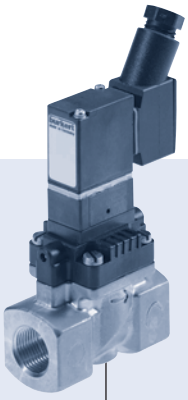
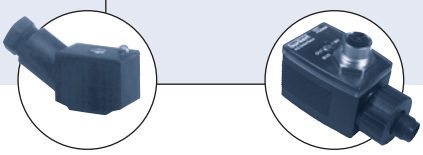
burkert
FLUID CONTROL SYSTEMS



2/2-way Solenoid Valve with servo diaphragm

- Medium separation
- Waterhammer-free, low noise
- Low power consumption
- Stainless steel body for partially aggressive medium
- NC and NO circuit function

Type 6212 can be combined with...

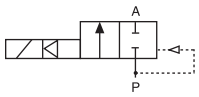


Type 2506
Cable plug

Type 2510
ASI cable plug

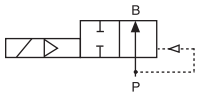
2/2-way solenoid valve with servo-diaphragm and 3-way pilot control with medium separation. Available in the circuit functions NC and NO. The medium separation in the pilot valve enables the valve to be used for slightly aggressive medium. (e.g. deionised water)

Circuit Function A



2/2-way flow valve, normally closed (NC), with 3 way rocker solenoid valve.

Circuit Function B



2/2-way flow valve, normally open (NO), with 3 way rocker solenoid valve.

Technical data	
Orifice	DN 10 - 20 mm
Body material	Brass or stainless steel 1.4404
Body cover **and internal part**	PPE/PA (Noryl) Stainless steel 1.4404
Pilot flange body	PPS
Seal material	NBR, EPDM, FKM
Medium	
NBR	Neutral medium, such as compressed air, water, hydraulic oil
EPDM	Oil and fat-free medium
FKM	Per-solutions, oil, fat, diluted acids
Medium temperature	
NBR	0 to +50 °C
EPDM	-10 to +50 °C
FKM	0 to +50 °C
Ambient temperature	Up to +55 °C
Operating voltage/ **power consumption**	24 V/DC (3.4 W), for AC, use cable plug with rectifier; 110-120 V/UC (4 W), 230-240 V/UC (4 W) (on request)
Voltage tolerance	±10 %
Duty cycle	100% continuous rating (operating with 24V/DC) 40%, 20 min. intermittent duty (operating with 110-120 V/UC, 230-240 V/UC
Electrical connection	
Tag connector acc. DIN EN 175301-803 C (previouslly DIN 43650)	Tag connector sidewards at 24 V/DC Tag connector above at 110/230 V/UC (see dimensions page 4)
Cable plug	Types 2506 and 2510 (see Accessories)
Protection class	IP 65 with cable plug
Installation	As required, preferably with actuator upright
Response times	
Opening	0.1 up to 0.5 s
Closing	0.2 up to 2.2 s

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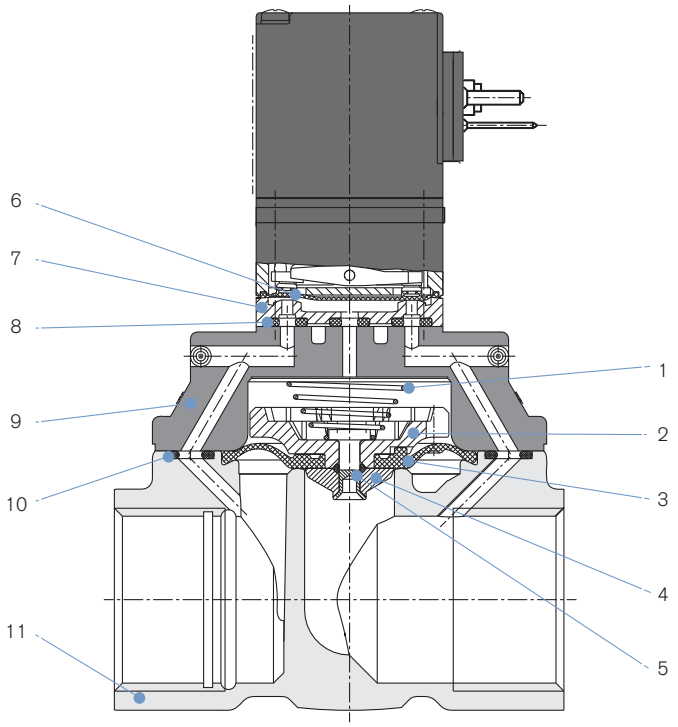
Materials



1	**Pressure spring**	Stainless steel 1.4310
2	**Diaphragm support**	PPS
3	**Diaphragm**	NBR, FKM or EPDM
4	**Diaphragm holder**	PPS
5	**Bolt**	Brass or Stainless Steel
6	**Separating diaphragm**	FKM or EPDM
7	**Flange body**	PPS
8	**O-ring**	FKM or EPDM
9	**Cover**	Stainless Steel or PPE/PA
10	**O-ring**	NBR, FKM or EPDM
11	**Valve body**	Brass, Stainless steel 1.4404 /316L

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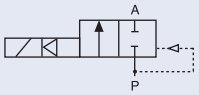
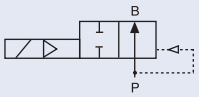
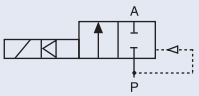
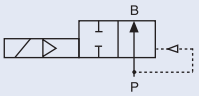
Ordering chart for valves (other versions on request)

Cable plug is not included in delivery. Please order separate. (see accessories)

Circuit function	Pressure range [bar]	Orifice [mm]	Weight [kg]	Port connection	Kv-value water [m³/h]	Voltage/ Frequency [V/Hz]	Item no. PPE/PA-Cover NBR-Seal	Item no. PPE/PA-Cover FKM-Seal	Item no. PPE/PA-Cover EPDM-Seal
Valves with brass body; cover material PPE/PA (Noryl); different sealing materials									
A  2/2-way flow valve, normally closed	0.2 - 10 *	10	0.31	G 3/8	1.9	024/DC	138 930	138 933	138 936
				G 1/2	1.9	024/DC	138 943	138 946	138 949
		13	0.44	G 1/2	3.6	024/DC	138 956	138 959	138 962
				G 3/4	3.6	024/DC	138 968	138 971	138 974
		20	0.85	G 3/4	8.3	024/DC	138 980	138 983	138 986
				G 1	8.3	024/DC	138 992	138 995	138 998
B  2/2-way flow valve, normally open	0.2 - 6 *	10	0.31	G 3/8	1.9	024/DC	139 602	139 605	139 608
				G 1/2	1.9	024/DC	139 612	139 615	139 618
		13	0.44	G 1/2	3.6	024/DC	139 622	139 625	139 628
				G 3/4	3.6	024/DC	139 632	139 635	139 638
		20	0.85	G 3/4	8.3	024/DC	139 642	139 645	139 648
				G 1	8.3	024/DC	139 652	139 655	139 658

Circuit function	Pressure range [bar]	Orifice [mm]	Weight [kg]	Port connection	Kv-value water [m³/h]	Voltage/ Frequency [V/Hz]	Item no. PPE/PA-Cover NBR-Seal	Item no. Stainless steel-Cover FKM-Seal	Item no. Stainless steel-Cover EPDM-Seal
Valves with Stainless steel body; different cover and sealing materials									
A  2/2-way flow valve, normally closed	0.2 - 10 *	10	0.31	G 3/8	1.9	024/DC	140 693	139 578	140 669
				G 1/2	1.9	024/DC	140 696	139 582	140 673
		13	0.44	G 1/2	3.6	024/DC	140 699	139 586	140 677
				G 3/4	3.6	024/DC	140 702	139 590	140 681
		20	0.85	G 3/4	8.3	024/DC	140 705	139 594	140 685
				G 1	8.3	024/DC	140 708	139 598	140 689
B  2/2-way flow valve, normally open	0.2 - 6 *	10	0.31	G 3/8	1.9	024/DC	140 735	139 662	140 711
				G 1/2	1.9	024/DC	140 738	139 666	140 715
		13	0.44	G 1/2	3.6	024/DC	140 741	139 670	140 719
				G 3/4	3.6	024/DC	140 744	139 674	140 723
		20	0.85	G 3/4	8.3	024/DC	140 748	139 678	140 727
				G 1	8.3	024/DC	140 751	139 682	140 731

* A differential pressure of 0.5 bar is necessary to open to the full orifice.

On request 110-120 V and 230-240 V coils both with an integrated rectifier and a varistor. They are therefore suitable for use with both direct and alternating voltage. For this version, please use only the cable plug without electronics.

Further versions on request

Voltages
Non standard voltages, 110-120 V, 230-240 V

Approvals
UR/ CSA approval

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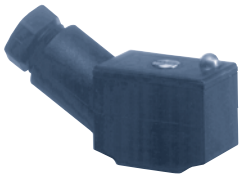
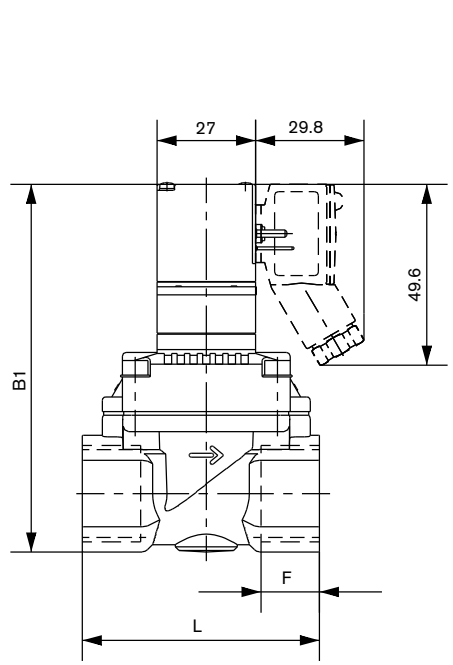
Ordering table for accessories - Connector acc. to DIN EN 175301-803 (previously DIN 43650) Form C

Included in delivery is a connector with flat seal and fixing screw. Further Versions with circuit protection, see datasheet Type 2506.

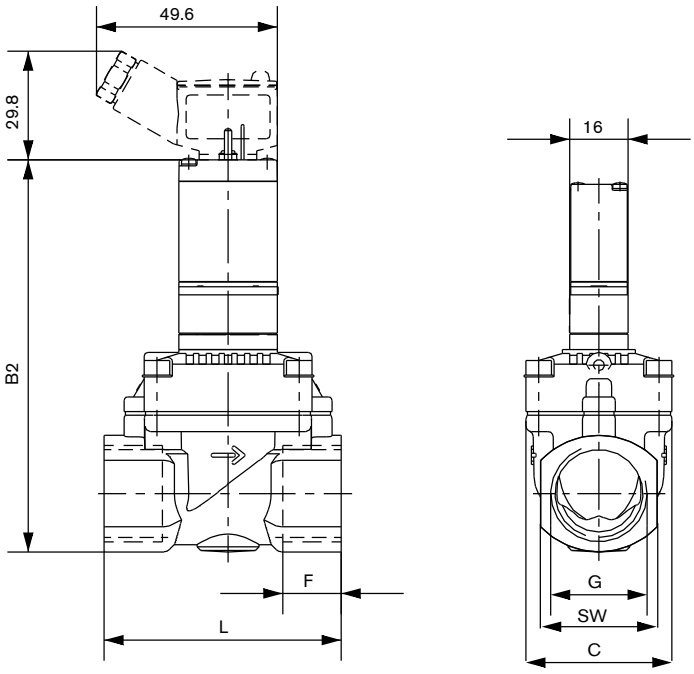
Circuit	Voltage	Item no. Type 2506
without Circuit (standard)	0 - 250 V DC	008 353
with LED	12 - 24 V DC	008 402
with LED and varistor	12 - 24 V DC	008 408
with rectifier, LED and varistor	12 - 24 V AC/DC	008 354
further versions	see datasheet Type 2506	



Dimensions [mm]



24 V DC Version



110 and 230 V Version

Tag conn. sidewards			Tag conn. above				
DN	G	B1	B2	C	F	L	SW
10	G 3/8	94.5	101	32	12	55	27
10	G 1/2	94.5	101	32	14	55	27
13	G 1/2	100.0	106.5	40	14	65	32
13	G 3/4	100.0	106.5	40	16	65	32
20	G 3/4	114.5	121	60	16	100	41
20	G 1	114.5	121	60	18	100	41

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In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

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