

## 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

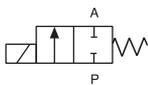


**Manifolds**

- For maximum chemical resistance requirements
- Compact design with 16 mm width and Cv 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

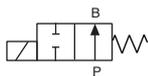
The direct-acting rocker solenoid valves with isolating diaphragm of Type 6606 (2/2- and 3/2-way) are high quality valves for analytical technology. They have minimal dead volume and internal volume with few crevices making them easy to flush out. The fluid only comes into contact with the body material 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



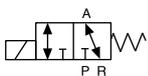
2/2-way valve,  
direct-acting,  
normally closed

### Circuit function B



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

### Circuit function T



3/2-way valve,  
direct-acting,  
universal functions

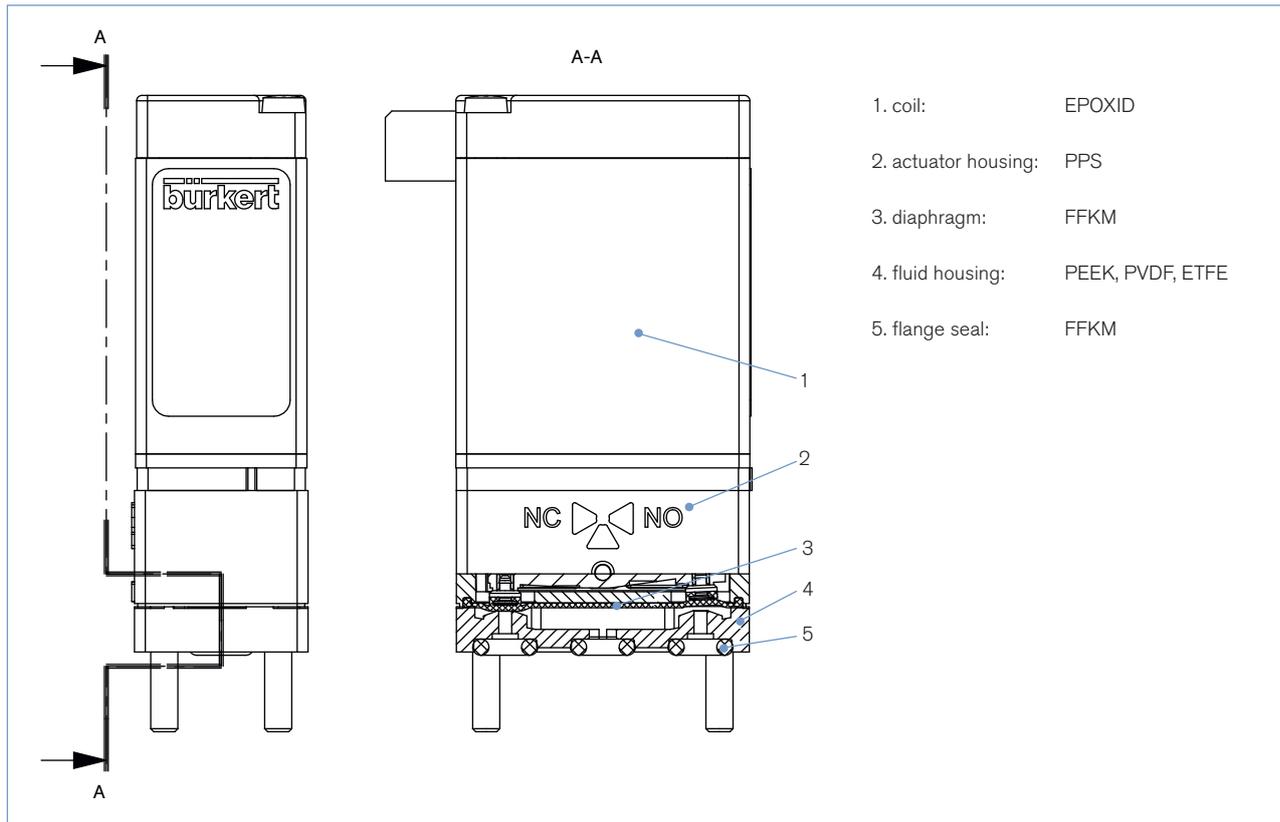
Technical data	
<b>Orifice [mm]</b>	DN 0.8 - DN 1.6 (for details see ordering chart)
<b>Body material</b>	PEEK, PVDF, ETFE
<b>Seal material</b>	FFKM
<b>Media</b>	Resistant to neutral and aggressive liquids and gases (see Burkert chemical resistance chart)
<b>Media temperature</b>	0 to 50 °C <sup>1)</sup>
<b>Ambient temperature</b>	max. 55 °C
<b>Internal volumes</b>	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 < 10 µl <sup>2)</sup> on request
<b>Port connection</b>	Bürkert sub-base (16 x 27 mm), G1/8, NPT1/8, UNF 1/4" - 28, tube connection
<b>Electrical connection</b>	Rectangular plug, Type 2505 Spade connection acc. to DIN 43650 C for cable plug Type 2506 on top 2 FEP flying leads, AWG24, length 500 mm <sup>3)</sup>
<b>Operating voltage</b>	12 and 24 V/DC ; other voltages on request
<b>Voltage tolerance</b>	± 10 %
<b>Power consumption</b>	3.4 W
<b>Duty cycle</b>	100 % continuous rating
<b>Installation</b>	As required, preferably with actuator in upright position
<b>Protection class</b>	IP 65 with flying leads or with cable plug IP 40 with rectangular plug
<b>Response times</b>	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 %)

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

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

<sup>3)</sup> Other electrical connectors and other cable lengths upon request.

## Materials



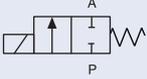
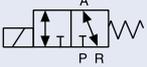
## Detailed medium temperature (depending on material and orifice)

	Orifice	Seal material	Temperature range
media temperature	DN 0.8	FFKM	+5 to +50 °C
	DN 1.2 & 1.6	FFKM	+10 to +50 °C
media temperature with limitation on switching time and life expectancy	DN 0.8	FFKM	0 to +50 °C
	DN 1.2 & 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

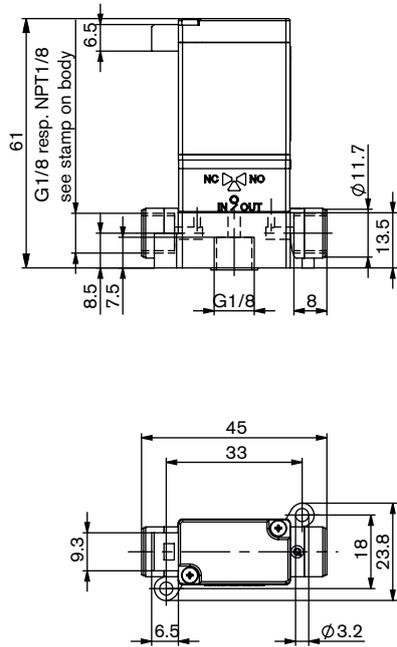
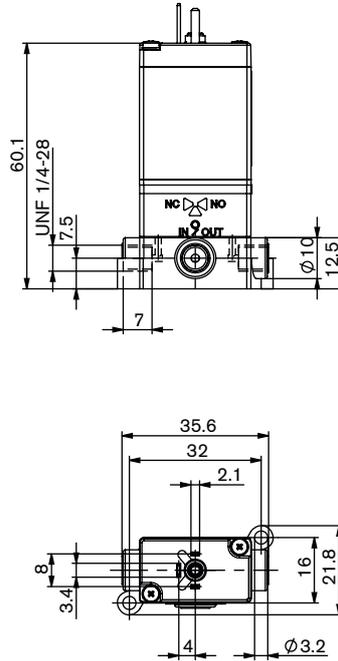
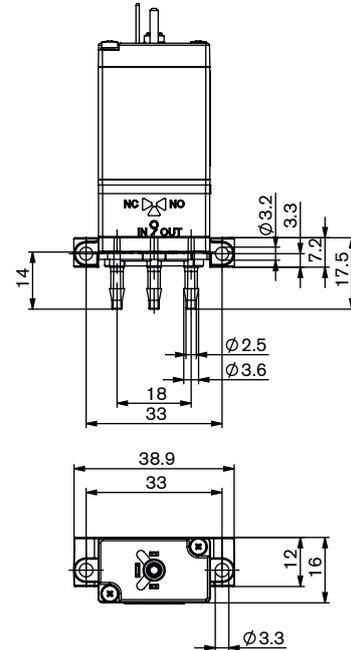
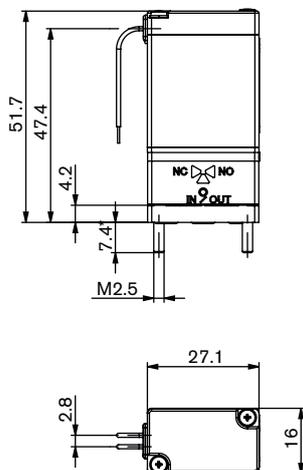
Circuit function	Orifice [mm]	Port connection	Kv value water [m <sup>3</sup> /h]	Cv value water [gal/min]	O <sub>2</sub> value air [l/min]	Pressure range [bar] <sup>1)</sup>	Seal material	Fluid housing material	Electrical connection	Voltage/frequency [V/Hz]	Item no.
<b>A</b>  2/2-way valve, direct acting, normally closed	1.5	UNF 1/4-28	0.03	0.035	33	Vac - 2 <sup>2)</sup>	FFKM	ETFE	leads, 0.5 m	024/DC	137 759
	1.6	G 1/8	0.05	0.058	54	Vac - 2	FFKM	PVDF	rectangular plug	024/DC	139 146
									Spade connector sideways	024/DC	137 746
	1.6	Tube connection	0.045	0.052	49	Vac - 2 <sup>2)</sup>	FFKM	PVDF	leads, 0.5 m	024/DC	137 764
									rectangular plug	024/DC	139 147
		Sub-base	0.045	0.052	49	Vac - 2	FFKM	PEEK	leads, 0.5 m	012/DC	137 744
Spade connector sideways									024/DC	137 745	
								024/DC	137 741		
<b>B</b>  2/2-way valve, direct-acting, normally open	1.6	G 1/8	0.05	0.058	54	Vac - 2	FFKM	PVDF	Spade connector sideways	024/DC	137 747
	<b>T</b>  3/2-way valve, direct-acting, universal functions	1.5	UNF 1/4-28	0.03	0.035	33	Vac - 2	FFKM	ETFE	leads, 0.5 m	024/DC
1.6		G 1/8	0.05	0.058	54	Vac - 2	FFKM	PVDF	leads, 0.5 m	024/DC	137 771
									rectangular plug	024/DC	139 149
									Spade connector sideways	024/DC	137 769
1.6		Tube connection	0.045	0.052	49	Vac - 2	FFKM	PVDF	leads, 0.5 m	012/DC	137 782
										024/DC	137 783
	rectangular plug								024/DC	139 150	
1.6	Sub-base	0.045	0.052	49	Vac - 2	FFKM	PEEK	Spade connector sideways	012/DC	137 781	
								leads, 0.5 m	024/DC	137 768	
								rectangular plug	024/DC	139 148	
								012/DC	137 766		
								024/DC	137 765		

<sup>1)</sup> Overpressure with respect to atmospheric pressure. On request different pressure ranges available.

<sup>2)</sup> Maximum back pressure 1 bar.

**i** Other versions on request

## Dimensions [mm]

Threaded port version (G1/8, NPT1/8)  
with rectangular plugThreaded port version (UNF 1/4-28)  
for cable plugTube connection  
for cable plugManifold 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

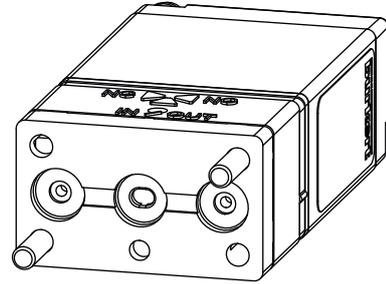
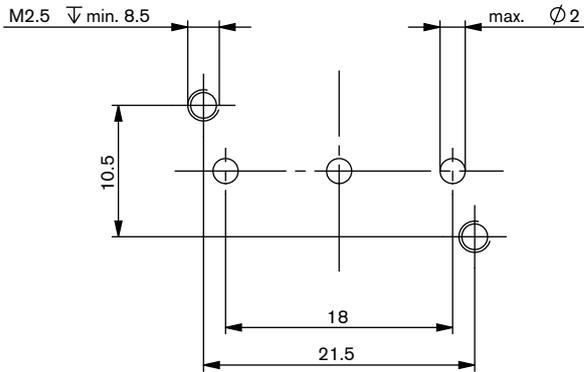
3/2-way-valve, normally open (circuit function T)  
inflow at "NO"-connector

Flange interfaces at page 5.

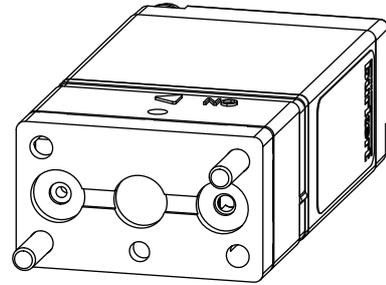
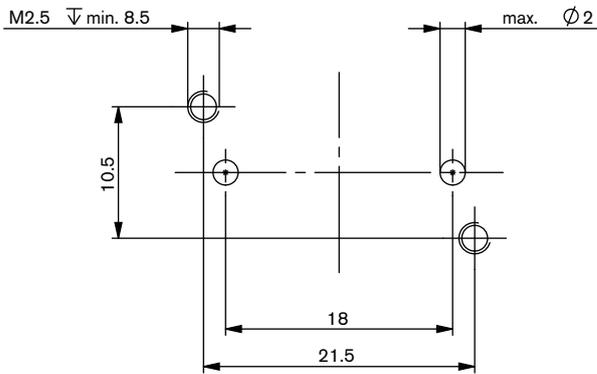
- \* Other screw length on request.
- Self-tapping screws on request.
- When selecting a connection plate the screw head overtap has to be considered.

Overview flange interfaces 16 x 27 mm

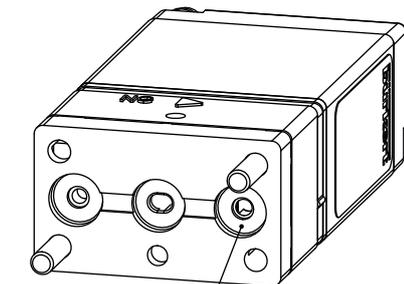
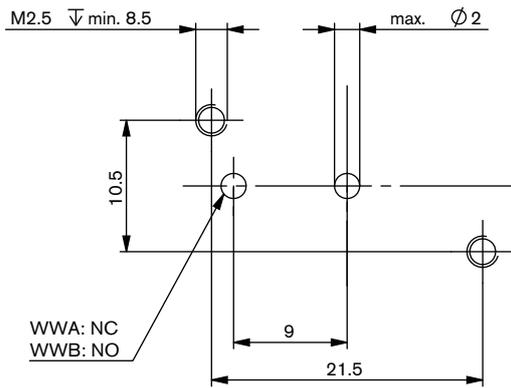
**bürkert flange interface FB23 - 3-way (standard)**



**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

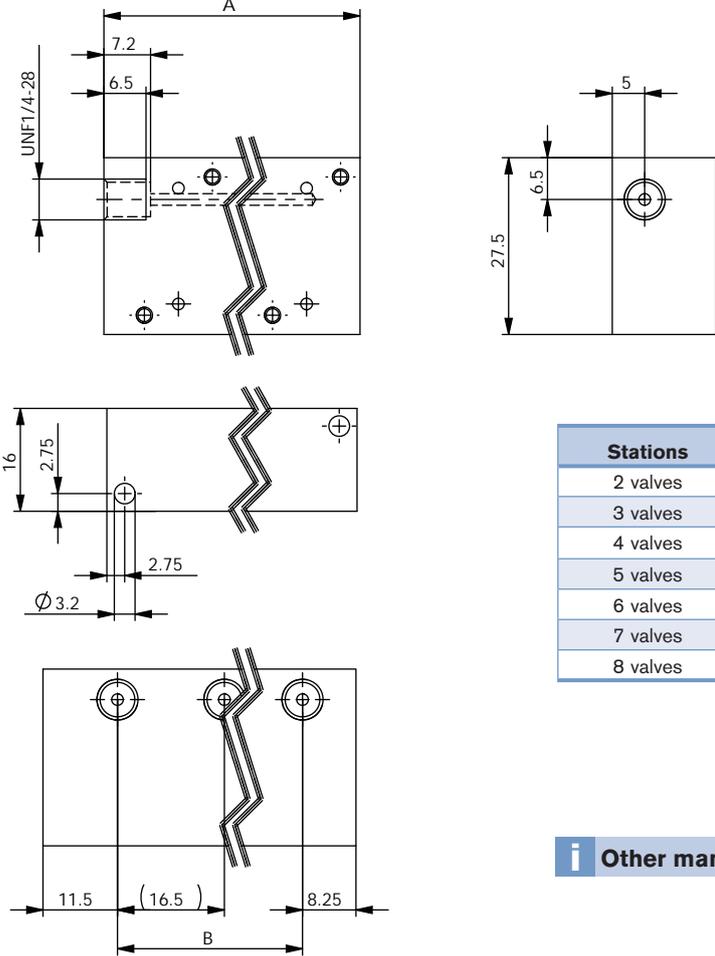
**Ordering chart for Accessories**

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	Item no.
	Standard without circuitry	0-250V/UC	008 353
	With LED	12-24V/DC	008 402
	With LED and varistor	12-24V/DC	008 408
	With rectifier, LED and varistor	12-24V/UC	008 354

	Rectangular cable plug Type 2505	Item no.
	With 3m cable	252 572
	With 300 mm flying leads	262 346
	With 2 single contacts	644 067

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



Stations	A	B	n	Item no.
2 valves	36.25	16.5	2	651 506
3 valves	52.75	33	3	651 510
4 valves	69.25	49.5	4	651 507
5 valves	85.75	66	5	651 508
6 valves	102.25	82.5	6	651 509
7 valves	118.75	99	7	651 521
8 valves	135.25	115.5	8	651 522

**i Other manifolds on request**

DTS 1000011072 EN Version: H Status: RL (released | freigegeben | valide) printed: 24.10.2016

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

[www.burkert.com](http://www.burkert.com)

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

We reserve the right to make technical changes without notice.

1509/5\_EU-en\_00891769