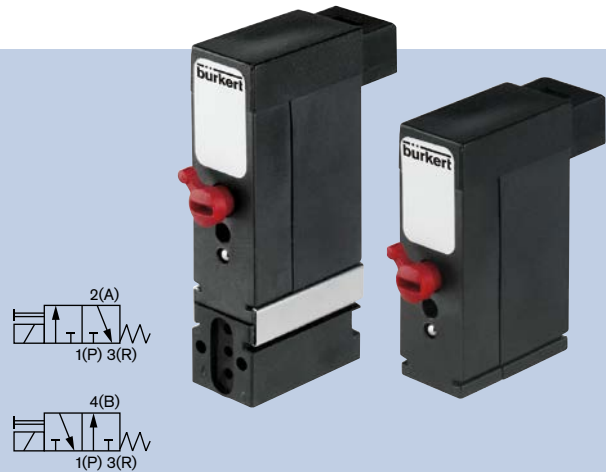


3/2-way Flipper Solenoid Valve for gases and liquids

6144

- Separated medium
- 10 mm width per station
- Direct-acting
- Low power consumption
- Sub-base connection
- With manual override



In addition to its exceptional performance characteristics, the flipper principle of Type 6144 is especially marked by its very low switching noise and its low wear level. Furthermore, integrated medium separation enables use above and beyond pneumatic applications. Depending on the case of operation, various flange connections are available that are suitable for both individual and block mounting.

Installation advice: The valve must have a minimum distance of 5 mm from other ferromagnetic materials in order to avoid malfunctioning during operating conditions.

Technical Data

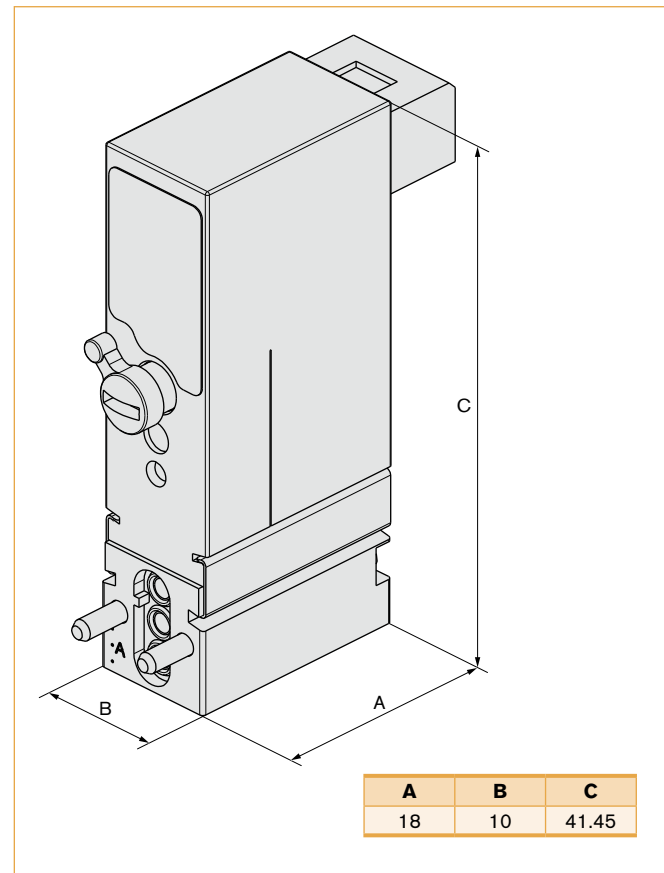
Body material	PPS (Polyphenylensulfide)
Seal material	FKM
Media	Compressed air lubricated, oil-free or dry; neutral gases and liquids (5 µm filtering); technical vacuum
Media temperature	0 °C to +55 °C
Ambient temperature	0 °C to +55 °C
Port connection	<ul style="list-style-type: none"> • Bürkert flange • Lateral flange
Electrical connection	Rectangular plug as standard on request: <ul style="list-style-type: none"> • Circular plug M8x1 • Flying lead 0.2 mm², 300 mm • Blank connector (5.08 mm)
Operating voltage	24 V DC ¹⁾ Further voltages on request
Voltage tolerance	±10% ²⁾
Nominal power	0.8 W
Switching function	Monostable Bistable (impulse) on request
Duty cycle	100% continuous rating
Installation	As required, preferably with actuator upright; 5 mm minimum distance to ferromagnetic materials
Insulation class	3 acc. VDE 0580
Protection class	IP40
Cycling rate	ca. 1000/min
Electrical control	with SPS possible
Response times ³⁾	
Open	ca. 8 ms (Standard)
Close	ca. 10 ms (Standard)

¹⁾ Battery voltage; observe polarity as shown on top of the valve

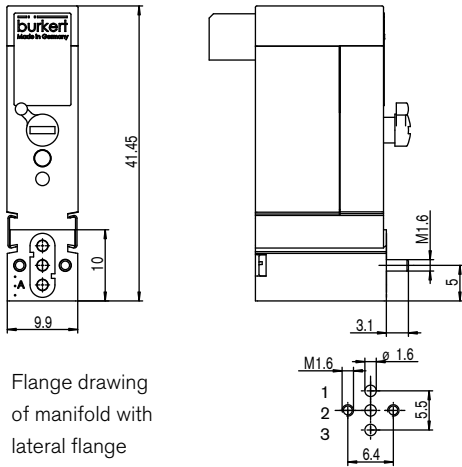
²⁾ Max. residual ripple allowed

³⁾ Measured at valve outlet at 6 bar and +20 °C acc. to DIN ISO 12238
Opening: pressure rise 0 to 10%, closing: pressure drop 100 to 10%

Envelope Dimensions [mm]

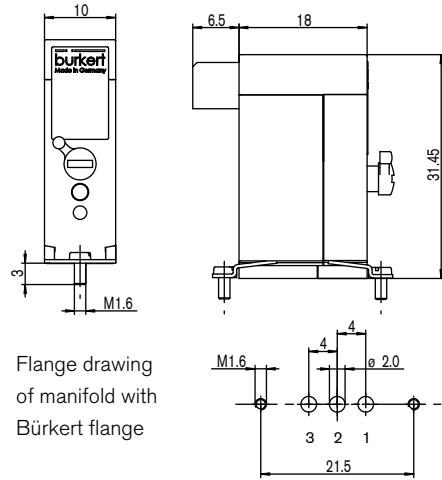


Type 6144 with lateral flange



Flange drawing of manifold with lateral flange

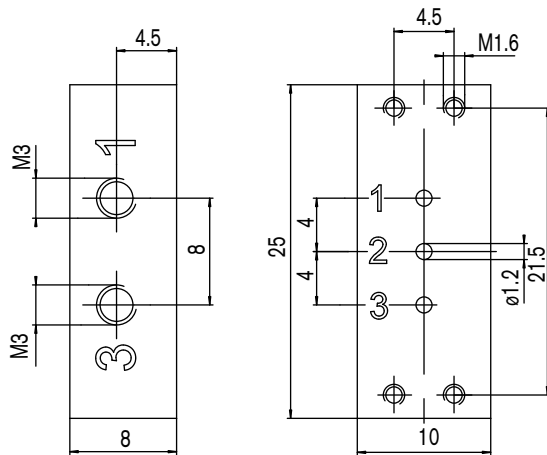
Type 6144 with Bürkert flange



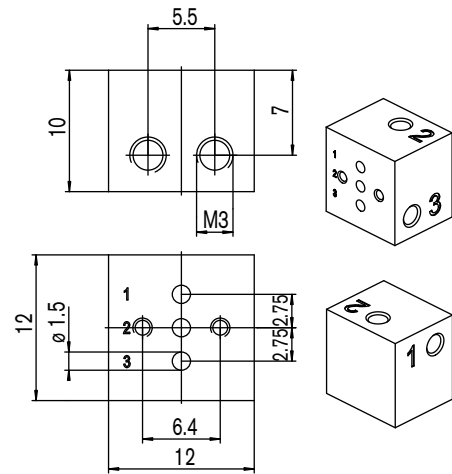
Flange drawing of manifold with Bürkert flange

The valve can optionally be delivered with manual override on the left or right hand side (standard: opposite the electrical connection).

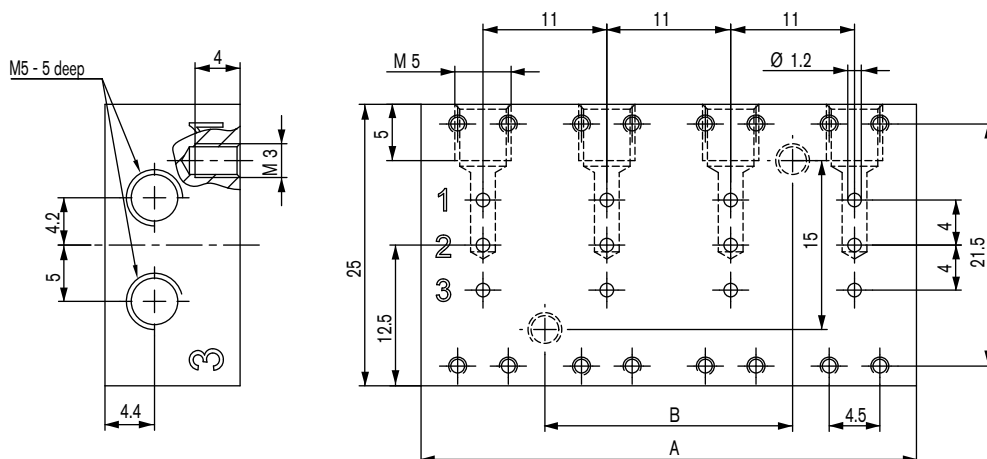
Single manifold for Bürkert flange
Material: Aluminium, M3 threaded



Single manifold for lateral flange
Material: Aluminium, M3 threaded

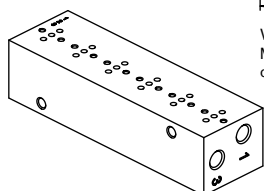
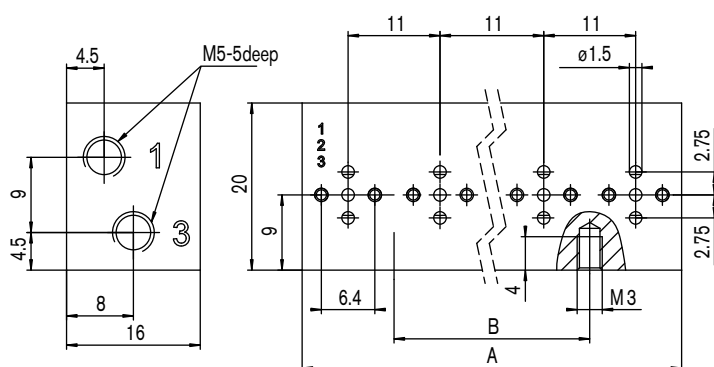


Multiple manifolds for Bürkert flange, Material: Aluminium, M5 threaded



	A	B
2 valves	22	-
4 valves	44	22
6 valves	66	44

Multiple manifolds for lateral flange, Material: Aluminium, M5 threaded



Working ports
M5-5 deep
on plate bottom

	A	B
2 valves	22	-
4 valves	44	22
6 valves	66	44
8 valves	88	66

Ordering Chart

Circuit function	Port connection	Orifice [mm]	Qn value 1-2 air [l/min] ¹⁾	Qn value 2-3 air [l/min] ¹⁾	Pressure range [bar] ²⁾	Manual override	Voltage [V]	Nominal power [W]	Item no.
All valves with rectangular plug, mounting screws and flange seal; without plug connection									
C 3/2-way valve normally closed	Bürkert flange	0.6	7.0	8.5	0 - 10 ³⁾	with	24	0.8	181 367
	lateral flange		6.0	7.5					175 682
D 3/2-way valve normally open	Bürkert flange	0.6	7.0	8.5	0 - 10	with	24	0.8	175 653
	lateral flange		6.0	7.5					179 098

¹⁾ Qn- value air [l/min]: Measurement with +20°C, 6 bar pressure on the valve input and 1 bar pressure differential

²⁾ Pressure values [bar]: Measured as overpressure to the atmospheric pressure

³⁾ Vacuum up to 10 bar on request

Fixing screws for Bürkert flange: M1.6x5, for lateral flange: M1.6x20

Accessories

Unit	Characteristics	Item no.
Manifolds		
Single manifold	for Bürkert flange, M3	639 873
Single manifold	for lateral flange, M3	639 234
Manifold 2-fold	for Bürkert flange, M5	641 911
Manifold 4-fold	for Bürkert flange, M5	641 912
Manifold 6-fold	for Bürkert flange, M5	639 874
Blanking plate kit	for multiple manifolds, Bürkert flange	645 512
Manifold 2 valves	for lateral flange, M5	641 915
Manifold 4 valves	for lateral flange, M5	641 916
Manifold 6 valves	for lateral flange, M5	639 235
Manifold 8 valves	for lateral flange, M5	672 676
Blanking plate set	for multiple manifolds angle flange	645 513
Push-in fitting	Brass, straight, M3, for 4/2 mm tube	782 534
Push-in fitting	Brass, straight, M5, for 4/2 mm tube	787 810
Rectangular cable plug	with 3 m cable	133 486
Rectangular cable plug	with 300 mm flying leads	644 068
Rectangular cable plug	with 2 single contacts	644 067