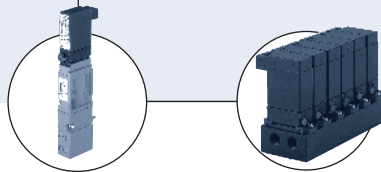


Type 6104 can be combined with...



Type 6524

Servo-assisted
pneumatic valve

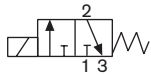
Type 6104

Multiple manifolds
(e.g. 6 valves)

Type 6104 is a 3/2-way rocker solenoid valve with polyamide body. A tilting armature, similar to a rocker, moves in the body. The small tilting motion of the rocker is hard-wearing; basic lubrication is not required.

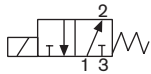
The modular valve can be supplied with various flange connections depending on usage and can be used both individually and in blocks. An intrinsically safe version (EEx ia) is available in addition to the standard model.

Circuit function C






3/2-way valve, direct
acting, de-energized
port 2 exhausted

Circuit function D



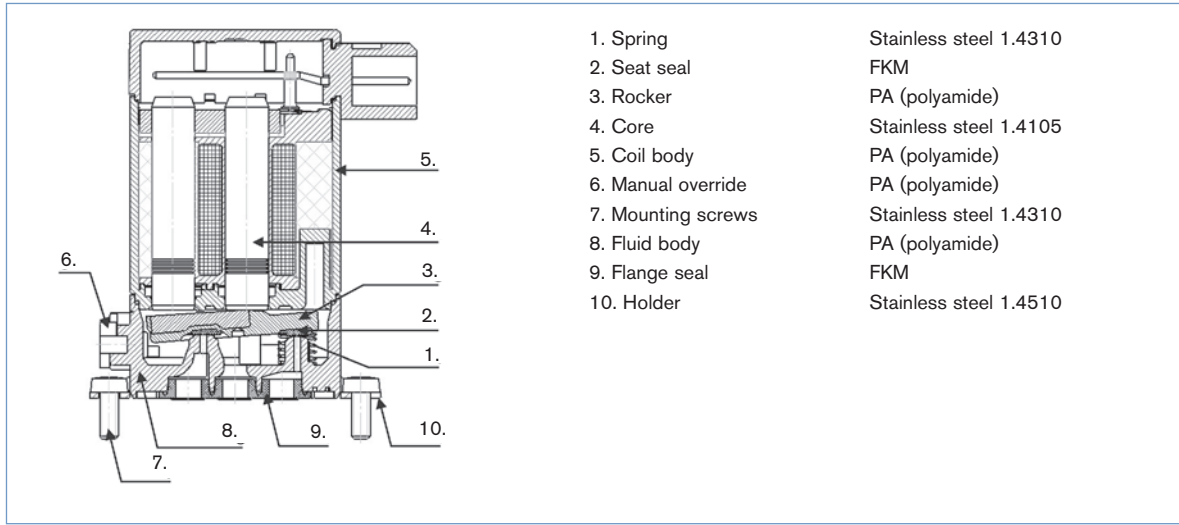
3/2-way valve, direct
acting, de-energized
port 2 pressurized

3/2-way Rocker Solenoid Valve for pneumatic systems

- EEx ia versions
- Direct-acting
- High cycling rate
- Reduced power consumption
- Sub-base connection
- Approvals:   

Technical data	
Body material	PA (polyamide)
Seal material	FKM
Media	Compressed air lubricated, oil-free or dry, neutral gases (5µm filtering) technical vacuum
Media temperature	14°F to 131°F (-10°C to +55°C)
Ambient temperature	14°F to 131°F (-10°C to +55°C)
Port connection	· Bürkert flange · Lateral flange
Electrical connection	Rectangular plug as standard on request: · Circular plug M8x1 · Flying lead 0.2 mm ² , 300 mm · Connector with raster 5.08 mm
Type of protection	Standard version EEx ia version
	none II 2G EEx ia IIC T5 T6 PTB01 ATEX 2173
Operating voltage	24 V/DC 12 V/DC on request
Voltage tolerance	±10%
Nominal power	Standard EEx ia version
	1 W 0.4 W
Duty cycle	100% continuous rating
Installation	As required, preferably with actuator upright
Insulation class	3 acc. VDE 0580
Protection class	IP 40
Cycling rate	ca. 1000/min
Electrical control	with SPS possible
Response times	Measurement at the valve outlet, at 68°F (20°C) and 87 PSI
	Open (Pressure rise 0 to 90%) Close (Pressure rise 100 to 10%)
	ca. 14 ms (Standard) ca. 30 ms (EEx ia version) ca. 18 ms (Standard) ca. 42 ms (EEx ia version)

Materials



Ordering chart standard version

All valves with rectangular plug, mounting screws and flange seal; without plug connection (see Accessories)

Circuit function	Orifice [mm]	Qn value 1-2 air [l/min] ¹⁾	Qn value 2-3 air [l/min] ¹⁾	Pressure range ²⁾ [PSI]	Manual override	Port connection	Voltage [V]	Nominal power [W]	Item no.
C 3/2-way valve NC	0.6	7.0	8.5	0 – 100	yes	Bürkert flange	24	1	457 727
		6.0	7.5	0 – 100	no	lateral flange	24	1	462 875
					yes	lateral flange	24	1	457 728
D 3/2-way valve NO	0.6	7.0	8.5	0 – 100	yes	Bürkert flange	24	1	457 730
		6.0	7.5	0 – 100	no	lateral flange	24	1	462 873
					yes	lateral flange	24	1	457 731

¹⁾ Qn value air [l/min]: measurement with 68°F (+20°C), 87 PSI pressure on the valve input and 14.5 PSI pressure differential

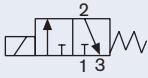
²⁾ Pressure values [PSI]: measured as overpressure to the atmospheric pressure

Mounting screws for **Bürkert flange**: M1.6x5; for **lateral flange**: M1.6x20
 Circuit function A and B on request

Ordering chart Ex ia version

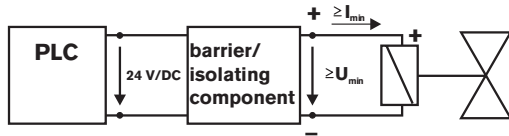
Approval acc. II 2G EEx ia IIC T5 T6 PTB01 ATEX 2173

All valves with rectangular plug, mounting screws and flange seal; without plug connection (see Accessories)

Circuit function	Orifice [mm]	QnN value 1-2 air [l/min]	QnN value 2-3 air [l/min]	Pressure range [PSI]	Manual override	Port connection	Voltage [V]	Nominal power [W]	Item no.
<p>C</p>  <p>3/2-way valve NC</p>	0.4	4.0	5.0	0 - 100	with	Bürkert flange	24	0.4	139 409

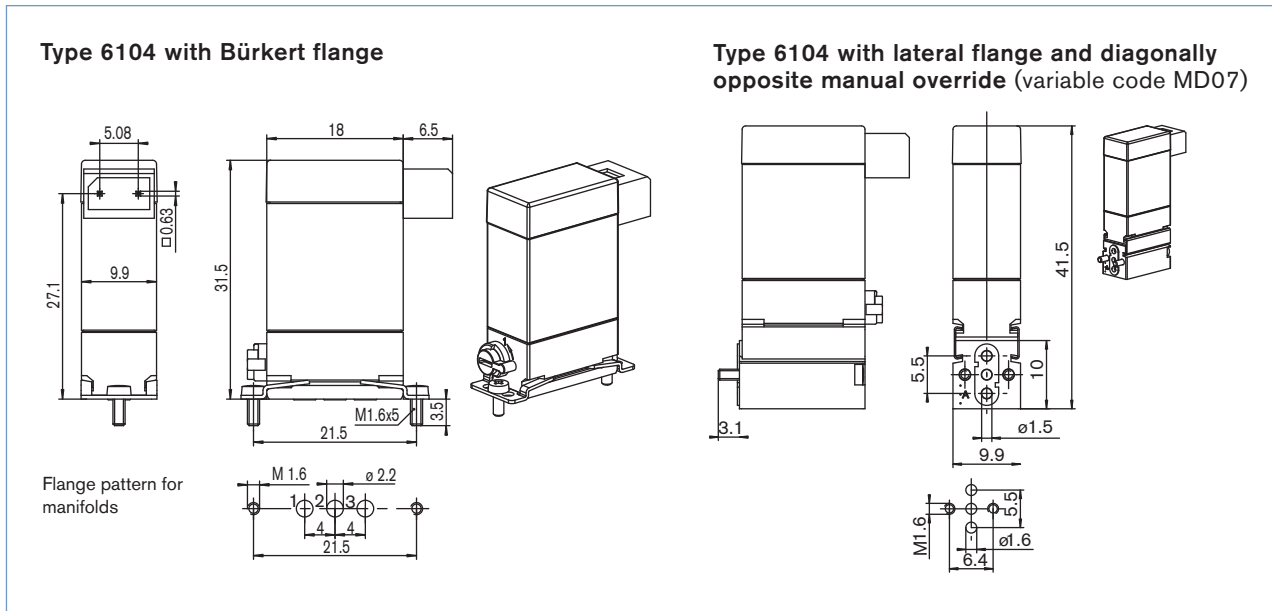
Mounting screws for Bürkert flange: M1.6x5

Electrical datas:



Functional values for valves switching function with 68°F to 131°F (+20°C to +55°C)	Permitted maximum values/value pairs after operating instruction (TS)
Minimum holding current: 29mA Nominal resistant of the coil: 321Ω ±6%	Ui 35V li 0.9A Pi 0.7W (with block assembly, max. 104°F (+40°C)) 0.7W (with single valve, max. 131°F (+55°C)) 0.8W (with single valve, max. 122°F (+50°C))

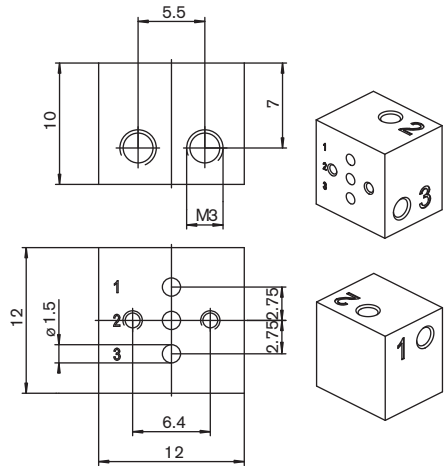
Dimensions [mm]



Dimensions manifolds [mm]

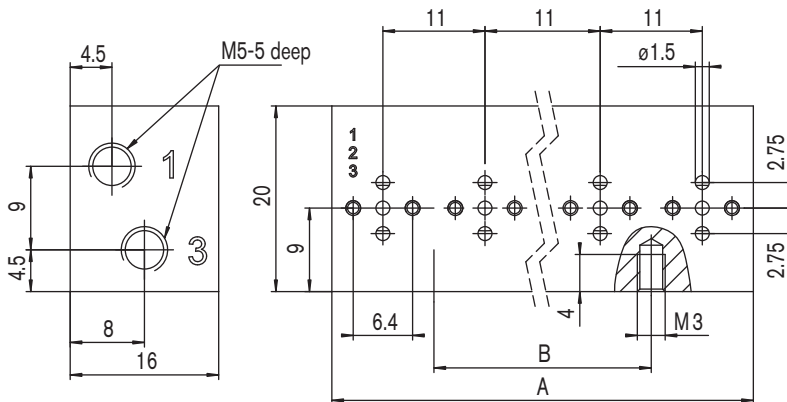
Single manifold for lateral flange sideways

Material: Aluminium

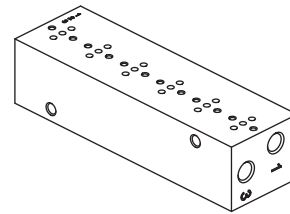


Multiple manifolds for lateral flange

Material: Aluminium



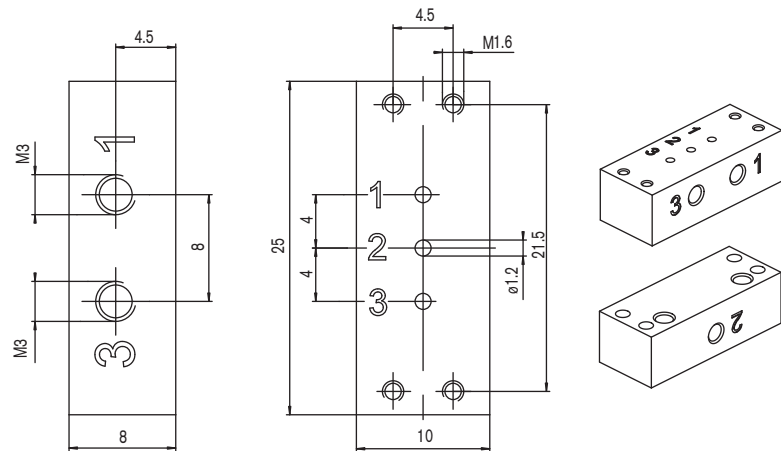
Service ports
M5-5 deep
on the rear side panel



No. of valve modules	A	B
2 valves	22	-
4 valves	44	22
6 valves	66	44

Single manifolds for Bürkert flange

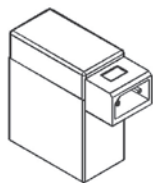
Material: Aluminium



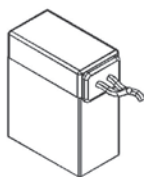
Ordering chart for accessories

Accessory	Characteristics	Item no.
Manifold single	for Bürkert flange under, M3	639 873
Manifold single	for lateral flange, M3	639 234
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
Blanking plate set	for multiple manifolds angle flange	645 513
Threaded tube spigot	straight, M3, for 4/2 mm tube	782 534
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

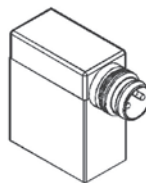
Options for the electrical connection, rectangular plug as standard, other connections on request



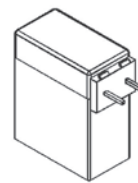
Rectangular plug (standard)
Raster 5.08 mm



2 Flying leads
0.2 mm², 300 mm long



Circular connector
M8x1, 3-pins



Connector
Raster 5.08 mm (e.g. for printed board mounting)