



Servo-assisted 2/2-way piston valve

- Servo-assisted piston valve up to DN 50 orifice
- Safe opening with hard-coupled piston system without differential pressure
- Vibration-resistant, push-over coil system
- Explosion-proof versions
- Energy-saving double coil technology with kick and drop design

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

Can be combined with

	Type 2518 Cable plug, form A according to DIN EN 175301 - 803	▶
	Type 1087 Timer, form A according to DIN EN 175301 - 803	▶
	Type 2509 Cable plug, form A according to DIN EN 175301 - 803	▶

Type description

The Type 6407 valve is a servo-assisted piston valve. The fix coupling between pilot valve and piston provides an opening of the valve without pressure difference. As a piston valve, the Type 6407 is particular suitable for media such as gas and steam. As well as liquids with low operating temperature below 0 °C. The stopper and the core guide pipe 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. To reduce power consumption in operation, coils with "Kick and Drop" (KD) electronics (double coil technology) are available. In combination with a plug acc. to DIN EN 175301 - 803 Form A, the valves satisfy IP65 degree of protection.

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1. General technical data

Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 6.
Material	
Seal	PTFE/graphite
Body	Brass
Coil	Epoxy
Orifice	DN 13...DN 50
Circuit function	Detailed information can be found in chapter "2. Circuit functions" on page 4.
Thermal insulation class of solenoid coil	H
Performance data	
Duty cycle	100 % continuous rating; Kick and Drop coil max. 6 switching cycles/minute
Switching time ^{1.)}	
DN 13	Opening: 30 ms Closing: 250 ms
DN 20	Opening: 30 ms Closing: 250 ms
DN 25	Opening: 60 ms Closing: 700 ms
DN 32	Opening: 80 ms Closing: 900 ms
DN 50	Opening: 500 ms Closing: 2000 ms
Electrical data	
Power consumption	Detailed information can be found in chapter "5.1. Power consumption" on page 11.
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 gases and liquid media (e.g. compressed air, water, hydraulic oil) hot water and steam
Medium temperature	
Standard version	PTFE + graphite: -40 °F...+302 °F PTFE + FKM: 14 °F...+248 °F
Steam version	PTFE + graphite: 32 °F...+302 °F PTFE + FKM: 32 °F...+248 °F
ATEX/IECEx version	Max. +194 °F
Viscosity	Max. 21 cSt
Process/Port connection & communication	
Electrical connection	Cable plug for cable Ø 7 mm acc. to DIN EN 175301 - 803 form A (not included in delivery)
Port connection	G ½, G ¾, G 1, G 1 ¼, G 1 ½, G 2, G 2 ½ NPT ½, NPT ¾, NPT 1, NPT 1 ¼, NPT 1 ½, NPT 2
Approvals and certificates	
Degree of protection	IP65 with cable plug
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	
Standard version	PTFE + graphite: -40 °F...+131 °F PTFE + FKM: 14 °F...+131 °F
Steam version	PTFE + graphite: 32 °F...+113 °F (+131 °F on request) PTFE + FKM: 32 °F...+131 °F
ATEX/IECEx version	14 °F...+104 °F

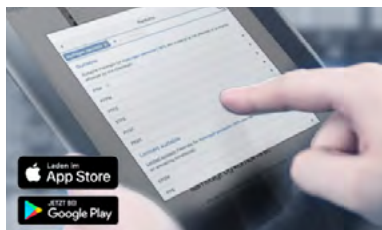
1.) Measurement at 87 psi and +68 °F at the valve outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %

2. Circuit functions

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

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



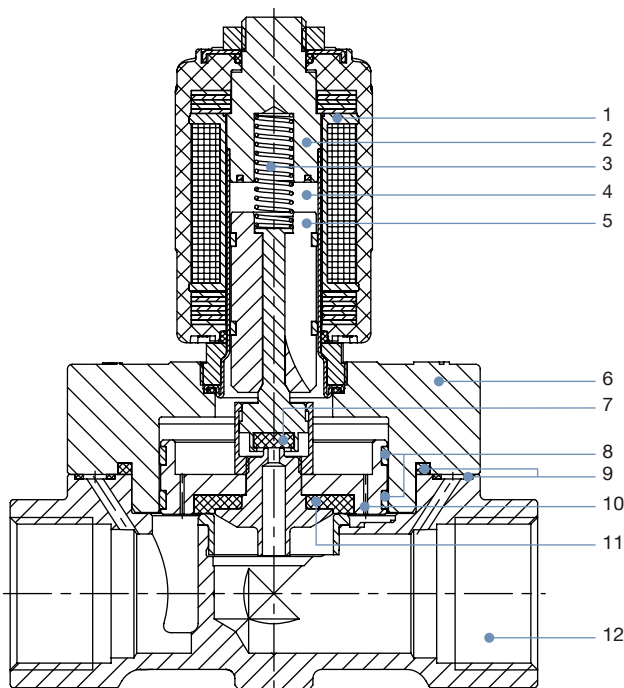
Bürkert resistApp – Chemical Resistance Chart

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

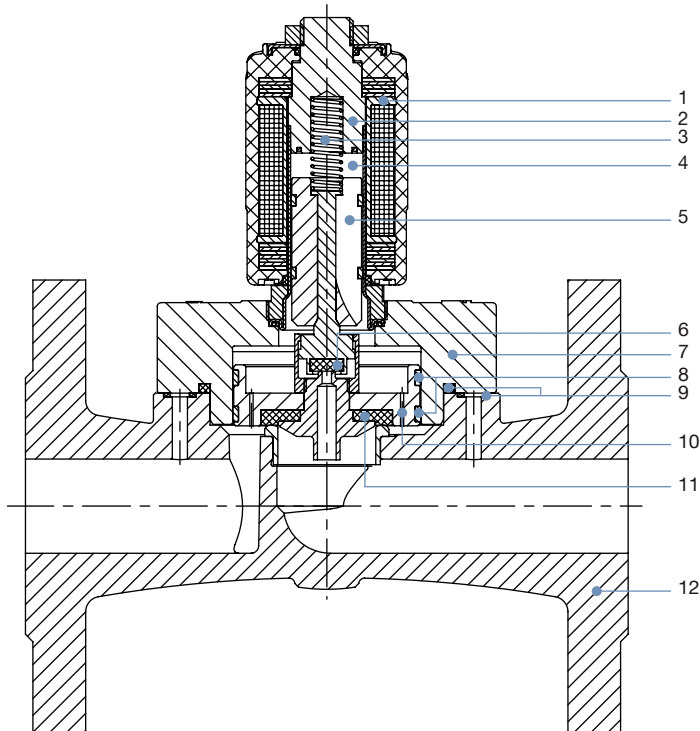
Threaded body



No.	Element	Material
1	Coil	Epoxy
2	Stopper	Stainless steel 1.4113/434 ^{1.)}
3	Spring	Stainless steel 1.4310/301 ^{1.)}
4	Armature guide tube	Stainless steel 1.4303/305 ^{1.)} /308 ^{1.)}
5	Core	Stainless steel 1.4113/434 ^{1.)}
6	Cover	Brass
7	Seal	PTFE
8	Piston rings	PTFE
9	Sealing rings	Graphite
10	Plunger	Brass
11	Piston seal	PTFE
12	Body	Brass

1.) Material designation according to AISI

Flange body



No.	Element	Material
1	Coil	Epoxy
2	Stopper	Stainless steel 1.4113/434 ^{1.)}
3	Spring	Stainless steel 1.4310/301 ^{1.)}
4	Armature guide tube	Stainless steel 1.4303/305 ^{1.)} /308 ^{1.)}
5	Core	Stainless steel 1.4113/434 ^{1.)}
6	Seal	PTFE
7	Cover	Brass
8	Piston rings	PTFE
9	Sealing rings	Graphite
10	Plunger	Brass
11	Piston seal	PTFE
12	Body	Stainless steel 1.4581/similar 316Ti ^{1.)}

1.) Material designation according to AISI

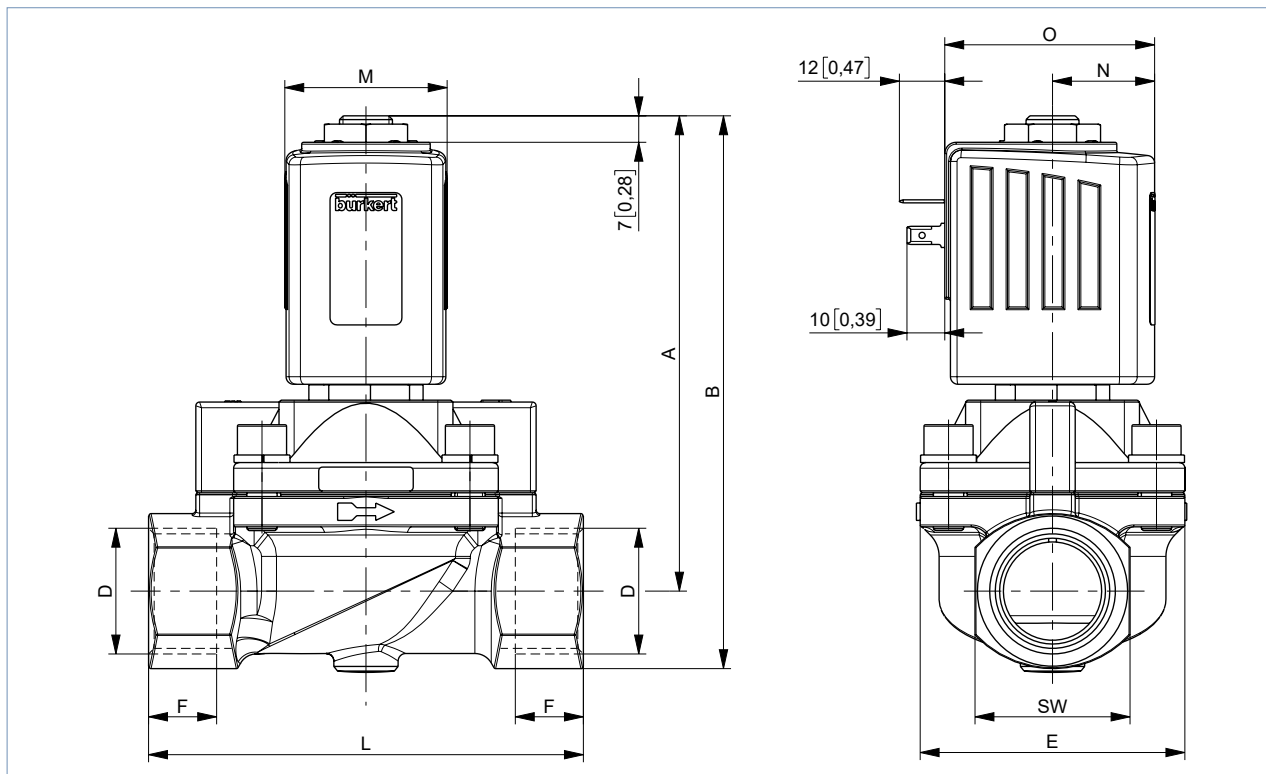
4. Dimensions

4.1. Standard version DN 13...DN 32

Threaded version

Note:

- Dimensions in mm [inch]
- 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	M		N		O	
	[mm]	[in]	[mm]	[in]	[mm]	[in]
K	42	1.65	27	1.06	55.5	2.19
L	65	2.56	37.5	1.48	72	2.83

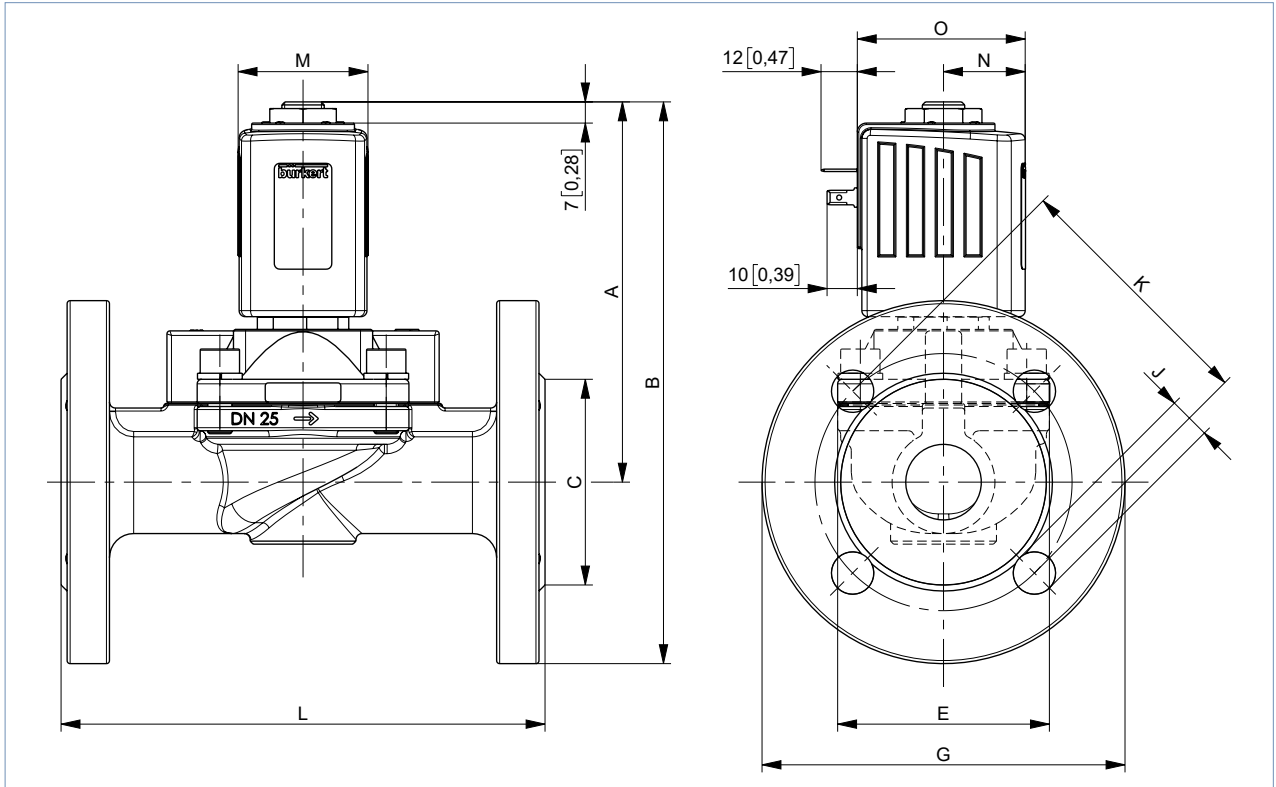
DN	A		B		G thread			NPT thread			Rc thread			E		L		SW	
	[mm]	[in]	[mm]	[in]	D1	F1		D2	F2		D3	F3		[mm]	[in]	[mm]	[in]	[mm]	[in]
					[Zoll]	[mm]	[in]	[Zoll]	[mm]	[in]	[Zoll]	[mm]	[in]						
13	118.7	4.67	132.7	5.22	-	-	-	-	-	-	Rc 3/8	10.1	-	40	1.57	65	2.56	27	1.06
13					G 1/2	14	0.55	NPT 1/2	13.7	0.54	Rc 1/2	13.2	-						
20	119.7	4.71	135.7	5.34	G 3/4	16	0.63	NPT 3/4	14	0.55	Rc 3/4	14.5	0.57	60	2.36	100	3.94	32	1.26
25	125.7	4.95	146.2	5.76	G 1	18	0.71	NPT 1	16.8	0.66	Rc 1	16.8	0.66	70	2.76	115	4.53	41	1.61
32	142.7	5.62	167.7	6.60	G 1 1/4	20	0.79	NPT 1 1/4	17.3	0.68	Rc 1 1/4	19.1	0.75	85	3.35	126	4.96	50	1.97
32	146.7	5.78	176.7	6.96	G 1 1/2	22	0.87	NPT 1 1/2	17.3	0.68	Rc 1 1/2	19.1	0.75	85	3.35	126	4.96	60	2.36

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Flange version

Note:

Dimensions in mm [inch]



Coil size	M		N		O	
	[mm]	[in]	[mm]	[in]	[mm]	[in]
K	42	1.65	27	1.06	55.5	2.19
L	65	2.56	37.5	1.48	72	2.83

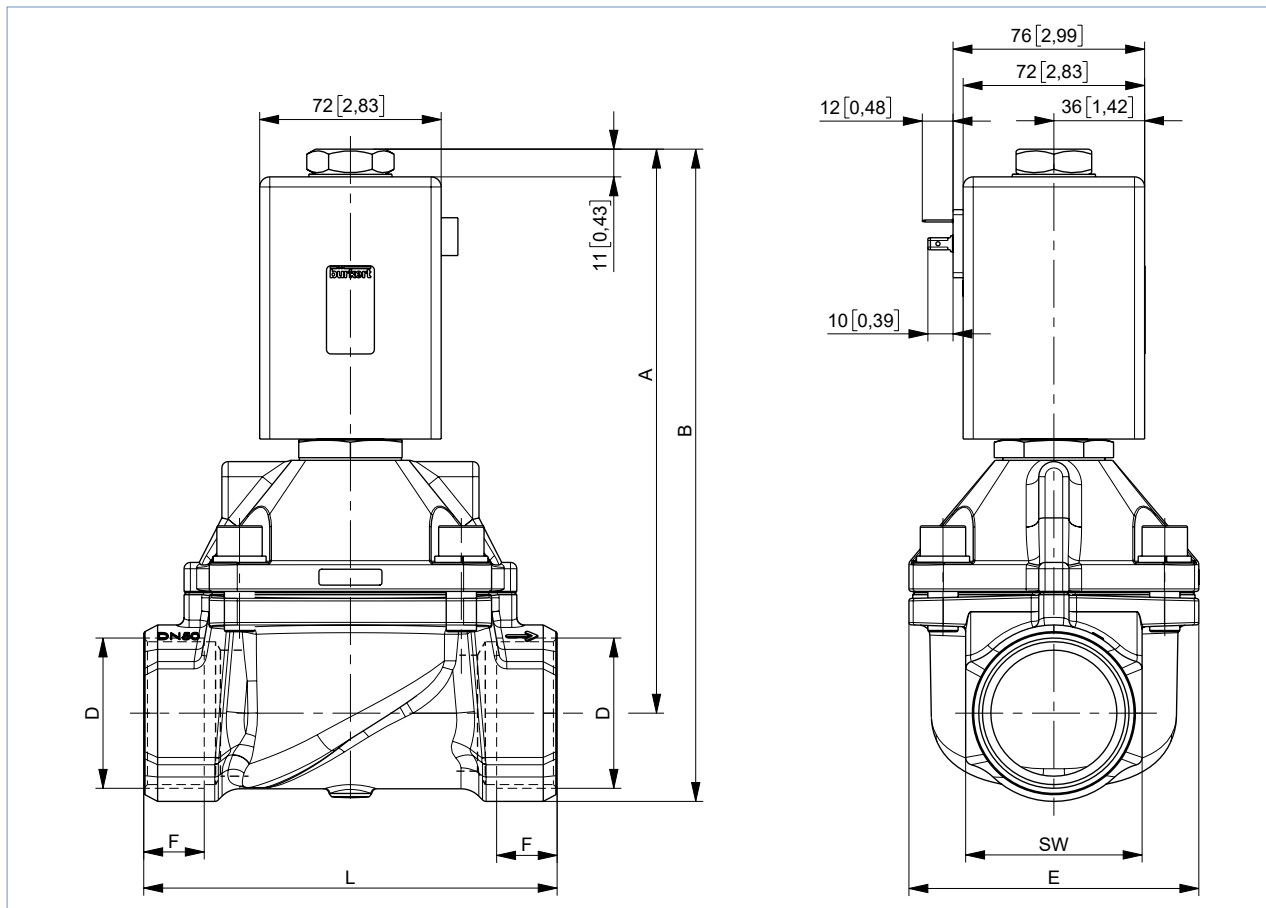
DN	A		B		C		E		G		L		J		K	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
25	129.7	5.11	189.7	7.47	68	2.68	73	2.87	120	4.72	160	6.30	14	0.55	85	3.35
32	142.7	5.62	212.7	8.37	78	3.07	85	3.35	140	5.51	180	7.09	18	0.71	100	3.94
32	146.7	5.78	221.7	8.73	88	3.46	85	3.35	150	5.91	200	7.87	18	0.71	110	4.33

4.2. Standard version DN 50

Threaded version

Note:

- Dimensions in mm [inch]
- 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



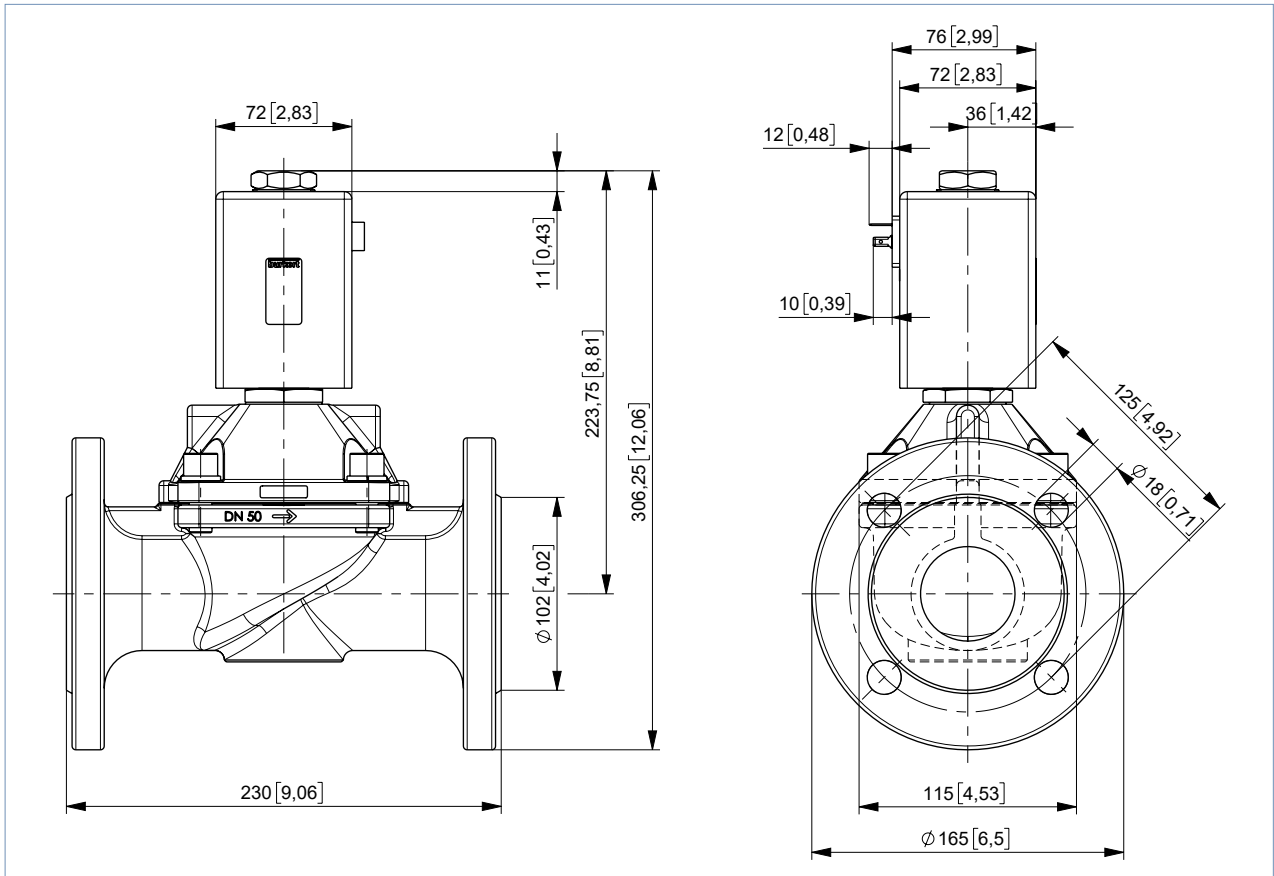
DN	A		B		G thread			NPT thread			Rc thread			E		L		SW	
	[mm]	[in]	[mm]	[in]	D1 [Zoll]	F1 [mm]	[in]	D2 [Zoll]	F2 [mm]	[in]	D3 [Zoll]	F3 [mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
50	223.9	8.81	258.9	10.19	G 2	24	0.94	NPT 2	17.6	0.69	Rc 2	23.4	0.92	115	4.53	164	6.46	70	2.76
50	223.6	8.80	266.1	10.48	G 2½	27	1.06	NPT 2½	23.6	0.93	-	-	-	115	4.53	179	7.05	85	3.35

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Flange version

Note:

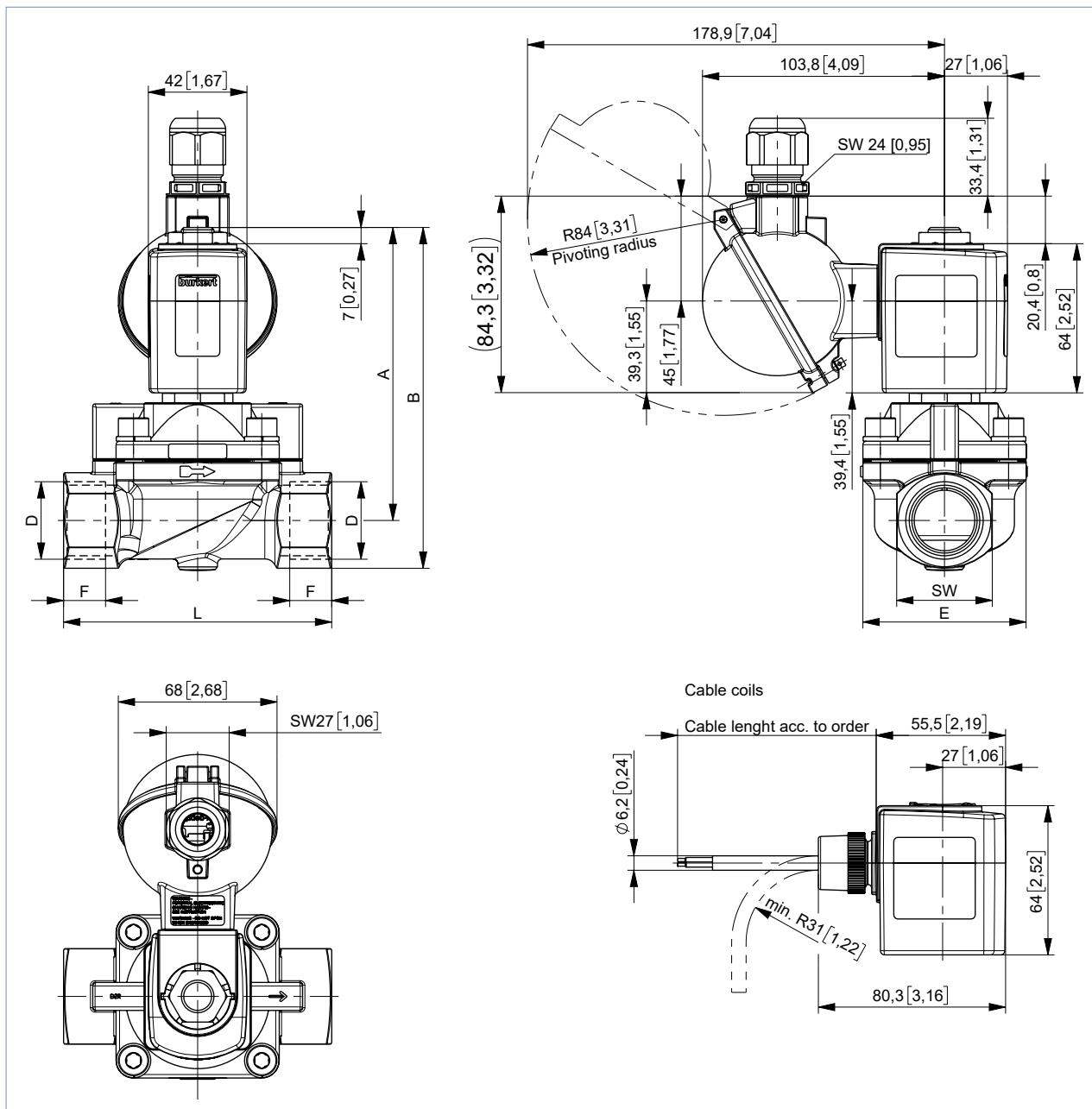
- Dimensions in mm [inch]
- The dimensions D1 and F1 apply to G-threads
- The dimensions D2 and F2 apply to NPT-threads
- The dimensions D3 and F3 apply to Rc-threads



4.3. ATEX/IECEx version

Note:

- Dimensions in mm [inch]
- 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



DN	A		B		G thread			NPT thread			Rc thread			E		L		SW	
	[mm]	[in]	[mm]	[in]	D1	F1		D2	F2		D3	F3		[mm]	[in]	[mm]	[in]	[mm]	[in]
13	118.7	4.67	132.7	5.22	-	-	-	-	-	-	Rc ¾	10.1	0.40	40	1.57	65	2.56	27	1.06
13					G ½	14	0.55	NPT ½	13.7	0.54	Rc ½	13.2	0.52						
20	119.7	4.71	135.7	5.34	G ¾	16	0.63	NPT ¾	14	0.55	Rc ¾	14.5	0.57	60	2.36	100	3.94	32	1.26
25	125.7	4.95	146.2	5.76	G 1	18	0.71	NPT 1	16.8	0.66	Rc 1	16.8	0.66	70	2.76	115	4.53	41	1.61

DTS 1000583397 EN Version: - Status: RL (released | freigegeben | valide) printed: 07.06.2023

5. Performance specifications

5.1. Power consumption

Note:

The Kick and Drop coil (AC/DC) features integrated electronics for short-term power increase and decrease in double coil technology.

Orifice	Coil size	AC			DC		Kick and Drop coil (AC/DC)			AC with external rectifier
		Inrush power	Holding power		Cold performance	Warm performance	Cold performance Inrush power	Cold performance Holding power	Warm performance Holding power	Nominal power
[mm]	[mm]	[VA]	[VA]	[W]	[W]	[W]	[W] 500 ms	[W]	[W]	[W]
13	42	140	41	16	21	16	85	8.5	7	–
13 ATEX	42	–	–	–	15	12	–	–	–	–
20	42	150	41	16	–	–	85	8.5	7	–
25	42	160	41	16	–	–	85	8.5	7	–
32	42	170	41	16	–	–	85	8.5	7	–
20...25 ATEX	42	–	–	–	–	–	44	6.5	5.5	–
20...32	65	–	–	–	28	21	–	–	–	–
50	72	–	–	–	39	30	–	–	–	45

6. Product accessories

6.1. Special tool to turn the terminal box

Note:

Detailed ordering information can be found in chapter [“Special tool to turn the terminal box” on page 17.](#)

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.

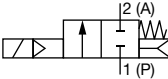
[Try out our product filter](#)

7.3. Ordering chart standard version DN 13...DN 32

UL Recognized with coil UL Recognized (cURus)

Note:

Please note that the cable plug **Type 2518 ▶** is included. Further versions are available on request. For more information on the cable plug, see **“Cable plug Type 2518, form A according to DIN EN 175301-803” on page 16.**

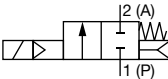
Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)}	Max. medium temperature	Coil size	Article no.			
							024/DC	024/50-60 or DC	110-120/50-60	230-240/50-60
							[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
		[mm]	[gal/min]	[psi]	[°F]	[inch]				
Brass body, seal material PTFE/graphite										
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT ½	13	4.28	0...145	302	1.65	348888 ☒	348883 ☒	348893 ☒	348898 ☒
	NPT ¾	20	6.47	0...145	302	1.65	–	348884 ☒	348894 ☒	348900 ☒
						2.56	348889 ☒	–	–	–
	NPT 1	25	11.56	0...145	302	1.65	–	348885 ☒	348895 ☒	348901 ☒
						2.56	348890 ☒	–	–	–
	NPT 1¼	32	18.50	0...145	302	1.65	–	348886 ☒	348896 ☒	348902 ☒
						2.56	348891 ☒	–	–	–
	NPT 1½	32	18.50	0...145	302	1.65	–	348887 ☒	348897 ☒	348903 ☒
						2.56	348892 ☒	–	–	–

1.) Maximum allowable working pressure

UL Listed with coil UL Recognized (cULus)

Note:

Please note that the cable plug **Type 2509 ▶** is included. Further versions are available on request. For more information on the cable plug, see **“Cable plug Type 2518, form A according to DIN EN 175301-803” on page 16.**

Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)}	Max. medium temperature	Coil size	Article no.			
							024/DC	024/50-60 or DC	110-120/50-60	230-240/50-60
							[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
		[mm]	[gal/min]	[psi]	[°F]	[inch]				
Brass body, seal material PTFE/graphite										
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT ½	13	4.28	0...145	302	1.65	X	X	X	X
	NPT ¾	20	6.47	0...145	302	1.65	–	X	X	X
						2.56	X	–	–	–
	NPT 1	25	11.56	0...145	302	1.65	–	X	X	X
						2.56	X	–	–	–
	NPT 1¼	32	18.50	0...145	302	1.65	–	X	X	X
						2.56	X	–	–	–
	NPT 1½	32	18.50	0...145	302	1.65	–	X	X	X
						2.56	X	–	–	–

X: on request

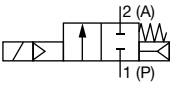
1.) Maximum allowable working pressure

7.4. Ordering chart steam version with valve seat in stainless steel DN 13...DN 32

UL Recognized with coil UL Recognized (cURus)

Note:

- Please note that the cable plug **Type 2518 ▶** is included. Further versions are available on request. For more information on the cable plug, see "**Cable plug Type 2518, form A according to DIN EN 175301-803**" on page 16.
- Due to the temperature range, the cable plug with silicone seal is provided for steam versions.

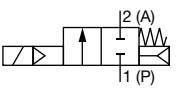
Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)})	Max. medium temperature	Coil size	Article no.			
							024/DC	024/50-60 or DC	110-120/50-60	230-240/50-60
		[mm]	[gal/min]	[psi]	[°F]	[inch]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
Brass body, seal material PTFE/graphite										
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT ½	13	4.28	0...145	302	1.65	348867 𐀀	348862 𐀀	348872 𐀀	348878 𐀀
	NPT ¾	20	6.47	0...145	302	1.65	-	348863 𐀀	348874 𐀀	348879 𐀀
						2.56	348868 𐀀	-	-	-
	NPT 1	25	11.56	0...145	302	1.65	-	348864 𐀀	348875 𐀀	348880 𐀀
						2.56	348869 𐀀	-	-	-
	NPT 1¼	32	18.50	0...145	302	1.65	-	348865 𐀀	348876 𐀀	348881 𐀀
						2.56	348870 𐀀	-	-	-
	NPT 1½	32	18.50	0...145	302	1.65	-	348866 𐀀	348877 𐀀	348882 𐀀
						2.56	348871 𐀀	-	-	-

1.) Maximum allowable working pressure

UL Listed with coil UL Recognized (cULus)

Note:

- Please note that the cable plug **Type 2509 ▶** is included. Further versions are available on request. For more information on the cable plug, see "**Cable plug Type 2518, form A according to DIN EN 175301-803**" on page 16.
- Due to the temperature range, the cable plug with silicone seal is provided for steam versions.

Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)})	Max. medium temperature	Coil size	Article no.			
							024/DC	024/50-60 or DC	110-120/50-60	230-240/50-60
		[mm]	[gal/min]	[psi]	[°F]	[inch]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
Brass body, seal material PTFE/graphite										
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT ½	13	4.28	0...145	302	1.65	X	X	X	X
	NPT ¾	20	6.47	0...145	302	1.65	-	X	X	X
						2.56	X	-	-	-
	NPT 1	25	11.56	0...145	302	1.65	-	X	X	X
						2.56	X	-	-	-
	NPT 1¼	32	18.50	0...145	302	1.65	-	X	X	X
						2.56	X	-	-	-
	NPT 1½	32	18.50	0...145	302	1.65	-	X	X	X
						2.56	X	-	-	-

X: on request

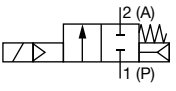
1.) Maximum allowable working pressure

7.5. Ordering chart steam version with flange connection DN 25 and DN 32

Coil UL recognized (cURus)

Note:

- Please note that the cable plug **Type 2518 ▶** is included. Further versions are available on request. For more information on the cable plug, see “**Cable plug Type 2518, form A according to DIN EN 175301-803**” on page 16.
- Due to the temperature range, the cable plug with silicone seal is provided for steam versions.

Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)})	Max. medium temperature	Coil size	Article no.			
							024/DC	024/50-60 or DC	110-120/50-60	230-240/50-60
							[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
[mm]	[gal/min]	[psi]	[°F]	[inch]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]		
Stainless steel/brass body, seal material PTFE/graphite										
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	Flange acc. to DIN EN 1092-1	25	11.56	0...145	302	1.65	–	X	X	X
		2.56	X	–	–	–				
	Flange acc. to DIN EN 1092-1	32	18.50	0...145	302	1.65	–	X	X	X
		2.56	X	–	–	–				
	Flange acc. to DIN EN 1092-1 DN 40	32	18.50	0...145	302	1.65	–	X	X	X
		2.56	X	–	–	–				

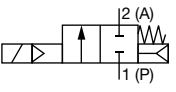
X: on request

1.) Maximum allowable working pressure

7.6. Ordering chart standard version DN 50

Note:

- Please note that the cable plug **Type 2518 ▶** is included. Further versions are available on request. For more information on the cable plug, see “**Cable plug Type 2518, form A according to DIN EN 175301-803**” on page 16.
- For AC voltage versions a cable plug with rectifier is included in the scope of delivery.

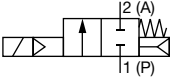
Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)})	Max. medium temperature	Coil size	Article no.	
							024/DC	120/50-60 or DC
							[V/Hz]	[V/Hz]
[mm]	[gal/min]	[psi]	[°F]	[inch]	[V/Hz]	[V/Hz]		
Stainless steel/brass body, seal material PTFE/graphite								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT 2	50	41.62	0...145	302	2.83	X	X

X: on request

1.) Maximum allowable working pressure

Steam version with valve seat in stainless steel DN 50
Note:

- Please note that the cable plug **Type 2518** ▶ is included. Further versions are available on request. For more information on the cable plug, see “**Cable plug Type 2518, form A according to DIN EN 175301-803**” on page 16.
- For AC voltage versions a cable plug with rectifier is included in the scope of delivery.

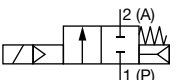
Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)})	Max. medium temperature	Coil size	Article no.	
							024/DC	120/50-60 or DC
							[V/Hz]	[V/Hz]
Stainless steel/brass body, seal material PTFE/graphite								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT 2	50	41.62	0...145	302	2.83	467932	X
	Flange acc. to DIN EN 1092-1	50	41.62	0...145	302	2.83	363051	X

X: on request

1.) Maximum allowable working pressure

7.7. Ordering chart explosion proof version DN 13...DN 25
Coil UL Listed (cULus) for hazardous locations, Class 1, Division 2 cable version
Note:

With 3 m/9'10" cable as standard. Other lengths on request.

Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)})	Max. medium temperature	Coil size	Article no.	
							024/50-60 or DC	120/60
							[V/Hz]	[V/Hz]
Brass body, seal material PTFE/FKM								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT ½	13	4.28	0...145	194	1.65	X	X
	NPT ¾	20	6.47	0...145	194	1.65	X	X
	NPT 1	25	11.56	0...145	194	1.65	X	X

X: on request

1.) Maximum allowable working pressure

Coil UL Listed (cULus) for hazardous locations, Class 1, Division 2 terminal box version

Circuit function	Port connection	Orifice	C _v value water	Pressure range (MAWP ^{1.)}	Max. medium temperature	Coil size	Article no.	
							024/50 - 60 or DC	120/60
							[V/Hz]	[V/Hz]
Brass body, seal material PTFE/FKM								
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	NPT 1/2	13	4.28	0...145	194	1.65	X	X
	NPT 3/4	20	6.47	0...145	194	1.65	X	X
	NPT 1	25	11.56	0...145	194	1.65	X	X

X: on request

1.) Maximum allowable working pressure

Further versions on request	
Approval ATEX / IECEx: Ex II 2G / Ex mb IIC T4 GB Ex II 2D / Ex mb IIIC T130 °C DB	Voltage Non-standard voltages
Process connection <ul style="list-style-type: none"> G RC 	Temperature Special temperature ranges

7.8. Ordering chart accessories

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

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

Note:

- Without circuitry (Standard)
- For more information on the cable plug, see data sheet **Type 2509** ▶.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry	0...250 V AC/DC	137943

Special tool to turn the terminal box

Note:

This special tool is not supplied with the valve.

Description	Components of the set	Article no.
<p>Set SC02-AC10</p>	<ul style="list-style-type: none"> • Special wrench • Service manual 	293488

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