Direct-acting 3/2-way plunger valve

- Direct-acting and compact small valve up to DN 1.6
- Slipped over coil system
- Banjo fitting for direct mounting on pneumatic valves
- Simple and fast push-in, flange or manifold mounting
- Explosion-proof variants

Product variants described in the data sheet may differ from the product presentation and description.
The German or English (EU) data sheet is the master version. Other language versions may be temporarily out of date and will be updated accordingly.

Type description

The 7012 valve is a direct-acting plunger valve. The stopper and the core guide tube are welded together to increase pressure resistance and leak-tightness. Various housing and seal material combinations are available depending on the actual application. A Bürkert-specific flange variant (SFB) enables the space-saving arrangement of valves on a multiple manifold. The range is supplemented by explosion-proof variants. Push-in fittings can be selected for a flexible hose connection. A banjo fitting with banjo bolt is the ideal solution for easy direct mounting on a pneumatic actuator.er Optional manual override enables quick start-up and optimal maintenance. In combination with a plug to industry standard shape B or DIN EN 17301 - 803 shape C, the valves satisfy degree of protection IP65.

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Visit product website

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1. General technical data

1.1. Standard and banjo variant

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 10.
Material	
Seal	FKM, EPDM
Body	Brass, polyamide (PA), polyphenylene sulphide (PPS), stainless steel 1.4305/303
Manual override	Optional, standard for Type 7012 banjo variant
Weight	
Standard variant 24.5 mm solenoid coil	146 g (with G ⅛)
Standard variant 20 mm solenoid coil	120 g (with G ⅛)
Banjo variant	135 g
Orifice	DN 1.2...DN 2.0
Circuit function	C and D Further information can be found in chapter "2. Circuit functions" on page 5.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	
Single valve	100 % resp. 50 % continuous operation
For block mounting on multiple manifold	With 4 W/5 W solenoid coil 100 % ED (at max. + 55 °C)
Switching time [1.]	
Standard variant	Orifice 1.2...1.6 mm: opening 8...12 ms, closing 8...12 ms
Banjo variant	Orifice 1.2 mm: opening 7...12 ms, closing 7...12 ms
Electrical data	
Operating 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
Power consumption	Further information can be found in chapter "7. Performance specifications" on page 18.
Voltage tolerance	± 10 %
Medium data	
Operating medium	Neutral gases and liquids (e.g. compressed air, water, hydraulic oil, technical vacuum)
Medium temperature	
Standard variant	- 10 °C...+ 100 °C
Banjo variant	- 10 °C...+ 60 °C
Viscosity	Max. 21 mm^2/s
Product connections	
Electrical connection	• Plug contacts according to DIN EN 175301 - 80 form C for cable plug **Type 2516** ▶. Further information can be found in chapter "Cable plug Type 2516, form C according to DIN EN 175301 - 803" on page 27. • Plug contacts according to industry standard form B for cable plug **Type 2507** ▶. Further information can be found in chapter "Cable plug Type 2507, form B according to industry standard" on page 28. • Flat-pin terminal as protection class III device • Flying leads connection on request for coil size 20 mm
Port connection	
Standard variant	M5, G ⅛, NPT ⅛, Flange
Banjo variant	G ⅛, G ¼, NPT ⅛, NPT ¼ and hose connector Ø 6 mm
Approvals and conformities	
Degree of protection	IP65 with cable plug and ATEX/IECEx cable variant
North America (USA/Canada)	Further information can be found in chapter "3.5. North America (USA/Canada)" on page 6.
Drinking water	Further information can be found in chapter "3.6. Drinking water" on page 6.
Food and beverage/hygiene	Further information can be found in chapter "3.7. Food and beverage/hygiene" on page 7.

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Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	
Standard variant	Max. + 55 °C resp. + 75 °C (depending on power level)
Banjo variant	- 10 °C...+ 55 °C resp. + 75 °C (depending on power level)

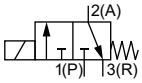
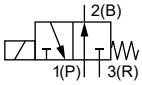
1.) Measurement at + 20 °C, 6 bar at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %

1.2. ATEX/IECEx cable variant

Product properties	
Material	
Seal	FKM, EPDM
Body	Brass, stainless steel 1.4305/303
Circuit function	A and B Further information can be found in chapter "2. Circuit functions" on page 5.
Available coil size	SG3 (24.5 mm width)
Performance data	
Operating pressure	Up to 34 bar (depending on orifice and coil power)
Medium data	
Operating medium	Neutral gases and liquids (e.g. compressed air, water, hydraulic oil, technical vacuum)
Medium temperature [1.]	
FKM	- 10 °C...+ 100 °C
EPDM	- 30 °C...+ 100 °C
Product connections	
Electrical connection	ATEX/IECEx cable variant with 3 m moulded-in cable
Port connection	
Thread	G ⅛, NPT ⅛, RC⅛, M5, UNF 10 - 32
Flange	Flange "FK01"
Approvals and conformities	
Degree of protection	IP65 with cable plug and ATEX/IECEx cable variant
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 6.
Environment and installation	
Ambient temperature [1.]	
FKM	- 10 °C...+ 55 °C (max. + 60 °C on request)
EPDM	- 30 °C...+ 55 °C (max. + 60 °C on request)

1.) The minimum temperature depends on the seal material.

2. Circuit functions

Symbol	Description
	**Circuit function C (CF C)** 3/2-way solenoid valve Direct-acting Normally closed
	**Circuit function D (CF D)** 3/2-way solenoid valve Direct-acting Normally open

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3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the approvals or conformities indicated below.

3.2. Conformity

In accordance with the EU Declaration of Conformity, the product is compliant with the EU directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Explosion protection

Approval	Description
	Optional: Explosion protection (valid for coils with fixed cable outlet) **ATEX:** EPS 21 ATEX 1 128 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db **IECEx:** IECEx EPS 21.0045X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db The fixed cable is halogen-free according to IEC 60754 - 1

3.5. North America (USA/Canada)

Approval	Description
	Valid for coils: UL Recognized for the USA and Canada The coils are UL Recognized for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139

3.6. Drinking water

Conformity	Description
H_2O	**Suitable for use in drinking water applications** The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV). **PA body:** PF36: Suitable for products with a maximum temperature of + 60 °C (warm water) **PPS/brass/stainless steel body:** PF39: Suitable for products with a maximum temperature of + 85 °C (hot water)

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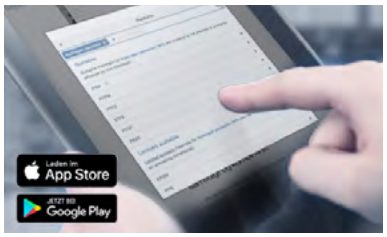
3.7. Food and beverage/hygiene

Conformity	Description
FDA	**FDA – Code of Federal Regulations (valid for variable code PL02, PL03)** All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
USP	**United States Pharmacopeial Convention (USP) (valid for variable code PL04)** All wetted materials are biocompatible according to the manufacturer's declaration.
	EC Regulation 1935/2004 of the European Parliament and of the Council (valid for variable code PL01, PL02) All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.

4. Materials

4.1. Bürkert resistApp



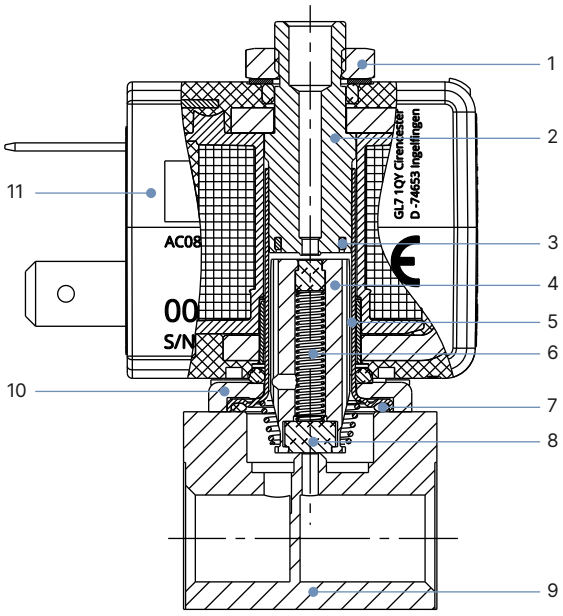
Bürkert resistApp – Chemical resistance chart

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

Start chemical resistance check

4.2. Material specifications

Standard variant



No.	Element	Material
1	Nut	DIN 176 Surface finish thick film passivated KOSA0101
2	Stopper	Stainless steel 1.4113/434
3	Shading ring	Copper (silver optional)
4	Core	Stainless steel 1.4113/434
5	Core guide tube	Stainless steel 1.4303/305L
6	Spring	Stainless steel 1.4310/301
7	O-ring	FKM/EPDM
8	Seal	FKM/EPDM
9	Valve body	Brass, stainless steel 1.4305/303 PA (polyamide)
10	Flange	• Surface finish thick film passivated KOSA0101 (brass variant) • Nickel-plated surface (stainless steel variant)
11	Coil	Epoxy

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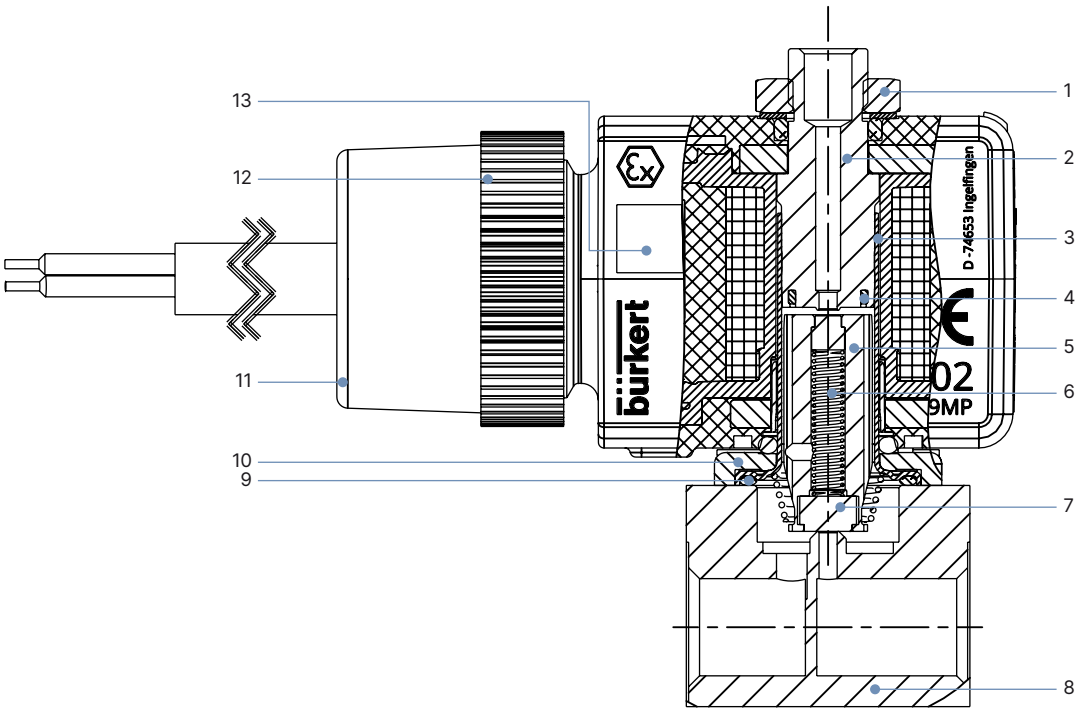
ATEX/IECEx cable variant



No.	Element	Material
1	Nut	DIN 176 Surface finish thick film passivated KOSA0101
2	Stopper	Stainless steel 1.4113/434
3	Core guide tube	Stainless steel 1.4303 ST/305L
4	Shading ring	Copper (optional silver)
5	Core	Stainless steel 1.4113/434
6	Spring	Stainless steel 1.4310/301
7	Seal	FKM/EPDM
8	Valve body	Brass, stainless steel 1.4305/303 PA (polyamide)
9	O-ring	FKM/EPDM
10	Flange	• Surface finish thick film passivated KOSA0101 (brass variant) • Nickel-plated surface (stainless steel variant)
11	Sealing ring	Silicone
12	Union nut	PA (Polyamide)
13	Coil	Epoxy

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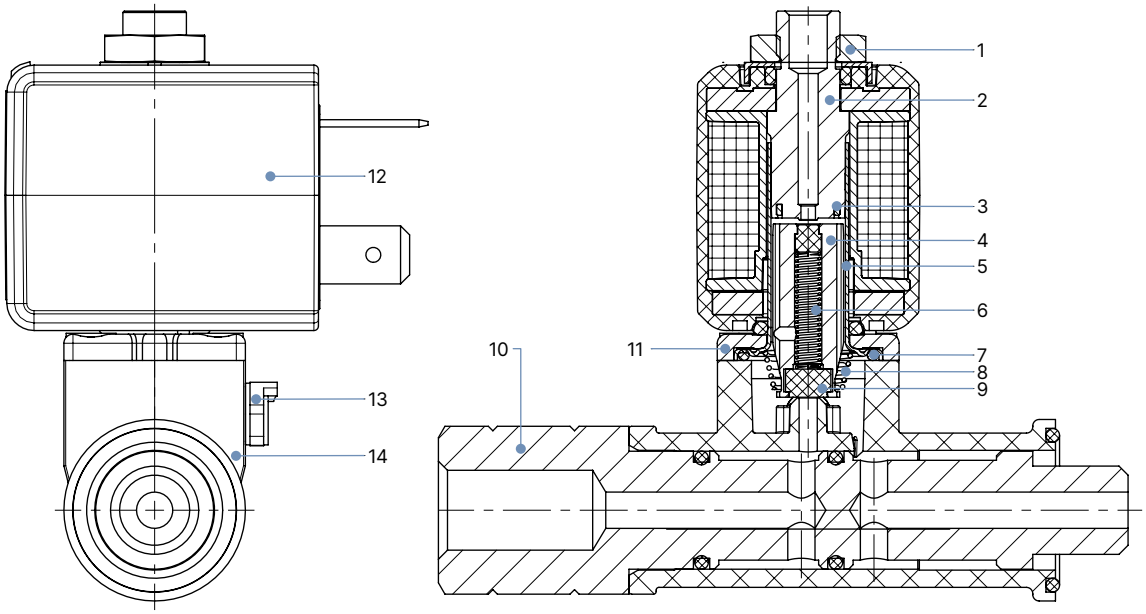
Banjo variant



No.	Element	Material
1	Nut	DIN 176 Surface finish thick film passivated KOSA0101
2	Stopper	Stainless steel 1.4113
3	Shading ring	Copper (silver optional)
4	Core	Stainless steel 1.4113
5	Core guide tube	Stainless steel 1.4303 ST
6	Spring	Stainless steel 1.4310
7	O-ring	FKM
8	Spring	Stainless steel 1.4310
9	Seal	FKM
10	Banjo bolt	Brass
11	Flange	• Surface finish thick film passivated KOSA0101 (brass variant) • Nickel-plated surface (stainless steel variant)
12	Coil	Epoxy
13	Manual override	Durethan
14	Body	PPS (polyphenylene sulphide)

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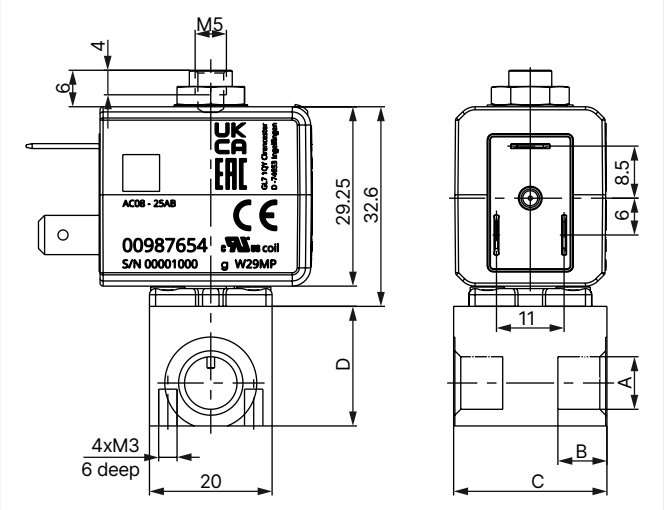
5. Dimensions

5.1. Standard variant

Threaded variant

Note:

- Dimensions in mm
- Variants according to industry standard form B

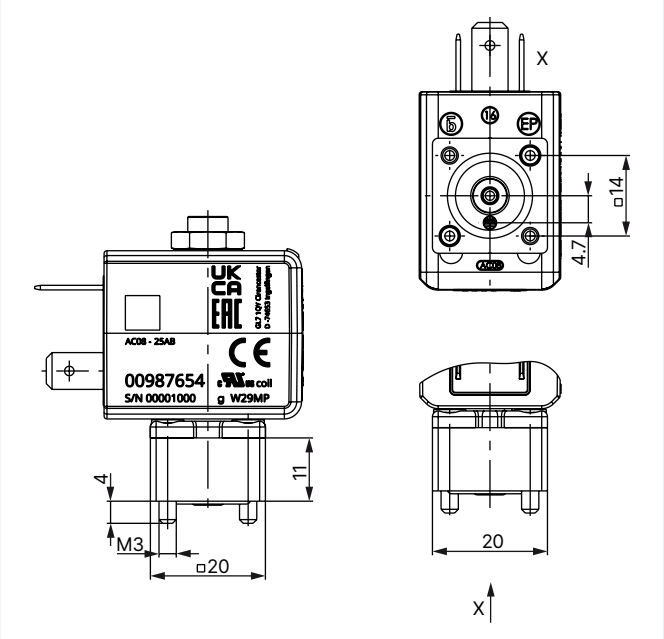


Port connection	A	B	C	D
		[mm]	[mm]	[mm]
Thread	M5	5	20	14
	G ⅛	8	25	19.5
	NPT ⅛	7	25	19.5

Flange variant

Note:

- Dimensions in mm
- Variants according to industry standard form B



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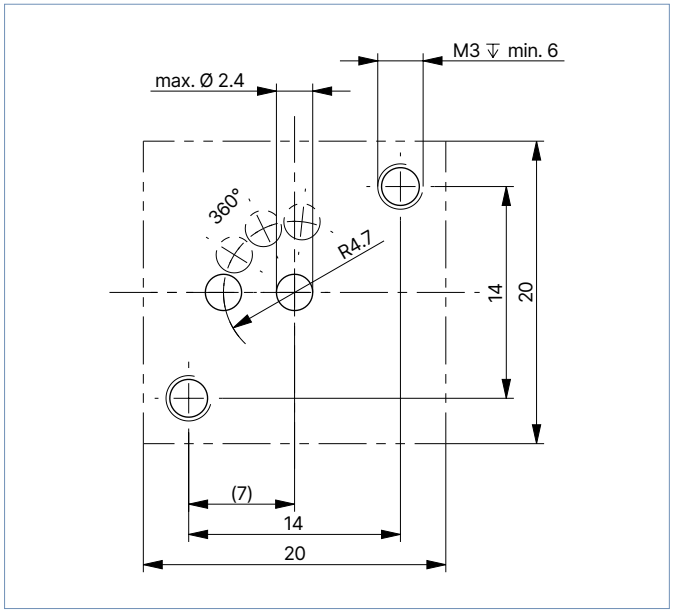
Flange pattern

Note:

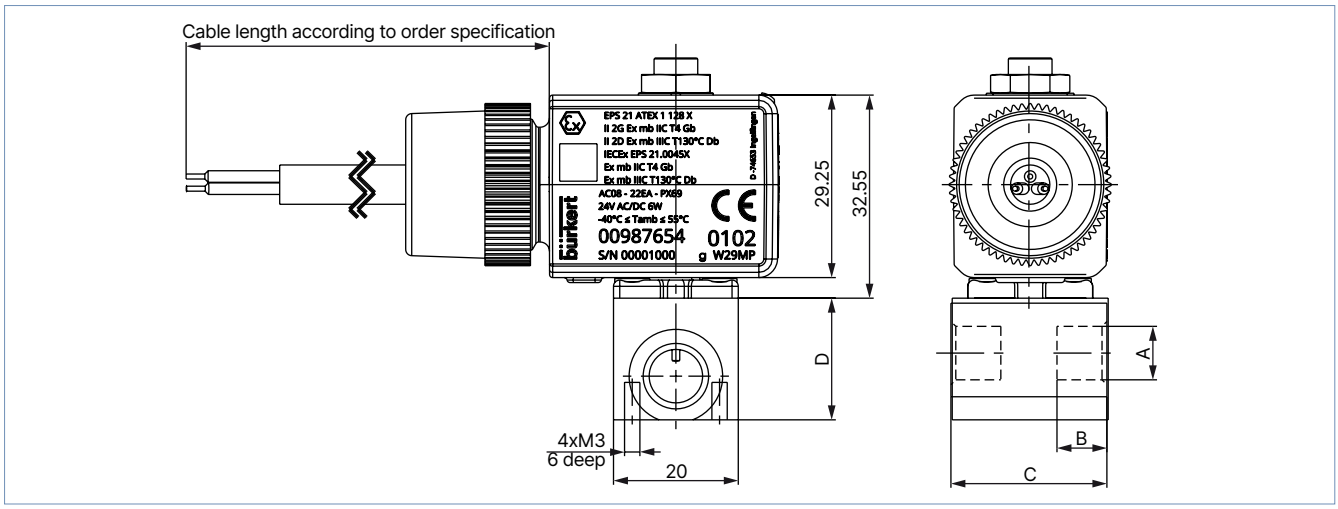
- Dimensions in mm
- On the connection side, the geometries are to be realised as shown in the following drawing.
- Flange variant (FK01) according to FST 1000225877



5.2. ATEX/IECEx cable variant

Threaded variant

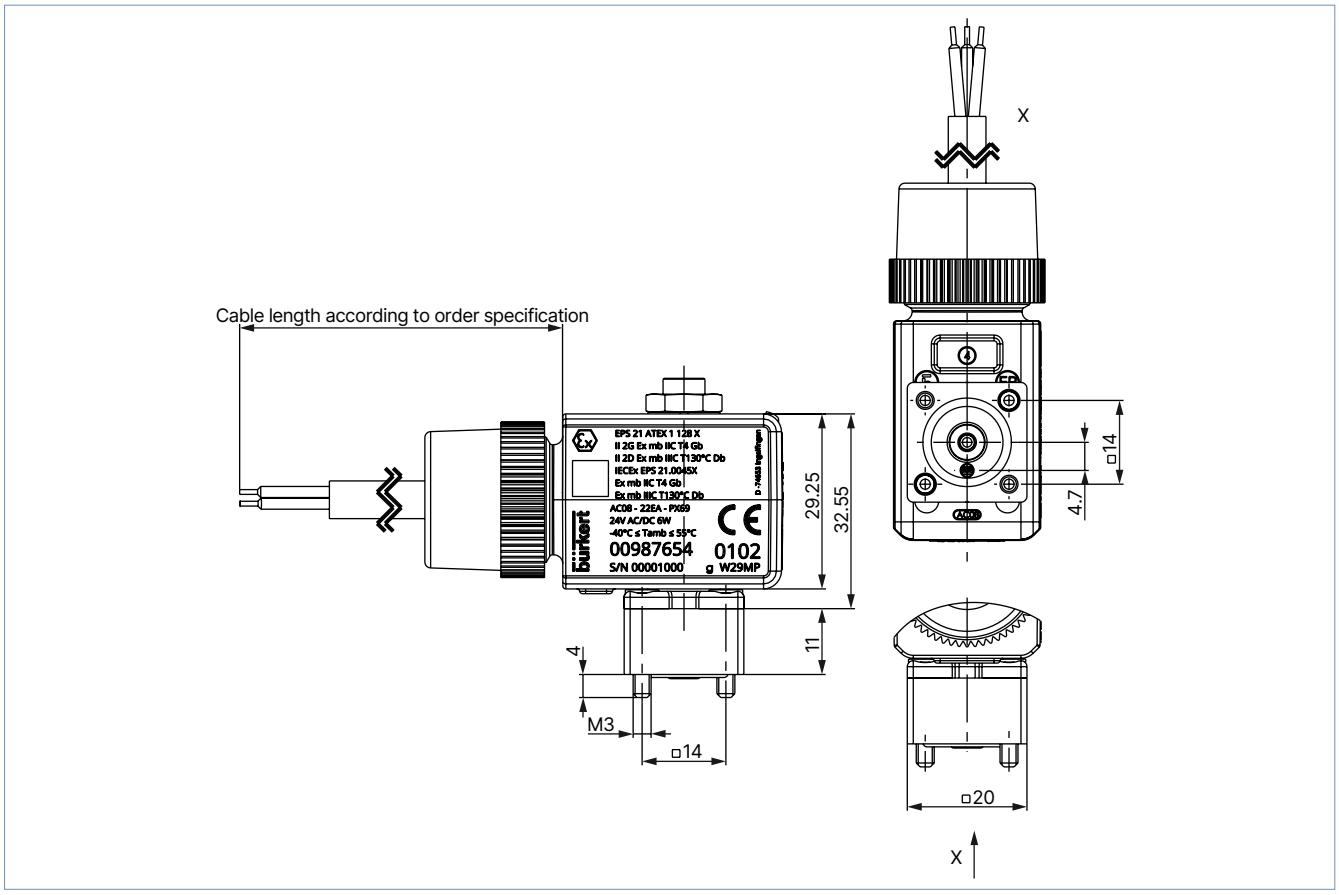
Note:
Dimensions in mm



Port connection	A	B	C	D
		[mm]	[mm]	[mm]
Thread	M5	5	20	14
Thread	G ⅛	8	25	19.5

Flange variant

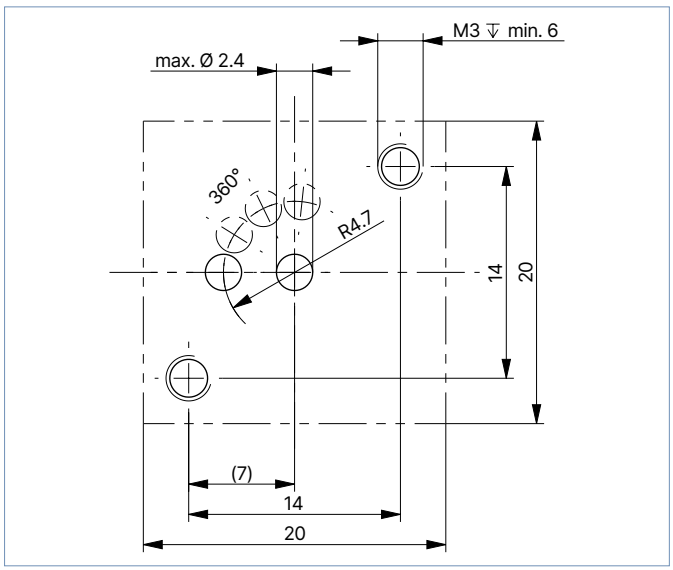
Note:
Dimensions in mm



Flange pattern

Note:

- Dimensions in mm
- On the connection side, the geometries are to be realised as shown in the following drawing.
- Flange variant (FK01) according to FST 1000225877



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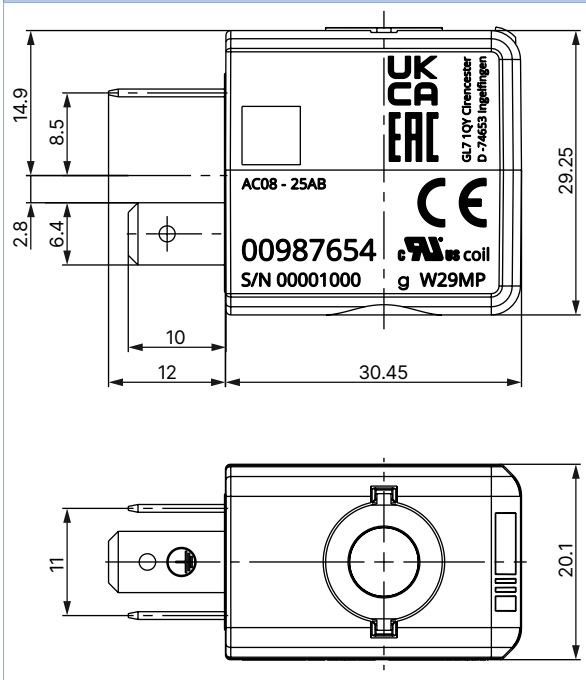
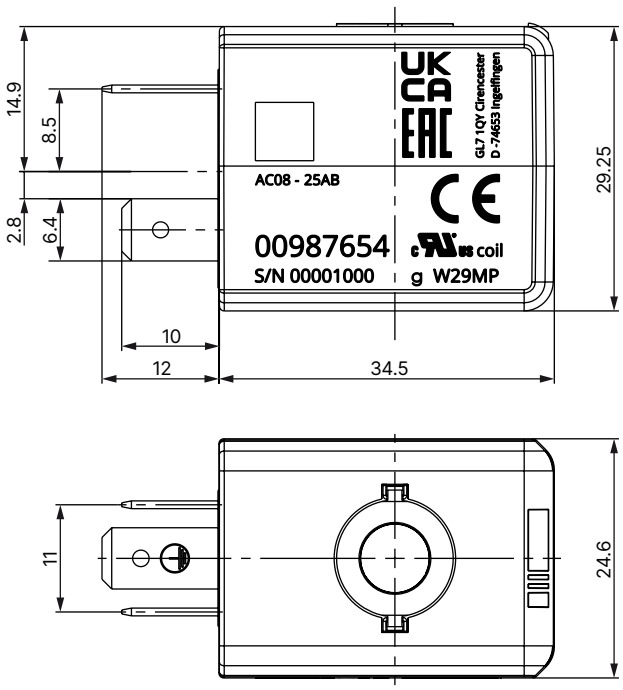
5.3. Coil variants

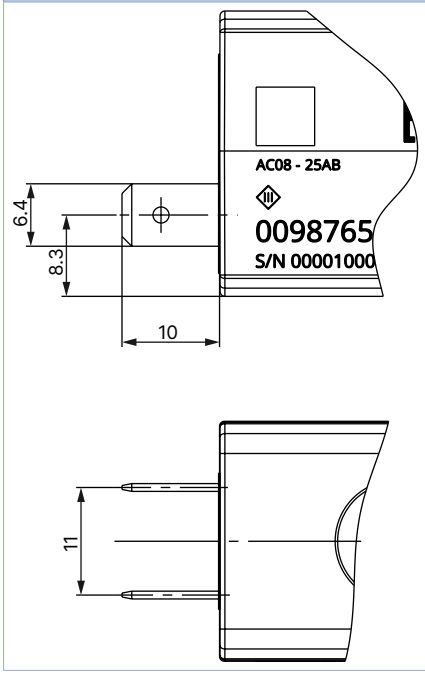
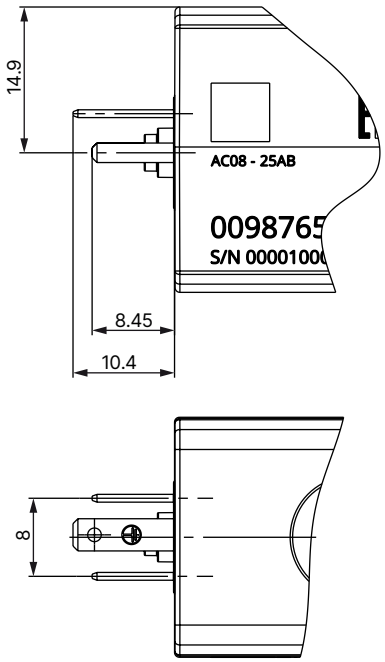
Variants according to industry standard form B

Note:
Dimensions in mm

Coil size 2 (20 mm)	Coil size 3 (24.5 mm)
	

Further electrical connections

Note:
- Dimensions in mm
- Dimensions apply to coil sizes 20 mm and 24.5 mm

Variant flat-pin terminal as protection class III device	Variant according to DIN EN 175301 - 803 form C
	

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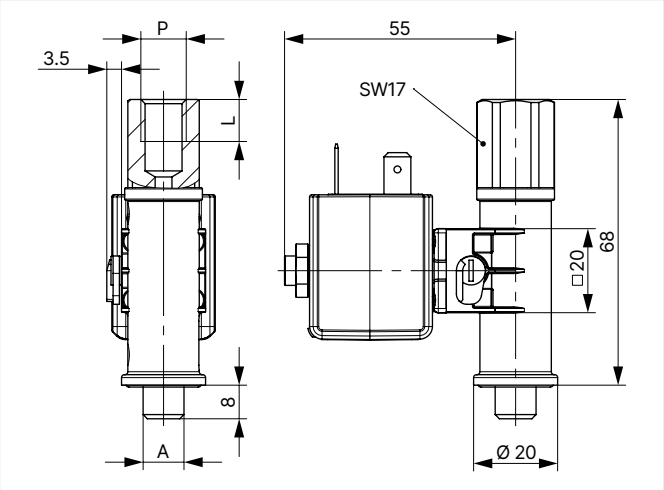
5.4. Banjo variant

With 76 mm banjo bolt

Note:

- Dimensions in mm
- Coil size 24.5 mm
- Available orifices: 1.2 mm, 1.6 mm and 2.0 mm

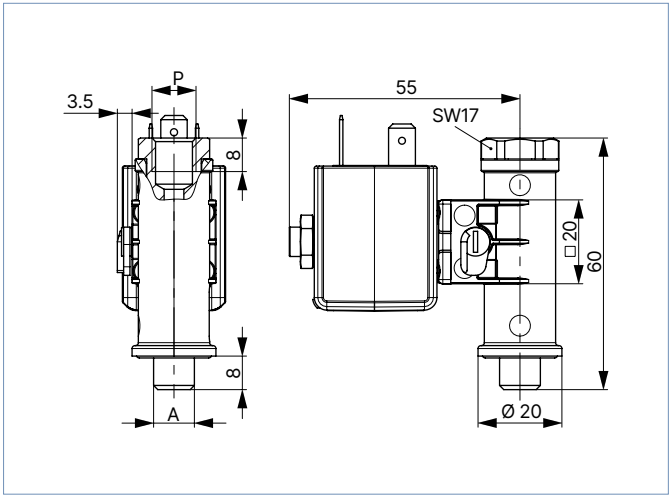


Port connection	P	A	L
	[inch]	[inch]	[mm]
BJ02	G ¼	G ¼	12
BJ03	NPT ¼	G ⅛	12.9
BJ04	NPT ¼	G ¼	12.9
BJ05	G ¼	G ⅛	12
BJ07	NPT ⅛	G ⅛	8.9

With 60 mm banjo bolt

Note:

- Dimensions in mm
- Coil size 24.5 mm
- Available orifices: 1.2 mm, 1.6 mm and 2.0 mm



Port connection	P	A	L
	[inch]	[inch]	[mm]
BJ01	G ⅛	G ⅛	8
BJ06	G ⅛	G ¼	8

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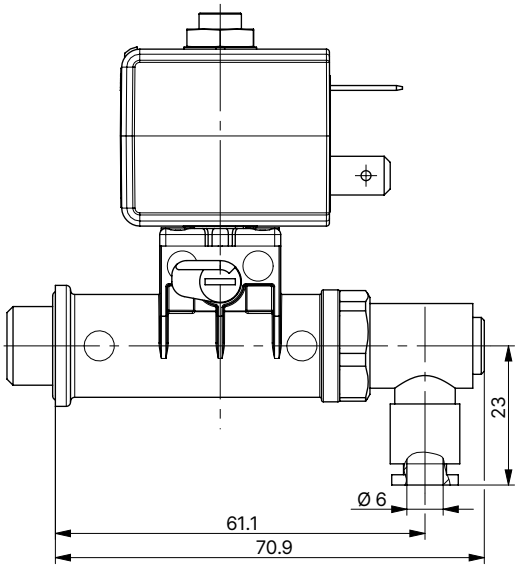
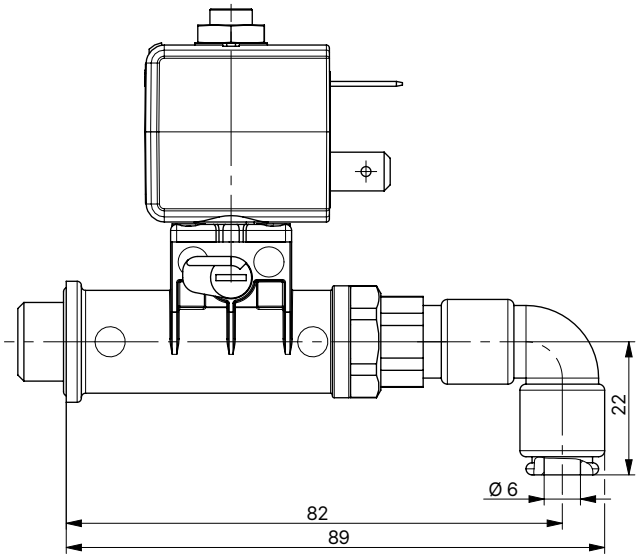
With enclosed push-in hose connector, rotatable

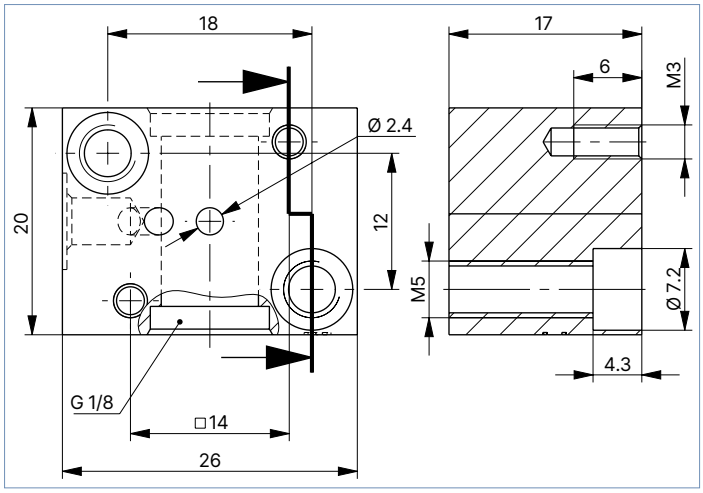
Note:

- Dimensions in mm
- Only available for banjo variants with 60 mm banjo bolt and port connection BJ01 and BJ06
- Minimum order quantity 50 pieces

Elbow screw fitting, rotatable with O-ring, made of nickel-plated brass, supplied loose (variable code: LB26)	Elbow screw fitting, rotatable with O-ring, made of POM, supplied loose (variable code: LB27)
	

5.5. Single manifold

Note:
Dimensions in mm



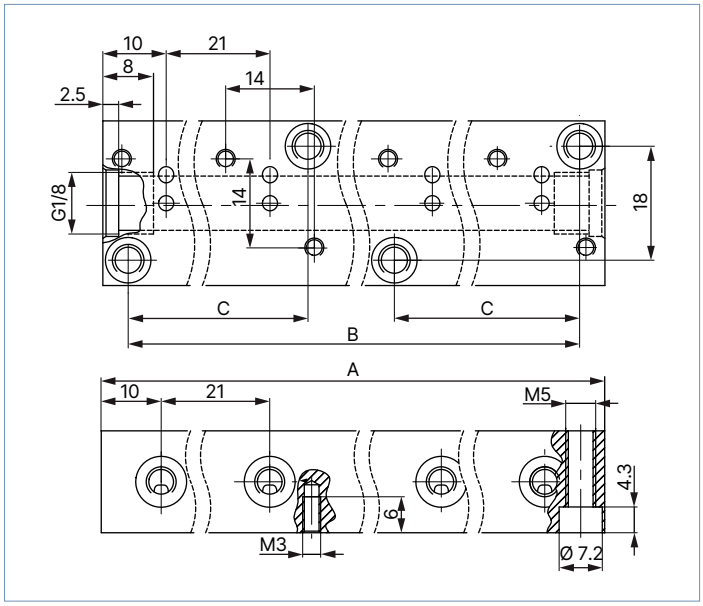
Number of valve slots	A [mm]	B [mm]	C [mm]	Article no.
1	20	12	–	005312

5.6. Multiple manifold

Manifolds for valves with 20 mm coil (SG2)

Note:

- Dimensions in mm
- Can only be combined with Type 7012 valves with coil size 20 mm

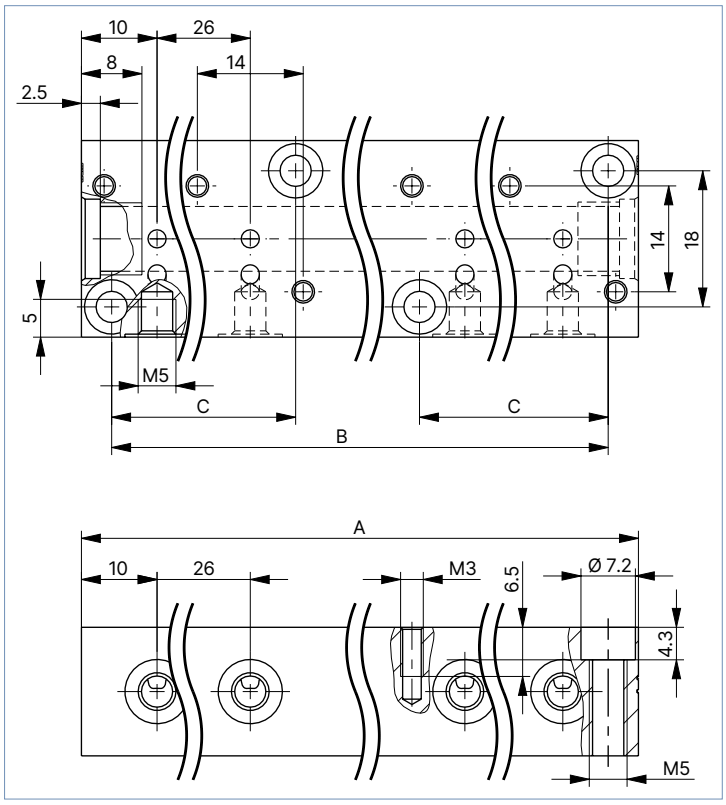


Number of valve slots	A [mm]	B [mm]	C [mm]	Article no.
2	41	33	–	005355
3	62	54	–	005313
4	83	75	–	005314
5	104	96	–	005315
6	125	117	–	005316
7	146	138	–	005893
8	167	159	54	005166
9	188	180	54	005241
10	209	201	75	005819
11	230	222	75	005242
12	251	243	96	005222

Manifolds for valves with 24.5 mm coil (SG3)

Note:

- Dimensions in mm
- Can be combined with Type 7012 valves with coil size 24.5 mm or with valves with function B



Number of valve slots	A [mm]	B [mm]	C [mm]	Article no.
2	46	38	–	60021427
3	72	64	–	60021342
4	98	90	–	60021429
5	124	116	–	60021428
6	150	142	–	60021442
7	176	168	–	20060327
8	202	194	64	20060338
9	228	220	64	20060341
10	254	246	90	20015744
11	280	272	90	20060374
12	306	298	116	20060376

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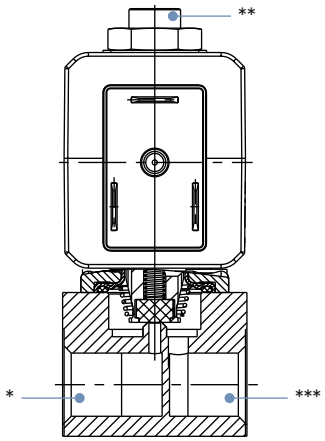
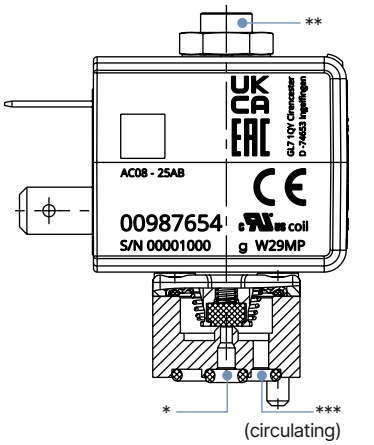
6. Product connections

6.1. Port connection

Pin assignment

For the positions marked with *, ** or *** in the drawing, the connections are marked with the letters shown in the table above, depending on the circuit function. Unused connections in circuit functions A or B will be closed off with a blanking plug or cap nut.

Circuit function	Connection Type			Threaded variant	Flange variant
	*	**	***		
A	P	to lock	A		
B	to lock	B	P		
C	P	R	A		
D	R	P	B		
T	P	R	A		

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7. Performance specifications

7.1. Power consumption

Standard variant, coil size 24.5 mm

Coil	Orifice	Electrical power					Switching times 1.)	
		Inrush AC	Hold AC		DC		Opening	Closing
	[mm]	[VA]	[VA]	[W]	Cold [W]	Warm [W]	[ms]	[ms]
24 V / DC / 7 W	1.2	–	–	–	7	5.5	8...12	8...12
	1.6							
	2.0							
24 V / DC / 5.5 W	1.2	–	–	–	5.5	4.5		
	1.6							
	2.0							
24 V / 50 Hz / 4 W	1.2	12	6.5	4	–	–		
	1.6							
	2.0							
230 V / 50 Hz / 4 W	1.2	12	6.5	4	–	–		
	1.6							
	2.0							

1.) Measurement at + 20 °C, 6 bar 2.) at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

Standard variant, coil size 20 mm

Coil	Orifice	Electrical power					Switching times 1.)	
		Inrush AC	Hold AC		DC		Opening	Closing
	[mm]	[VA]	[VA]	[W]	Cold [W]	Warm [W]	[ms]	[ms]
24 V / DC / 6.5 W	1.2	–	–	–	6.5	5	8...12	8...12
	1.6							
	2.0							
24 V / 50 Hz / 6 W	1.2	11	7	6	–	–		
	1.6							
	2.0							
230 V / 50 Hz / 6 W	1.2	11	7	6	–	–		
	1.6							
	2.0							
24 V / DC / 5 W	1.2	–	–	–	5	4		
	1.6							
	2.0							
24 V / 50 Hz / 4 W	1.2	9	5	4	–	–		
	1.6							
	2.0							
230 V / 50 Hz / 4 W	1.2	9	5	4	–	–		
	1.6							
	2.0							

1.) Measurement at + 20 °C, 6 bar 2.) at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

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8. Ordering information

8.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

Want to find the Bürkert product or spare part you need quickly and order directly?
Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

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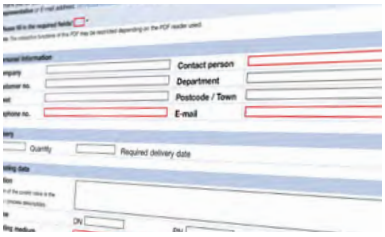
8.2. Bürkert product filter

Bürkert product filter – Find the right product quickly

Want to select products conveniently 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

8.3. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Create a quick and compact enquiry

Want to make a specific product enquiry based on your technical requirements? Then use our Product Enquiry Form. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

Fill out the form now

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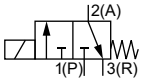
8.4. Ordering chart

Standard variant according to industry standard form B, coil size 24.5 mm

Note:
All valves are delivered without a cable plug.

Circuit function	Port connection	Orifice	K_v value water [1.]	Voltage/ frequency/ power	Maximum duty cycle	Pressure range [2.]		Article no.	
						Ambient temperature + 75 °C	Ambient temperature + 55 °C	Brass body	Stainless steel body
						Air + water	Air + water	FKM seal	
		[mm]	[m³/h]	[V / Hz / W]		[bar]	[bar]		
CF C 3/2-way solenoid valve Direct-acting Normally closed  	M5	1.2	0.045	24 / DC / 7	100 % ED	–	0...13	380922	381000
				24 / DC / 5.5		0...11.5	0...11.5	390256	390258
				24 / 50 / 4		0...13	0...13	380924	381002
				230 / 50 / 4		0...13	0...13	380927	381004
		1.6	0.060	24 / DC / 7	100 % ED	–	0...7.5	380932	381021
				24 / DC / 5.5		0...6	0...6	390265	390267
				24 / 50 / 4		0...7.5	0...7.5	380931	381023
				230 / 50 / 4		0...7.5	0...7.5	380928	381025
		2.0 [3.]	0.110	24 / DC / 7	100 % ED	–	0...7	o. r.	o. r.
				24 / DC / 5.5		0...5	0...5	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
	G ⅛	1.2	0.045	24 / DC / 7	100 % ED	–	0...13	379906	380132
				24 / DC / 5.5		0...11.5	0...11.5	390269	390271
				24 / 50 / 4		0...13	0...13	379928	380139
				230 / 50 / 4		0...13	0...13	380116	380217
		1.6	0.060	24 / DC / 7	100 % ED	–	0...7.5	379915	380137
				24 / DC / 5.5		0...6	0...6	390275	390273
				24 / 50 / 4		0...7.5	0...7.5	379930	380141
				230 / 50 / 4		0...7.5	0...7.5	380118	380218
		2.0 [3.]	0.110	24 / DC / 7	100 % ED	–	0...7	o. r.	o. r.
				24 / DC / 5.5		0...5	0...5	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
	Flange (FK01)	1.2	0.045	24 / DC / 7	100 % ED	–	0...13	380943	390301
				24 / DC / 5.5		0...11.5	0...11.5	390348	390351
				24 / 50 / 4		0...13	0...13	380942	381029
				230 / 50 / 4		0...13	0...13	380940	390353
		1.6	0.060	24 / DC / 7	100 % ED	–	0...7.5	380934	390355
				24 / DC / 5.5		0...6	0...6	390358	390360
				24 / 50 / 4		0...7.5	0...7.5	380936	390362
				230 / 50 / 4		0...7.5	0...7.5	380938	389484
		2.0 [3.]	0.110	24 / DC / 7	100 % ED	–	0...7	o. r.	o. r.
				24 / DC / 5.5		0...5	0...5	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.

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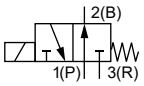
Circuit function	Port connection	Orifice	K_v value water [1.]	Voltage/ frequency/ power	Maximum duty cycle	Pressure range [2.]		Article no.	
						Ambient temperature + 75 °C	Ambient temperature + 55 °C	Brass body	Stainless steel body
						Air + water	Air + water	FKM seal	
		[mm]	[m³/h]	[V / Hz / W]		[bar]	[bar]		
CF D 3/2-way solenoid valve Direct-acting Normally open  	M5	1.2	0.045	24 / DC / 5.5	100 % ED	0...10	0...10	390363	390365
				24 / 50 / 4		0...10	0...10	390367	390382
				230 / 50 / 4		0...10	0...10	390385	390384
		1.6	0.060	24 / DC / 5.5	100 % ED	0...6	0...6	390390	390392
				24 / 50 / 4		0...6	0...6	390396	390398
				230 / 50 / 4		0...6	0...6	390400	390401
		2.0 [3.]	0.110	24 / DC / 5.5	100 % ED	0...8	0...8	o. r.	o. r.
				24 / 50 / 4		0...7	0...7	o. r. [4.]	o. r. [4.]
				230 / 50 / 4		0...7	0...7	o. r. [4.]	o. r. [4.]
	G ⅛	1.2	0.045	24 / DC / 5.5	100 % ED	0...10	0...10	385475	390402
				24 / 50 / 4		0...10	0...10	390406	390409
				230 / 50 / 4		0...10	0...10	390438	390439
		1.6	0.060	24 / DC / 5.5	100 % ED	0...6	0...6	390440	390442
				24 / 50 / 4		0...6	0...6	390444	390446
				230 / 50 / 4		0...6	0...6	390448	390449
		2.0 [3.]	0.110	24 / DC / 5.5	100 % ED	0...8	0...8	o. r.	o. r.
				24 / 50 / 4		0...7	0...7	o. r. [4.]	o. r. [4.]
				230 / 50 / 4		0...7	0...7	o. r. [4.]	o. r. [4.]
	Flange (FK01)	1.2	0.045	24 / DC / 5.5	100 % ED	0...10	0...10	390450	390452
				24 / 50 / 4		0...10	0...10	390456	393085
				230 / 50 / 4		0...10	0...10	390459	390460
		1.6	0.060	24 / DC / 5.5	100 % ED	0...6	0...6	390462	390464
				24 / 50 / 4		0...6	0...6	390468	390466
				230 / 50 / 4		0...6	0...6	390470	390471
		2.0 [3.]	0.110	24 / DC / 5.5	100 % ED	0...8	0...8	o. r.	o. r.
				24 / 50 / 4		0...7	0...7	o. r. [4.]	o. r. [4.]
				230 / 50 / 4		0...7	0...7	o. r. [4.]	o. r. [4.]

o. r. = on request
1.) Measurement at + 20 °C, 1 bar [2.] at the valve inlet and free outlet
2.) Pressure data: overpressure to atmospheric pressure and air as a medium
3.) Limited swelling compensation
4.) Can also be feasible with coil size 2

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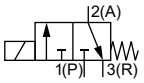
Standard variant according to industry standard form B, coil size 20 mm

Note:
All valves are delivered without a cable plug.

Circuit function	Port connection	Orifice	K_V value water [1.]	Voltage/ frequency/ power	Maximum duty cycle	Pressure range [2.]		Article no.	
						Ambient temperature + 75 °C	Ambient temperature + 55 °C	Brass body	Stainless steel body
						Air + water	Air + water	FKM seal	
		[mm]	[m³/h]	[V/Hz/W]		[bar]	[bar]		
CF C 3/2-way solenoid valve Direct-acting Normally closed 	M5	1.2	0.045	24 / DC / 6.5	100 % ED	–	0...11	o. r.	o. r.
				24 / 50 / 6		–	0...13	o. r.	o. r.
				230 / 50 / 6		–	0...13	o. r.	o. r.
				24 / DC / 5		0...10	0...10	o. r.	o. r.
				24 / 50 / 4		0...11	0...11	o. r.	o. r.
				230 / 50 / 4		0...11	0...11	o. r.	o. r.
		1.6	0.060	24 / DC / 6.5	100 % ED	–	0...6	o. r.	o. r.
				24 / 50 / 6		–	0...7.5	o. r.	o. r.
				230 / 50 / 6		–	0...7.5	o. r.	o. r.
				24 / DC / 5		0...5.5	0...5.5	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
		2.0 [3.]	0.110	24 / DC / 6.5	100 % ED	–	0...5	o. r.	o. r.
				24 / 50 / 6		–	0...6	o. r.	o. r.
				230 / 50 / 6		–	0...6	o. r.	o. r.
				24 / DC / 5		0...4	0...4	o. r.	o. r.
				24 / 50 / 4		0...5.5	0...5.5	o. r.	o. r.
				230 / 50 / 4		0...5.5	0...5.5	o. r.	o. r.
	G ⅛	1.2	0.045	24 / DC / 6.5	100 % ED	–	0...11	o. r.	o. r.
				24 / 50 / 6		–	0...13	o. r.	o. r.
				230 / 50 / 6		–	0...13	o. r.	o. r.
				24 / DC / 5		0...10	0...10	o. r.	o. r.
				24 / 50 / 4		0...11	0...11	o. r.	o. r.
				230 / 50 / 4		0...11	0...11	o. r.	o. r.
		1.6	0.060	24 / DC / 6.5	100 % ED	–	0...6	o. r.	o. r.
				24 / 50 / 6		–	0...7.5	o. r.	o. r.
				230 / 50 / 6		–	0...7.5	o. r.	o. r.
				24 / DC / 5		0...5.5	0...5.5	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
		2.0 [3.]	0.110	24 / DC / 6.5	100 % ED	–	0...5	o. r.	o. r.
				24 / 50 / 6		–	0...6	o. r.	o. r.
				230 / 50 / 6		–	0...6	o. r.	o. r.
				24 / DC / 5		0...4	0...4	o. r.	o. r.
				24 / 50 / 4		0...5.5	0...5.5	o. r.	o. r.
				230 / 50 / 4		0...5.5	0...5.5	o. r.	o. r.
	Flange (FK01)	1.2	0.045	24 / DC / 6.5	100 % ED	–	0...11	o. r.	o. r.
				24 / 50 / 6		–	0...13	o. r.	o. r.
				230 / 50 / 6		–	0...13	o. r.	o. r.
				24 / DC / 5		0...10	0...10	o. r.	o. r.
				24 / 50 / 4		0...11	0...11	o. r.	o. r.
				230 / 50 / 4		0...11	0...11	o. r.	o. r.

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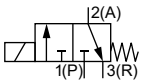
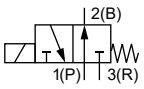
Circuit function	Port connection	Orifice	K_v value water [1.]	Voltage/ frequency/ power	Maximum duty cycle	Pressure range [2.]		Article no.	
						Ambient temperature + 75 °C	Ambient temperature + 55 °C	Brass body	Stainless steel body
						Air + water	Air + water	FKM seal	
		[mm]	[m³/h]	[V/Hz/W]		[bar]	[bar]		
CF C 3/2-way solenoid valve Direct-acting Normally closed 	Flange (FK01)	1.6	0.060	24 / DC / 6.5	100 % ED	–	0...6	o. r.	o. r.
				24 / 50 / 6		–	0...7.5	o. r.	o. r.
				230 / 50 / 6		–	0...7.5	o. r.	o. r.
				24 / DC / 5		0...5.5	0...5.5	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
		2.0 [3.]	0.110	24 / DC / 6.5	100 % ED	–	0...5	o. r.	o. r.
				24 / 50 / 6		–	0...6	o. r.	o. r.
				230 / 50 / 6		–	0...6	o. r.	o. r.
				24 / DC / 5		0...4	0...4	o. r.	o. r.
				24 / 50 / 4		0...5.5	0...5.5	o. r.	o. r.
				230 / 50 / 4		0...5.5	0...5.5	o. r.	o. r.
CF D 3/2-way solenoid valve Direct-acting Normally open 	M5	1.2	0.045	24 / DC / 5	100 % ED	0...10	0...10	o. r.	o. r.
				24 / 50 / 4		0...10	0...10	o. r.	o. r.
				230 / 50 / 4		0...10	0...10	o. r.	o. r.
		1.6	0.060	24 / DC / 5	100 % ED	0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
		2.0 [3.]	0.110	24 / DC / 6.5	100 % ED	–	0...8	o. r.	o. r.
				24 / DC / 5		0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...7	0...7	o. r.	o. r.
				230 / 50 / 4		0...7	0...7	o. r.	o. r.
	G ⅛	1.2	0.045	24 / DC / 5	100 % ED	0...10	0...10	o. r.	o. r.
				24 / 50 / 4		0...10	0...10	o. r.	o. r.
				230 / 50 / 4		0...10	0...10	o. r.	o. r.
		1.6	0.060	24 / DC / 5	100 % ED	0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
		2.0 [3.]	0.110	24 / DC / 6.5	100 % ED	–	0...8	o. r.	o. r.
				24 / DC / 5		0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...7	0...7	o. r.	o. r.
				230 / 50 / 4		0...7	0...7	o. r.	o. r.
	Flange (FK01)	1.2	0.045	24 / DC / 5	100 % ED	0...10	0...10	o. r.	o. r.
				24 / DC / 5.5		0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...10	0...10	o. r.	o. r.
				230 / 50 / 4		0...10	0...10	o. r.	o. r.
		1.6	0.060	24 / DC / 5	100 % ED	0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...6	0...6	o. r.	o. r.
				230 / 50 / 4		0...6	0...6	o. r.	o. r.
		2.0 [3.]	0.110	24 / DC / 6.5	100 % ED	–	0...8	o. r.	o. r.
				24 / DC / 5		0...6	0...6	o. r.	o. r.
				24 / 50 / 4		0...7	0...7	o. r.	o. r.
				230 / 50 / 4		0...7	0...7	o. r.	o. r.

o. r. = on request
1.) Measurement at + 20 °C, 1 bar [2.] at the valve inlet and free outlet
2.) Pressure data: overpressure to atmospheric pressure and air as a medium
3.) Limited swelling compensation

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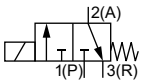
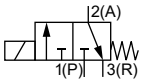
Banjo variant

Note:

- All valves are delivered without a cable plug.
- Coil size 24.5 mm
- Orifices 1.6 mm and 2.0 mm on request.

Circuit function	Port connection	Orifice	Q_{Nn} value air [1]	Voltage/frequency/ power	Maximum duty cycle	Medium pressure [2] Ambient temperature max. + 55 °C resp. + 75 °C [3]	Article no.
						Air	FKM seal
		[mm]	[l/min]	[V/Hz/W]		[bar]	
CF C 3/2-way solenoid valve Direct-acting Normally closed  	BJ01 P: G ⅛ A: G ⅛	1.2	35	24 / DC / 7	100 % ED	0...13	20077509
				24 / DC / 5.5		0...11.5	20087634
				24 / 50 / 4		0...13	20077511
				230 / 50 / 4		0...13	20070709
		1.6	48	24 / DC / 7	100 % ED	0...7.5	o. r.
				24 / DC / 5.5		0...6	o. r.
				24 / 50 / 4		0...7.5	o. r.
				230 / 50 / 4		0...7.5	o. r.
		2.0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5.5		0...5.5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.
	BJ02 P: G ¼ A: G ¼	1.2	35	24 / DC / 7	100 % ED	0...13	20077512
				24 / DC / 5.5		0...11.5	20077514
				24 / 50 / 4		0...13	20077516
				230 / 50 / 4		0...13	20077519
		1.6	48	24 / DC / 7	100 % ED	0...7.5	o. r.
				24 / DC / 5.5		0...6	o. r.
				24 / 50 / 4		0...7.5	o. r.
				230 / 50 / 4		0...7.5	o. r.
		2.0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5.5		0...5.5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.
	BJ03 P: NPT ¼ A: G ⅛	1.2	35	24 / DC / 7	100 % ED	0...13	20077523
				24 / DC / 5.5		0...11.5	20077564
				24 / 50 / 4		0...13	20077570
				230 / 50 / 4		0...13	20077574
		1.6	48	24 / DC / 7	100 % ED	0...7.5	o. r.
				24 / DC / 5.5		0...6	o. r.
				24 / 50 / 4		0...7.5	o. r.
				230 / 50 / 4		0...7.5	o. r.
		2.0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5.5		0...5.5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.
	BJ04 P: NPT ⅛ A: G ¼	1,2	35	24 / DC / 7	100 % ED	0...13	20092001
				24 / DC / 5,5		0...11,5	20082092
				24 / 50 / 4		0...13	20137198
				230 / 50 / 4		0...13	20096957
		1,6	48	24 / DC / 7	100 % ED	0...7,5	o. r.
				24 / DC / 5,5		0...6	o. r.
				24 / 50 / 4		0...7,5	o. r.
				230 / 50 / 4		0...7,5	o. r.
		2,0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5,5		0...5,5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.

Circuit function	Port connection	Orifice	Q_{Nn} value air [1.]	Voltage/frequency/ power	Maximum duty cycle	Medium pressure [2.] Ambient temperature max. + 55 °C resp. + 75 °C [3.] Air	Article no. FKM seal
		[mm]	[l/min]	[V/Hz/W]		[bar]	
CF C 3/2-way solenoid valve Direct-acting Normally closed 	BJ05 P: G ¼ A: G ⅛	1.2	35	24 / DC / 7	100 % ED	0...13	20077596
				24 / DC / 5.5		0...11.5	20077598
				24 / 50 / 4		0...13	20077604
				230 / 50 / 4		0...13	20077609
		1.6	48	24 / DC / 7	100 % ED	0...7.5	o. r.
				24 / DC / 5.5		0...6	o. r.
				24 / 50 / 4		0...7.5	o. r.
				230 / 50 / 4		0...7.5	o. r.
		2.0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5.5		0...5.5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.
	BJ06 P: G ⅛ A: G ¼	1.2	35	24 / DC / 7	100 % ED	0...13	20098864
				24 / DC / 5.5		0...11.5	20087550
				24 / 50 / 4		0...13	20098869
				230 / 50 / 4		0...13	20098870
		1.6	48	24 / DC / 7	100 % ED	0...7.5	o. r.
				24 / DC / 5.5		0...6	o. r.
				24 / 50 / 4		0...7.5	o. r.
				230 / 50 / 4		0...7.5	o. r.
		2.0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5.5		0...5.5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.
	BJ07 P: NPT ⅛ A: G ⅛	1.2	35	24 / DC / 7	100 % ED	0...13	20077610
				24 / DC / 5.5		0...11.5	20077615
				24 / 50 / 4		0...13	20077618
				230 / 50 / 4		0...13	20077626
		1.6	48	24 / DC / 7	100 % ED	0...7.5	o. r.
				24 / DC / 5.5		0...6	o. r.
				24 / 50 / 4		0...7.5	o. r.
				230 / 50 / 4		0...7.5	o. r.
		2.0	75	24 / DC / 7	100 % ED	0...7	o. r.
				24 / DC / 5.5		0...5.5	o. r.
				24 / 50 / 4		0...6	o. r.
				230 / 50 / 4		0...6	o. r.

o. r. = on request
1.) For P1: 6 bar absolute and P2: 5 bar absolute
2.) Pressure data: overpressure to atmospheric pressure and air as a medium
3.) Depending on the performance level

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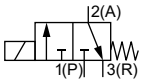
ATEX/IECEx cable variant

Note:

- The maximum medium temperature may never exceed the permissible temperature class (T4: + 135 °C) minus 5K.
- Only single mounting permissible
- With 3 m cable as standard. Other lengths on request.

Circuit function	Port connection	Orifice	K_V value water [1.]	Voltage/frequency/ power	Maximum duty cycle	Pressure range [2.]	Article no.	
						Ambient temperature + 55 °C	Brass body	Stainless steel body
						Air + water	FKM seal	
		[mm]	[m³/h]	[V/Hz/W]		[bar]		
CF C 3/2-way solenoid valve Direct-acting Normally closed 	G ⅛	1.2	0.045	24 / AC/DC / 6	100 % ED	0...8	20017950	20053187
				230 / AC/DC / 6		0...8	20017953	20053193
				24 / AC / 6		0...11	20017952	20077468
				230 / AC / 6		0...11	20077471	20077470
		1.6	0.060	24 / AC/DC / 6	100 % ED	0...4	20017954	20053195
				230 / AC/DC / 6		0...4	20017958	20053196
				24 / AC / 6		0...5.5	20017957	20077485
				230 / AC / 6		0...5.5	20077475	20077478
		2.0	0.110	24 / AC/DC / 6	100 % ED	0...3	20017961	20053197
				230 / AC/DC / 6		0...3	20010156	20053199
				24 / AC / 6		0...4	20017959	20077490
				230 / AC / 6		0...4	20025746	20077492

1.) Measurement at + 20 °C, 1 bar [2.] at the valve inlet and free outlet
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

Additional options

Note:
Available on request

Option	Variable Code	Description
Oxygen variants	NL02	Suitable for applications with oxygen (non-metal materials that are in contact with the medium are tested and approved according to BAM)
Increased purity requirements e.g. oil, grease and silicone-free	NL50/NL05	Wetted parts are specially cleaned and packaged in accordance with the valves
Increased tightness requirements	PC05	Leakage rate *less than 10^{-4} mbar l/sec
	PC08	Leakage rate *less than 10^{-5} mbar l/sec
	PC06	Leakage rate *less than 10^{-6} mbar l/sec
Vacuum variant	on request	–

8.5. Ordering chart accessories

Single manifold

Note:
Further ordering information can be found in chapter "5.5. Single manifold" on page 15.

Multiple manifold

Note:
Further ordering information can be found in chapter "5.6. Multiple manifold" on page 16.

Accessories for manifolds

Accessory	Features	Article no.
Lock screw	With seal ring, G ⅛	005041
Cover plate	For unoccupied valve position	005100

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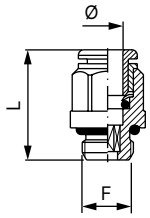
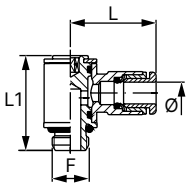
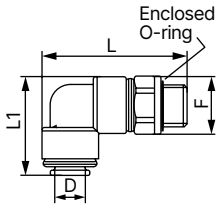
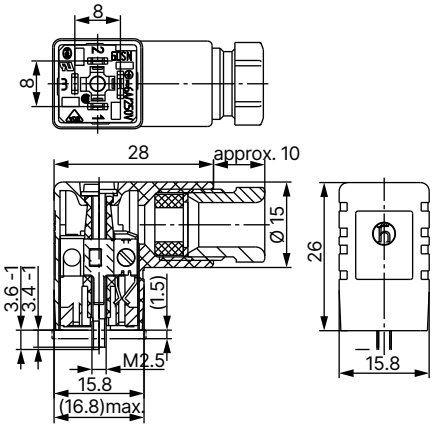
Accessories for G ⅛ threaded connections

Accessories	Material	Connection diameter [mm]	F [mm]	L [mm]	L1 [mm]	Article no.
Straight push-in connector with O-ring						
	Nickel-plated brass	4	G ⅛	18.0	–	780001
		6	G ⅛	21.6	–	780003
		8	G ⅛	25.4	–	780005
Elbow screw fitting, rotatable with O-ring						
	Nickel-plated brass	4	G ⅛	21.3	24.9	780081
		6	G ⅛	23.0	24.9	780082
		8	G ⅛	24.8	24.9	780086
	POM	4	G ⅛	35.5	24.0	782344
		6	G ⅛	39.5	27.0	782345
		8	G ⅛	41.5	30.0	782346

Cable plug Type 2516, form C according to DIN EN 175301 - 803

Note:

- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fastening screw.
- For further variants see data sheet **Type 2516** ▶.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring	0...250 V AC/DC	303141
		With LED	12...24 V AC/DC	303145
		With LED and varistor	12...24 V AC/DC	303148
		With rectifier, LED and varistor	12...24 V AC/DC	303142

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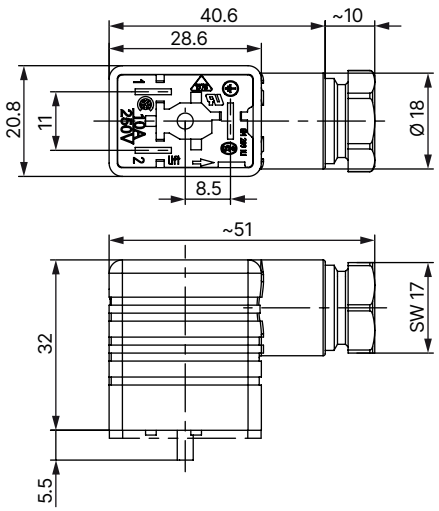
Cable plug Type 2507, form B according to industry standard

Note:

- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fastening screw.
- Refer to data sheet **Type 2507** ▸ for more information about the cable plug.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (standard)	2...250 V AC/DC	423845
		With LED	24 V AC/DC	423849
		With LED and free-wheeling diode	12...24 V AC/DC	423851
		With rectifier, LED and varistor	2...250 V AC/DC	423854
			12...24 V AC/DC	423853

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