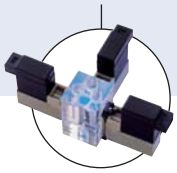
bürkert
FLUID CONTROL SYSTEMS

2/2 and 3/2-way Flipper Solenoid Valve, with hermetic isolation of fluid



- Low internal volume
- Low power consumption
- High back pressure tightness
- Optional impulse model
- DN 0.6 mm

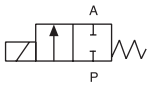
Type 6124 can be combined with...



Manifolds

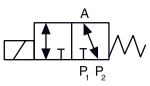
Thanks to the patented Bürkert flipper technology, the direct-acting Type 6124 solenoid valve is unique. It combines fast, precise switching behaviour with reliable media separation, and the design eliminates heat transfer between fluid and coil. FKM and PEEK allows the use of neutral and slightly aggressive fluids. The optional impulse model works with the smallest energy requirement, and is therefore especially suitable for battery operation; the heat transfer to the medium is negligible for this model. A minimal dead volume and gap-free internal design make it possible to use it in medical, analytical and laboratory technology.

Circuit function A



2/2-way valve, NC

Circuit function T



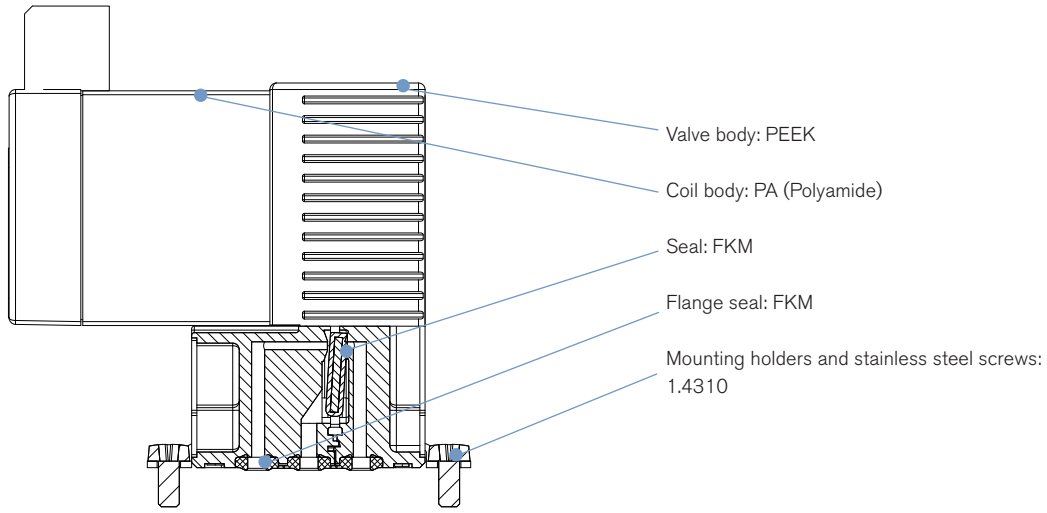
3/2-way valve, universal function

Technical data	
Orifice	DN 0.6 mm
Body material	PEEK
Seal material	FKM
Medium	Resistant to neutral and slightly aggressive liquids and gases; see Burkert chemical resistance chart
Medium temperature	0 to +50 °C
Ambient temperature	Max. +55 °C
Viscosity	Max. 21 mm^2/s
Internal volume Fluid chamber 3/2-way versions 2/2-way versions	 Approx. 15µl Approx. 45µl Approx. 35µl
Port connection	Flange UNF 1/4" - 28, Tube spigot sidewards
Manual override	Push maual override, non-locking
Operating voltage	6, 12, 24 V/DC *
Voltage tolerance	±10%
Power consumption	1.5 W
Duty cycle	100% continuous rating
Manifold mounting (in case Media- or ambient temperature higher +40 °C)	40% intermittent rating (within 10 min)
Cycling function	Monostable or bistable (option)
Electrical connections	Rectangular plug or 2 single flying leads, 300 mm
Protection class	IP 40
Mounting (sub-base valve)	with holders and mounting screw
Installation	As required, preferably with flange downwards

* 10% residual ripple permissable

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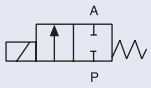
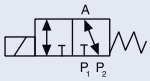
Materials



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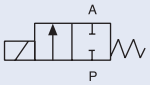
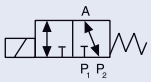
Ordering chart with flange connection (other versions on request)

All valves with PEEK body and FKM seal, rectangular plug types delivered without plug (see Accessories).
The delivery of each valve includes 2 holders with cross head M 1.6 x 5 screws.

Circuit function	Orifice [mm]	Kv value water [m³/h]	Kv value II water [l/min]	QNn value air [l/min]	Pressure range [bar]	Cycling function	Voltage/ Frequency [V/Hz]	Electrical connection	Item no.
A  2/2-way valve, NC	0.6	0.006	0.1	6.4	Vac - 3	monostable	12/DC	Rectangular plug 5.08 mm	144 120
								Flying leads, 300 mm	144 122
							24/DC	Rectangular plug 5.08 mm	144 121
								Flying leads, 300 mm	144 123
						bistable (impuls drive)	6/DC	Flying leads, 300 mm	146 175
							12/DC	Rectangular plug 5.08 mm	143 376
								Flying leads, 300 mm	146 176
T  3/2-way valve, universal function	0.6	0.006	0.1	6.4	Vac - 3	monostable	12/DC	Rectangular plug 5.08 mm	140 457
								Flying leads, 300 mm	140 459
							24/DC	Rectangular plug 5.08 mm	140 458
								Flying leads, 300 mm	140 460
						bistable (impuls drive)	12/DC	Rectangular plug 5.08 mm	142 089
								Flying leads, 300 mm	143 171

Ordering chart with tube spigots sidewards (other versions on request)

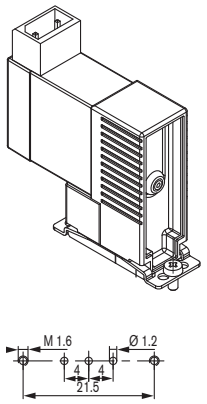
Wetted materials PEEK (valve body)+ PA (tube spigot housing) and FKM.
All valves with rectangular plug types delivered without plug (see Accessories)

Circuit function	Orifice [mm]	Kv value water [m³/h]	Kv value II water [l/min]	QNn value air [l/min]	Pressure range [bar]	Cycling function	Voltage/ Frequency [V/Hz]	Electrical connection	Item no. tube spigots sidewards
A  2/2-way valve, NC	0.6	0.006	0.1	6.4	Vac - 3	monostable	12/DC	Rectangular plug 5.08mm	145 646
								Flying leads 300mm	145 648
							24/DC	Rectangular plug 5.08mm	145 647
								Flying leads 300mm	145 649
T  3/2-way valve, universal function	0.6	0.006	0.1	6.4	Vac - 3	monostable	12/DC	Rectangular plug 5.08mm	145 641
								Flying leads 300mm	145 640
							24/DC	Rectangular plug 5.08mm	145 642
								Flying leads 300mm	145 643

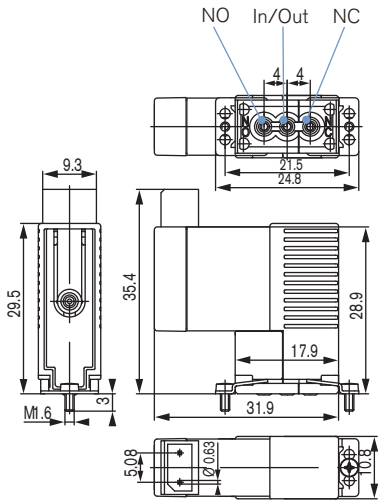
Versions on request:
- orifice 0,8 mm
- UNF 1/4"-28 port connections (PEEK)

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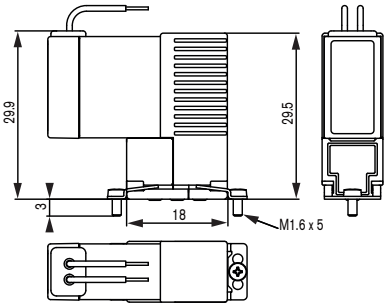
Dimensions [mm] Valves with tube spigots sidewards



Mounting face
for manifold

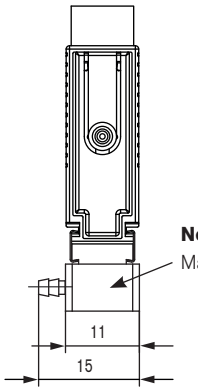


Valve with rectangular plug and holders

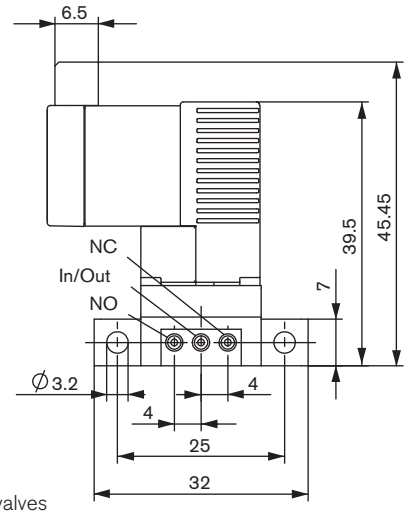


Valve with flying leads and holders

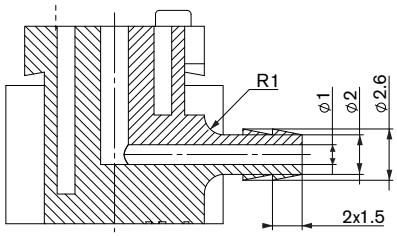
Valve with tube spigot sidewards



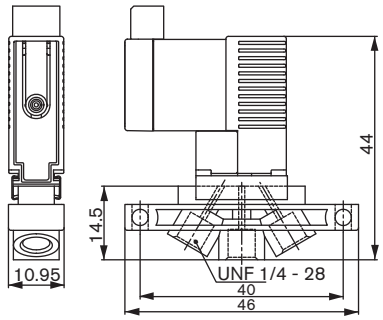
Note:
Material - PA



NO is not present on 3/2-way valves



Tube spigot dimensions



UNF Version - on request

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Ordering chart accessories

Accessories	Feature	Item no.
Rectangular cable plug	with 3m cable	133 486
	with 300mm flying leads	644 068
	with 2 single contacts	644 067
Single manifold in stainless steel	with 3x M3 connection Version with mounted manifold possible on request	644 684
Single manifold in PEEK	with 3x UNF 1/4”-28 with holders and screws, version with mounted manifold on request	on request
Multi-station manifolds in PEEK	2 valves	659 285
	3 valves	659 286
	4 valves	659 287
	5 valves	653 131
	6 valves	659 288
	8 valves	659 290

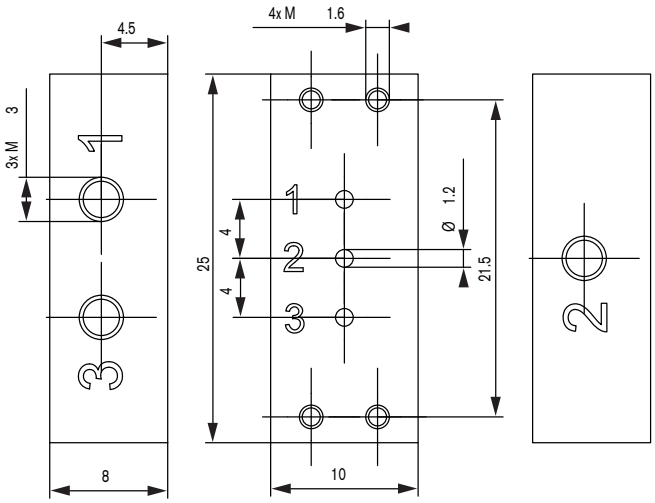
Other accessories on request:

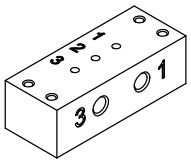
- Customised manifolds
- Fittings and tubes (see also type 1013 AA05)
- Rectangular cable plug, grid spacing 5.08 mm, for plate mounting

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Manifolds [mm]

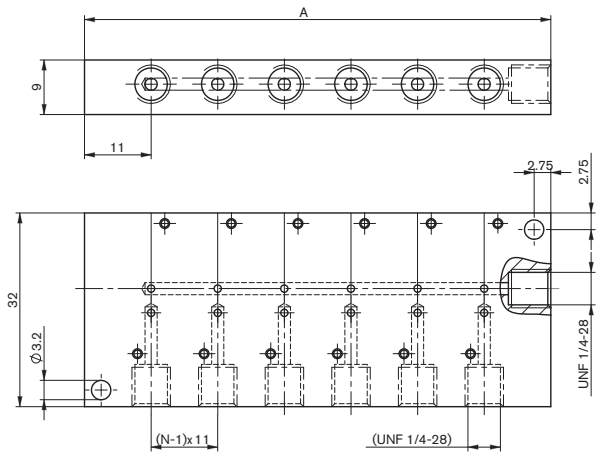
Single manifold M3, stainless steel

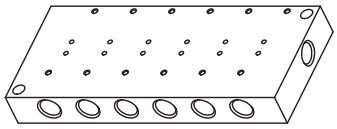




Item no.	644 684

Multi-station manifolds PEEK [mm]





Numer of valve positions	2	3	4	5	6	8
Dimensions A [mm]	33	44	55	66	77	99

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