DATA SHEET

Type 7011

bürkert
FLUID CONTROL SYSTEMS







Plunger valve 2/2 way direct-acting

- Direct-acting and compact valve with diameter of up to DN 2.4
- Central screwed coil system
- Simple and quick flange or manifold installation
- Quick coupling (push-in fitting) for plug-in hose connections

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

Type description

Valve 7011 is a direct-acting plunger valve. The stopper and plunger guide tube are welded together to enhance pressure resistance and leak-tightness. Various seal material combinations are available depending on the application. A Bürkert-specific flange design (SFB) enables space-saving arrangement of valves on a manifold. Push-in fittings can be selected for flexible hose connection. In combination with a cable plug in accordance with industry standard Form B or DIN EN 175301-803 Form C, the valves satisfy protection class IP65.

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Visit product website ▸

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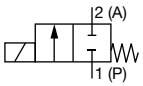
1. General technical data

Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 5.
Material	
Body	Brass, polyamide (PA), stainless steel 1.4305
Seal	FKM, EPDM
Weight	
Standard version 24.5 mm solenoid coil	146 g (with G ⅛)
Standard version 20 mm solenoid coil	120 g (with G ⅛)
Circuit function	Detailed information can be found in chapter "2. Circuit functions" on page 4.
Thermal insulation class of solenoid	Epoxy: class H
Manual override	Optional
Electrical data	
Operating voltage	24 V DC, 24 V / 50 Hz, 230 V / 50 Hz
Voltage tolerance	±10 %
Performance data	
Nominal operating mode	
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 times[1.)] standard version	Orifice 1.2…2.4 mm: opening 8…15 ms, closing 10…17 ms
Circuit function	A
Medium data	
Viscosity (max.)	21 mm^2/s
Operating medium	Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, technical vacuum)
Medium temperature standard version	-10 °C…+100 °C
Process/Port connection & communication	
Port connection standard version	M5, G ⅛, flange
Electrical connection	• 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
Approvals and certificates	
Degree of protection	IP65 with cable plug
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature standard version	Max. +55 °C resp. 75 °C depending on power level

1.) Measured at valve outlet at 6 bar and +20 °C according to ISO 12238, opening: pressure rise 0…10 %, closing: pressure drop 100…90 %

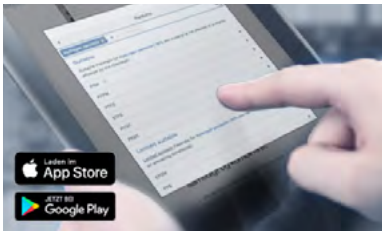
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2. Circuit functions

Circuit functions	Description
	**Type: A, solenoid valve** 2/2 way Direct-acting Normally closed

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



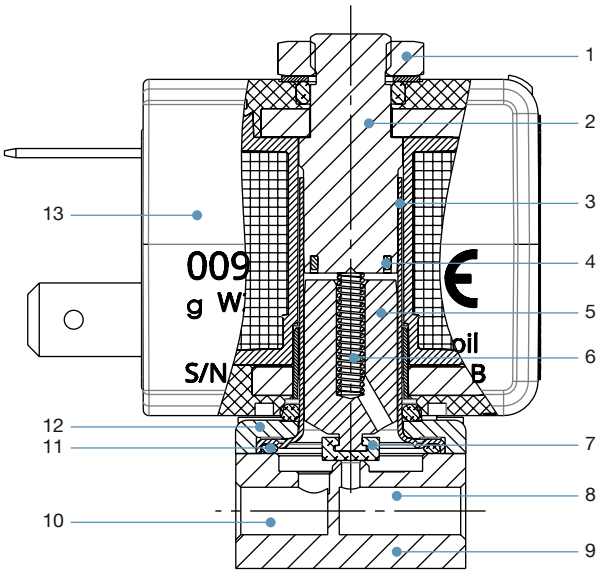
Bürkert resistApp – Chemical Resistance Chart

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

Start Chemical Resistance Check

3.2. Material specifications

Standard version



No.	Element	Material
1	Locknut	DIN 176 Surface finish thick film passivated KOSA0101
2	Stopper	Stainless steel 1.4113
3	Guide tube	Stainless steel 1.4303 ST
4	Shading ring	Copper, (optional silver)
5	Core	Stainless steel 1.4113
6	Spring	Stainless steel 1.4310
7	Seal	FKM/EPDM
8	Pressure port A	–
9	Valve body	Brass, stainless steel 1.4305 PA (polyamide)
10	Pressure port P	–
11	O-Ring	FKM/EPDM
12	Flange	• Surface finish thick film passivated KOSA0101 (brass version) • Nickel-plated surface (stainless steel version)
13	Coil	Epoxy

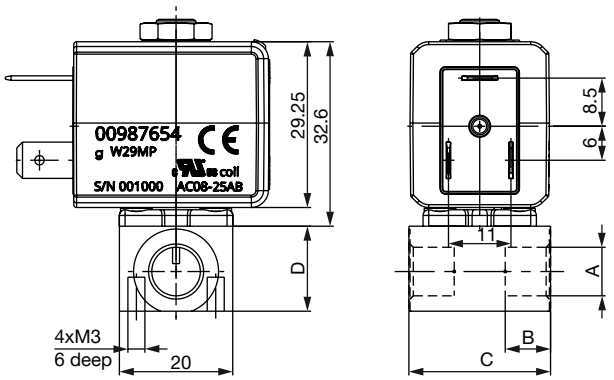
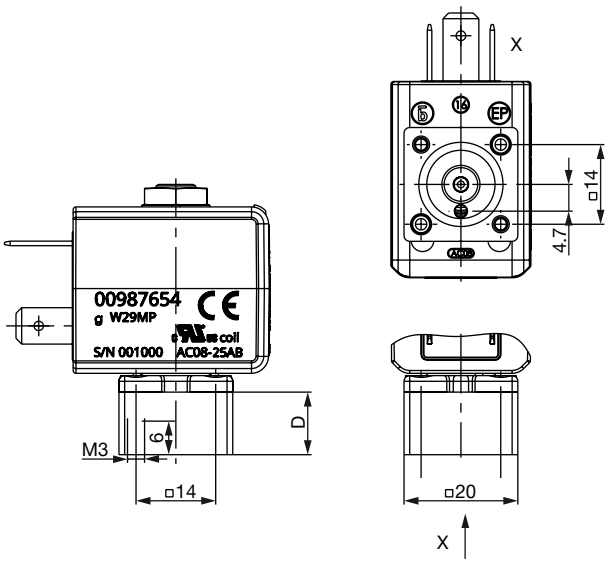
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4. Dimensions

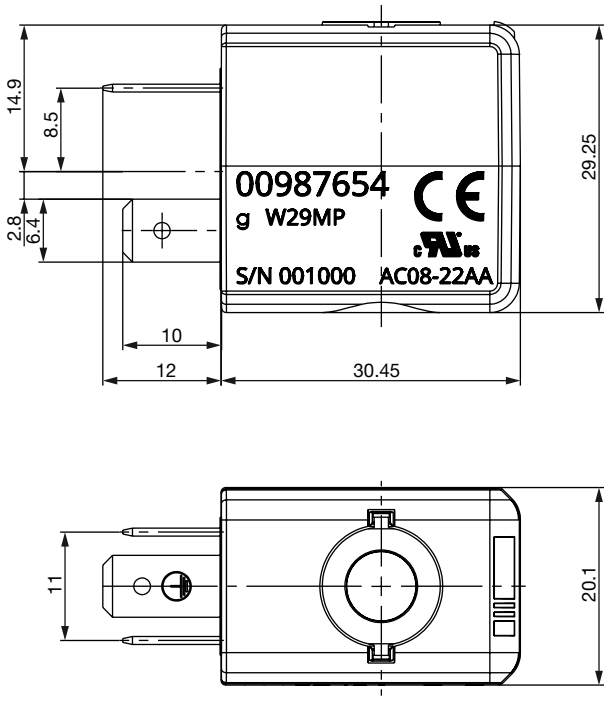
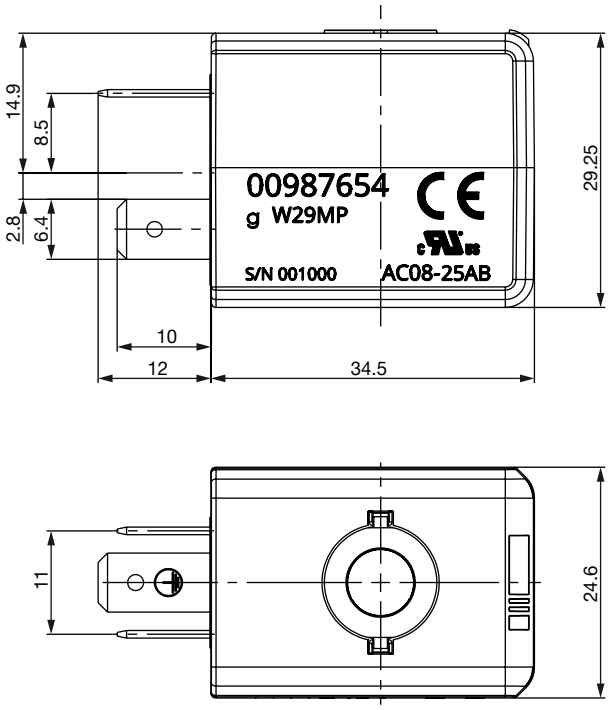
4.1. Standard version

Versions according to industry standard Form B

Note:
Dimensions in mm

Threaded version	Flange version
	

Port connection	A	B	C	D
Thread	M5	5	20	10
Thread	G ⅛	8	25	15
Flange	–	–	20	11

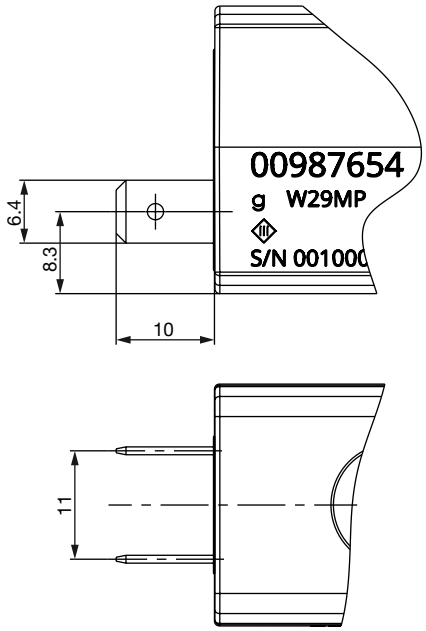
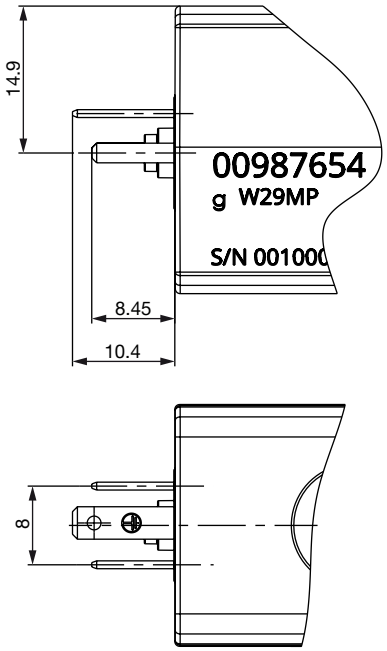
Coil size 2 (20 mm)	Coil size 3 (24.5 mm)
	

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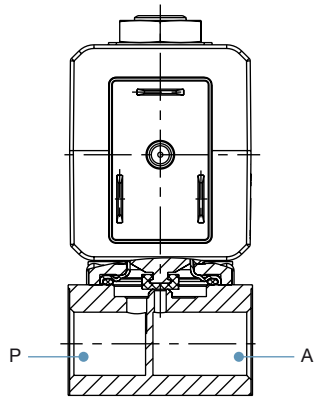
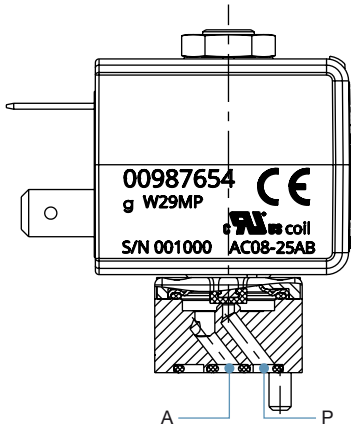
Further electrical connections

Note:

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

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

PIN Assignments

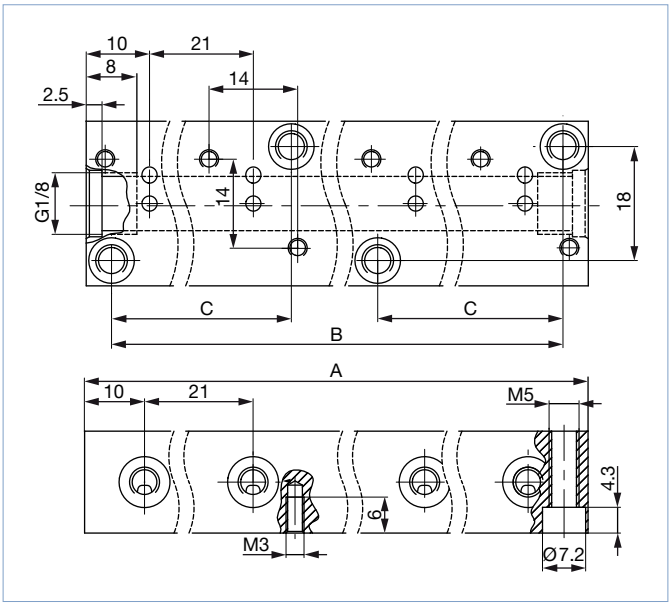
Threaded version	Flange version
	

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4.2. Multiple manifold

Note:

- Dimensions in mm
- Can only be combined with valves with coil size 20 mm
- Manifolds with valves of coil size 24.5 mm on request



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

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5. Performance specifications

5.1. Power consumption of standard coil version 24.5 mm

Coil	Orifice	Electrical power					Switching times[1.]	
		Inrush AC	Hold AC		DC		Opening	Closing
	[mm]	[VA]	[VA]	[W]	Cold [W]	Hot [W]	[ms]	[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 / 13 W	1.2	–	–	–	13	10		
	1.6							
	2.0							
	2.4							
24 V / DC / 10 W	1.2	–	–	–	10	8.5		
	1.6							
	2.0							
	2.4							

1.) Measured at valve outlet at 6 bar[2.] and +20 °C according to ISO 12238, opening: pressure rise 0…10 %, closing: pressure drop 100…90 %

2.) Measured as overpressure to the atmospheric pressure and air as a medium

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5.2. Power consumption of coil version 20 mm

Coil	Orifice	Electrical power					Switching times[1.]	
		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 / 13 W	1.2	–	–	–	13	10		
	1.6							
	2.0							
	2.4							
24 V / DC / 10 W	1.2	–	–	–	10	8.5		
	1.6							
	2.0							
	2.4							

1.) Measured at valve outlet at 6 bar[2.] and +20 °C according to ISO 12238, opening: pressure rise 0…10 %, closing: pressure drop 100…90 %

2.) Measured as overpressure to the atmospheric pressure and air as a medium

6. Ordering information

6.1. Bürkert eShop – Easy ordering and quick delivery



Bürkert eShop – Easy ordering and fast 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

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6.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

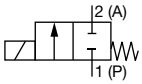
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

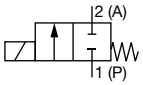
6.3. Ordering chart

Standard version according to industry standard Form B, coil size 24.5 mm

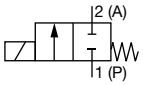
Note:
All valves without cable plug

Circuit function	Port connection	Orifice	K_V value H_2O[1.]	Voltage/ Frequency/Power	Maximum duty cycle	Medium pressure [bar][2.) 3.)]		Article no. Body material Brass	Article no. Body material stainless steel
						Ambient temperature 75 °C	Ambient temperature 55 °C		
		[mm]	[m³/h]	[V/Hz/W]		Air	Air	FKM seal	
A, solenoid valve 2/2 way Direct-acting Normally closed 	M5	1.2	0.045	24 V / DC / 7 W	100 % ED	–	0…23	380543	389721
				24 V / 50 Hz / 6 W		–	0…45	389723	389726
				230 V / 50 Hz / 6 W		–	0…45	389738	389739
				24 V / DC / 5.5 W		0…16	–	389740	389742
				24 V / DC / 5.5 W		–	0…19	X	X
				24 V / 50 Hz / 4 W		0…42	0…42	389744	389746
				230 V / 50 Hz / 4 W		0…42	0…42	389751	389750
				24 V / DC / 13 W	50 % ED	–	0…45	X	X
				24 V / DC / 10 W		0…35	–	X	X
				24 V / DC / 10 W		–	0…37	X	X
		1.6	0.06	24 V / DC / 7 W	100 % ED	–	0…13	385450	389753
				24 V / 50 Hz / 6 W		–	0…30	389757	389755
				230 V / 50 Hz / 6 W		–	0…30	389759	389761
				24 V / DC / 5.5 W		0…9	–	389765	389762
				24 V / DC / 5.5 W		–	0…10.5	X	X
				24 V / 50 Hz / 4 W		0…24	0…24	389781	389783
				230 V / 50 Hz / 4 W		0…24	0…24	389786	389785
				24 V / DC / 13 W	50 % ED	–	0…25	X	X
				24 V / DC / 10 W		0…20	–	X	X
				24 V / DC / 10 W		–	0…22	X	X
		2.0	0.11	24 V / DC / 7 W	100 % ED	–	0…9	385455	389787
				24 V / 50 Hz / 6 W		–	0…22	389791	389789
				230 V / 50 Hz / 6 W		–	0…22	389793	389794
				24 V / DC / 5.5 W		0…6.5	–	389797	389795
				24 V / DC / 5.5 W		–	0…7	X	X
				24 V / 50 Hz / 4 W		0…18	0…18	389799	389799
				230 V / 50 Hz / 4 W		0…18	0…18	389801	389802
				24 V / DC / 13 W	50 % ED	–	0…19	X	X
				24 V / DC / 10 W		0…14	–	X	X
				24 V / DC / 10 W		–	0…16	X	X

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Circuit function	Port connection	Orifice	K_V value H_2O[1.]	Voltage/ Frequency/Power	Maximum duty cycle	Medium pressure [bar][2.) 3.]		Article no. Body material Brass	Article no. Body material stainless steel
						Ambient temperature 75 °C	Ambient temperature 55 °C		
		[mm]	[m³/h]	[V/Hz/W]		Air	Air	FKM seal	
A, solenoid valve 2/2 way Direct-acting Normally closed  	M5	2.4	0.13	24 V / DC / 7 W	100 % ED	–	0…5	385457	389805
				24 V / 50 Hz / 6 W		–	0…13	389807	389809
				230 V / 50 Hz / 6 W		–	0…13	389811	389812
				24 V / DC / 5.5 W		0…3.5	–	389813	389815
				24 V / DC / 5.5 W		–	0…4	X	X
				24 V / 50 Hz / 4 W		0…10	0…10	389817	389819
				230 V / 50 Hz / 4 W		0…10	0…10	389821	389822
				24 V / DC / 13 W	50 % ED	–	0…10	X	X
				24 V / DC / 10 W		0…7	–	X	X
				24 V / DC / 10 W		–	0…8	X	X
	G ⅛	1.2	0.045	24 V / DC / 7 W	100 % ED	–	0…23	375821	375828
				24 V / 50 Hz / 6 W		–	0…45	389532	389540
				230 V / 50 Hz / 6 W		–	0…45	376225	376235
				24 V / DC / 5.5 W		0…16	–	375852	375860
				24 V / DC / 5.5 W		–	0…19	X	X
				24 V / 50 Hz / 4 W		0…42	0…42	389537	389544
				230 V / 50 Hz / 4 W		0…42	0…42	376005	376013
				24 V / DC / 13 W	50 % ED	–	0…45	X	X
				24 V / DC / 10 W		0…35	–	X	X
				24 V / DC / 10 W		–	0…37	X	X
		1.6	0.06	24 V / DC / 7 W	100 % ED	–	0…13	374309	375829
				24 V / 50 Hz / 6 W		–	0…30	389657	389658
				230 V / 50 Hz / 6 W		–	0…30	375969	375980
				24 V / DC / 5.5 W		0…9	–	375853	375861
				24 V / DC / 5.5 W		–	0…10.5	X	X
				24 V / 50 Hz / 4 W		0…24	0…24	389661	389662
				230 V / 50 Hz / 4 W		0…24	0…24	376006	376015
				24 V / DC / 13 W	50 % ED	–	0…25	X	X
				24 V / DC / 10 W		0…20	–	X	X
				24 V / DC / 10 W		–	0…22	X	X
		2.0	0.11	24 V / DC / 7 W	100 % ED	–	0…9	375822	375830
				24 V / 50 Hz / 6 W		–	0…22	389677	389680
				230 V / 50 Hz / 6 W		–	0…22	375970	375981
				24 V / DC / 5.5 W		0…6.5	–	375854	375862
				24 V / DC / 5.5 W		–	0…7	X	X
				24 V / 50 Hz / 4 W		0…18	0…18	389672	389669
				230 V / 50 Hz / 4 W		0…18	0…18	376007	376016
				24 V / DC / 13 W	50 % ED	–	0…19	X	X
				24 V / DC / 10 W		0…14	–	X	X
				24 V / DC / 10 W		–	0…16	X	X
		2.4	0.13	24 V / DC / 7 W	100 % ED	–	0…5	375823	375831
				24 V / 50 Hz / 6 W		–	0…13	375855	375863
				230 V / 50 Hz / 6 W		–	0…13	375971	375982
				24 V / DC / 5.5 W		0…3.5	–	375855	375863
				24 V / DC / 5.5 W		–	0…4	X	X
				24 V / 50 Hz / 4 W		0…10	0…10	389696	389697
				230 V / 50 Hz / 4 W		0…10	0…10	376008	376017
				24 V / DC / 13 W	50 % ED	–	0…10	X	X
				24 V / DC / 10 W		0…7	–	X	X
				24 V / DC / 10 W		–	0…8	X	X

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Circuit function	Port connection	Orifice	K_V value H_2O[1.]	Voltage/ Frequency/Power	Maximum duty cycle	Medium pressure [bar][2.) 3.)]		Article no. Body material Brass	Article no. Body material stainless steel
						Ambient temperature 75 °C	Ambient temperature 55 °C		
		[mm]	[m³/h]	[V/Hz/W]		Air	Air	FKM seal	
A, solenoid valve 2/2 way Direct-acting Normally closed  	FK01	1.2	0.045	24 V / DC / 7 W	100 % ED	–	0…23	375836	375844
				24 V / 50 Hz / 6 W		–	0…4 5	389699	389700
				230 V / 50 Hz / 6 W		–	0…45	375987	375996
				24 V / DC / 5.5 W		0…16	–	375868	375876
				24 V / DC / 5.5 W		–	0…19	X	X
				24 V / 50 Hz / 4 W		0…42	0…42	389704	389703
				230 V / 50 Hz / 4 W		0…42	0…42	376023	376031
				24 V / DC / 13 W	50 % ED	–	0…45	X	X
				24 V / DC / 10 W		0…35	–	X	X
				24 V / DC / 10 W		–	0…37	X	X
		1.6	0.06	24 V / DC / 7 W	100 % ED	–	0…13	375837	375845
				24 V / 50 Hz / 6 W		–	0…30	389705	389706
				230 V / 50 Hz / 6 W		–	0…30	375988	375997
				24 V / DC / 5.5 W		0…9	–	375869	375877
				24 V / DC / 5.5 W		–	0…10.5	X	X
				24 V / 50 Hz / 4 W		0…24	0…24	389708	389709
				230 V / 50 Hz / 4 W		0…24	0…24	376024	376032
				24 V / DC / 13 W	50 % ED	–	0…25	X	X
				24 V / DC / 10 W		0…20	–	X	X
				24 V / DC / 10 W		–	0…22	X	X
		2.0	0.11	24 V / DC / 7 W	100 % ED	–	0…9	375838	375846
				24 V / 50 Hz / 6 W		–	0…22	389711	389712
				230 V / 50 Hz / 6 W		–	0…22	375989	375999
				24 V / DC / 5.5 W		0…6.5	–	375870	375878
				24 V / DC / 5.5 W		–	0…7	X	X
				24 V / 50 Hz / 4 W		0…18	0…18	389714	389715
				230 V / 50 Hz / 4 W		0…18	0…18	376025	376033
				24 V / DC / 13 W	50 % ED	–	0…19	X	X
				24 V / DC / 10 W		0…14	–	X	X
				24 V / DC / 10 W		–	0…16	X	X
		2.4	0.13	24 V / DC / 7 W	100 % ED	–	0…5	375839	375847
				24 V / 50 Hz / 6 W		–	0…13	389716	389717
				230 V / 50 Hz / 6 W		–	0…13	375990	376000
				24 V / DC / 5.5 W		0…3.5	–	375871	375879
				24 V / DC / 5.5 W		–	0…4	X	X
				24 V / 50 Hz / 4 W		0…10	0…10	389719	389718
				230 V / 50 Hz / 4 W		0…10	0…10	376026	376034
				24 V / DC / 13 W	50 % ED	–	0…10	X	X
				24 V / DC / 10 W		0…7	–	X	X
				24 V / DC / 10 W		–	0…8	X	X

X: on request

1.) Flow value for water, measured at +20 °C, 1 bar[2.)] pressure at valve inlet and free outlet

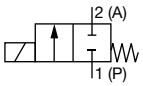
2.) Measured as overpressure to the atmospheric pressure and air as a medium

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

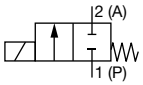
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Standard version according to industry standard Form B, coil size 20 mm

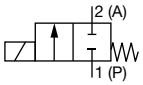
Note:
All valves without cable plug

Circuit function	Port connection	Orifice	K_V value H_2O[1.]	Voltage/ Frequency/Power	Maximum duty cycle	Medium pressure [bar][2.) 3.)]		Article no. Body material Brass	Article no. Body material stainless steel
						Ambient temperature 75 °C	Ambient temperature 55 °C		
		[mm]	[m³/h]	[V/Hz/W]		Air	Air	FKM seal	
A, solenoid valve 2/2 way Direct-acting Normally closed  	M5	1.2	0.045	24 V / DC / 6.5 W	100 % ED	–	0…13	X	X
				24 V / 50 Hz / 6 W		–	0…35	X	X
				230 V / 50 Hz / 6 W		–	0…35	X	X
				24 V / DC / 5 W		0…9	–	X	X
				24 V / DC / 5 W		–	0…11	X	X
				24 V / 50 Hz / 4 W		0…27	0…27	X	X
				230 V / 50 Hz / 4 W		0…27	0…27	X	X
				24 V / DC / 13 W	50 % ED	–	0…32	X	X
				24 V / DC / 10 W		0…25	–	X	X
				24 V / DC / 10 W		–	0…30	X	X
		1.6	0.06	24 V / DC / 6.5 W	100 % ED	–	0…8.5	X	X
				24 V / 50 Hz / 6 W		–	0…24	X	X
				230 V / 50 Hz / 6 W		–	0…24	X	X
				24 V / DC / 5 W		0…5.5	–	X	X
				24 V / DC / 5 W		–	0…6.5	X	X
				24 V / 50 Hz / 4 W		0…17	0…17	X	X
				230 V / 50 Hz / 4 W		0…17	0…17	X	X
				24 V / DC / 13 W	50 % ED	–	0…22	X	X
				24 V / DC / 10 W		0…17	–	X	X
				24 V / DC / 10 W		–	0…18	X	X
		2.0	0.11	24 V / DC / 6.5 W	100 % ED	–	0…6	X	X
				24 V / 50 Hz / 6 W		–	0…14	X	X
				230 V / 50 Hz / 6 W		–	0…14	X	X
				24 V / DC / 5 W		0…4	–	X	X
				24 V / DC / 5 W		–	0…4.5	X	X
				24 V / 50 Hz / 4 W		0…10	0…10	X	X
				230 V / 50 Hz / 4 W		0…10	0…10	X	X
				24 V / DC / 13 W	50 % ED	–	0…15	X	X
				24 V / DC / 10 W		0…12	–	X	X
				24 V / DC / 10 W		–	0…13	X	X
		2.4	0.13	24 V / DC / 6.5 W	100 % ED	–	0…3	X	X
				24 V / 50 Hz / 6 W		–	0…9	X	X
				230 V / 50 Hz / 6 W		–	0…9	X	X
				24 V / DC / 5 W		0…2	–	X	X
				24 V / DC / 5 W		–	0…2.5	X	X
				24 V / 50 Hz / 4 W		0…6.5	0…6.5	X	X
				230 V / 50 Hz / 4 W		0…6.5	0…6.5	X	X
				24 V / DC / 13 W	50 % ED	–	0…8	X	X
				24 V / DC / 10 W		0…6	–	X	X
				24 V / DC / 10 W		–	0…6.5	X	X
	G ⅛	1.2	0.045	24 V / DC / 6.5 W	100 % ED	–	0…13	X	X
				24 V / 50 Hz / 6 W		–	0…35	X	X
				230 V / 50 Hz / 6 W		–	0…35	X	X
				24 V / DC / 5 W		0…9	–	X	X
				24 V / DC / 5 W		–	0…11	X	X
				24 V / 50 Hz / 4 W		0…27	0…27	X	X
				230 V / 50 Hz / 4 W		0…27	0…27	X	X
				24 V / DC / 13 W	50 % ED	–	0…32	X	X
				24 V / DC / 10 W		0…25	–	X	X
				24 V / DC / 10 W		–	0…30	X	X

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Circuit function	Port connection	Orifice	K_V value H_2O[1.]	Voltage/ Frequency/Power	Maximum duty cycle	Medium pressure [bar][2.) 3.]		Article no. Body material Brass	Article no. Body material stainless steel
						Ambient temperature 75 °C	Ambient temperature 55 °C		
		[mm]	[m³/h]	[V/Hz/W]		Air	Air	FKM seal	
A, solenoid valve 2/2 way Direct-acting Normally closed  	G ⅛	1.6	0.06	24 V / DC / 6.5 W	100 % ED	–	0…8.5	X	X
				24 V / 50 Hz / 6 W		–	0…24	X	X
				230 V / 50 Hz / 6 W		–	0…24	X	X
				24 V / DC / 5 W		0…5.5	–	X	X
				24 V / DC / 5 W		–	0…6.5	X	X
				24 V / 50 Hz / 4 W		0…17	0…17	X	X
				230 V / 50 Hz / 4 W		0…17	0…17	X	X
				24 V / DC / 13 W	50 % ED	–	0…22	X	X
				24 V / DC / 10 W		0…17	–	X	X
				24 V / DC / 10 W		–	0…18	X	X
		2.0	0.11	24 V / DC / 6.5 W	100 % ED	–	0…6	X	X
				24 V / 50 Hz / 6 W		–	0…14	X	X
				230 V / 50 Hz / 6 W		–	0…14	X	X
				24 V / DC / 5 W		0…4	–	X	X
				24 V / DC / 5 W		–	0…4.5	X	X
				24 V / 50 Hz / 4 W		0…10	0…10	X	X
				230 V / 50 Hz / 4 W		0…10	0…10	X	X
				24 V / DC / 13 W	50 % ED	–	0…15	X	X
				24 V / DC / 10 W		0…12	–	X	X
				24 V / DC / 10 W		–	0…13	X	X
		2.4	0.13	24 V / DC / 6.5 W	100 % ED	–	0…3	X	X
				24 V / 50 Hz / 6 W		–	0…9	X	X
				230 V / 50 Hz / 6 W		–	0…9	X	X
				24 V / DC / 5 W		0…2	–	X	X
				24 V / DC / 5 W		–	0…2.5	X	X
				24 V / 50 Hz / 4 W		0…6.5	0…6.5	X	X
				230 V / 50 Hz / 4 W		0…6.5	0…6.5	X	X
				24 V / DC / 13 W	50 % ED	–	0…8	X	X
				24 V / DC / 10 W		0…6	–	X	X
				24 V / DC / 10 W		–	0…6.5	X	X
	FK01	1.2	0.045	24 V / DC / 6.5 W	100 % ED	–	0…13	X	X
				24 V / 50 Hz / 6 W		–	0…35	X	X
				230 V / 50 Hz / 6 W		–	0…35	X	X
				24 V / DC / 5 W		0…9	–	X	X
				24 V / DC / 5 W		–	0…11	X	X
				24 V / 50 Hz / 4 W		0…27	0…27	X	X
				230 V / 50 Hz / 4 W		0…27	0…27	X	X
				24 V / DC / 13 W	50 % ED	–	0…32	X	X
				24 V / DC / 10 W		0…25	–	X	X
				24 V / DC / 10 W		–	0…30	X	X
		1.6	0.06	24 V / DC / 6.5 W	100 % ED	–	0…8.5	X	X
				24 V / 50 Hz / 6 W		–	0…24	X	X
				230 V / 50 Hz / 6 W		–	0…24	X	X
				24 V / DC / 5 W		0…5.5	–	X	X
				24 V / DC / 5 W		–	0…6.5	X	X
				24 V / 50 Hz / 4 W		0…17	0…17	X	X
				230 V / 50 Hz / 4 W		0…17	0…17	X	X
				24 V / DC / 13 W	50 % ED	–	0…22	X	X
				24 V / DC / 10 W		0…17	–	X	X
				24 V / DC / 10 W		–	0…18	X	X

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Circuit function	Port connection	Orifice	K_V value H_2O[1.]	Voltage/ Frequency/Power	Maximum duty cycle	Medium pressure [bar][2.) 3.)]		Article no. Body material Brass	Article no. Body material stainless steel
						Ambient temperature 75 °C	Ambient temperature 55 °C		
		[mm]	[m³/h]	[V/Hz/W]		Air	Air	FKM seal	
A, solenoid valve 2/2 way Direct-acting Normally closed  	FK01	2.0	0.11	24 V / DC / 6.5 W	100 % ED	–	0…6	X	X
				24 V / 50 Hz / 6 W		–	0…14	X	X
				230 V / 50 Hz / 6 W		–	0…14	X	X
				24 V / DC / 5 W		0…4	–	X	X
				24 V / DC / 5 W		–	0…4.5	X	X
				24 V / 50 Hz / 4 W		0…10	0…10	X	X
				230 V / 50 Hz / 4 W		0…10	0…10	X	X
				24 V / DC / 13 W	50 % ED	–	0…15	X	X
				24 V / DC / 10 W		0…12	–	X	X
				24 V / DC / 10 W		–	0…13	X	X
		2.4	0.13	24 V / DC / 6.5 W	100 % ED	–	0…3	X	X
				24 V / 50 Hz / 6 W		–	0…9	X	X
				230 V / 50 Hz / 6 W		–	0…9	X	X
				24 V / DC / 5 W		0…2	–	X	X
				24 V / DC / 5 W		–	0…2.5	X	X
				24 V / 50 Hz / 4 W		0…6.5	0…6.5	X	X
				230 V / 50 Hz / 4 W		0…6.5	0…6.5	X	X
				24 V / DC / 13 W	50 % ED	–	0…8	X	X
				24 V / DC / 10 W		0…6	–	X	X
				24 V / DC / 10 W		–	0…6.5	X	X

X: on request

1.) Flow value for water, measured at +20 °C, 1 bar[2.)] pressure at valve inlet and free outlet

2.) Measured as overpressure to the atmospheric pressure and air as a medium

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

Additional options

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	PC04	Leakage rate *less than 10^{-7} mbar l/sec
	PC06	Leakage rate *less than 10^{-6} mbar l/sec
	PC08	Leakage rate *less or equal than 10^{-5} mbar l/sec
Vacuum version	NA02	Suitable for vacuums up to -0.98 bar
Increased purity and tightness requirements	NA03	Wetted parts are specially cleaned and leak tested to 10^{-4} mbar x l/sec
Increased purity and tightness requirements and vacuum version	NA01	Wetted parts are specially cleaned and leak tested up to 10^{-4} mbar x l/sec and suited for vacuum up to -0.98 bar

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6.4. Ordering chart accessories

Accessories for manifolds

Accessory	Features	Article no.
Screw plug	With sealing ring, G ⅛	005041
Cover plate	For unoccupied valve position	005100

Cable plug Type 2516 acc. to DIN EN 175301-803 Form C

Note:

- Delivery of cable plug includes a flat seal and a fixing screw.
- Further versions of cable plug with circuitry acc. to DIN EN 175 301-803 Form C as well as detailed technical data, see data sheet **Type 2516 ▸.**

Cable plug	Version	Voltage	Article no.
	Without circuitry (standard)	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

Cable plug Type 2507 acc. to industry standard Form B

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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