



## Direct-acting 2/2-way plunger valve

- Direct-acting and compact small valve up to DN 2.4
- Slipped over coil system
- Simple and fast flange or manifold mounting
- Quick coupling (push-in fitting) for push-in connectors
- Explosion-proof variants

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

### Type description

The 7011 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 variants conforming to DVGW EN 161 and explosion-proof variants. Push-in fittings can be selected for a flexible hose connection. In combination with a plug conforming to DIN EN 175301 - 803 shape B, the valves satisfy degree of protection IP65.

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## 1. General technical data

### 1.1. Standard version

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 10.
<b>Material</b>	
Seal	FKM, EPDM
Body	Brass, polyamide (PA), stainless steel 1.4305/303
Manual override	Optional
<b>Weight</b>	
Standard version 24.5 mm solenoid coil	146 g (with G 1/8)
Standard version 20 mm solenoid coil	120 g (with G 1/8)
Orifice	DN 1.2...DN 2.4
Circuit function	A and B Further information can be found in chapter "2. Circuit functions" on page 6.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
<b>Nominal operating mode</b>	
Single valve	Continuous operation 100 % ED resp. 50 % ED
For block mounting on multiple manifold	With 4 W/5 W solenoid coil 100 % ED (at max. 55 °C)
Switching time <sup>1.)</sup>	Opening 8...15 ms Closing 10...17 ms
Electrical data	
Operating voltage	24 DC, 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 17.
Voltage tolerance	± 10 %
Medium data	
Operating medium	Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, technical vacuum)
Medium temperature	- 10 °C...+ 100 °C
Viscosity	Max. 21 mm <sup>2</sup> /s
Process/Port connection & communication	
Electrical connection	<ul style="list-style-type: none"> <li>According to DIN EN 175301 - 803 form C for cable plug <b>Type 2516</b> ▶ Further information can be found in chapter "Cable plug Type 2516, form C according to DIN EN 175301 - 803" on page 27.</li> <li>According to industry standard form B for cable plug <b>Type 2507</b> ▶ Further information can be found in chapter "Cable plug Type 2507, form B according to industry standard" on page 28.</li> <li>Flat pin terminal as protection class III device</li> <li>Flying leads connection on request for coil size 20 mm</li> </ul>
Port connection	M5, G 1/8, NPT 1/8, flange
Approvals and conformities	
Degree of protection	IP65 with cable plug and ATEX/IECEx cable version
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 7.
Foods and beverages/Hygiene	Further information can be found in chapter "3.7. Foods and beverages/Hygiene" on page 7.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. +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. DVGW version

The solenoid valve Type 7011 DVGW is primarily intended as an automatic safety shut-off valve for fuel gases. A strainer is installed in the inlet of the valve.

Product properties	
<b>Material</b>	
Seal	NBR
Body	Brass, stainless steel 1.4305/303
Circuit function	A
<b>Performance data</b>	
Operating pressure	Max. 42 bar (depending on orifice and coil power)
<b>Medium data</b>	
Operating medium	Fuel gases (e.g. town gas, district gas, liquid gas, hydrogen) Further information can be found in chapter "4.1. Bürkert resistApp" on page 7.
Medium temperature	-20 °C...+80 °C
<b>Approvals and conformities</b>	
Fuel gases	Further information can be found in chapter "3.8. Others" on page 7.
Standards	DIN EN 161:2016; DIN EN 16678:2016
<b>Environment and installation</b>	
Ambient temperature	-20 °C...+55 °C

## 1.3. ATEX/IECEx cable version

Product properties	
<b>Material</b>	
Seal	FKM, EPDM
Body	Brass, stainless steel 1.4305/303
<b>Connection</b>	
Thread	G 1/8, NPT 1/8, RC 1/8, M5, UNF 10-32
Flange	Flange "FK01"
Circuit function	A and B
Available coil size	SG3 (24.5 mm width)
<b>Performance data</b>	
Operating pressure	Max. 34 bar (depending on orifice and coil power)
<b>Medium data</b>	
Operating medium	Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, technical vacuum)
<b>Medium temperature <sup>1)</sup></b>	
FKM	-10 °C...+100 °C
EPDM	-30 °C...+100 °C
<b>Process/Port connection &amp; communication</b>	
Electrical connection	ATEX/IECEx cable version with 3 m moulded-in cable
<b>Approvals and conformities</b>	
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 6.
Degree of protection	IP65 with cable plug and ATEX/IECEx cable version
<b>Environment and installation</b>	
<b>Ambient temperature <sup>1)</sup></b>	
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
	<b>Circuit function A (CF A)</b> 2/2-way solenoid valve Direct-acting Normally closed
	<b>Circuit function B (CF B)</b> 2/2-way solenoid valve Direct-acting Normally open

## 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 versions can be supplied with the below mentioned approvals or conformities.

### 3.2. Conformity

In accordance with the 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
	<b>Optional: Explosion protection (valid for coils with fixed cable outlet)</b>  <b>ATEX:</b> EPS 21 ATEX 1 128 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db  <b>IECEX:</b> IECEx EPS 21.0045X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db  Fixed cable is halogen-free according to IEC 60754 - 1

### 3.5. North America (USA/Canada)

Approval	Description
	<b>Valid for coils: UL Recognized for the USA and Canada</b> The coils are UL Recognized for the USA and Canada according to: <ul style="list-style-type: none"> <li>• UL 429 (electrically operated valves)</li> <li>• CAN/CSA-C22.2 No. 139</li> </ul>

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### 3.6. Drinking water

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

### 3.7. Foods and beverages/Hygiene

Conformity	Description
	<p><b>FDA – Code of Federal Regulations (valid for the variable code PL02, PL03)</b> 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.</p>
	<p><b>United States Pharmacopeial Convention (USP) (valid for the variable code PL04)</b> All wetted materials are biocompatible according to the manufacturer’s declaration.</p>
	<p><b>EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02)</b> All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer’s declaration.</p>

### 3.8. Others

#### Fuel gases

Conformity	Description
	<p><b>Optional: DIN EN 549:2023-07 certification</b> The wetted valve seals are compliant with DIN EN 549:2023-07 (Rubber materials for seals and diaphragms for gas appliances and gas equipment) for medium temperatures of -20 °C...+80 °C.</p>

## 4. Materials

### 4.1. Bürkert resistApp

**Bürkert resistApp – Chemical resistance chart**

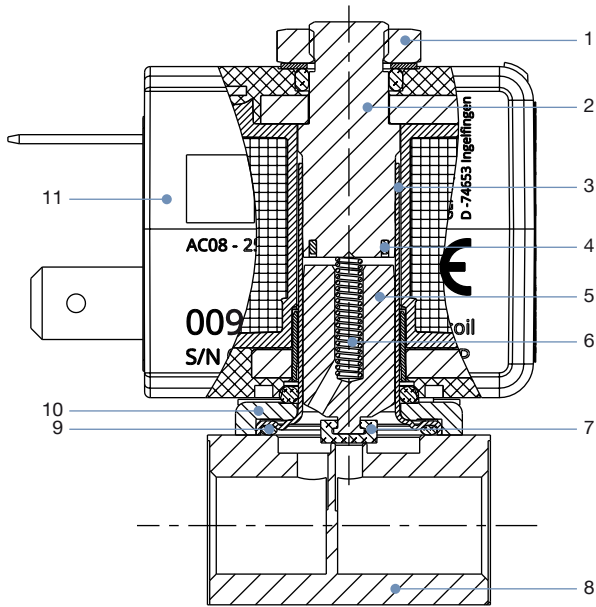
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

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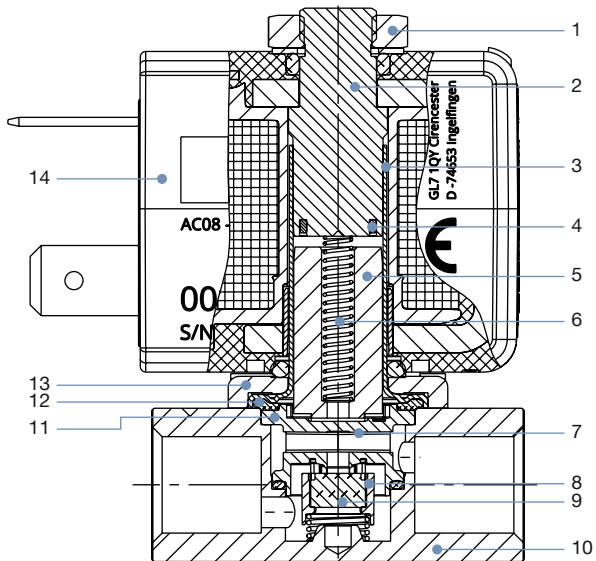
### 4.2. Material specifications

#### Standard version circuit function A



No.	Element	Material
1	Locknut	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	<ul style="list-style-type: none"> <li>Surface finish thick film passivated KOSA0101 (brass version)</li> <li>Nickel-plated surface (stainless steel version)</li> </ul>
11	Coil	Epoxy

#### Standard version circuit function B

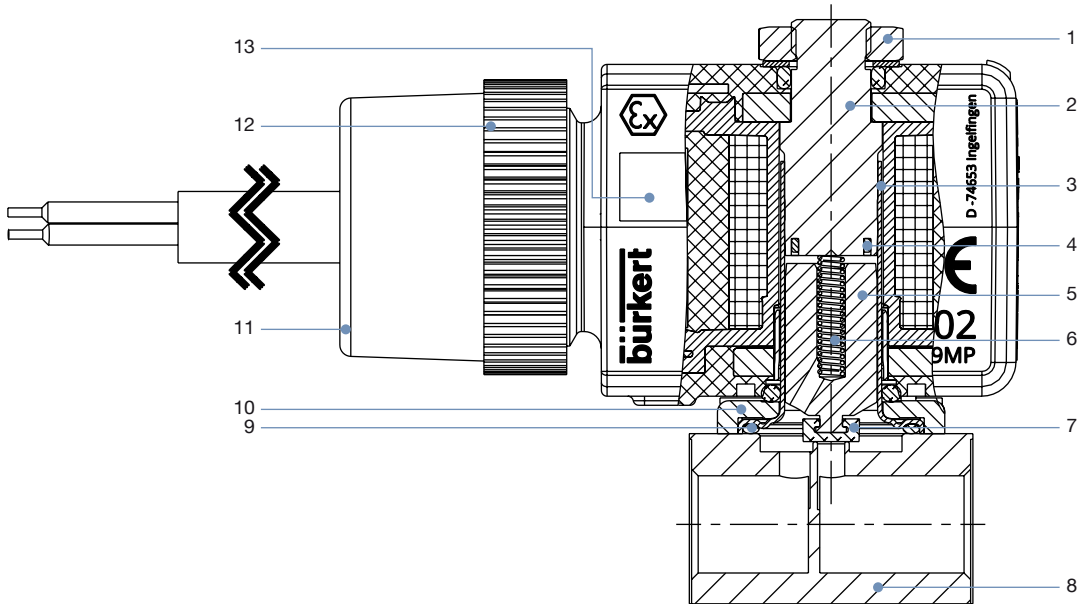


No.	Element	Material
1	Locknut	DIN 176 Surface finish thick film passivated KOSA0101
2	Stopper	Stainless steel 1.4113/434
3	Core guide tube	Stainless steel 1.4303 ST/305L
4	Shading ring	Copper (optional silver)
5	Core	Stainless steel 1.4113/434
6	Spring	Stainless steel 1.4310/301
7	Insert	PEEK GF30
8	Seal holder	PEEK GF30
9	Seat seal	FKM
10	Valve body	Brass, stainless steel 1.4305/303, PA (polyamide)
11	Seal	FKM/EPDM
12	O-Ring	FKM/EPDM
13	Flange	<ul style="list-style-type: none"> <li>Surface finish thick film passivated KOSA0101 (brass version)</li> <li>Nickel-plated surface (stainless steel version)</li> </ul>
14	Coil	Epoxy

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ATEX/IECEx cable version



No.	Element	Material
1	Locknut	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	<ul style="list-style-type: none"> <li>Surface finish thick film passivated KOSA0101 (brass version)</li> <li>Nickel-plated surface (stainless steel version)</li> </ul>
11	Sealing ring	Silicone
12	Union nut	PA (Polyamide)
13	Coil	Epoxy

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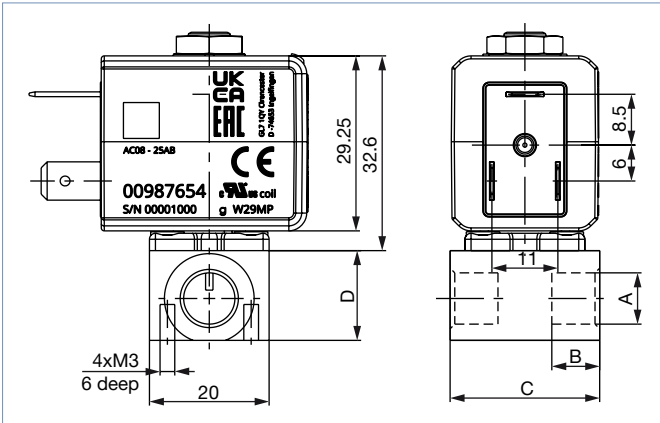
## 5. Dimensions

### 5.1. Standard version

#### Threaded version

**Note:**

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

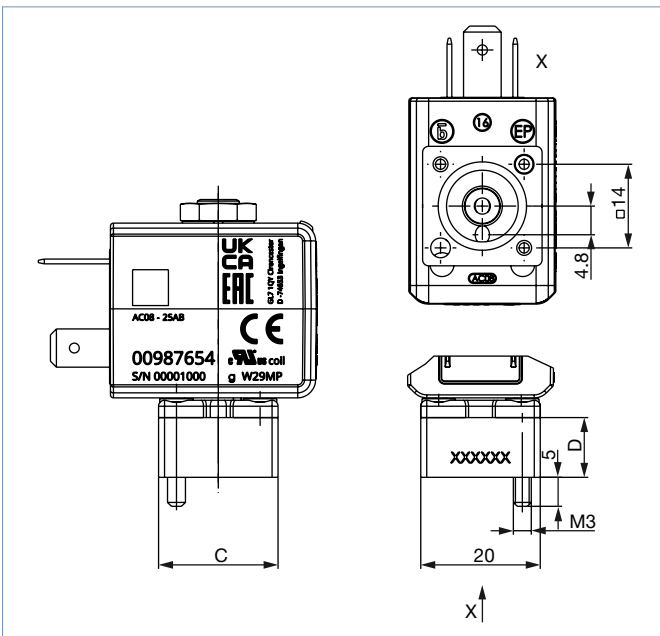


Port connection	A	B	C	D
		[mm]	[mm]	[mm]
Thread WW A	M5	5	20	10
	G 1/8	8	25	15
	NPT 1/8	7	25	15
Thread WW B	G 1/8	8	34	14
	NPT 1/8	7	34	14

#### Flange version

**Note:**

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



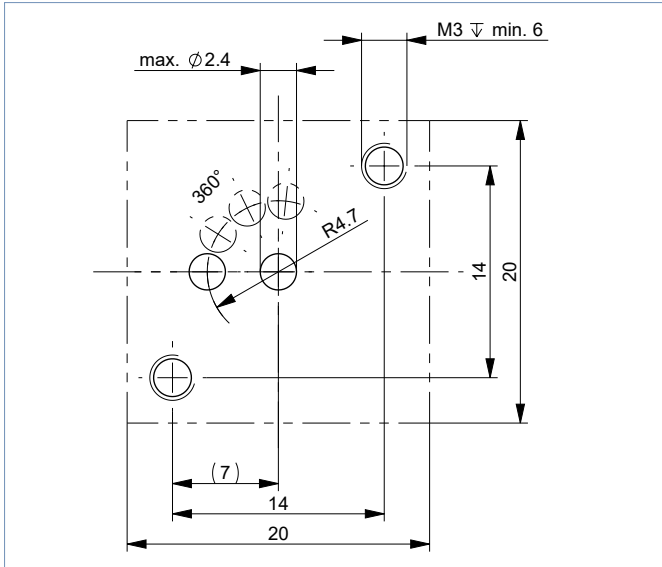
Port connection	A	B	C	D
		[mm]	[mm]	[mm]
Flange WW A	-	-	20	10
Flange WW B	-	-	25	15

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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 version (FK01) according to FST 1000225877

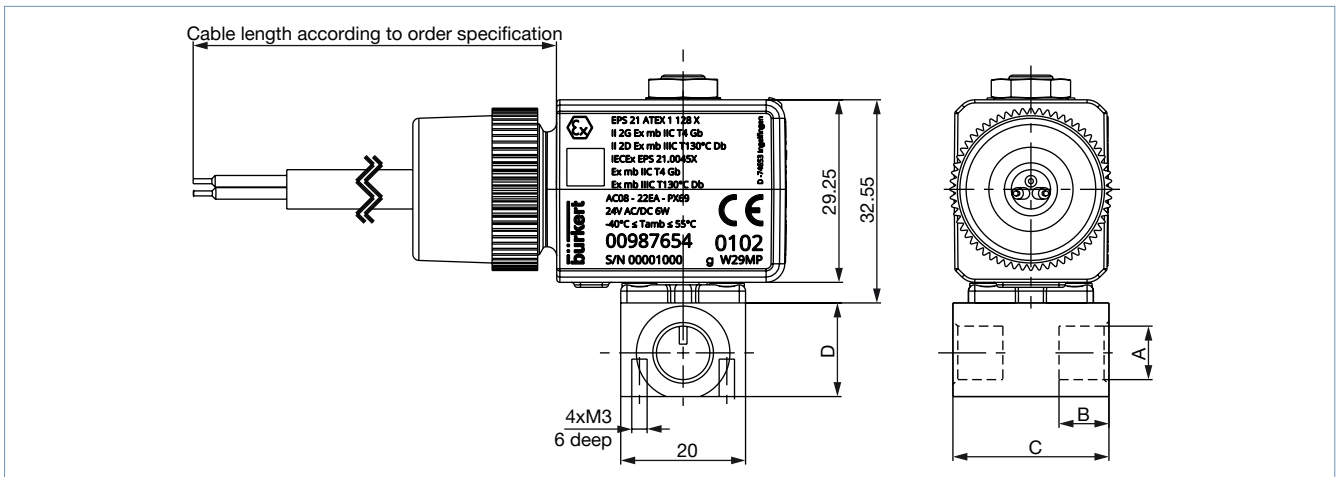


**5.2. ATEX/IECEx cable version**

**Threaded version**

**Note:**

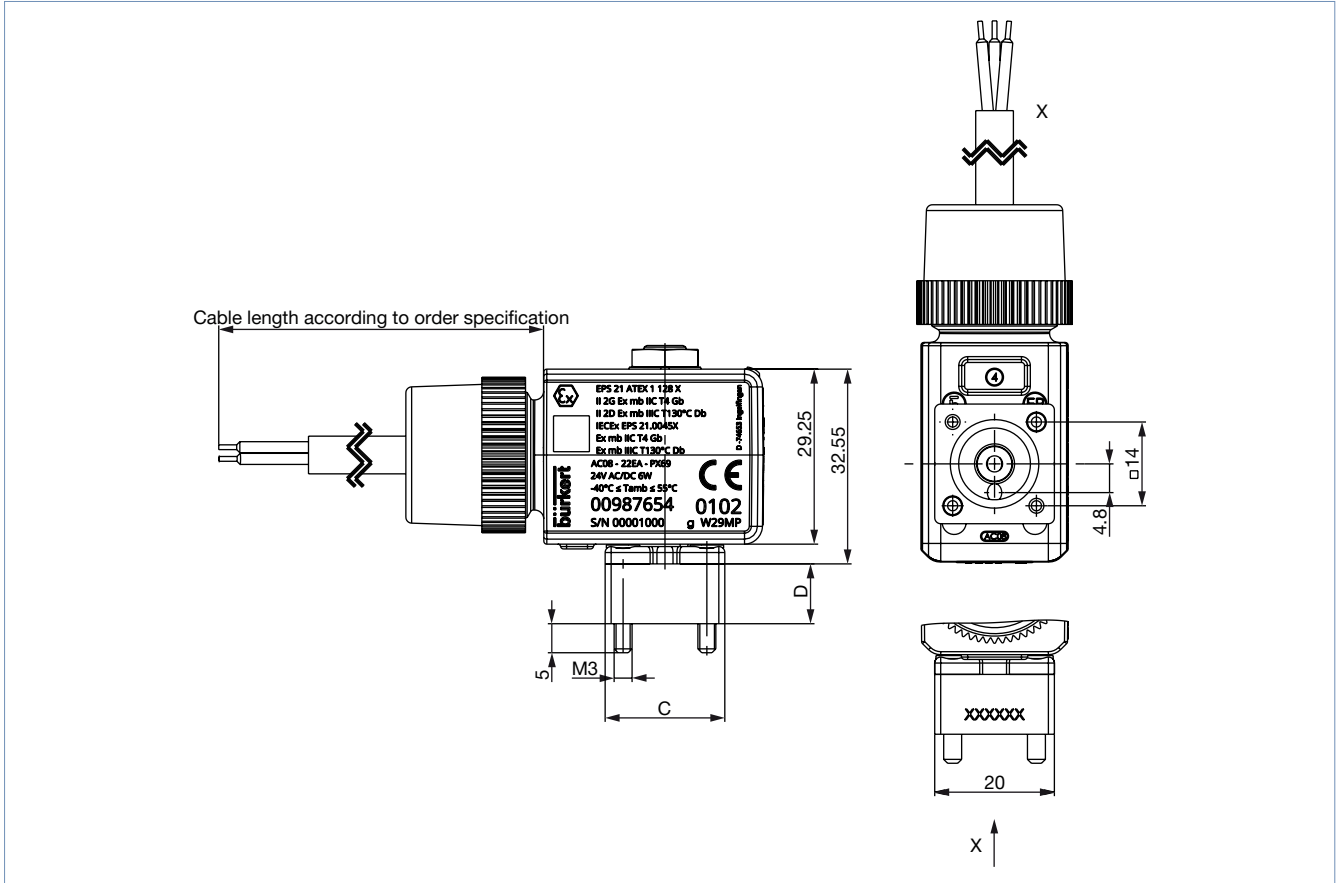
Dimensions in mm



Port connection	A	B	C	D
		[mm]	[mm]	[mm]
Thread	M5	5	20	10
Thread	G 1/8	8	25	15

**Flange version**

**Note:**  
Dimensions in mm

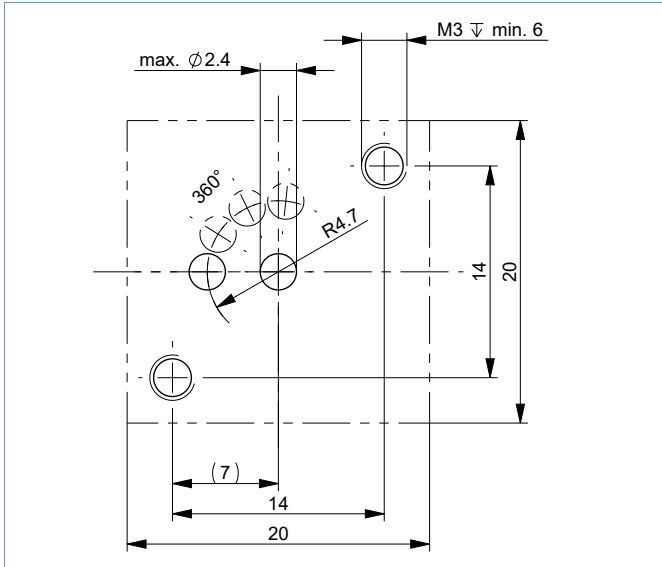


Port connection	A	B	C	D
		[mm]	[mm]	[mm]
Flange WW A	-	-	20	11
Flange WW B	-	-	25	15

**Flange pattern**

**Note:**

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

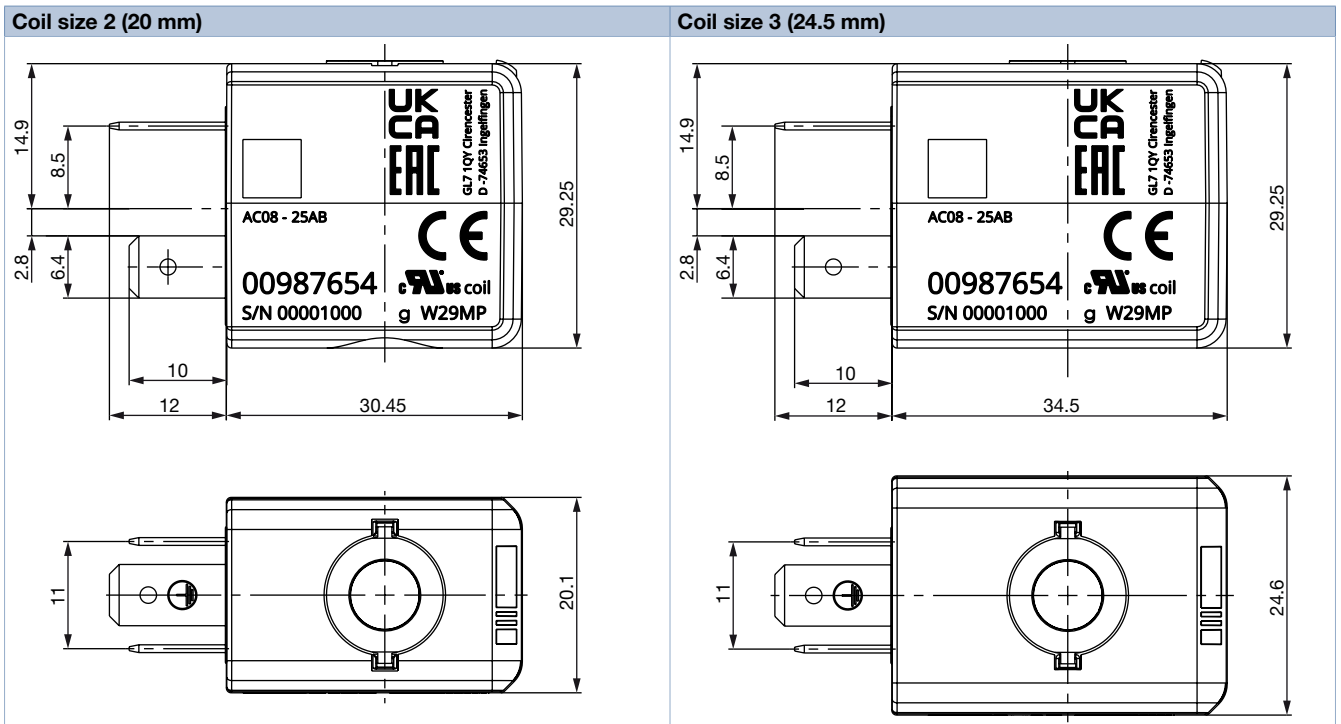


**5.3. Coil versions**

**Versions according to industry standard form B**

**Note:**

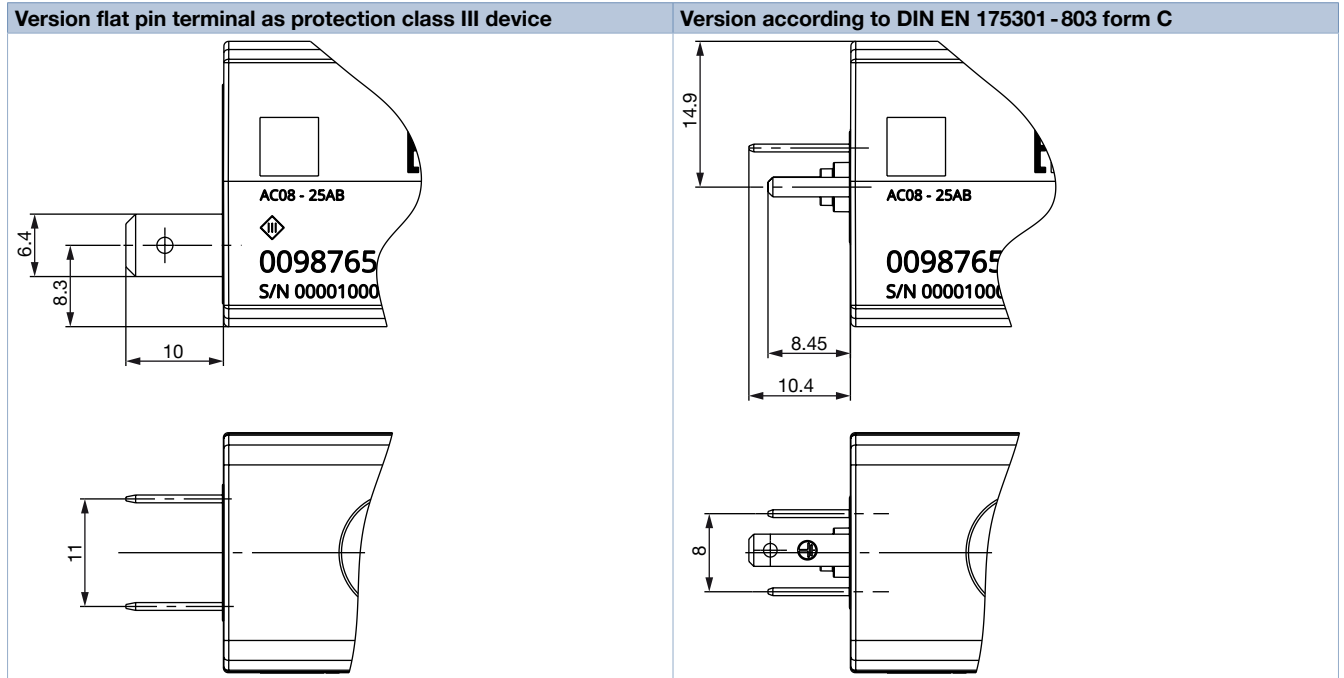
Dimensions in mm



**Further electrical connections**

**Note:**

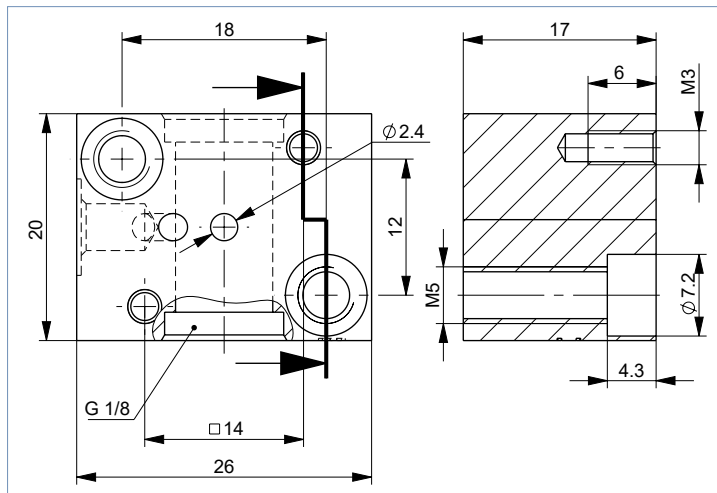
- Dimensions in mm
- Specifications apply to coil sizes 20 mm and 24.5 mm



**5.4. Single manifold**

**Note:**

Dimensions in mm



Quantity of valve places	A [mm]	B [mm]	C [mm]	Article no.
1	20	12	-	005312

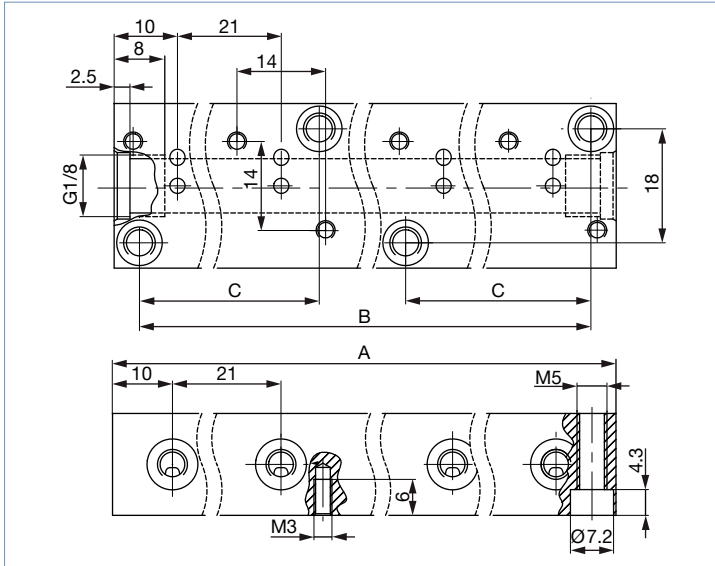
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### 5.5. Multiple manifold

#### Manifolds for valves with 20 mm coil (SG2)

**Note:**

- Dimensions in mm
- Can only be combined with Type 7011 valves with coil size 20 mm

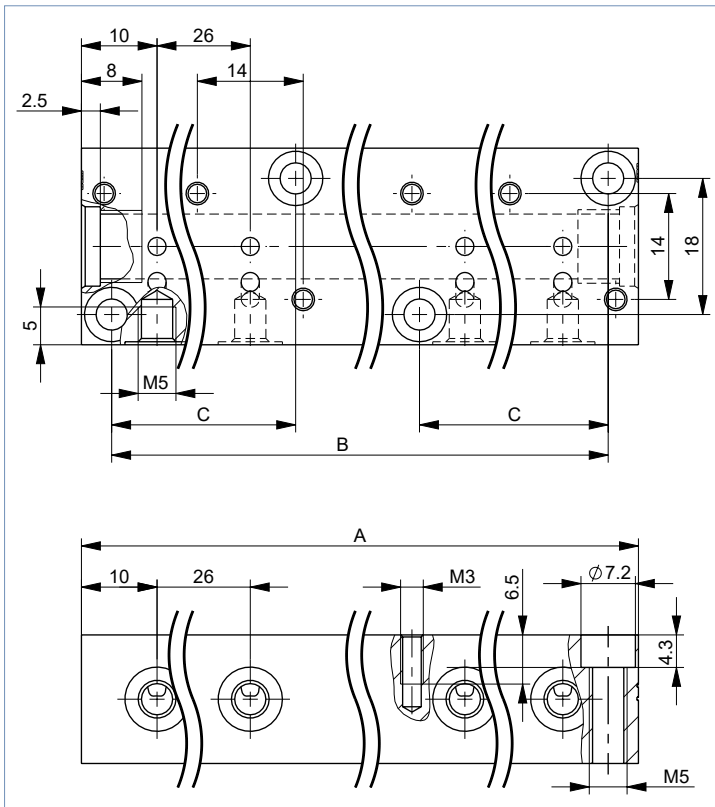


Quantity of valve places	A [mm]	B [mm]	C [mm]	Article no.
2	41	33	-	005355
3	62	54	-	005313
4	83	75	-	005314
5	104	96	-	005315
6	125	117	-	005316
7	146	138	-	005893
8	167	159	54	005166
9	188	180	54	005241
10	209	201	75	005819
11	230	222	75	005242
12	251	243	96	005222

#### Manifolds for valves with 24.5 mm coil (SG3) and WW B

**Note:**

- Dimensions in mm
- Can only be combined with Type 7011 valves with coil size 24.5 mm or for Type 7011 valves with WW B



Quantity of valve places	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

## 6. Device/Process connections

### 6.1. Pin assignment

Threaded version WW A	Threaded version WW A (+MC14)	Flange version WW A
Flange version WW A (+MC14)	Flange version WW A (+AA05)	Flange version WW A (+AC45+AD33 / +AD33+NA02)
Threaded version WW B	Flange version WW B	Flange version WW B (+AD01)

#### Pin assignment vacuum applications

In vacuum applications the existing flow direction must be maintained. Vacuum must therefore always be applied to A.  
(Other terminal assignment on request)



## 7. Performance specifications

### 7.1. Power consumption

Standard version, coil size 24.5 mm

Coil	Orifice [mm]	Electrical power					Switching times <sup>1)</sup>	
		Inrush AC [VA]	Hold AC		DC		Opening [ms]	Closing [ms]
			[VA]	[W]	Cold [W]	Hot [W]		
24 V/DC/7 W	1.2	–	–	–	7	5.5	8...15	10...17
	1.6							
	2.0							
	2.4							
24 V/50 Hz/6 W	1.2	14	8	6	–	–		
	1.6							
	2.0							
	2.4							
230 V/50 Hz/6 W	1.2	14	8	6	–	–		
	1.6							
	2.0							
	2.4							
24 V/DC/5.5 W	1.2	–	–	–	5.5	4.5		
	1.6							
	2.0							
	2.4							
24 V/50 Hz/4 W	1.2	12	6.5	4	–	–		
	1.6							
	2.0							
	2.4							
230 V/50 Hz/4 W	1.2	12	6.5	4	–	–		
	1.6							
	2.0							
	2.4							
24 V/DC/14 W	1.2	–	–	–	14	11		
	1.6							
	2.0							
	2.4							
24 V/DC/11 W	1.2	–	–	–	11	8.5		
	1.6							
	2.0							
	2.4							

1.) Measurement at +20 °C, 6 bar<sup>2)</sup> 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 version, coil size 20 mm

Coil	Orifice	Electrical power					Switching times <sup>1.)</sup>	
		Inrush AC	Hold AC		DC		Opening	Closing
	[mm]	[VA]	[VA]	[W]	Cold [W]	Hot [W]	[ms]	[ms]
24 V/DC/6.5 W	1.2	–	–	–	6.5	5	8...15	10...17
	1.6							
	2.0							
	2.4							
24 V/50 Hz/6 W	1.2	11	7	6	–	–		
	1.6							
	2.0							
	2.4							
230 V/50 Hz/6 W	1.2	11	7	6	–	–		
	1.6							
	2.0							
	2.4							
24 V/DC/5 W	1.2	–	–	–	5	4		
	1.6							
	2.0							
	2.4							
24 V/50 Hz/4 W	1.2	9	5	4	–	–		
	1.6							
	2.0							
	2.4							
230 V/50 Hz/4 W	1.2	9	5	4	–	–		
	1.6							
	2.0							
	2.4							
24 V/DC/14 W	1.2	–	–	–	14	11		
	1.6							
	2.0							
	2.4							
24 V/DC/11 W	1.2	–	–	–	11	9		
	1.6							
	2.0							
	2.4							

1.) Measurement at +20 °C, 6 bar<sup>2.)</sup> 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



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### 8.2. Bürkert product filter

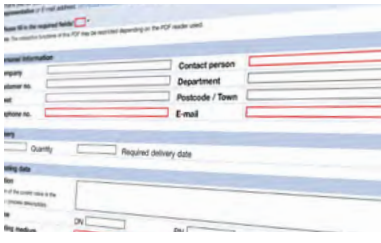


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### 8.3. Bürkert Product Enquiry Form



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### 8.4. Ordering chart

Standard version 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 <sub>v</sub> value water <sup>1)</sup>	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range <sup>2)3)</sup>				Article no.	
						Ambient temperature 75 °C		Ambient temperature 55 °C		Brass body	Stainless steel body
		Water	Air	Water	Air	FKM seal					
		[bar]	[bar]	[bar]	[bar]						
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	M5	1.2	0.045	24/DC/7	100 % ED	-	-	0...23	0...23	380543	389721
				24/50/6		-	-	0...45	0...45	389723	389726
				230/50/6		-	-	0...45	0...45	389738	389739
				24/DC/5.5		0...16	0...16	-	-	389740	389742
				24/DC/5.5		-	-	0...19	0...19	o. r.	o. r.
				24/50/4		0...42	0...42	0...42	0...42	389744	389746
				230/50/4		0...42	0...42	0...42	0...42	389751	389750
				24/DC/14		-	-	0...45	0...45	o. r.	o. r.
				24/DC/11		0...35	0...35	-	-	o. r.	o. r.
				24/DC/11		-	-	0...37	0...37	o. r.	o. r.
				24/DC/7		-	-	0...12	0...13	385450	389753
				24/50/6		-	-	0...30	0...30	389757	389755
		230/50/6	-	-	0...30	0...30	389759	389761			
		24/DC/5.5	0...9	0...9	-	-	389765	389762			
		24/DC/5.5	-	-	0...10.5	0...10.5	o. r.	o. r.			
		24/50/4	0...24	0...24	0...24	0...24	389781	389783			
		230/50/4	0...24	0...24	0...24	0...24	389786	389785			
		24/DC/14	-	-	0...25	0...25	o. r.	o. r.			
		24/DC/11	0...20	0...20	-	-	o. r.	o. r.			
		24/DC/11	-	-	0...22	0...22	o. r.	o. r.			
		24/DC/7	-	-	0...9	0...9	385455	389787			
		24/50/6	-	-	0...22	0...22	389791	389789			
		230/50/6	-	-	0...22	0...22	389793	389794			
		24/DC/5.5	0...6.5	0...6.5	-	-	389797	389795			
		24/DC/5.5	-	-	0...7	0...7	o. r.	o. r.			
		24/50/4	0...18	0...18	0...18	0...18	389799	393079			
		230/50/4	0...18	0...18	0...18	0...18	389801	389802			
		24/DC/14	-	-	0...19	0...19	o. r.	o. r.			
		24/DC/11	0...14	0...14	-	-	o. r.	o. r.			
		24/DC/11	-	-	0...16	0...16	o. r.	o. r.			
		24/DC/7	-	-	0...3.5	0...5	385457	389805			
		24/50/6	-	-	0...13	0...13	389807	389809			
		230/50/6	-	-	0...13	0...13	389811	389812			
		24/DC/5.5	0...3	0...3.5	-	-	389813	389815			
		24/DC/5.5	-	-	0...3.5	0...4	o. r.	o. r.			
		24/50/4	0...10	0...10	0...10	0...10	389817	389819			
230/50/4	0...10	0...10	0...10	0...10	389821	389822					
24/DC/14	-	-	0...9	0...10	o. r.	o. r.					
24/DC/11	0...6.5	0...7	-	-	o. r.	o. r.					
24/DC/11	-	-	0...7.5	0...8	o. r.	o. r.					

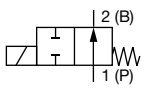
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Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1)</sup>	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range <sup>2)3)</sup>				Article no.				
						Ambient temperature 75 °C		Ambient temperature 55 °C		Brass body	Stainless steel body			
		[mm]	[m <sup>3</sup> /h]	[V/Hz/W]	Water [bar]	Air [bar]	Water [bar]	Air [bar]	FKM seal					
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	G 1/8	1.2	0.045	24/DC/7	100 % ED	-	-	0...23	0...23	375821	375828			
				24/50/6		-	-	0...45	0...45	389532	389540			
				230/50/6		-	-	0...45	0...45	375968	375979			
				24/DC/5.5		0...16	0...16	-	-	375852	375860			
				24/DC/5.5		-	-	0...19	0...19	o. r.	o. r.			
				24/50/4		0...42	0...42	0...42	0...42	389537	389544			
				230/50/4		0...42	0...42	0...42	0...42	376005	376013			
				24/DC/14		50 % ED	-	-	0...45	0...45	o. r.	o. r.		
				24/DC/11			0...35	0...35	-	-	o. r.	o. r.		
				24/DC/11			-	-	0...37	0...37	o. r.	o. r.		
				1.6		0.060	100 % ED	24/DC/7	-	-	0...12	0...13	374309	375829
								24/50/6	-	-	0...30	0...30	389657	389658
		230/50/6	-		-			0...30	0...30	375969	375980			
		24/DC/5.5	0...9		0...9			-	-	375853	375861			
		24/DC/5.5	-		-			0...10.5	0...10.5	o. r.	o. r.			
		24/50/4	0...24		0...24			0...24	0...24	389661	389662			
		50 % ED	230/50/4		0...24		0...24	0...24	0...24	376006	376015			
			24/DC/14		-		-	0...25	0...25	o. r.	o. r.			
			24/DC/11		0...20		0...20	-	-	o. r.	o. r.			
			24/DC/11		-		-	0...22	0...22	o. r.	o. r.			
			2.0		0.110		100 % ED	24/DC/7	-	-	0...9	0...9	375822	375830
								24/50/6	-	-	0...22	0...22	389677	389680
		230/50/6		-		-		0...22	0...22	375970	375981			
		24/DC/5.5		0...6.5		0...6.5		-	-	375854	375862			
		24/DC/5.5		-		-		0...7	0...7	o. r.	o. r.			
		24/50/4		0...18		0...18		0...18	0...18	389672	389669			
		50 % ED		230/50/4		0...18	0...18	0...18	0...18	376007	376016			
				24/DC/14		-	-	0...19	0...19	o. r.	o. r.			
				24/DC/11		0...14	0...14	-	-	o. r.	o. r.			
				24/DC/11		-	-	0...16	0...16	o. r.	o. r.			
				2.4		0.130	100 % ED	24/DC/7	-	-	0...3.5	0...5	375823	375831
								24/50/6	-	-	0...13	0...13	393638	393689
		230/50/6	-		-			0...13	0...13	375971	375982			
		24/DC/5.5	0...3		0...3.5			-	-	375855	375863			
		24/DC/5.5	-		-			0...3.5	0...4	o. r.	o. r.			
		24/50/4	0...10		0...10			0...10	0...10	389696	389697			
		50 % ED	230/50/4		0...10		0...10	0...10	0...10	376008	376017			
			24/DC/14		-		-	0...9	0...10	o. r.	o. r.			
			24/DC/11		0...6.5		0...7	-	-	o. r.	o. r.			
			24/DC/11		-		-	0...7.5	0...8	o. r.	o. r.			

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Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1)</sup>	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range <sup>2)3)</sup>				Article no.	
						Ambient temperature 75 °C		Ambient temperature 55 °C		Brass body	Stainless steel body
		Water	Air	Water	Air	FKM seal					
		[bar]	[bar]	[bar]	[bar]						
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	Flange (FK01)	1.2	0.045	24/DC/7	100 % ED	-	-	0...23	0...23	375836	375844
				24/50/6		-	-	0...45	0...45	389699	389700
				230/50/6		-	-	0...45	0...45	375987	375996
				24/DC/5.5		0...16	0...16	-	-	375868	375876
				24/DC/5.5		-	-	0...19	0...19	o. r.	o. r.
				24/50/4		0...42	0...42	0...42	0...42	389704	389703
				230/50/4		0...42	0...42	0...42	0...42	376023	376031
				24/DC/14		-	-	0...45	0...45	o. r.	o. r.
				24/DC/11		0...35	0...35	-	-	o. r.	o. r.
				24/DC/11		-	-	0...37	0...37	o. r.	o. r.
				24/DC/7		-	-	0...12	0...13	375837	375845
				24/50/6		-	-	0...30	0...30	389705	389706
		230/50/6	-	-	0...30	0...30	375988	375997			
		24/DC/5.5	0...9	0...9	-	-	375869	375877			
		24/DC/5.5	-	-	0...10.5	0...10.5	o. r.	o. r.			
		24/50/4	0...24	0...24	0...24	0...24	389708	389709			
		230/50/4	0...24	0...24	0...24	0...24	376024	376032			
		24/DC/14	-	-	0...25	0...25	o. r.	o. r.			
		24/DC/11	0...20	0...20	-	-	o. r.	o. r.			
		24/DC/11	-	-	0...22	0...22	o. r.	o. r.			
		24/DC/7	-	-	0...9	0...9	375838	375846			
		24/50/6	-	-	0...22	0...22	389711	389712			
		230/50/6	-	-	0...22	0...22	375989	375999			
		24/DC/5.5	0...6.5	0...6.5	-	-	375870	375878			
		24/DC/5.5	-	-	0...7	0...7	o. r.	o. r.			
		24/50/4	0...18	0...18	0...18	0...18	389714	389715			
		230/50/4	0...18	0...18	0...18	0...18	376025	376033			
		24/DC/14	-	-	0...19	0...19	o. r.	o. r.			
		24/DC/11	0...14	0...14	-	-	o. r.	o. r.			
		24/DC/11	-	-	0...16	0...16	o. r.	o. r.			
		24/DC/7	-	-	0...3.5	0...5	375839	375847			
		24/50/6	-	-	0...13	0...13	389716	389717			
		230/50/6	-	-	0...13	0...13	375990	376000			
		24/DC/5.5	0...3	0...3.5	-	-	375871	375879			
		24/DC/5.5	-	-	0...3.5	0...4	o. r.	o. r.			
		24/50/4	0...10	0...10	0...10	0...10	389719	389718			
		230/50/4	0...10	0...10	0...10	0...10	376026	376034			
		24/DC/14	-	-	0...9	0...10	o. r.	o. r.			
		24/DC/11	0...6.5	0...7	-	-	o. r.	o. r.			
		24/DC/11	-	-	0...7.5	0...8	o. r.	o. r.			

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Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1.)</sup>	Voltage/Frequency/Power	Maximum duty cycle	Pressure range <sup>2)3.)</sup>				Article no.	
						Ambient temperature 75 °C		Ambient temperature 55 °C		Brass body	Stainless steel body
		[mm]	[m³/h]	[V/Hz/W]	Water [bar]	Air [bar]	Water [bar]	Air [bar]	FKM seal		
<b>CF B</b> 2/2-way solenoid valve Direct-acting Normally open 	G 1/8	2.0	0.100	24/DC/7	100 % ED	-	-	-	0...12	20007424	o. r.
				24/50/6		-	-	-	0...14.5	o. r.	o. r.
				230/50/6		-	-	-	0...14.5	20007106	o. r.
				24/DC/5.5		-	0...10	-	-	20007425	o. r.
				24/50/4		-	0...13	-	-	o. r.	o. r.
				230/50/4		-	0...13	-	-	20007423	o. r.
	Flange (FK01)	2.0	0.100	24/DC/7	100 % ED	-	-	-	0...12	20009528	o. r.
				24/50/6		-	-	-	0...14.5	o. r.	o. r.
				230/50/6		-	-	-	0...14.5	20009536	o. r.
				24/DC/5.5		-	0...10	-	-	20009530	o. r.
				24/50/4		-	0...13	-	-	o. r.	o. r.
				230/50/4		-	0...13	-	-	20009532	o. r.

o. r. = on request

1.) Measurement at +20 °C, 6 bar<sup>2.)</sup> at the valve inlet and free outlet

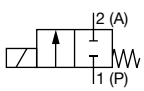
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

3.) Number of switching cycles under laboratory conditions (FKM seal, oiled air, unpressurised, WW A, DC): 5 million (with WW B less numbers of switching cycles). Please note that an increase in switching pressure can limit the life of the seat seal.

**DVGW version**

**Note:**

- With NBR seal and brass body (class B)
- According to gas appliance directive: valve class A, valve group 2

Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1.)</sup>	Voltage/Frequency/Power	Maximum duty cycle	Pressure range <sup>2)3.)</sup>		Article no.		
						Ambient temperature 55 °C		Brass body	Stainless steel body	
		[mm]	[m³/h]	[V/Hz/W]	Air [bar]		FKM seal			
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	G 1/8	1.2	0.040	24/DC/7	100 % ED	0...23		20010449	o. r.	
				24/DC/5.5		0...19		20010443	o. r.	
				0.045		24/50/4	0...42		-	o. r.
				230/50/4		0...42		20010456	o. r.	
		1.6	0.055	24/DC/7	100 % ED	0...13		20010450	o. r.	
				24/DC/5.5		0...10.5		20009374	o. r.	
				0.060		24/50/4	0...24		-	o. r.
				230/50/4		0...24		20010460	o. r.	
		2.0	0.070	24/DC/7	100 % ED	0...9		20010451	o. r.	
				24/DC/5.5		0...7		20010446	o. r.	
				0.110		24/50/4	0...18		-	o. r.
				230/50/4		0...18		20010461	o. r.	
		2.4	0.090	24/DC/7	100 % ED	0...5		20010454	o. r.	
				24/DC/5.5		0...4		20010447	o. r.	
				0.130		24/50/6	0...10		-	o. r.
				230/50/6		0...10		20010464	o. r.	

o. r. = on request

1.) Measurement at +20 °C, 6 bar<sup>2.)</sup> at the valve inlet and free outlet

2.) Pressure data: Overpressure to atmospheric pressure and air as a medium

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**ATEX/IECEX cable version**

**Note:**

- The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C) minus 5 K.
- Only single mounting permissible
- Standard with 3 m cable, other lengths are available on request.

Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1.)</sup>	Voltage/Frequency/Power	Maximum duty cycle	Pressure range <sup>2.)3.)</sup>		Article no.	
						Ambient temperature 55 °C		Brass body	Stainless steel body
		[mm]	[m <sup>3</sup> /h]	[V/Hz/W]	Water [bar]	Air [bar]	FKM seal		
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	G 1/8	1.2	0.045	24/AC/DC/6	100 % ED	0...16	0...16	20009727	20053228
				24/50/6		0...34	0...34	20012934	20053229
				230/50/6		0...34	0...34	20014398	20053230
		1.6	0.060	24/AC/DC/6	100 % ED	0...10	0...10	20009728	20030686
				24/50/6		0...18	0...18	20012935	20053234
				230/50/6		0...18	0...18	20014408	20053235
		2.0	0.110	24/AC/DC/6	100 % ED	0...7	0...7	20009725	20053236
				24/50/6		0...13	0...13	20012931	20053237
				230/50/6		0...13	0...13	20025748	20053240
		2.4	0.130	24/AC/DC/6	100 % ED	0...3.5	0...4	20009729	20053243
				24/50/6		0...6.5	0...7	20012938	20053244
				230/50/6		0...6.5	0...7	20014416	20053245

o. r. = on request

1.) Measurement at +20 °C, 6 bar<sup>2.)</sup> at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure and air as a medium

**Standard version 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 <sub>v</sub> value water <sup>1.)</sup>	Voltage/Frequency/Power	Maximum duty cycle	Pressure range <sup>2.)3.)</sup>		Article no.		
						Ambient temperature 75 °C	Ambient temperature 55 °C	Brass body	Stainless steel body	
		[mm]	[m <sup>3</sup> /h]	[V/Hz/W]	Air [bar]	Air [bar]	FKM seal			
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	M5	1.2	0.045	24/DC/6.5	100 % ED	-	0...13	o. r.	o. r.	
				24/50/6		-	0...35	o. r.	o. r.	
				230/50/6		-	0...35	o. r.	o. r.	
				24/DC/5		0...9	-	o. r.	o. r.	
				24/DC/5		-	0...11	o. r.	o. r.	
				24/50/4		0...27	0...27	o. r.	o. r.	
				230/50/4		0...27	0...27	o. r.	o. r.	
				24/DC/14		50 % ED	-	0...32	o. r.	o. r.
				24/DC/11		0...25	-	o. r.	o. r.	
		24/DC/11	-	0...30	o. r.	o. r.				
		1.6	0.060	24/DC/6.5	100 % ED	-	0...8.5	o. r.	o. r.	
				24/50/6		-	0...24	o. r.	o. r.	
				230/50/6		-	0...24	o. r.	o. r.	
				24/DC/5		0...5.5	-	o. r.	o. r.	
				24/DC/5		-	0...6.5	o. r.	o. r.	
				24/50/4		0...17	0...17	o. r.	o. r.	
				230/50/4		0...17	0...17	o. r.	o. r.	
				24/DC/14		50 % ED	-	0...22	o. r.	o. r.
24/DC/11	0...17			-		o. r.	o. r.			
24/DC/11	-	0...18	o. r.	o. r.						

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Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1)</sup>	Voltage/Frequency/Power	Maximum duty cycle	Pressure range <sup>2)3)</sup>		Article no.					
						Ambient temperature 75 °C	Ambient temperature 55 °C	Brass body	Stainless steel body				
		[mm]	[m <sup>3</sup> /h]	[V/Hz/W]	Air [bar]	Air [bar]	FKM seal						
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	M5	2.0	0.110	24/DC/6.5	100 % ED	–	0...6	o. r.	o. r.				
				24/50/6		–	0...14	o. r.	o. r.				
				230/50/6		–	0...14	o. r.	o. r.				
				24/DC/5		0...4	–	o. r.	o. r.				
				24/DC/5		–	0...4.5	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.					
				24/DC/14	50 % ED	–	0...15	o. r.	o. r.				
				24/DC/11		0...12	–	o. r.	o. r.				
				24/DC/11		–	0...13	o. r.	o. r.				
				2.4		0.130	24/DC/6.5	100 % ED	–	0...3	o. r.	o. r.	
							24/50/6		–	0...9	o. r.	o. r.	
		230/50/6	–				0...9		o. r.	o. r.			
		24/DC/5	0...2		–		o. r.		o. r.				
		24/DC/5	–		0...2.5		o. r.		o. r.				
		24/50/4	0...6.5		0...6.5		o. r.		o. r.				
		230/50/4	0...6.5		0...6.5		o. r.	o. r.					
		24/DC/14	50 % ED		–		0...8	o. r.	o. r.				
		24/DC/11			0...6		–	o. r.	o. r.				
		24/DC/11			–		0...6.5	o. r.	o. r.				
		G ½			1.2		0.045	24/DC/6.5	100 % ED	–	0...13	o. r.	o. r.
								24/50/6		–	0...35	o. r.	o. r.
				230/50/6		–		0...35		o. r.	o. r.		
			24/DC/5	0...9		–		o. r.		o. r.			
	24/DC/5		–	0...11		o. r.		o. r.					
	24/50/4		0...27	0...27		o. r.		o. r.					
	230/50/4		0...27	0...27		o. r.		o. r.					
	24/DC/14		50 % ED	–		0...32		o. r.	o. r.				
	24/DC/11			0...25		–		o. r.	o. r.				
	24/DC/11			–		0...30		o. r.	o. r.				
	G ¾			1.6		0.060		24/DC/6.5	100 % ED	–	0...8.5	o. r.	o. r.
								24/50/6		–	0...24	o. r.	o. r.
		230/50/6			–		0...24	o. r.		o. r.			
		24/DC/5	0...5.5		–		o. r.	o. r.					
		24/DC/5	–		0...6.5		o. r.	o. r.					
		24/50/4	0...17		0...17		o. r.	o. r.					
		230/50/4	0...17		0...17		o. r.	o. r.					
		24/DC/14	50 % ED		–		0...22	o. r.	o. r.				
		24/DC/11			0...17		–	o. r.	o. r.				
		24/DC/11			–		0...18	o. r.	o. r.				
		2.0			0.110		24/DC/6.5	100 % ED	–	0...6	o. r.	o. r.	
							24/50/6		–	0...14	o. r.	o. r.	
	230/50/6			–		0...14	o. r.		o. r.				
	24/DC/5		0...4	–		o. r.	o. r.						
	24/DC/5		–	0...4.5		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.						
	24/DC/14		50 % ED	–		0...15	o. r.	o. r.					
24/DC/11	0...12			–		o. r.	o. r.						
24/DC/11	–			0...13		o. r.	o. r.						

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Circuit function	Port connection	Orifice	K <sub>v</sub> value water <sup>1.)</sup>	Voltage/Frequency/Power	Maximum duty cycle	Pressure range <sup>2.)3.)</sup>		Article no.					
						Ambient temperature 75 °C	Ambient temperature 55 °C	Brass body	Stainless steel body				
		[mm]	[m <sup>3</sup> /h]	[V/Hz/W]	Air [bar]	Air [bar]	FKM seal						
<b>CF A</b> 2/2-way solenoid valve Direct-acting Normally closed 	G 1/8	2.4	0.130	24/DC/6.5	100 % ED	-	0...3	o. r.	o. r.				
				24/50/6		-	0...9	o. r.	o. r.				
				230/50/6		-	0...9	o. r.	o. r.				
				24/DC/5		0...2	-	o. r.	o. r.				
				24/DC/5		-	0...2.5	o. r.	o. r.				
				24/50/4		0...6.5	0...6.5	o. r.	o. r.				
				230/50/4	0...6.5	0...6.5	o. r.	o. r.					
				24/DC/14	50 % ED	-	0...8	o. r.	o. r.				
				24/DC/11		0...6	-	o. r.	o. r.				
				24/DC/11		-	0...6.5	o. r.	o. r.				
				Flange (FK01)		1.2	0.045	24/DC/6.5	100 % ED	-	0...13	o. r.	o. r.
								24/50/6		-	0...35	o. r.	o. r.
	230/50/6	-	0...35					o. r.		o. r.			
	24/DC/5	0...9	-		o. r.			o. r.					
	24/DC/5	-	0...11		o. r.			o. r.					
	24/50/4	0...27	0...27		o. r.			o. r.					
	230/50/4	0...27	0...27		o. r.			o. r.					
	24/DC/14	50 % ED	-		0...32			o. r.	o. r.				
	24/DC/11		0...25		-			o. r.	o. r.				
	24/DC/11		-		0...30			o. r.	o. r.				
	Flange (FK01)		1.6		0.060			24/DC/6.5	100 % ED	-	0...8.5	o. r.	o. r.
								24/50/6		-	0...24	o. r.	o. r.
				230/50/6		-	0...24	o. r.		o. r.			
		24/DC/5		0...5.5		-	o. r.	o. r.					
		24/DC/5		-		0...6.5	o. r.	o. r.					
		24/50/4		0...17		0...17	o. r.	o. r.					
		230/50/4		0...17		0...17	o. r.	o. r.					
		24/DC/14		50 % ED		-	0...22	o. r.	o. r.				
		24/DC/11				0...17	-	o. r.	o. r.				
		24/DC/11				-	0...18	o. r.	o. r.				
		Flange (FK01)				2.0	0.110	24/DC/6.5	100 % ED	-	0...6	o. r.	o. r.
								24/50/6		-	0...14	o. r.	o. r.
	230/50/6		-		0...14			o. r.		o. r.			
	24/DC/5		0...4	-	o. r.			o. r.					
	24/DC/5		-	0...4.5	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.					
	24/DC/14		50 % ED	-	0...15			o. r.	o. r.				
	24/DC/11			0...12	-			o. r.	o. r.				
	24/DC/11			-	0...13			o. r.	o. r.				
	Flange (FK01)			2.4	0.130			24/DC/6.5	100 % ED	-	0...3	o. r.	o. r.
								24/50/6		-	0...9	o. r.	o. r.
		230/50/6				-	0...9	o. r.		o. r.			
		24/DC/5	0...2			-	o. r.	o. r.					
		24/DC/5	-			0...2.5	o. r.	o. r.					
		24/50/4	0...6.5			0...6.5	o. r.	o. r.					
		230/50/4	0...6.5			0...6.5	o. r.	o. r.					
		24/DC/14	50 % ED			-	0...8	o. r.	o. r.				
24/DC/11		0...6				-	o. r.	o. r.					
24/DC/11		-				0...6.5	o. r.	o. r.					

o. r. = on request

1.) Measurement at +20 °C, 6 bar<sup>2.)</sup> at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure and air as a medium

3.) Number of switching cycles under laboratory conditions (FKM seal, oiled air, unpressurised, DC): 5 million. Please note that an increase in switching pressure can limit the life of the seat seal.

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**Additional options**

**Note:**  
Available on request

Option	Variable Code	Description
Oxygen versions	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 <sup>-4</sup> mbar l/sec
	PC08	Leakage rate *less than 10 <sup>-5</sup> mbar l/sec
	PC06	Leakage rate *less than 10 <sup>-6</sup> mbar l/sec

**8.5. Ordering chart accessories**



**Single manifold**

**Note:**  
Further ordering information can be found in chapter “5.4. Single manifold” on page 14.

**Multiple manifold**


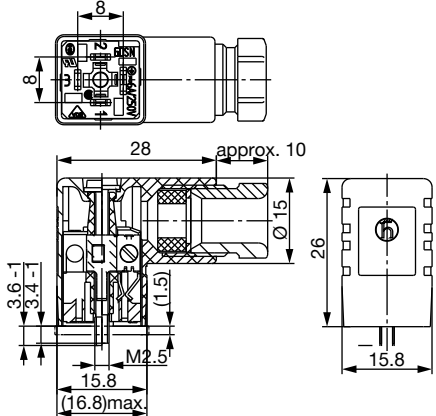




**Note:**  
Further ordering information can be found in chapter “5.5. Multiple manifold” on page 15.

**Accessories for manifolds**

Accessory	Features	Article no.
Screw plug	With sealing ring, G 1/8	005041 
Cover plate	For unoccupied valve position	005100 

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

- Note:**
- Delivery of cable plug includes a flat seal and a fixing screw.
  - For further versions see data sheet **Type 2516** ▶

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry	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:**

- Delivery of cable plug includes a flat seal and a fixing screw.
- Refer to data sheet **Type 2507** ▶ for more information about the cable plug.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry (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	12...24 V AC/DC	423853
			2...250 V AC/DC	423854

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