

2/2- and 3/2-Way; Orifice 0.024 in.



The Type 6604 solenoid valves combine the highly reliable flipper technology with an isolating diaphragm and compact sizes. The valves are designed to handle a wide range of aggressive fluids, disinfectants and pure media in analytical applications.

Specifications

Nominal voltage	6, 12 and 24 V/DC
Voltage tolerance	± 10%
Power consumption	1.5 W
Duty cycle	
Single valve	100% continuously rated
Multiple valve on manifold	If temperature of fluid or ambient >104°F intermittent operation 40% (10 min.)
Cycling rate	Approx. 1000 c.p.m.
Protection class	• NEMA 4 (IP 65) with leads • IP 40 with rectangular plug
Pressure range max.	Vacuum to 43 PSI (see specifications)
Materials	
Body	PEEK
Seal	FFKM (SIMRIZ Perfluorelastomer)
Fluids	Aromatics, ethers, esters, ketones, solvents
Temperatures	
Fluid	32°F up to 122°F
Ambient	32°F up to 122°F
Max. viscosity	Approx. 21 cSt
Response time	Approx. 20 ms
Internal volume	Approx. 15 µl

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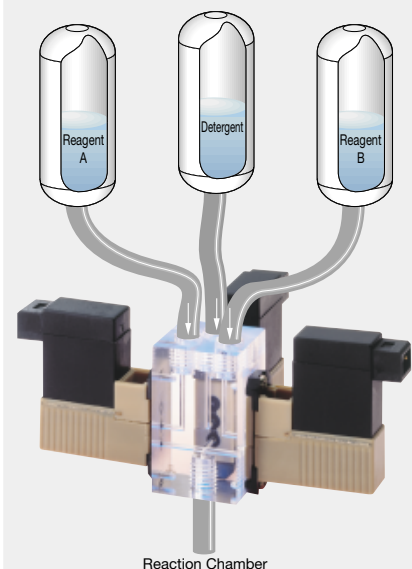
Advantages/Benefits

- Compact size
- Hermetic isolation of fluid from the actuator
- High back-pressure rating
- Low internal volume
- Zero pumping effect to media
- Impulse (latching) coils available standard

Applications

- Medical technology
- Biotechnology
- Analytical instruments
- Disinfectants and solvents
- Strong acid and bases, oxidizing solutions

Mixing and flushing station for reagent dosage



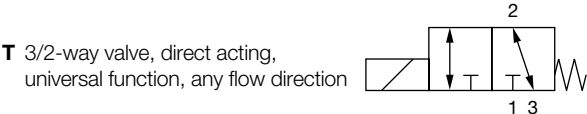
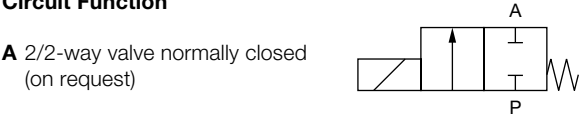
burkert
Fluid Control Systems

10mm Micro Flipper Solenoid Valve with Isolating Diaphragm for Analytical Applications

Type 6604

Technical Data

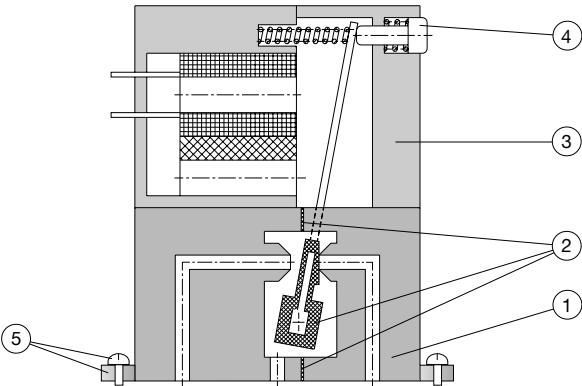
Circuit Function



Port connection	Orifice [inch]	C _v -Value (water) [GPM]	Pressure range [PSI]	Back-pressure [PSI]	Response Times		Weight [oz.]
					Opening [ms]	Closing [ms]	
Manifold	.024	.006 ²⁾	Vac. - 43	28	<10	<20	.46

²⁾ **Flow rate: C_v-value water [GPM]**
Measured at 68°F, 15 PSI pressure to atmosphere
Pressure ranges [PSI]
Measured as overpressure to the atmospheric pressure
Response times [ms]
Measured at valve outlet at 87 PSI and 68°F
Opening Pressure rise from 0 to 90%
Closing Pressure drop from 100 to 10%

Materials



- | | |
|--------------------|-------------------------------|
| 1 Valve body: | PEEK |
| 2 Diaphragm: | FFKM (SIMRIZ) |
| 3 Coil body: | PA (Polyamide) |
| 4 Manual override: | PEEK |
| 5 Mounting clip: | PA with stainless steel screw |

Ordering-Information Accessories

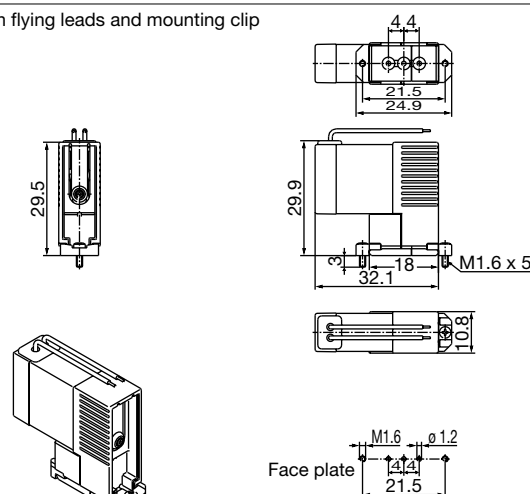
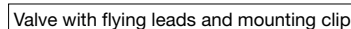
Accessory	Description	Item-No.
Rectangular plug 0.2 in.	10 ft. cable jacketed [3m]	133 486 F
	12 in. leads [300mm]	644 068 N
	78 in. leads [2m]	148 578 R
	single contacts for manifold mounting	644 067 D
Single manifold PEEK	3 x UNF-1/4-28-connection	645 754 K
Single manifold SS	3 x M3-connection	644 684 D
3-Station manifold, PEEK	2-Way Function, Single Common Port, Drawing Available Upon Request	US61379
6-Station manifold, PEEK	2-Way Function, Single Common Port, Drawing Available Upon Request	US61380
3-Station manifold, PEEK	2-Way Function, Single Common Port, Drawing Available Upon Request	US61383
6-Station manifold, PEEK	2-Way Function, Single Common Port, Drawing Available Upon Request	US61384
Blanking plate PEEK	To cover unused stations	US61378

Additional Accessories on request:

- Multivalve manifolds
- Flow diagnostics
- Fittings and tubing

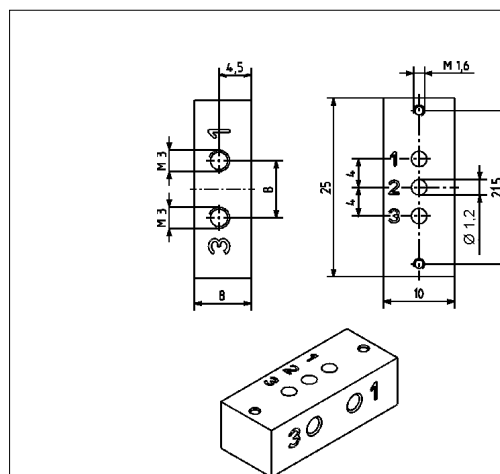
Type 6604

Valve with rectangular plug and mounting clip



All valves with PEEK housing and FFKM seals; rectangular plug versions delivered without plug connectors (see accessories)
All valves delivered with mounting clips with screws M 1.6 x 5

Single Manifold Stainless Steel with M3 Conn.

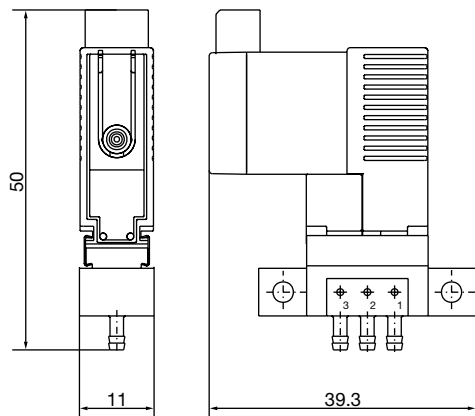
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10mm Micro Flipper Solenoid Valve with Isolating Diaphragm for Analytical Applications

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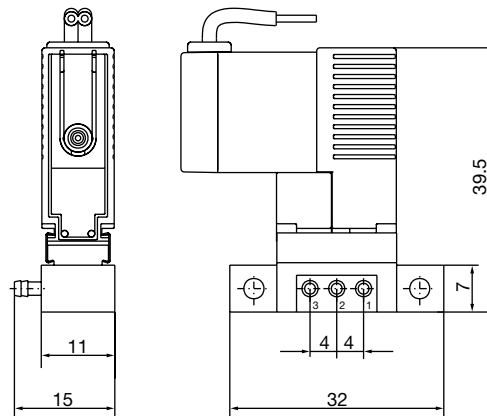
Dimensions [mm] for Valves with Tube Connections (on request)

Valve with rectangular plug and downwards tube connection



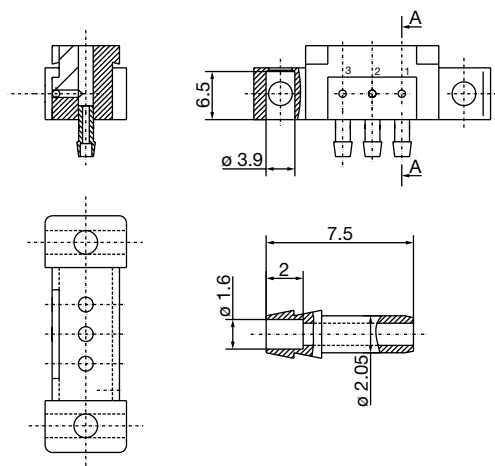
2/2-way valves are being delivered with output 3 closed

Valve with flying leads and sideways tube connection



2/2-way valves are being delivered with output 3 closed

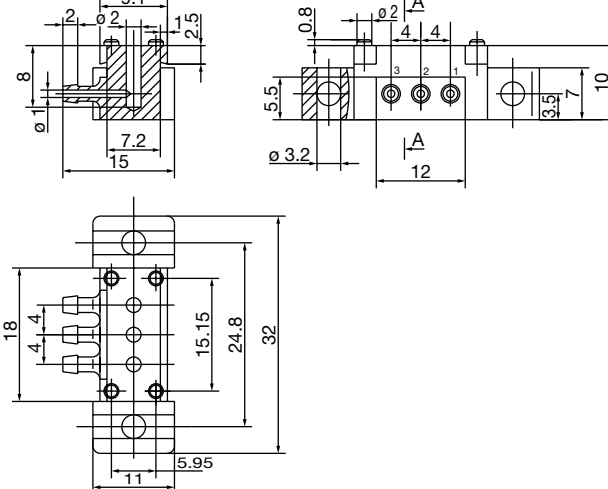
Single Manifold PA with Downwards Tube Conn.



Note:

The tube connection plates are only available as part of a complete valve

Single Manifold PA with Sideways Tube Conn.



Note:

The tube connection plates are only available as part of a complete valve

Rectangular Cable Plug Type 2505

Technical Data

Protection class	IP 20
Operating voltage	24 V
Power consumption	3 W
Operating temperature	32 - 122°F

Ordering¹⁾

Ordering ¹⁾	Item-No.
Cable length 300 mm	644 068 N
Cable length 3 m	133 486 F
Cable length 500 mm	148 578 R

¹⁾ Please order separately (no standard delivery)

