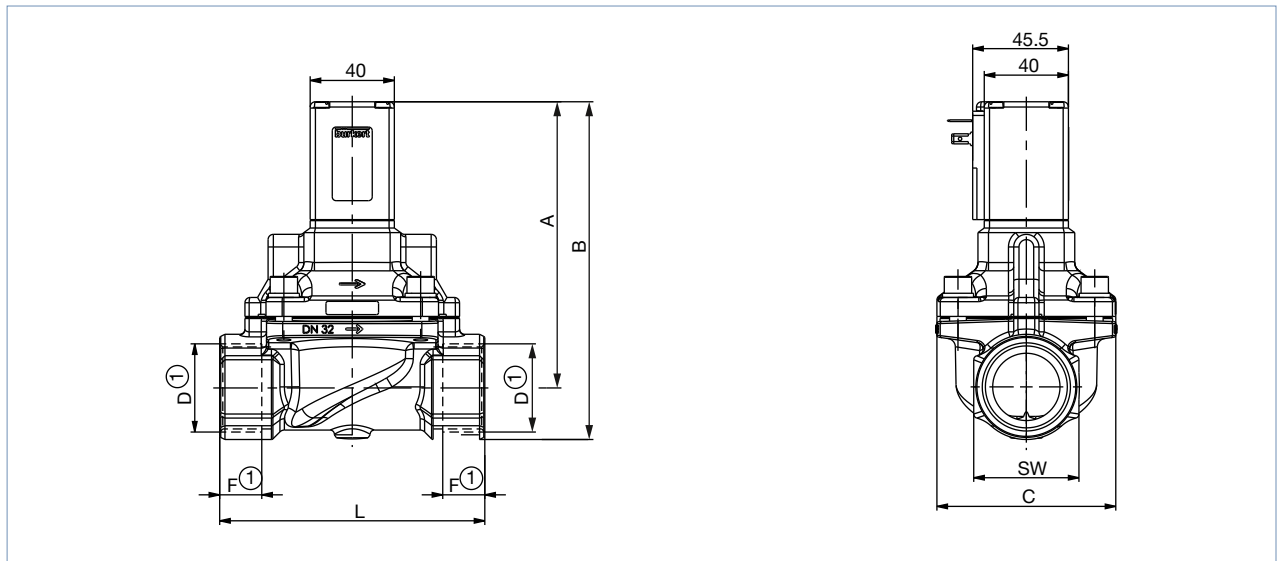
DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

Coil size	DN	WWA		WWB		G thread		NPT thread		Rc thread		E	L1	SW	H	J	K
		A1	B1	A1	B1	D1	F1	D2	F2	D3	F3						
5	20.0	93	109	90.5	104	G 3/4	16	NPT 3/4	14	Rc 3/4	14.5	60	100	32	32	20.5	45
	25.0	99.5	119			G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41			
6	20.0	93	109	90.5	104	G 3/4	16	NPT 3/4	14	Rc 3/4	14.5	60	100	32	40	23.5	51
	25.0	99.5	119			G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41			

Threaded version DN 32 and DN 50

Note:

- Dimensions in mm
- For G-threads the dimensions D1 and F1 apply
- For NPT-threads the dimensions D2 and F2 apply



DN	A	B	G thread		NPT thread		C	L	SW
			D1	F1	D2	F2			
32	136	161	G 1 1/4	20	NPT 1 1/4	17.3	85	126	50
32	140	170	G 1 1/2	22	NPT 1 1/2	17.3	85	126	60
50	163	198	G 2	24	NPT 2	17.6	115	164	70

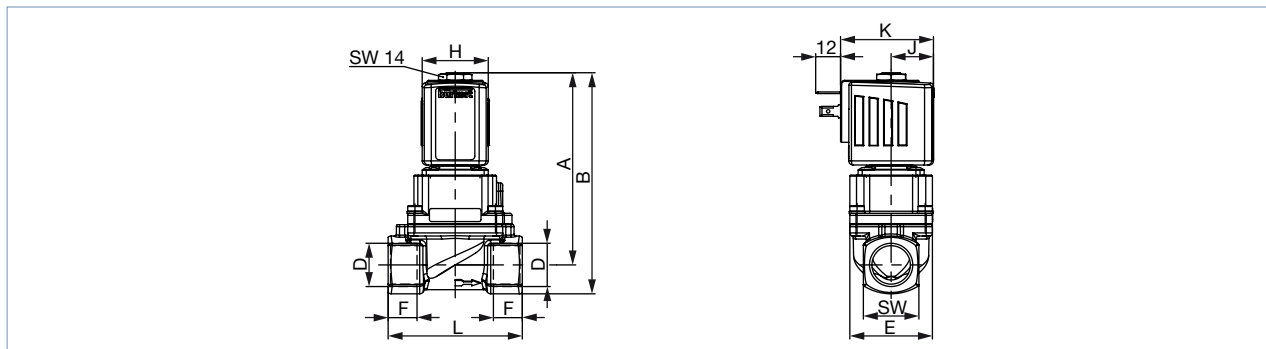
DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | validé) printed: 31.05.2023

4.2. Steam version NA07

Threaded version DN 13

Note:

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

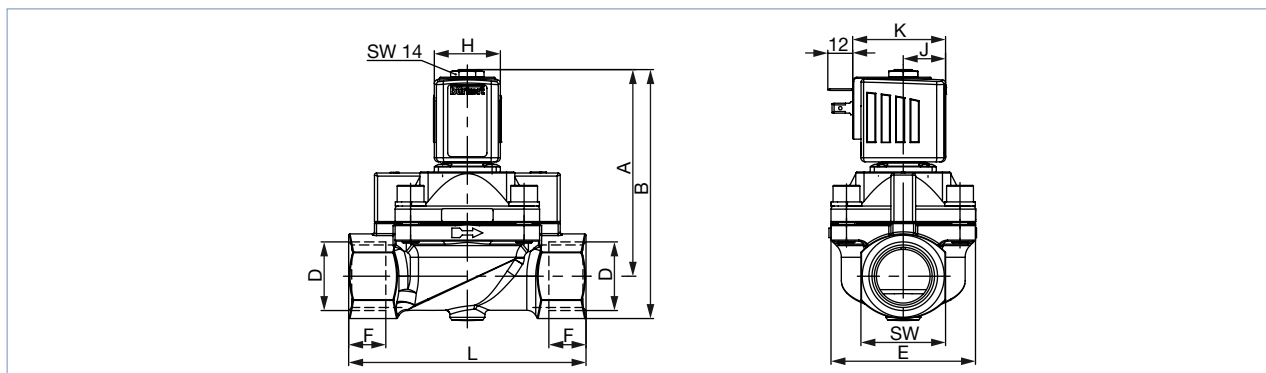


Coil size	DN	A	B	G thread		NPT thread		Rc thread		E	L	SW	H	J	K
				D1	F1	D2	F2	D3	F3						
5	13	93.1	107.1	G ½	14	NPT ½	13.7	Rc ½	13.2	40	65	27	32	20.5	45
6	13	93.1	107.1	G ½	14	NPT ½	13.7	Rc ½	13.2	40	65	27	40	23.5	51

Threaded version DN 20 and DN 25

Note:

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



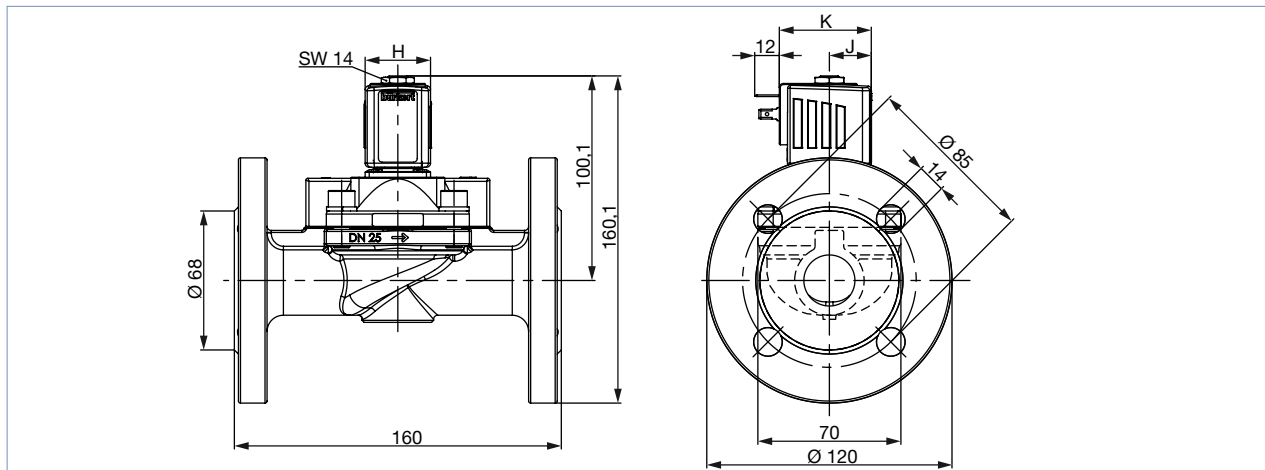
Coil size	DN	A	B	G thread		NPT thread		Rc thread		E	L	SW	H	J	K
				D1	F1	D2	F2	D3	F3						
5	20	96.1	112.1	G ¾	16	NPT ¾	14	Rc ¾	14.5	60	100	32	32	20.5	45
	25	100.1	120.6	G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41			
6	20	96.1	112.1	G ¾	16	NPT ¾	14	Rc ¾	14.5	60	100	32	40	23.5	51
	25	100.1	120.6	G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41			

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

Flange version DN 25

Note:

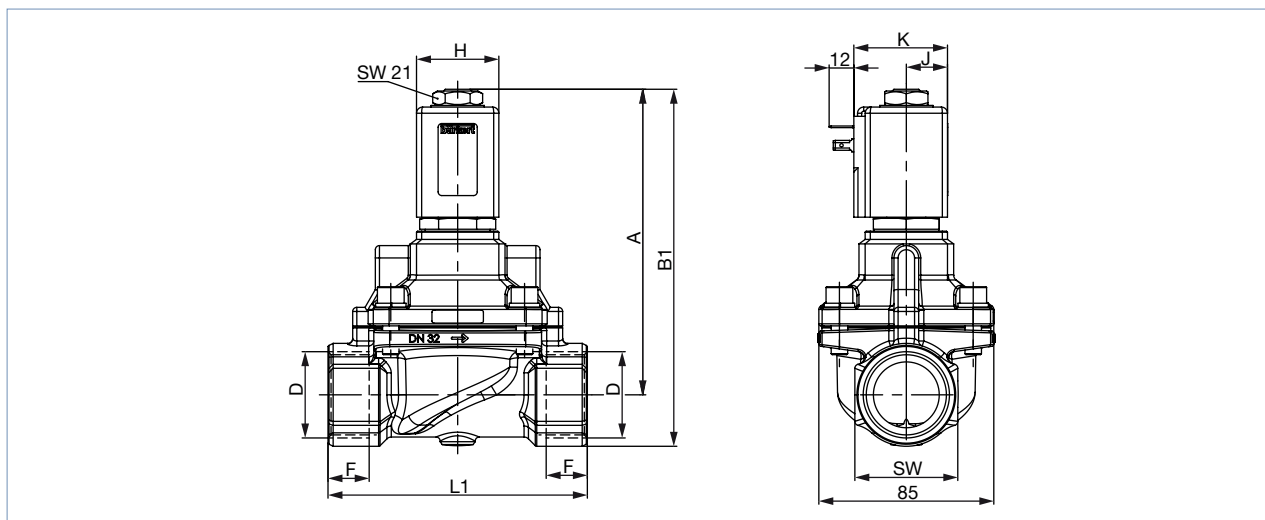
- Dimensions in mm
- The dimensions D1 and F1 apply to G-threads
- The dimensions D2 and F2 apply to NPT-threads
- The dimensions D3 and F3 apply to Rc-threads



Coil size	DN	A	B	G thread		NPT thread		Rc thread		E	L	SW	H	J	K
				D1	F1	D2	F2	D3	F3						
5	25	100.1	120.6	G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41	32	20.5	45
6	25	100.1	120.6	G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41	40	23.5	51

Threaded version DN 32 and DN 40

- Dimensions in mm
- The dimensions D1 and F1 apply to G-threads
- The dimensions D2 and F2 apply to NPT-threads



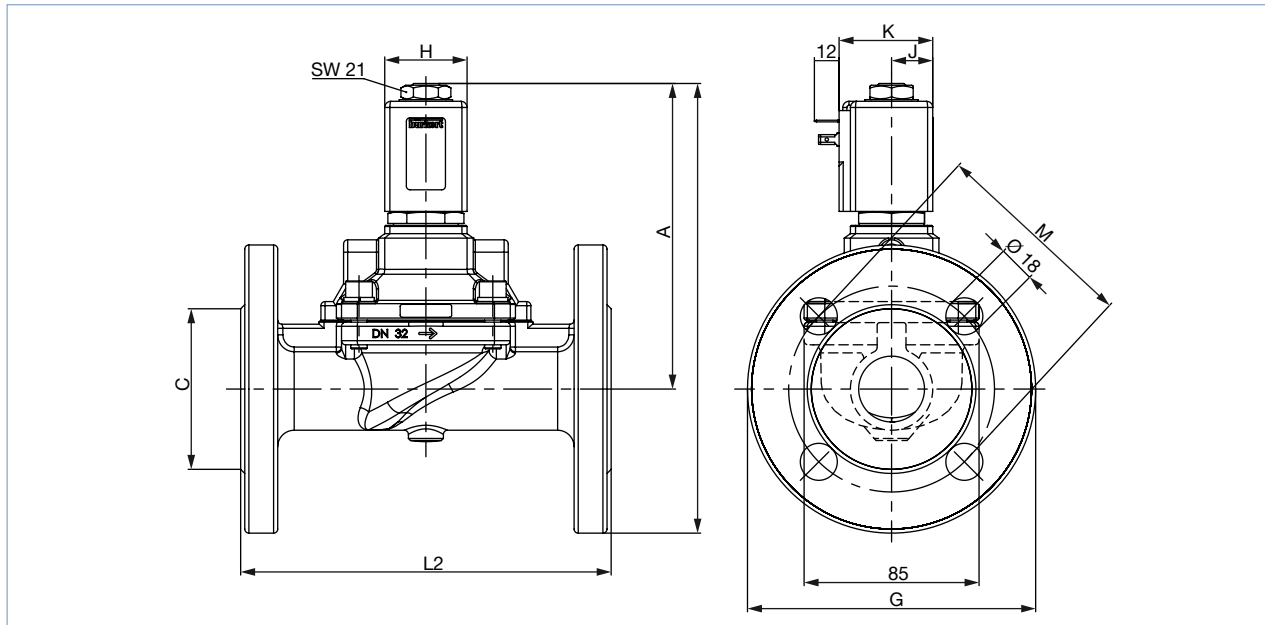
Coil size	DN	A	B1	G thread		NPT thread		L	B2	C	G	L2	M	SW	H	J	K
				D1	F1	D2	F2										
C	32	148	173	G 1¼	20	NPT 1¼	17.3	126	218	78	140	180	100	50	40	20	45
	40	153	181	G 1½	22	NPT 1½	17.3	126	227	88	150	200	110	60			

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

Flange version DN 32 and DN 40

Note:

- Dimensions in mm
- The dimensions D1 and F1 apply to G-threads
- The dimensions D2 and F2 apply to NPT-threads

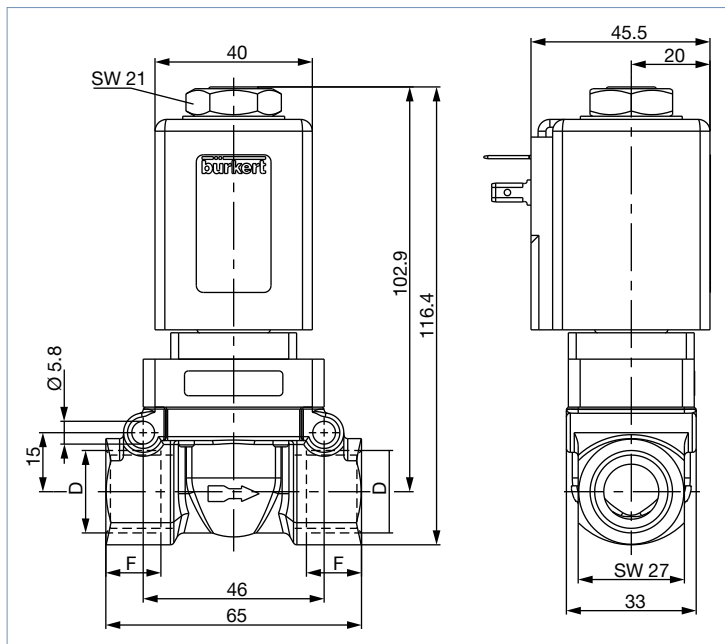


Coil size	DN	A	B1	G thread		NPT thread		L	B2	C	G	L2	M	SW	H	J	K
				D1	F1	D2	F2										
C	32	148	173	G 1¼	20	NPT 1¼	17.3	126	218	78	140	180	100	50	40	20	45
	40	153	181	G 1½	22	NPT 1½	17.3	126	227	88	150	200	110	60			

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | validé) printed: 31.05.2023

4.3. High pressure version MX13

Note:
Dimensions in mm

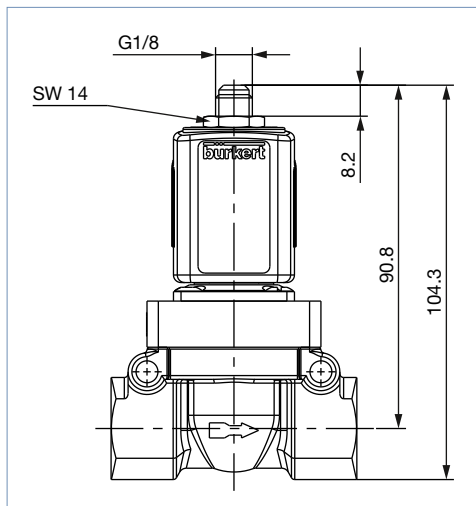


D	F
G ½	14
NPT ½	13.7

4.4. Discharge valve for compressor systems CF05

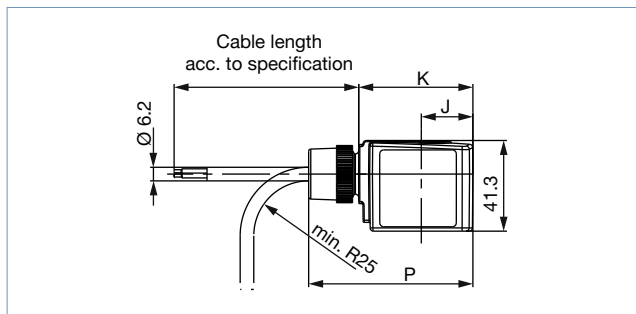
Plug version with ventilation

Note:
Dimensions in mm



4.5. ATEX/IECEEx version

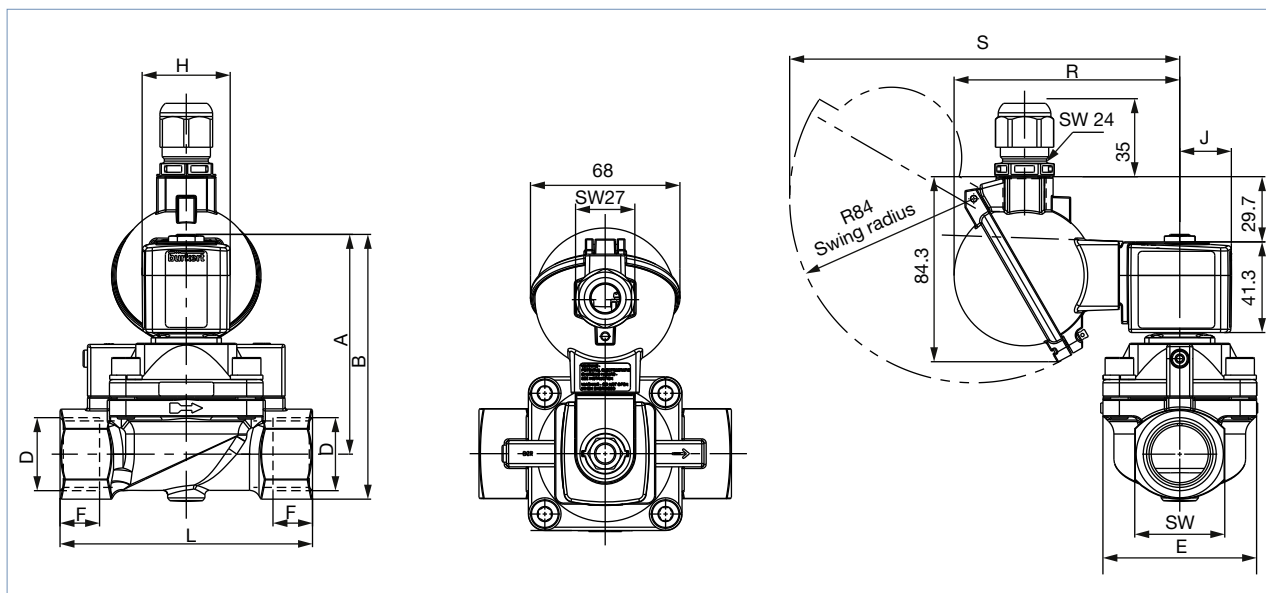
Cable version



Terminal box version

Note:

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

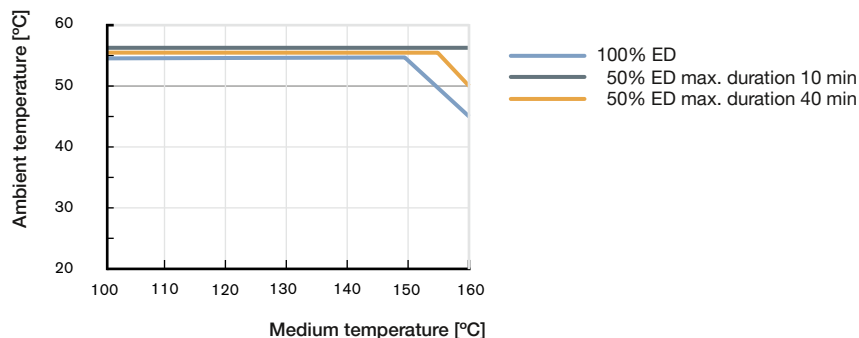


Coil size	DN	WWA		WWB		G thread		NPT thread		Rc thread		E	L	SW	H	J	K	P	R	S
		A	B	A	B	D1	F1	D2	F2	D3	F3									
5	12	83	96.5	90.8	104.3	G ½	14	NPT ½	13.7	Rc ½	13.2	33	65	27	32	20.5	46	68.8	99.8	174.7
	20	93	109			G ¾	16	NPT ¾	14	Rc ¾	14.5	60	100	32						
	25	99.5	119			G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41						
6	12	83	96.5	90.8	104.3	G ½	14	NPT ½	13.7	Rc ½	13.2	33	65	27	40	23.5	52	74.8	102.8	177.7
	20	93	109			G ¾	16	NPT ¾	14	Rc ¾	14.5	60	100	32						
	25	99.5	119			G 1	18	NPT 1	16.8	Rc 1	16.8	70	115	41						

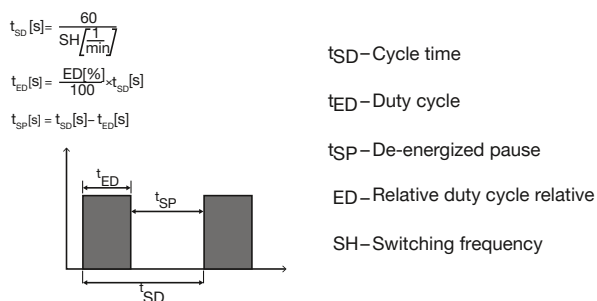
DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

5. Performance specifications

5.1. Temperature/duty cycle derating diagram for steam version NA07



5.2. Characteristic values of intermittent operation


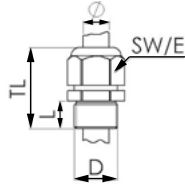

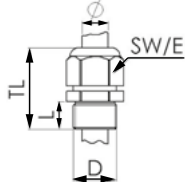


6. Product accessories

6.1. Cable glands for ATEX/IECEx terminal box

Note:

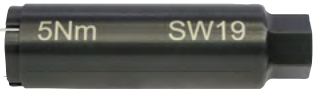
A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at a surcharge, see “[Cable glands for ATEX/IECEx terminal box](#)” on page 23.

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 border="1"> <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 border="1"> <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 terminal box

Note:

This special tool is not supplied with the valve, see [“Cable glands for ATEX/IECEx terminal box”](#) on page 23.

Description	Components of the set
Set SC02-AC10 	<ul style="list-style-type: none"> • Special wrench • Service manual

7. Ordering information

7.1. Bürkert eShop – Easy ordering and quick delivery



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.

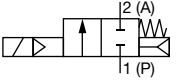
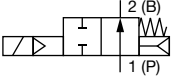
[Try out our product filter](#)

7.3. Ordering chart

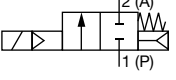
Standard version DN 12...DN 25

Note:

- Further versions on request
- Please note that the cable plug has to be ordered separately, see “7.4. Ordering chart accessories” on page 22 or separate data sheet **Type 2518** ▶.

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range		Article no.		
				Liquids [bar]	Gases [bar]	024/DC [V/Hz]	024/50 [V/Hz]	230/50 [V/Hz]
Seal material PTFE/FKM								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	12	2.0	1...50	1...50	308501	177853	308502
	G ¾	20	7.0	1...25	1...32	308503	-	-
				1...25	1...40	-	308504	308505
	G 1	25	10.0	1...25	1...32	308506	-	-
1...25				1...40	-	308507	308508	
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ½	12	2.0	1...32	1...32	309022	301170	295636
	G ¾	20	7.0	1...25	1...25	303209	295276	295651
	G 1	25	10.0	1...25	1...25	295660	308120	301740

Standard version DN 32...DN 50

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range		Article no.		
				Liquids [bar]	Gases [bar]	024/DC [V/Hz]	024/50 [V/Hz]	230/50 [V/Hz]
Seal material PTFE/FKM								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G 1¼	32	18.0	1...16	1...16	122579	-	-
				1...25	1...25	-	085337	085340
	G 1½	40	18.0	1...16	1...16	085343	-	-
				1...25	1...25	-	085342	085345
				1...8	1...8	307475	-	-
G 2	50	36.0	1...20	1...20	-	307476	085350	

Steam version NA07, DN 13...DN 25

Note:

- Please note that the cable plug has to be ordered separately, see “7.4. Ordering chart accessories” on page 22 or separate data sheet **Type 2518** ▶.
- Due to the temperature range, the cable plug with silicone seal is provided for steam versions NA07.
- Please also note the derating diagram, see “5.1. Temperature/duty cycle derating diagram for steam version NA07” on page 16.

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range [bar]	Max. medium temperature [°C]	Body material	Article no.		
							024/DC	024/50	230/50
							[V/Hz]	[V/Hz]	[V/Hz]
Seal material PTFE/graphite									
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	13	3.7	1...5	150	Brass	307267	-	-
				1...12	180	Brass	-	307269	307276
				1...12	180	Brass	-	20004404	20004405
	G ¾	20	7.0	1...5	150	Brass	307286	-	-
				1...12	180	Brass	-	307284	307326
				1...12	180	Brass	-	20004406	20004407
	G 1	25	10.0	1...5	150	Brass	307342	-	-
				1...12	180	Brass	-	307343	307351
				1...12	180	Brass	-	20004409	20004410
	Flange acc. to DIN EN 1902-1	25	10.0	1...5	150	Stainless steel	354392	-	-
				1...12	180	Stainless steel	-	20004413	354392
				1...12	180	Stainless steel	-	20004411	20004412

Steam version NA07, DN 32...DN 40

Note:

- Please note that the cable plug has to be ordered separately, see “7.4. Ordering chart accessories” on page 22 or separate data sheet **Type 2518** ▶.
- Due to the temperature range, the cable plug with silicone seal is provided for steam versions NA07.
- Please also note the derating diagram, see “5.1. Temperature/duty cycle derating diagram for steam version NA07” on page 16.

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range [bar]	Body material	Article no.		
						024/DC	024/50	230/50
						[V/Hz]	[V/Hz]	[V/Hz]
Seal material PTFE/graphite								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G 1¼	32	18.0	1...4	Brass	316584	-	-
				1...12	Brass	-	316580	316579
	Flange acc. to DIN EN 1902-1	32	18.0	1...4	Stainless steel	X	-	-
				1...12	Stainless steel	-	X	363040
	G 1½	40	18.0	1...4	Brass	316592	-	-
				1...12	Brass	-	316586	316588
	Flange acc. to DIN EN 1902-1	40	18.0	1...4	Stainless steel	X	-	-
				1...12	Stainless steel	-	370111	363041

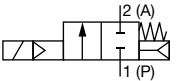



X: on request

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | validé) printed: 31.05.2023

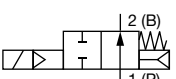



High pressure version MX13

Note:

- Please note that the cable plug has to be ordered separately, see “7.4. Ordering chart accessories” on page 22 or separate data sheet **Type 2518** ▶.
- High shut off levels may occur with liquids and high differential pressure!

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range		Article no.		
				Liquids [bar]	Gases [bar]	024/DC [V/Hz]	024/50 [V/Hz]	230/50 [V/Hz]
Seal material PTFE/FKM								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ½	12	2.0	1...80	1...80	304191 	304193 	304194 

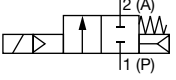






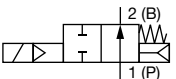






Discharge valve for compressor systems CF05

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range		Article no.		
				Liquids [bar]	Gases [bar]	024/DC [V/Hz]	024/50 [V/Hz]	230/50 [V/Hz]
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ½	12	2.0	1...40	1...40	301723 	308781 	308783 

ATEX/IECEx cable version

Note:

The pressure values for liquid media are shown on the rating plate.

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range		Article no.	
				Liquids [bar]	Gases [bar]	24 / AC/DC [V/Hz]	230 / AC/DC [V/Hz]
Seal material PTFE/FKM							
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G 1/2	12	2.0	1...50	1...50	349290 	349292 
	G 3/4	20	7.0	1...25	1...32	349294 	349296 
	G 1	25	10.0	1...25	1...32	349300 	349301 
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G 1/2	12	2.0	1...32	1...32	349302 	349304 
	G 3/4	20	7.0	1...25	1...25	349307 	349309 
	G 1	25	10.0	1...25	1...25	349310 	349313 

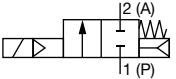






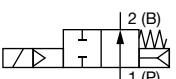






Labeling explosion protection cable coil

ATEX:	II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	IECEx:	Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db
-------	--	--------	--

ATEX/IECEx terminal box version

Note:

- Please note that the cable plug has to be ordered separately, see “7.4. Ordering chart accessories” on page 22 or separate data sheet **Type 2513** ▶.
- The pressure values for liquid media are shown on the rating plate.

Circuit function	Port connection	Orifice [mm]	K _v value water [m ³ /h]	Pressure range		Article no.	
				Liquids [bar]	Gases [bar]	24 / AC/DC [V/Hz]	230 / AC/DC [V/Hz]
Seal material PTFE/FKM							
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G 1/2	12	2.0	1...50	1...50	349289 	349293 
	G 3/4	20	7.0	1...25	1...32	349295 	349297 
	G 1	25	10.0	1...25	1...32	349299 	349297 
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G 1/2	12	2.0	1...32	1...32	349303 	349305 
	G 3/4	20	7.0	1...25	1...25	349306 	349308 
	G 1	25	10.0	1...25	1...25	349311 	349312 

Labeling explosion protection coil with terminal box

ATEX:	II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db	IECEx:	Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db
-------	--	--------	--

Further versions on request	
Approvals <ul style="list-style-type: none"> • UL Listed • UL Recognized • CSA Certification • UL listed for Hazardous Locations for USA and Canada • ATEX/IECEX categorie 3 • Versions for oxygen applications 	Process connection <ul style="list-style-type: none"> • NPT • UN
Voltage 110/50, non-standard voltages	Temperature Special temperature ranges

7.4. Ordering chart accessories

Cable plug Type 2513, form A according 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 plug Type 2518, form A according to DIN EN 175301 - 803

Note:




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

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | valide) printed: 31.05.2023

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 16.

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

Bürkert – Close to You

For up-to-date addresses
please visit us at
www.burkert.com

DTS 1000011017 EN Version: Y Status: RL (released | freigegeben | validé) printed: 31.05.2023

Austria
Belgium
Czech Republic
Denmark
Finland
France
Germany
Italy
Netherlands

Norway
Poland
Spain
Sweden
Switzerland
Turkey
United Kingdom

