

2/2 or 3/2 way Rocker-Solenoid Valve with separating diaphragm

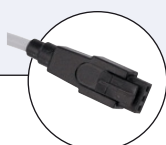


Type 6606 can be combined with...



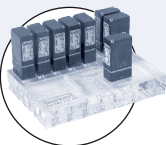
Type 2506

Cable plug form C



Type 2505

Rectangular Cable plug

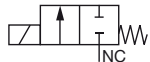


Manifolds

- For maximum chemical resistance requirements
- Compact design with 16 mm width and C_v ratings up to 0.058
- Flexible design for custom manifold assemblies
- High back pressure tightness, excellent cleanability and 100 % duty cycle
- Normally closed, normally open and universal function

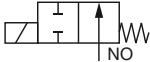
The direct-acting rocker solenoid valves with isolating diaphragm of Type 6606 (2/2- and 3/2-way) are high quality valves for analytical technology. They have minimal dead volume and internal volume with few crevices making them easy to flush out. The fluid only comes into contact with the body material and the FFKM seal. The heat transfer to the medium is minimal. The fluid path is isolated from the coil by a stainless steel plate. The valves are ideal for dosing, filling, mixing and distributing of small quantities of fluid for medical, analytical and laboratory applications.

Circuit function A



2/2 way direct-acting solenoid valve, normally closed

Circuit function B



2/2 way direct-acting solenoid valve, normally open

Circuit function T



3/2 way direct-acting solenoid valve, flow direction optional

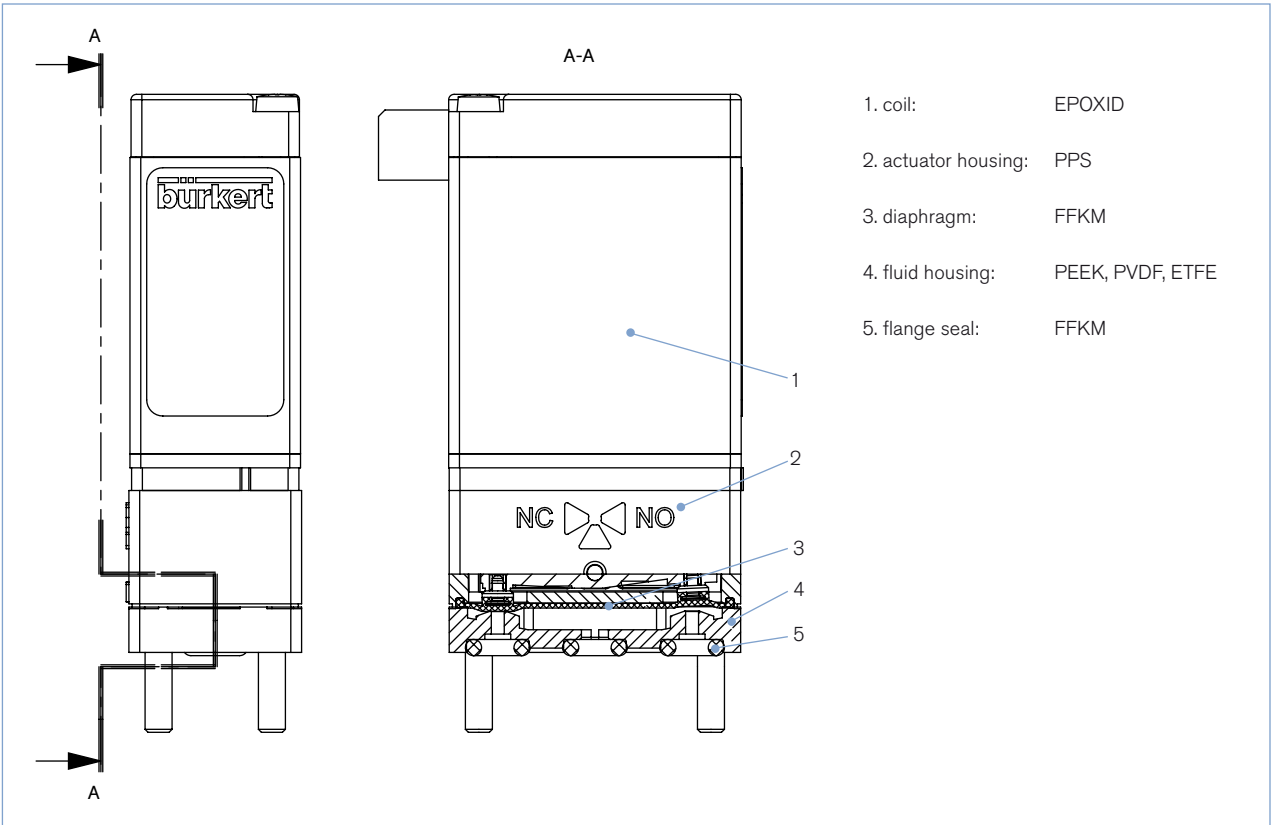
Technical data	
Orifice [mm]	DN0.8 - DN1.6 (for details see ordering chart)
Body material	PEEK, PVDF, ETFE
Seal material	FFKM
Media	Resistant to neutral and aggressive liquids and gases (see Bürkert chemical resistance chart)
Media temperature	0 to 50 °C ¹⁾
Ambient temperature	max. 55 °C
Internal volumes	with sub-base starting at 44 µl with G 1/8 and NPT 1/8 starting at 100 µl with UNF 1/4" -28 starting at 25 µl with tube spigot starting at 33 µl on request < 10 µl ²⁾
Port connection	Bürkert sub-base (16 x 27 mm), G 1/8, NPT 1/8, UNF 1/4" -28, tube connection
Electrical connection	Rectangular plug, Type 2505 Spade connection acc. to DIN 43650 C for cable plug Type 2506 on top 2 FEP flying leads, AWG 24, length 500 mm ³⁾
Operating voltage	12 and 24 V DC ; other voltages on request
Voltage tolerance	± 10 %
Power consumption	3.4 W
Duty cycle	100% continuous rating
Installation	As required, preferably with actuator in upright position
Protection class	IP65 with flying leads or with cable plug IP40 with rectangular plug
Response times	According to ISO 12238:2001; Measured at valve outlet with air at 2 bar and +20 °C Opening approx. 25 ms (Pressure rise 0 to 10%) Closing approx. 25 ms (Pressure drop 100 to 90%)

¹⁾ Temperature may vary depending on orifice and seal material. For further information see on page 2.

²⁾ The internal volume can vary depending on the housing. For further information see on page 2.

³⁾ Other electrical connectors and other cable lengths upon request.

Materials



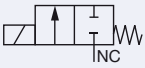
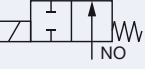
Detailed medium temperature (depending on material and orifice)

	Orifice	Seal material	Temperature range
media temperature	DN0.8	FFKM	+ 5 to + 50 °C
	DN1.2 & 1.6	FFKM	+ 10 to + 50 °C
media temperature with limitation on switching time and life expectancy	DN0.8	FFKM	0 to + 50 °C
	DN1.2 & 1.6	FFKM	+ 5 to + 50 °C

Detailed internal volume (depending on fluid housing)

Body	2-way low dead volume		2-way		3-way	
	fluid chamber	total	fluid chamber	total	fluid chamber	total
sub-base	44 µl	54 µl	97 µl	106 µl	90 µl	106 µl
G 1/8, NPT 1/8	-	-	100 µl	211 µl	92 µl	229 µl
UNF 1/4" - 28	25 µl	69 µl	55 µl	79 µl	54 µl	95 µl
tube connection	33 µl	112 µl	62 µl	142 µl	69 µl	185 µl

Ordering chart for Type 6606

Circuit function	Orifice [mm]	Port connection	K _v value water [m³/h]	C _v value water [gal/min]	Q _m value air [l/min]	Pressure range [bar] ¹⁾	Seal material	Fluid housing material	Electrical connection	Voltage/frequency [V/Hz]	Article no.
A  2/2 way direct-acting solenoid valve, normally closed	1.5	UNF ¼-28	0.03	0.035	33	Vac - 2 ²⁾	FFKM	ETFE	leads, 0.5 m	024/DC	137759 
	1.6	G ½	0.05	0.058	54	Vac - 2	FFKM	PVDF	rectangular plug	024/DC	139146 
									Spade connector sideways	024/DC	137746 
	1.6	Tube connection	0.045	0.052	49	Vac - 2 ²⁾	FFKM	PVDF	leads, 0.5 m	024/DC	137764 
									rectangular plug	024/DC	139147 
	1.6	Sub-base	0.045	0.052	49	Vac - 2	FFKM	PEEK	leads, 0.5 m	012/DC	137744 
										024/DC	137745 
									Spade connector sideways	024/DC	137741 
B  2/2 way direct-acting solenoid valve, normally open	1.6	G ½	0.05	0.058	54	Vac - 2	FFKM	PVDF	Spade connector sideways	024/DC	137747 
T  3/2 way direct-acting solenoid valve, flow direction optional	1.5	UNF ¼-28	0.03	0.035	33	Vac - 2	FFKM	ETFE	leads, 0.5 m	024/DC	137779 
	1.6	G ½	0.05	0.058	54	Vac - 2	FFKM	PVDF	leads, 0.5 m	024/DC	137771 
									rectangular plug	024/DC	139149 
									Spade connector sideways	024/DC	137769 
	1.6	Tube connection	0.045	0.052	49	Vac - 2	FFKM	PVDF	leads, 0.5 m	012/DC	137782 
										024/DC	137783 
									rectangular plug	024/DC	139150 
									Spade connector sideways	012/DC	137781 
	1.6	Sub-base	0.045	0.052	49	Vac - 2	FFKM	PEEK	leads, 0.5 m	024/DC	137768 
									rectangular plug	024/DC	139148 
									Spade connector sideways	012/DC	137766 
										024/DC	137765 

¹⁾ Overpressure with respect to atmospheric pressure. On request different pressure ranges available.

²⁾ Maximum back pressure 1 bar.



Other versions on request

Threaded port version (G1/8, NPT1/8) with rectangular plug

Threaded port version (UNF 1/4-28) for cable plug

Tube connection for cable plug

Manifold mount version with flying leads

Classification of fluid connections

2/2-way-valve, normally closed (circuit function A)
inflow at "NC"-connector

2/2-way-valve, normally closed (circuit function B)
inflow at "NO"-connector

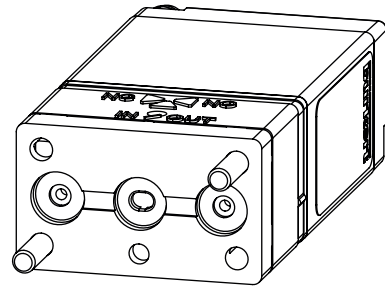
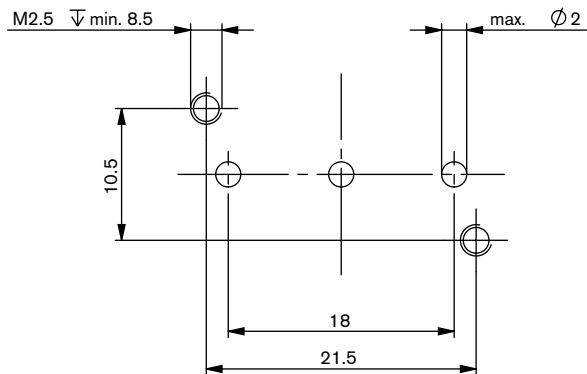
3/2-way-valve, normally open (circuit function T)
inflow at "NO"-connector

Flange interfaces at page 5.

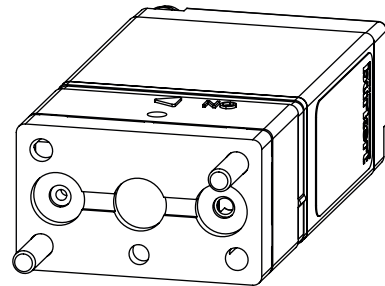
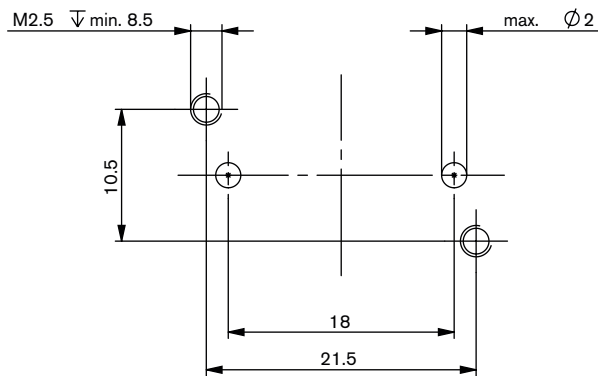
* Other screw length on request.
Self-tapping screws on request.
When selecting a connection plate the screw head overlap has to be considered.

Overview flange interfaces 16 × 27 mm

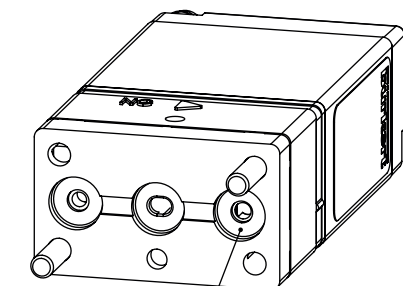
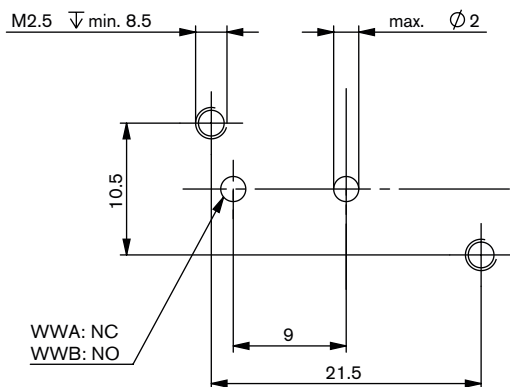
bürkert flange interface FB23 - 3-way (standard)



bürkert flange interface FB43 - 2-way (standard)



bürkert flange interface FB33 - 2-way (low dead volume). not in ordering chart - on request



hole not it use

i On request available with anti-twist device

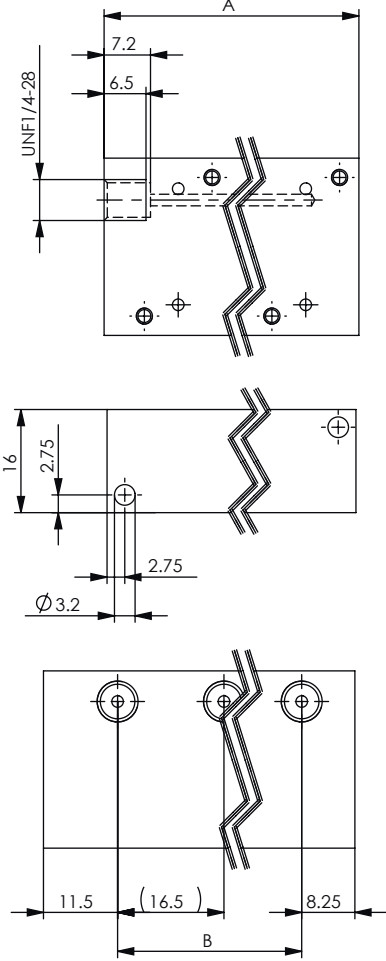
Ordering chart for Accessories

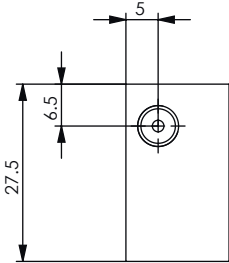
Cable plug Type 2506 acc. to DIN EN 175301-803 Form C, with flat seal and fixing screw, without cable

	Cable plug Type 2506	Voltage	Article no.
	Standard without circuitry	0-250 V/UC	008353 
	With LED	12-24 V DC	008402 
	With LED and varistor	12-24 V DC	008408 
	With rectifier, LED and varistor	12-24 V/UC	008354 

	Rectangular cable plug Type 2505	Article no.
	With 3 m cable	252572 
	With 300 mm flying leads	262346 
	With 2 single contacts	644067 

Manifolds in PEEK for Bürkert flange interface 16 × 27 2-way [mm]





Stations	A	B	n	Article no.
2 valves	36.25	16.5	2	651506 
3 valves	52.75	33	3	651510 
4 valves	69.25	49.5	4	651507 
5 valves	85.75	66	5	651508 
6 valves	102.25	82.5	6	651509 
7 valves	118.75	99	7	651521 
8 valves	135.25	115.5	8	651522 


Other manifolds on request

To find your nearest Bürkert facility, click on the orange box →

www.burkert.com

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

We reserve the right to make technical
changes without notice.

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