



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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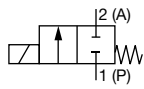
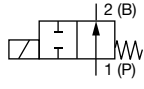
1. General technical data

1.1. Standard version

Product properties	
Dimensions	Detailed information can be found in chapter "5. Dimensions" on page 5.
Material	
Seal	FKM, EPDM
Body	Brass, polyamide (PA), stainless steel 1.4305/303
Weight	
Standard version 24.5 mm solenoid coil	5 ¼ oz (with NPT ⅜)
Standard version 20 mm solenoid coil	4 ¼ oz (with NPT ⅜)
Manual override	Optional
Circuit function	A and B Detailed information can be found in chapter "2. Circuit functions" on page 3.
Thermal insulation class of solenoid coil	Epoxy: class H
Performance data	
Duty cycle	
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. 131 °F)
Switching time ^{1.)}	Orifice 1.2...2.4 mm: opening 8...15 ms, closing 10...17 ms
Electrical data	
Operating voltage	24 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
Voltage tolerance	± 10 %
Medium data	
Operating medium	Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, technical vacuum)
Medium temperature	+14 °F...+212 °F
Viscosity	Max. 21 cSt
Process/Port connection & communication	
Electrical connection	<ul style="list-style-type: none"> • Acc. to DIN EN 175301 - 803 form C for cable plug Type 2516 • Acc. to industry standard form B for cable plug Type 2507 • Flat pin terminal as protection class III device • Flying leads connection on request for coil size 20 mm
Port connection standard version	M5, G ⅜, NPT ⅜, flange
Approvals and certificates	
Degree of protection	IP65 with cable plug and ATEX-/IECEX cable version
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. +131 °F resp. +167 °F, depending on power level

1.) Measurement at 87 psi and +68 °F at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10%, closing: pressure reduction 100...90%

2. Circuit functions

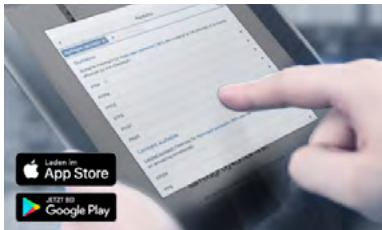
Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid valve Direct-acting Normally closed
	Circuit function B (CF B) 2/2-way solenoid valve Direct-acting Normally open

3. Approvals

Approvals	Description
	ATEX and IECEx approval 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

4. Materials

4.1. Chemical Resistance Chart – Bürkert resistApp



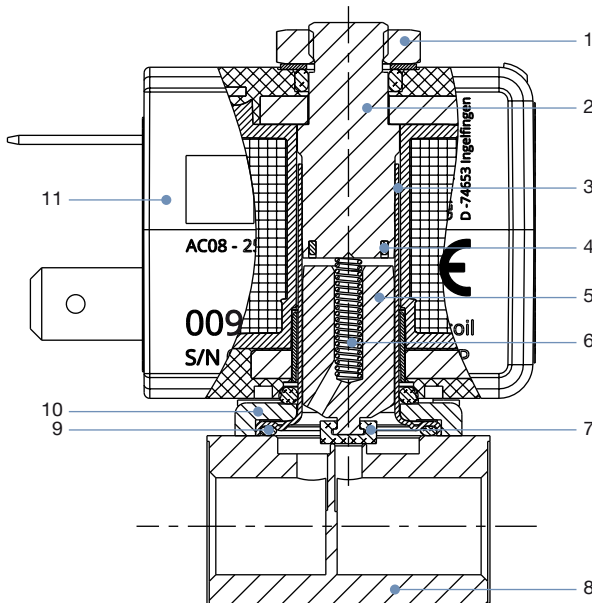
Bürkert resistApp – Chemical Resistance Chart

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](#)

4.2. Material specifications

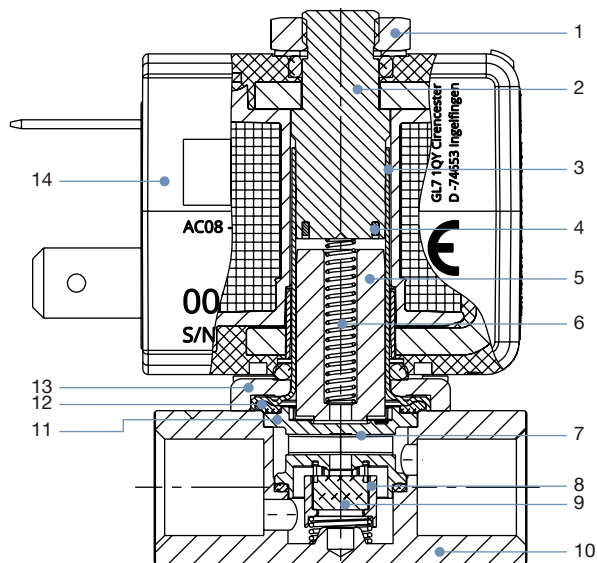
Standard version circuit function A



No.	Element	Material
1	Locknut	DIN 176 Surface finish thick film passivated KOSA0101
2	Stopper	Stainless steel 1.4113/434
3	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"> Surface finish thick film passivated KOSA0101 (brass version) Nickel-plated surface (stainless steel version)
11	Coil	Epoxy

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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	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"> Surface finish thick film passivated KOSA0101 (brass version) Nickel-plated surface (stainless steel version)
14	Coil	Epoxy

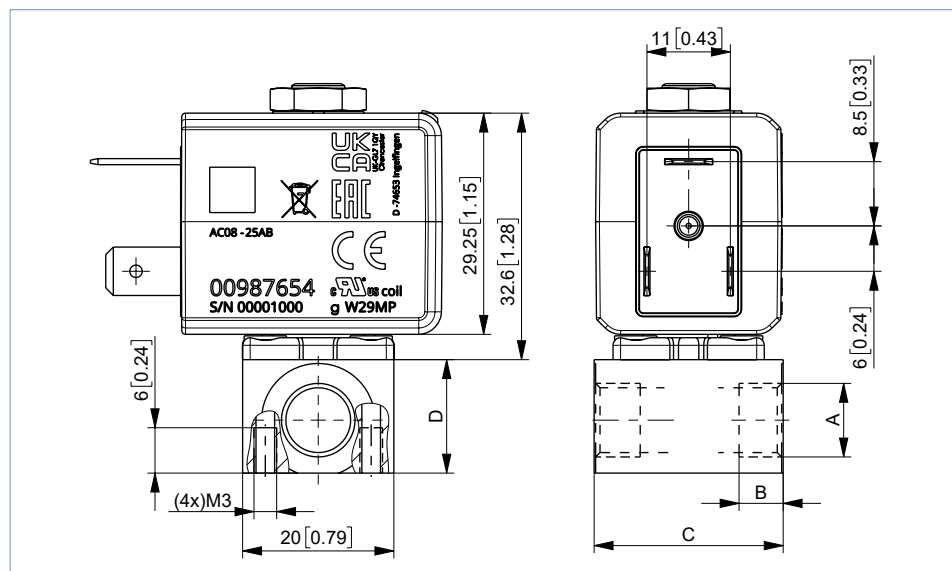
5. Dimensions

5.1. Standard version

Threaded version

Note:

- Dimensions in mm [inch]
- Versions according to industry standard form B



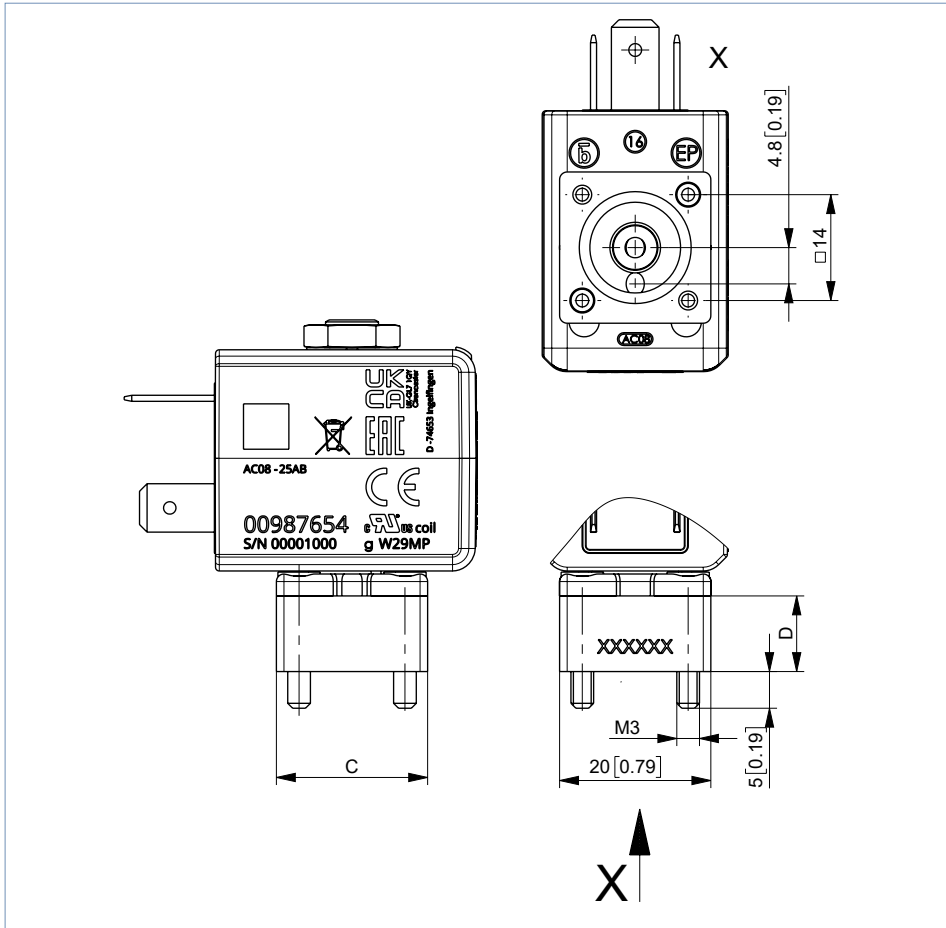
Port connection	A	B		C		D	
		[mm]	[in]	[mm]	[in]	[mm]	[in]
Thread WWA	M5	5	0.19	20	0.78	10	0.39
	G1/8	8	0.31	25	0.98	15	0.59
Thread WWB	G1/8	8	0.31	34	1.33	14	0.55

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Flange version

Note:

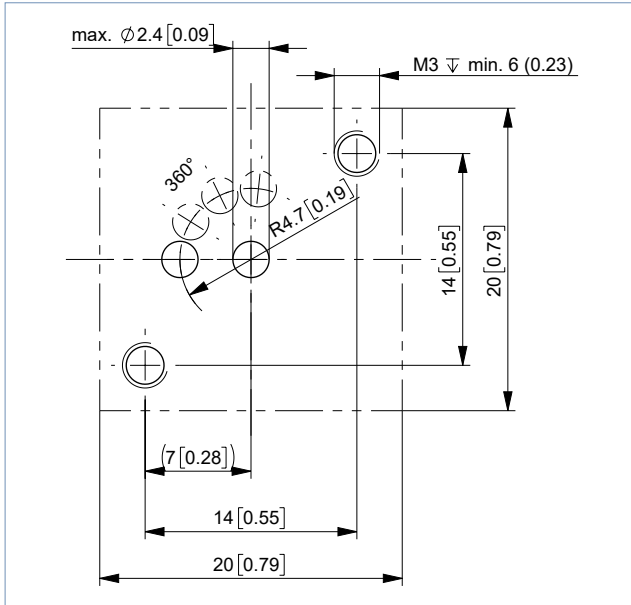
- Dimensions in mm [inch]
- Versions according to industry standard form B



Port connection	A		B		C		D	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
Flange WWA	-	-	-	-	20	0.78	10	0.39
Flange WWB	-	-	-	-	25	0.98	15	0.59

Flange pattern**Note:**

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

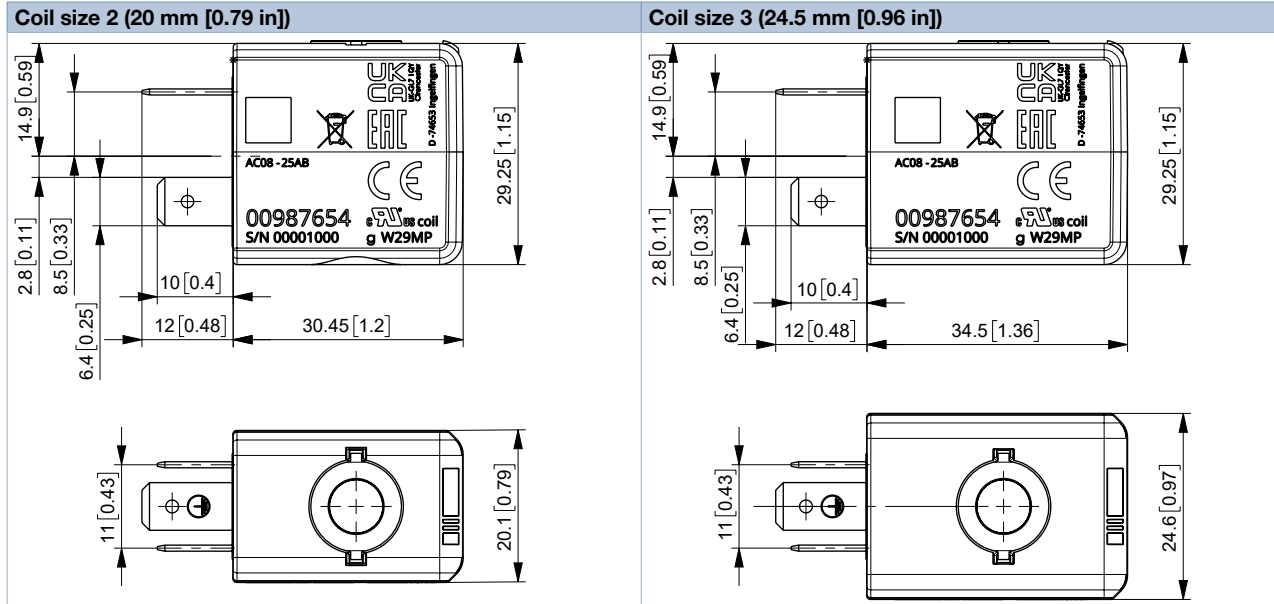


5.2. Coil versions

Versions according to industry standard form B

Note:

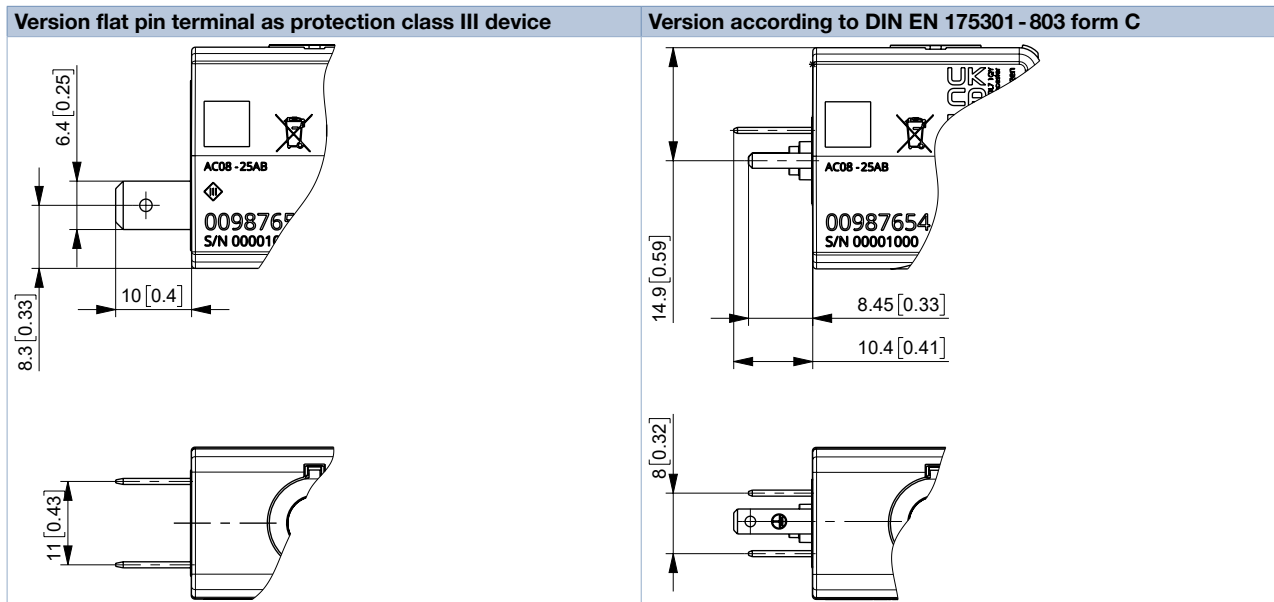
Dimensions in mm [inch]



Further electrical connections

Note:

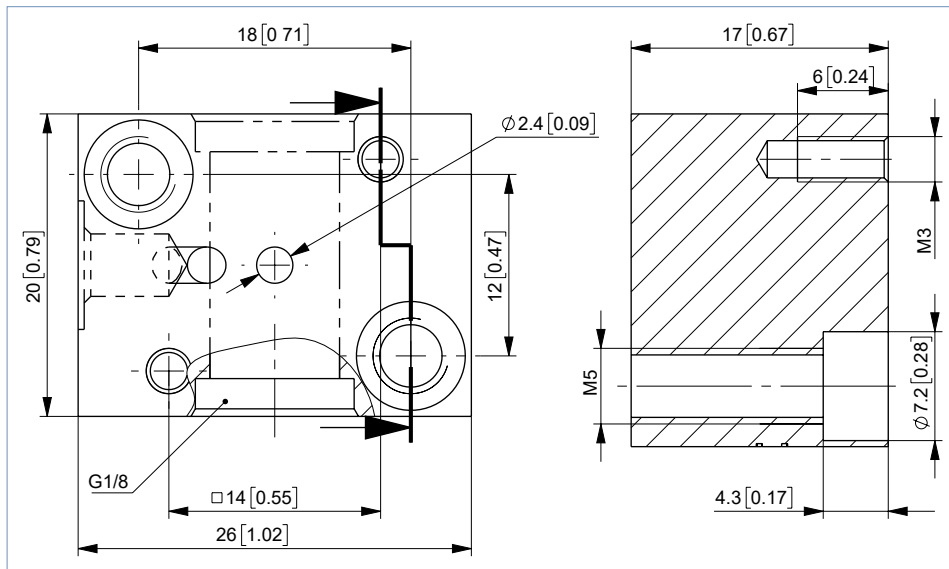
- Dimensions in mm [inch]
- Specifications apply to coil sizes 20 mm [0.79 in] and 24.5 mm [0.96 in]



5.3. Single manifold

Note:

- Dimensions in mm [inch]
- Can only be combined with valves with coil size 20 mm [0.79 in]
- Manifolds with valves of coil size 24.5 mm [0.96 in] on request



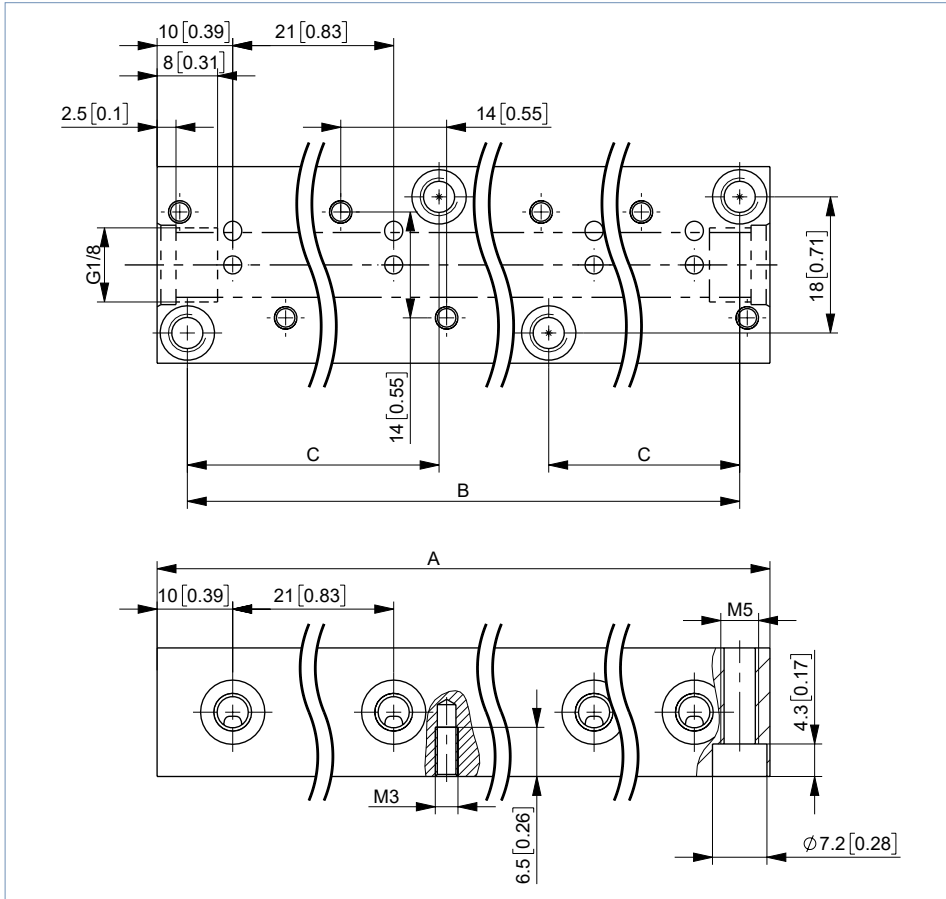
Quantity of valve places	A		B		C		Article no.
	[mm]	[in]	[mm]	[in]	[mm]	[in]	
1	20	0.78	12	0.47	-	-	005312

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5.4. Multiple manifold

Note:

- Dimensions in mm [inch]
- Can only be combined with valves with coil size 20 mm [0.79 in]
- Manifolds with valves of coil size 24.5 mm [0.96 in] on request



Quantity of valve places	A		B		C		Article no.
	[mm]	[in]	[mm]	[in]	[mm]	[in]	
2	41	1.61	33	1.29	-	-	005355
3	62	2.44	54	2.12	-	-	005313
4	83	3.26	75	2.95	-	-	005314
5	104	4.09	96	3.77	-	-	005315
6	125	4.92	117	4.6	-	-	005316
7	146	5.74	138	5.43	-	-	005893
8	167	6.57	159	6.25	54	2.12	005166
9	188	7.4	180	7.08	54	2.12	005241
10	209	8.22	201	7.91	75	2.95	005819
11	230	9.05	222	8.74	75	2.95	005242
12	251	9.88	243	9.56	96	3.77	005222

6. Device/Process connections

6.1. Pin assignment

Threaded version WWA	Threaded version WWA (+MC14)	Flange version WWA
Flange version WWA (+MC14)	Flange version WWA (+AA05)	Flange version WWA (+AC45+AD33) (+AD33+NA02)
Threaded version WWB	Flange version WWB	

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 [0.96 in]

Coil	Orifice [mm]	Electrical power					Switching times ^{1.)}	
		Inrush AC [VA]	Hold AC [VA]	[W]	DC Cold [W]	Hot [W]	Opening [ms]	Closing [ms]
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 87 psi^{2.)} and +68 °F 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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Standard version, coil size 20 mm [0.79 in]

Coil	Orifice [mm]	Electrical power					Switching times ^{1.)}	
		Inrush AC	Hold AC		DC		Opening	Closing
		[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 87 psi^{2.)} and +68 °F 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 – 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](#)

8.2. 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.

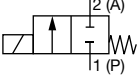
[Try out our product filter](#)

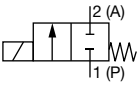
8.3. Ordering chart

Standard version according to industry standard form B, coil size 24.5 mm [0.96 in], coil UL Recognized (cURus)

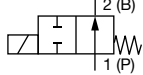
Note:

All valves are delivered without a cable plug.

Circuit function	Port connection	Orifice	C _v value water ¹⁾	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range ²⁾³⁾ (MAWP ⁴⁾)				Article no.					
						Ambient temperature 167 °F		Ambient temperature 131 °F		Brass body	Stainless steel body				
						Water	Air	Water	Air			FKM seal			
[mm]	[gal/min]	[V/Hz/W]	[psi]	[psi]	[psi]	[psi]									
CF A 2/2-way sole- noid valve Direct-acting Normally closed 	NPT 1/8	1.2	0.05	24/DC/7	100 % ED	-	-	0...334	0...334	X	X				
				24/60/6		-	-	0...653	0...653	X	X				
				120 / 60 / 6		-	-	0...653	0...653	X	X				
				240 / 60 / 6		-	-	0...653	0...653	X	X				
				24/DC/5.5		0...232	0...232	-	-	X	X				
				24/DC/5.5		-	-	0...276	0...276	X	X				
				24/60/4		0...609	0...609	0...609	0...609	X	X				
				120 / 60 / 4		0...609	0...609	0...609	0...609	X	X				
				240/60/4		0...609	0...609	0...609	0...609	X	X				
				24/DC/14		-	-	0...653	0...653	X	X				
				24/DC/7		1.6	0.07	24/DC/7	100 % ED	-	-	0...174	0...189	X	X
				24/60/4				-		-	0...435	0...435	X	X	
		120 / 60 / 4	-	-	0...435			0...435		X	X				
		240/60/4	-	-	0...435			0...435		X	X				
		24/DC/5.5	0...131	0...131	-			-		X	X				
		24/DC/5.5	-	-	0...152			0...152		X	X				
		24/60/4	0...348	0...348	0...348			0...348		X	X				
		120 / 60 / 4	0...348	0...348	0...348			0...348		X	X				
		240/60/4	0...348	0...348	0...348			0...348		X	X				
		24/DC/14	50 % ED	-	-			0...363		0...363	X	X			
		24/DC/11	0...290	0...290	-			-		X	X				
		24/DC/11	-	-	0...319			0...319		X	X				
		24/DC/7	2.0	0.13	24/DC/7	100 % ED	-	-	0...131	0...131	X	X			
		24/60/4			-		-	0...319	0...319	X	X				
		120 / 60 / 4			-		-	0...319	0...319	X	X				
		240/60/4			-		-	0...319	0...319	X	X				
		24/DC/5.5			0...94		0...94	-	-	X	X				
		24/DC/5.5			-		-	0...102	0...102	X	X				
		24/60/4			0...261		0...261	0...261	0...261	X	X				
		120 / 60 / 4			0...261		0...261	0...261	0...261	X	X				
		240/60/4			0...261		0...261	0...261	0...261	X	X				
		24/DC/14			50 % ED		-	-	0...276	0...276	X	X			
		24/DC/11			0...203		0...203	-	-	X	X				
		24/DC/11			-		-	0...232	0...232	X	X				
		24/DC/7	NPT 1/8	2.4	0.15	24/DC/7	100 % ED	-	-	0...51	0...73	X	X		
		24/60/6				-		-	0...189	0...189	X	X			
120 / 60 / 6	-	-				0...189		0...189	X	X					
240/60/6	-	-				0...189		0...189	X	X					
24/DC/5.5	0...44	0...51				-		-	X	X					
24/DC/5.5	-	-				0...51		0...58	X	X					
24/60/4	0...145	0...145				0...145		0...145	X	X					
120 / 60 / 4	0...145	0...145				0...145		0...145	X	X					
240/60/4	0...145	0...145				0...145		0...145	X	X					
24/DC/14	50 % ED	-				-		0...131	0...145	X	X				
24/DC/11	0...94	0...102				-		-	X	X					
24/DC/11	-	-				0...109		0...116	X	X					

Circuit function	Port connection	Orifice	C _v value water ^{1,3}	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range ^{2,3} (MAWP ^{4,5})				Article no.				
						Ambient temperature 167 °F		Ambient temperature 131 °F		Brass body	Stainless steel body			
						Water	Air	Water	Air					
						[psi]	[psi]	[psi]	[psi]	FKM seal				
CF A 2/2-way sole-noid valve Direct-acting Normally closed 	Manifold (FK01)	1.2	0.05	24/DC/7	100 % ED	-	-	0...334	0...334	375836 ☞	375844 ☞			
				24/60/6		-	-	0...653	0...653	X	X			
				120 / 60 / 6		-	-	0...653	0...653	X	X			
				240/60/6		-	-	0...653	0...653	X	X			
				24/DC/5.5		0...232	0...232	-	-	375868 ☞	375876 ☞			
				24/DC/5.5		-	-	0...276	0...276	X	X			
				24/60/4		0...609	0...609	0...609	0...609	X	X			
				120 / 60 / 4		0...609	0...609	0...609	0...609	X	X			
				240/60/4		0...609	0...609	0...609	0...609	X	X			
				24/DC/14		-	-	0...653	0...653	X	X			
				24/DC/11		0...508	0...508	-	-	X	X			
				24/DC/11		-	-	0...537	0...537	X	X			
				1.6		0.07	100 % ED	24/DC/7	-	-	0...174	0...189	375837 ☞	375845 ☞
								24/60/6	-	-	0...435	0...435	X	X
								120 / 60 / 6	-	-	0...435	0...435	X	X
								240/60/6	-	-	0...435	0...435	X	X
								24/DC/5.5	0...131	0...131	-	-	375869 ☞	375877 ☞
								24/DC/5.5	-	-	0...152	0...152	X	X
		24/60/4	0...348		0...348			0...348	0...348	X	X			
		120 / 60 / 4	0...348		0...348			0...348	0...348	X	X			
		240/60/4	0...348		0...348			0...348	0...348	X	X			
		24/DC/14	-		-			0...363	0...363	X	X			
		24/DC/11	0...290		0...290			-	-	X	X			
		24/DC/11	-		-			0...319	0...319	X	X			
		2.0	0.13		100 % ED			24/DC/7	-	-	0...131	0...131	375838 ☞	375846 ☞
								24/60/6	-	-	0...319	0...319	X	X
								120 / 60 / 6	-	-	0...319	0...319	X	X
								240/60/6	-	-	0...319	0...319	X	X
								24/DC/5.5	0...94	0...94	-	-	375870 ☞	375878 ☞
								24/DC/5.5	-	-	0...102	0...102	X	X
				24/60/4		0...261	0...261	0...261	0...261	X	X			
				120 / 60 / 4		0...261	0...261	0...261	0...261	X	X			
				240/60/4		0...261	0...261	0...261	0...261	X	X			
				24/DC/14		-	-	0...276	0...276	X	X			
				24/DC/11		0...203	0...203	-	-	X	X			
				24/DC/11		-	-	0...232	0...232	X	X			
				2.4		0.15	100 % ED	24/DC/7	-	-	0...51	0...73	375839 ☞	375847 ☞
								24/60/6	-	-	0...189	0...189	X	X
								120 / 60 / 6	-	-	0...189	0...189	X	X
								240/60/6	-	-	0...189	0...189	X	X
								24/DC/5.5	0...44	0...51	-	-	375871 ☞	375879 ☞
								24/DC/5.5	-	-	0...51	0...58	X	X
		24/60/4	0...145		0...145			0...145	0...145	X	X			
		120 / 60 / 4	0...145		0...145			0...145	0...145	X	X			
		240/60/4	0...145		0...145			0...145	0...145	X	X			
		24/DC/14	-		-			0...131	0...145	X	X			
		24/DC/11	0...94		0...102			-	-	X	X			
		24/DC/11	-		-			0...109	0...116	X	X			

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Circuit function	Port connection	Orifice	C _v value water ^{1,3}	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range ^{2,3} (MAWP ⁴)				Article no.		
						Ambient temperature 167 °F		Ambient temperature 131 °F		Brass body	Stainless steel body	
						Water	Air	Water	Air			FKM seal
						[psi]	[psi]	[psi]	[psi]			
CF B 2/2-way sole-noid valve Direct-acting Normally open 	NPT 1/8	2.0	0.12	24/DC/7	100 % ED	-	-	-	0...174	X	X	
				24/60/6		-	-	-	0...210	X	X	
				120 / 60 / 6		-	-	-	0...210	X	X	
				240/60/6		-	-	-	0...210	X	X	
				24/DC/5.5		-	0...145	-	-	X	X	
				24/60/4		-	0...189	-	-	X	X	
				120 / 60 / 4		-	0...189	-	-	X	X	
				240/60/4		-	0...189	-	-	X	X	
	Manifold (FK01)	2.0	0.12	24/DC/7	100 % ED	-	-	-	0...174	20009528 𐀀	X	X
				24/60/6		-	-	-	0...210	X	X	
				120 / 60 / 6		-	-	-	0...210	X	X	
				240/60/6		-	-	-	0...210	X	X	
				24/DC/5.5		-	0...145	-	-	20009530 𐀀	X	X
				24/60/4		-	0...189	-	-	X	X	
120 / 60 / 4	-	0...189	-	-	X	X						
240/60/4	-	0...189	-	-	X	X						

X: on request

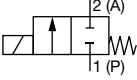
- 1.) Measurement at 14.5 psi² and +68 °F at the valve inlet and free outlet
- 2.) Pressure data: Overpressure to atmospheric pressure and air as a medium
- 3.) Number of switching cycles under laboratory conditions (FKM seal, oiled air, unpressurised, WWA, DC): 5 million (with WWB less numbers of switching cycles). Please note that an increase in switching pressure can limit the life of the seat seal.
- 4.) Maximum allowable working pressure

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Standard version according to industry standard form B, coil size 20 mm [0.79 in], coil UL Recognized (cURus)

Note:

All valves are delivered without a cable plug.

Circuit function	Port connection	Orifice	C _v value water ¹⁾	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range ²⁾³⁾ (MAWP ⁴⁾)		Article no.		
						Ambient temperature 167 °F	Ambient temperature 131 °F	Brass body	Stainless steel body	
		[mm]	[gal/min]	[V/Hz/W]	Air [psij]	Air [psij]	FKM seal			
CF A 2/2-way sole- noid valve Direct-acting Normally closed 	NPT 1/8	1.2	0.05	24/DC/6.5	100 % ED	-	0...189	X	X	
				24/60/6		-	0...508	X	X	
				120 / 60 / 6		-	0...508	X	X	
				230/50/6		-	0...508	X	X	
				24/DC/5		0...131	-	X	X	
				24/DC/5		-	0...160	X	X	
				24/50/4		0...392	0...392	X	X	
				24 / 60 / 4		0...392	0...392	X	X	
				230/50/4		0...392	0...392	X	X	
				24/DC/14		50 % ED	-	0...464	X	X
				24/DC/11		0...363	-	X	X	
				24/DC/11		-	0...435	X	X	
		24/DC/6.5	100 % ED	1.6	0.07	24/DC/6.5	-	0...123	X	X
		24/60/6				-	0...348	X	X	
		120 / 60 / 6				-	0...348	X	X	
		240/60/6				-	0...348	X	X	
		24/DC/5				0...80	-	X	X	
		24/DC/5				-	0...94	X	X	
		24/60/4				0...247	0...247	X	X	
		120 / 60 / 4				0...247	0...247	X	X	
		240/60/4				0...247	0...247	X	X	
		24/DC/14				50 % ED	-	0...319	X	X
		24/DC/11				0...247	-	X	X	
		24/DC/11				-	0...261	X	X	
		24/DC/6.5	100 % ED	2.0	0.13	24/DC/6.5	-	0...87	X	X
		24/60/6				-	0...203	X	X	
		120 / 60 / 6				-	0...203	X	X	
		240/60/6				-	0...203	X	X	
		24/DC/5				0...58	-	X	X	
		24/DC/5				-	0...65	X	X	
		24/60/4				0...145	0...145	X	X	
		120 / 60 / 4				0...145	0...145	X	X	
		240/60/4				0...145	0...145	X	X	
		24/DC/14				50 % ED	-	0...218	X	X
		24/DC/11				0...174	-	X	X	
		24/DC/11				-	0...189	X	X	
		24/DC/6.5	100 % ED	2.4	0.15	24/DC/6.5	-	0...44	X	X
		24/60/6				-	0...131	X	X	
		120 / 60 / 6				-	0...131	X	X	
		240/60/6				-	0...131	X	X	
		24/DC/5				0...29	-	X	X	
		24/DC/5				-	0...36	X	X	
		24/60/4				0...94	0...94	X	X	
		120 / 60 / 4				0...94	0...94	X	X	
		240/60/4				0...94	0...94	X	X	
		24/DC/14				50 % ED	-	0...116	X	X
		24/DC/11				0...87	-	X	X	
		24/DC/11				-	0...94	X	X	

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Circuit function	Port connection	Orifice	C _v value water ¹⁾	Voltage/ Frequency/ Power	Maximum duty cycle	Pressure range ^{2) 3)} (MAWP ⁴⁾)		Article no.				
						Ambient temperature 167 °F	Ambient temperature 131 °F	Brass body	Stainless steel body			
						Air [psi]	Air [psi]	FKM seal				
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Manifold (FK01)	1.2	0.05	24/DC/6.5	100 % ED	–	0...189	X	X			
				24/60/6		–	0...508	X	X			
				120 / 60 / 6		–	0...508	X	X			
				230/50/6		–	0...508	X	X			
				24/DC/5		0...131	–	X	X			
				24/DC/5		–	0...160	X	X			
				24/50/4		0...392	0...392	X	X			
				24 / 60 / 4		0...392	0...392	X	X			
				230/50/4		0...392	0...392	X	X			
				24/DC/14		50 % ED	–	0...464	X	X		
				24/DC/11		–	–	0...363	X	X		
				24/DC/11		–	0...435	X	X			
				1.6		0.07	100 % ED	24/DC/6.5	–	0...123	X	X
								24/60/6	–	0...348	X	X
								120 / 60 / 6	–	0...348	X	X
								240/60/6	–	0...348	X	X
								24/DC/5	0...80	–	X	X
								24/DC/5	–	0...94	X	X
		24/60/4	0...247		0...247			X	X			
		120 / 60 / 4	0...247		0...247			X	X			
		240/60/4	0...247		0...247			X	X			
		24/DC/14	50 % ED		–			0...319	X	X		
		24/DC/11	0...247		–			X	X			
		24/DC/11	–		0...261			X	X			
		2.0	0.13		100 % ED			24/DC/6.5	–	0...87	X	X
								24/60/6	–	0...203	X	X
								120 / 60 / 6	–	0...203	X	X
								240/60/6	–	0...203	X	X
								24/DC/5	0...58	–	X	X
								24/DC/5	–	0...65	X	X
				24/60/4		0...145	0...145	X	X			
				120 / 60 / 4		0...145	0...145	X	X			
				240/60/4		0...145	0...145	X	X			
				24/DC/14		50 % ED	–	0...218	X	X		
				24/DC/11		0...174	–	X	X			
				24/DC/11		–	0...189	X	X			
				2.4		0.15	100 % ED	24/DC/6.5	–	0...44	X	X
								24/60/6	–	0...131	X	X
								120 / 60 / 6	–	0...131	X	X
								240/60/6	–	0...131	X	X
								24/DC/5	0...29	–	X	X
								24/DC/5	–	0...36	X	X
		24/60/4	0...94		0...94			X	X			
		120 / 60 / 4	0...94		0...94			X	X			
		240/60/4	0...94		0...94			X	X			
		24/DC/14	50 % ED		–			0...116	X	X		
		24/DC/11	0...87		–			X	X			
		24/DC/11	–		0...94			X	X			

X: on request

1.) Measurement at 14.5 psi²⁾ and +68 °F 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.

4.) Maximum allowable working pressure

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 ⁻⁴ mbar l/sec
	PC08	Leakage rate *less than 10 ⁻⁵ mbar l/sec
	PC06	Leakage rate *less than 10 ⁻⁶ mbar l/sec

8.4. Ordering chart accessories

Single manifold

Note:
Detailed ordering information can be found in chapter **"7. Performance specifications"** on page 12.

Multiple manifold

Note:
Detailed ordering information can be found in chapter **"5.4. Multiple manifold"** on page 10.

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.
- Further versions of cable plug with circuitry acc. to industry standard connector form B as well as detailed technical data, see data sheet **Type 2507** ▶.

Cable plug	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 

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