

DN 0,4 mm; 0 -7 bar; sub-base; flow rate: up to 4.5 l/min



Advantages/Benefits

- ▶ EEx-ia-IIC T6 approved
- ▶ Long service life, under absolute non-lube conditions
- ▶ Simple design, robust and frictionless
- ▶ Compact size
- ▶ PLC-compatible; low power and high drop-out voltage

Design/Function

The valve consists of a plastic body, a frictionless rocker armature with spring and a DC coil.

The innovative rocker alternately opens or closes two connections when switched. The de-energized position is spring set.

The simple design ensures that the valves can be switched with a minimal rocker movement combining low wear under absolute non-lube conditions.

The valves can be driven by a PLC with their low power consumption.

A manual override, which can be operated from both sides of the valve allows easy maintenance and commissioning.

Applications

Fluids

- Lubricated, non-lubricated, dry air
- Neutral gases
- For technical vacuum

Applications

- Direct-acting single valve
- Pilot valve
- Actuator control
- Logic control circuits
- Manifold assembly

bürkert
Easy Fluid Control Systems

Technical data

Circuit Functions

- C** 3/2-way valve,
when de-energized, port A
exhausted

Symbol



Specifications

Orifice DN [mm]	Flow QNn-value air ²⁾		Manifold	Pressure range ¹⁾ [bar]	Weight [g]	Electr. power consumption [W]
	[l/min] 1→2	[l/min] 2→3				
0.4	4.5	4.5	Burkert, sub-base, below	0 - 7	13	0.5
0.4	4.5	4.5	Burkert, sub-base, sideways (for MP01)	0 - 7	15	0.5

¹⁾ All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

²⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C.

Valve specifications

Body material	PA (Polyamide)
Seal material	FPM (Viton)
Fluids	lubricated and unlubricated dry air, neutral gases, (5-µm-filter recommended) for technical vacuum
Ambient temp.	-10 up to +55 °C
Fluid temp.	-10 up to +55 °C
Port connection	<ul style="list-style-type: none"> • BURKERT sub-base (below) • BURKERT sub-base (sideways) for module MP01

Response times³⁾

Opening	30 ms
Closing	42 ms

³⁾ The response times of a 3/2-way valve are determined using an end volume of approx. 1 cm³. The times are measured at outlet A from switching on until pressure rise to 90% /pressure drops to 10%.
Delay time: Time from electrical switch on until the beginning of the pressure change.

Installation

Installation	as required, but preferably with solenoid system upright
Manifolding	with common supply max. 12 valves on special manifolds (as accessory)
Coil spacing	11 mm

Solenoid specifications

Nominal voltages	24 V DC
Voltage tolerance	±10 %
Power consumption	0.5 W
Electr. control	PLC-controllable
Cycling rate	1000 c.p.m.
Duty cycle	100% continuously rated
Rating	IP 40 with rectangular plug
Type of protection	EEx i IIC T6
Electr. connection Standard:	(see drawing) rectangular plug

Electrical specifications

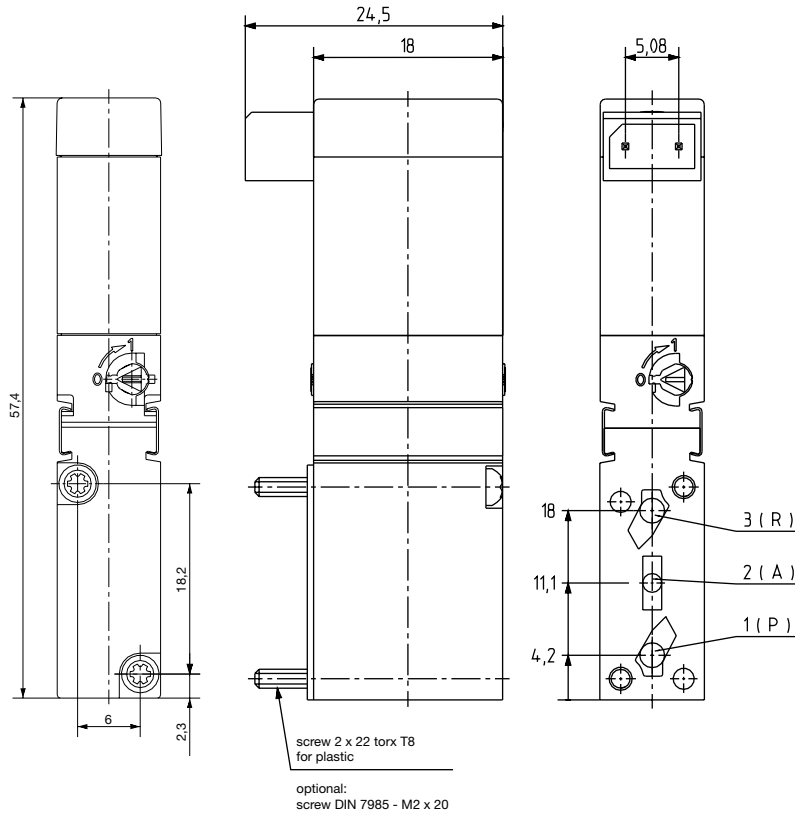
Power supply only from certified intrinsically safe circuits with following max. values:

Explosion group	IIC
Max. safety voltage	U = 28 V
Max. safety current	I = 115 mA
Consumption of energy for block mounting	P = 0.7 W (ambient temp. +40 °C)
Consumption of energy for single mounting	P = 0.7 W (ambient temp. +55 °C) P = 0.8 W (ambient temp. +50 °C)

Dimensions [mm]

Module sub-base (side) for MP01

Dimensions MP01-modules
please see data sheet type 6510/11



BURKERT sub-base (below)

