bürkert
FLUID CONTROL SYSTEMS



2/2- and 3/2-way Rocker Solenoid Valve

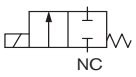
- 22 mm ultra compact design with orifices up to DN 3.0
- Isolating diaphragm for high chemical resistance
- Circuit function NC, NO and 3-way universal
- Back pressure tightness via rocker principle
- Minimal internal volume with excellent cleanability

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Direct acting medium separated 2/2- and 3/2-way Rocker Solenoid Valve for control of aggressive fluids and gases in analytical medical applications, the food industry, and also the chemical industry for dosing, filling, mixing and distribution.

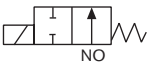
The medium is in contact with fluid housing and seal material solely through the isolating diaphragm. This valve with the new TwinPower-actuator, robust screw-in connection and 22 mm installation width, will fulfil the highest requirements. The established rocker solenoid technology is characterized through full back pressure tightness, good rinsing capability and low internal volume. Type 6628 is available in different technical versions and by virtue of several body options, it offers a perfect adaption in fluid applications.

Circuit function A



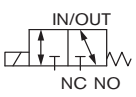
2/2-way valve, direct acting, normally closed

Circuit function B



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

Circuit function T

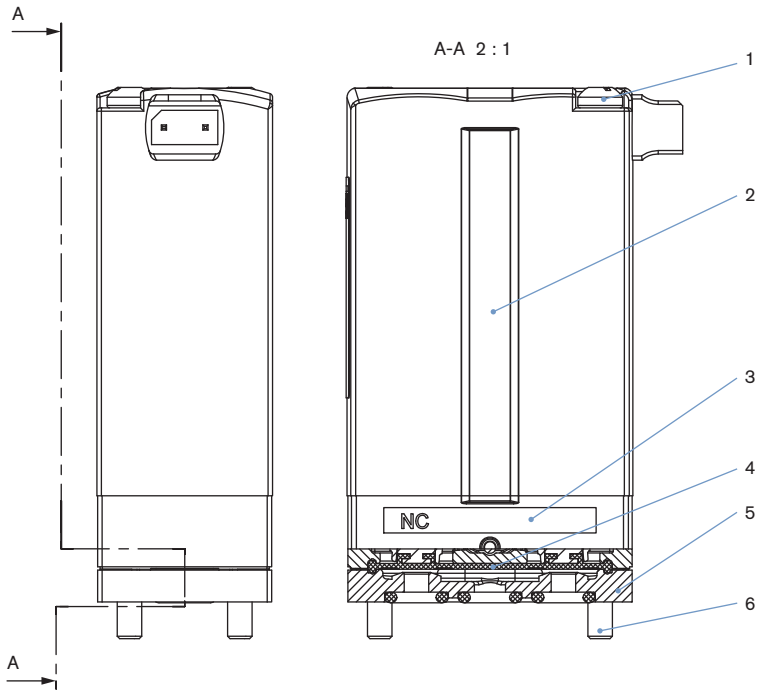


3/2-way valve, direct acting, universal function

Other circuit functions on request.

Technical Data	
Orifice	DN 2.0 or 3.0 mm
Body material	PEEK, PPS or PVDF (PP on request)
Seal material	FFKM, FKM or EPDM
Medium	Resistant to neutral and aggressive gases and liquids acc. to our chemical resistance chart
Medium temperature FKM FFKM EPDM	 0 to +55°C +10 to +55°C –10 to +55°C
Ambient temperature FKM FFKM EPDM	 0 to +55°C +10 to +55°C –10 to +55°C
Internal volume	approx. 200 µl
Viscosity	max. approx. 21 mm²/s
Port connection	▪ Bürkert-Flange (22 x 35 mm) ▪ G 1/8 ▪ NPT 1/8 ▪ Barbed hose connector 4 mm (5/32") ▪ Push-in connector (tube's external diameter 6 mm)
Electrical connection	▪ PFA single flying leads, 0,5 mm², 500 mm ▪ Rectangular plug for cable plug Type 2505 ▪ Industry plug acc. to DIN 43650 Form B for cable plug Type 2507 on request ▪ circular connector M8 on request
Power supply	12 V DC, 24 V DC Other voltages on request
Voltage tolerance	±10%
Power consumption	5 W
Duty cycle	100% continuous operation
Installation	As required, preferably with actuator upright
Protection class	IP 54 (IP40 with rectangular plug Type 2505)
Response times opening closing	Measurement at valve output with 2 bar and 20°C acc. to DIN ISO 12238:2001 25 ms (pressure build-up 0-10%) 25 ms (pressure build-up 100-90%)
Manual override	on request

Materials

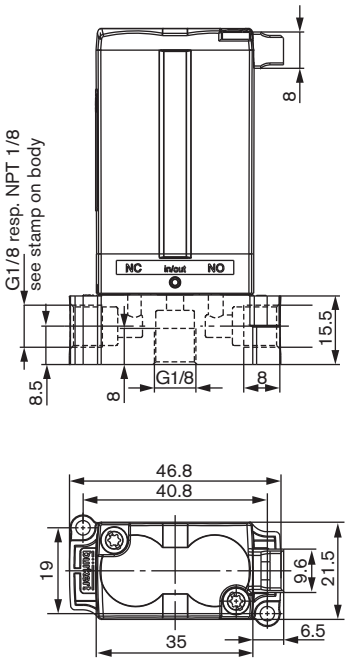


	Description	Material
1	Fixing screw (from end to end)	Stainless steel
2	Coil	Epoxy
3	Valve body	PPS
4	Diaphragm (Medium contact)	FFKM, FKM or EPDM
5	Fluid housing (Medium contact)	PEEK, PPS or PVDF (PP on request)
6	Flange seal (Medium contact)	FFKM, FKM or EPDM

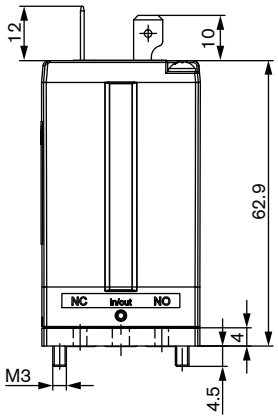
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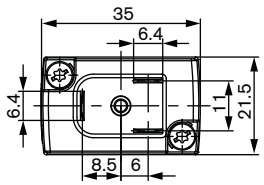
Dimensions [mm]

Threaded port version with Rectangular plug



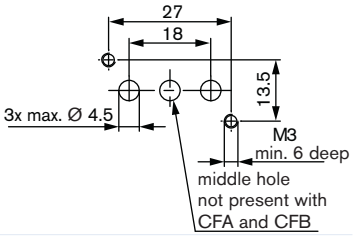
Flange version for Cable Plug



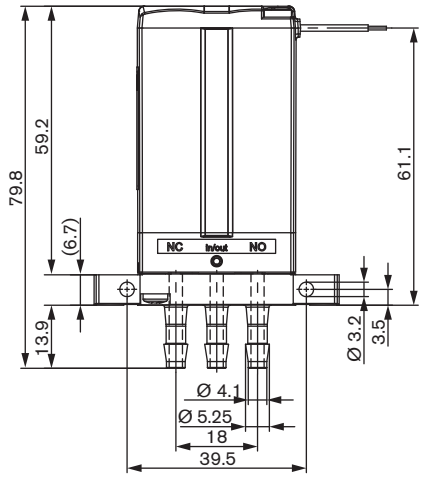


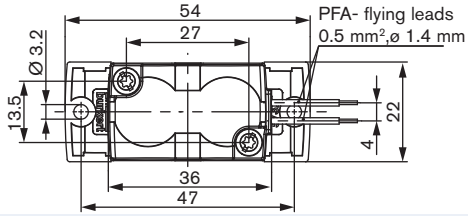
Flange interface for manifold

NC in/out NO

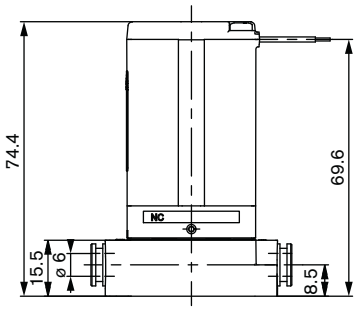


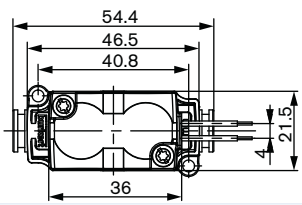
Barbed hose connector with Flying leads





Push-in connector





Classification of fluid connections

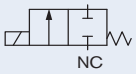
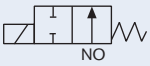
CFA (Circuit function A)
2/2-way-valve, normally closed
inflow at "NC"-connector

CFB (Circuit function B)
2/2-way-valve, normally open
inflow at "NO"-connector

CFT (Circuit function T)
3/2-way-valve , universal
flow as required

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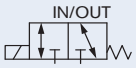
Ordering chart

Circuit function	Orifice [mm]	Port connection	Kv value water [m³/h]	Q_{Nn} value air [l/min]	Pressure range [bar]	Max. pressure difference [bar]	Seal material	Body material	Electrical connection	Voltage/ Frequency [V/Hz]	Item no.
A  2/2-way valve, direct acting, normally closed	2	Bürkert-Flange	0.1	110	Vac-5	5	EPDM	PPS	Rectangular plug	24/DC	250 857
									Flying leads, 500 mm		251 614
										12/DC	241 727
	3		0.17	180	Vac-3	3			Rectangular plug	24/DC	246 199
									Flying leads, 500mm		242 030
									Plug top		251 643
		Hose connector						PEEK	Flying leads, 500 mm		251 613
		G 1/8									236 170
									Plug top		251 644
	2	Bürkert-Flange	0.1	110	Vac-5	5	FKM	PPS	Rectangular plug	24/DC	251 618
									Flying leads, 500 mm		251 620
										12/DC	246 382
	3		0.17	180	Vac-3	3			Rectangular plug	24/DC	248 017
									Flying leads, 500mm		251 624
									Plug top		238 616
		Hose connector						PEEK	Flying leads, 500 mm		251 628
		G 1/8									242 340
									Plug top		238 615
		Push-in connection						PPS	Flying leads, 500mm		251 650
	2	Bürkert-Flange	0.1	110	Vac-5	5	FFKM	PEEK	Rectangular plug	24/DC	235 315
									Flying leads, 500 mm		234 350
										12/DC	235 316
								PVDF			270 082
	3		0.17	180	Vac-3	3		PEEK	Rectangular plug	24/DC	235 317
								PVDF			270 083
								PEEK	Flying leads, 500 mm		230 304
								PVDF			270 081
		Hose connector						PEEK			235 318
		G 1/8									235 319
B  2/2-way valve, direct acting, normally open	3	Bürkert-Flange	0.17	180	Vac-3	3	FFKM	PEEK	Flying leads, 500 mm	24/DC	251 686

- Kv-value water [m³/h] max. flow rate for water measured at +20° C, 1 bar pressure to atmosphere
- Rectangular plug types delivered without plug (see ordering chart for accessories)

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Ordering chart, continued

Circuit function	Orifice [mm]	Port connection	Kv value water [m³/h]	Q_{Nn} value air [l/min]	Pressure range [bar]	Max. pressure difference [bar]	Seal material	Body material	Electrical connection	Voltage/ Frequency [V/Hz]	Item no.
T  3/2-way valve, direct acting, universal function	2	Bürkert-Flange	0.1	110	Vac-5	5	EPDM	PPS	Rectangular plug	24/DC	250 859
									Flying leads, 500 mm		241 889
										12/DC	241 726
	3		0.17	180	Vac-2	2			Rectangular plug	24/DC	251 616
									Flying leads, 500mm		245 256
									Plug top		251 645
		Hose connector						PEEK	Flying leads, 500 mm		251 617
		G 1/8									245 205
									Plug top		251 647
	2	Bürkert-Flange	0.1	110	Vac-5	5	FKM	PPS	Rectangular plug	24/DC	251 629
									Flying leads, 500 mm		251 630
										12/DC	251 633
	3		0.17	180	Vac-2	2			Rectangular plug	24/DC	251 634
									Flying leads, 500mm		251 635
									Plug top		251 684
		Hose connector						PEEK	Flying leads, 500 mm		251 637
		G 1/8									251 638
									Plug top		251 649
		Push-in connection						PPS	Flying leads, 500mm		251 685
	2	Bürkert-Flange	0.1	110	Vac-5	5	FFKM	PEEK	Rectangular plug	24/DC	235 320
									Flying leads, 500 mm		234 340
										12/DC	235 321
								PVDF			270 079
	3		0.17	180	Vac-3	3		PEEK	Rectangular plug	24/DC	235 322
								PVDF			270 080
								PEEK	Flying leads, 500 mm		230 305
								PVDF			270 078
		Hose connector						PEEK			235 323
		G 1/8									235 325

- Kv-value water [m³/h] max. flow rate for water measured at +20° C, 1 bar pressure to atmosphere
- Rectangular plug types delivered without plug (see ordering chart for accessories)

Further versions on request

Electrical connection
Cable plug connection acc. to Form B (Industrial standard)
Flying leads

Material
Other body and seal materials

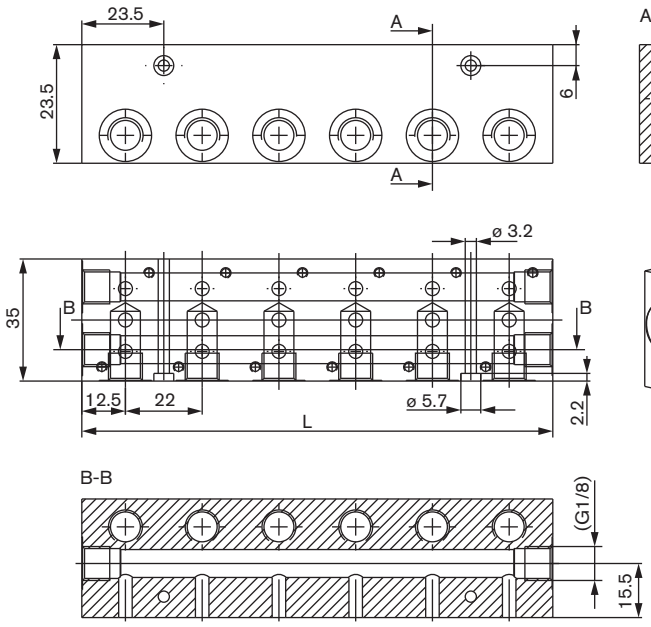
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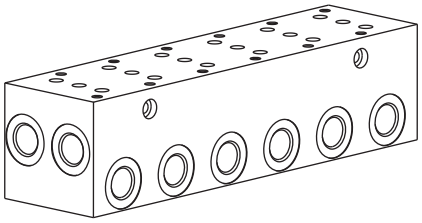
Ordering chart for accessories

	Description	Item no.
	Rectangular cable plug Type 2505 with 3 m cable	133 486
	Rectangular cable plug Type 2505 with 300 mm flying leads	644 068
	Cable Plug Type 2507 according to Industrial standard Form B, without circuitry, 0... 250 V AC/DC	423 845
	Cable Plug Type 2507 according to Industrial standard Form B, with LED, 24 V AC/DC	423 849

Dimensions [mm] and ordering chart for manifold

Multiple Manifolds with individual service port (G1/8) and diverter function on 2 common channels (G1/8); Delivery without valves; Material: anodized aluminium





Manifold	L [mm]	Item no.
2-fold	47	669 571
3-fold	69	672 633
4-fold	91	669 572
5-fold	113	672 661
6-fold	135	669 570
10-fold	223	672 660

▪ Other versions on request.

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Application examples

Flying leads valve with plug-in coupling



Flying leads valve with threaded body



Rectangular plug with hose connector



Rectangular plug with manual override and flange



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