3/2-Way Miniature Solenoid Valve, Direct-acting

Type 300

G 1/8, M5

Advantages/Benefits

- **Body materials: brass, stainless steel**
- **Short response times**
- **Compact design**
- **When de-energized, outlet port exhausted or pressurized, mixer valve**

Design/Function

Type 300 is available in a variety of different circuit functions, to suit the respective application.

When energized, the solenoid armature is drawn against a spring.

The flow path through the valve is dependent upon the chosen circuit function. The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

Applications

- Neutral gases and liquids
- Pneumatic control equipment
- Vacuum
- Shut-off, dosing, filling and ventilating
- Gas control, welding technology
- Small-scale instruments, laboratory and measuring technology

bürkert
Easy Fluid Control Systems

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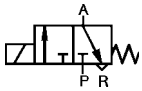
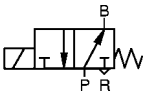
Technical Data

Circuit Function

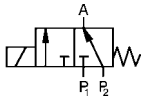
C 3/2-way valve, when de-energized, outlet A exhausted



D 3/2-way valve, when de-energized, outlet B pressurized



E Mixer valve, when de-energized pressure port P2 open, P1 closed



Body Material

Body and seat of brass
Stainless steel 1.4305

Specifications

Orifice DN	Kv-Value Water	QNn-Value Air [1]	Pressure Range [2] at Circuit Function		Weight	
			D, C	E	M 5	G 1/8
[mm]	[m³/h]	[l/min]	[bar]	[bar]	[kg]	
1,2	0,045	48	0-10		0,10	0,12
1,6	0,060	65	0- 6	0-3	0,10	0,12

[1] Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C., [2] Also suitable for vacuum.

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

Operating Data (Valve)

Seal Materials/Fluids Handled/Temp.- Range

NBR Neutral fluids, e.g. compressed air, town gas, water, hydraulic oil, oils and fat without additives -10 to +90 °C

EPDM Oils and fat-free fluids, e.g. hot water alkaline washing and bleaching lyes -40 to +90 °C

FPM Hot air, oxygen, per-solutions, hot oils oils with additves -10 to +100 °C

For more detailed information please refer to resistance chart (Leaflet-No. 1896009).

Max. ambient temperature + 55 °C

Max. viscosity 21 mm²/s

Response times opening 12 ms
closing 8 ms

Times measured at outlet A or B from switching on until pressure rise to 90 % / pressure drops to 10 % at a max. working pressure of 6 bar.

Port connection M5, G 1/8

Operating Data (Actuator)

Operating voltages 24, 110, 240 V/50 Hz
12, 24 V/=
24 V battery voltage

Voltage tolerance ±10 %

Power consumption AC 9 VA (inrush)
6 VA/ 4 W (hold)
DC 4 W

Duty cycle 100% continuously rated, for multiple assembly reduced duty cycle or use 2W version on request

Cycling rate up to 1000 c.p.m

Rating with cable plug and cable IP65

Installation / Accessories

Installation as required, but preferably with solenoid system upright

Electrical connection
- plug connection without cable plug (supplied as standard)
- moulded-in cable on request
- moulded-in flying leads on request

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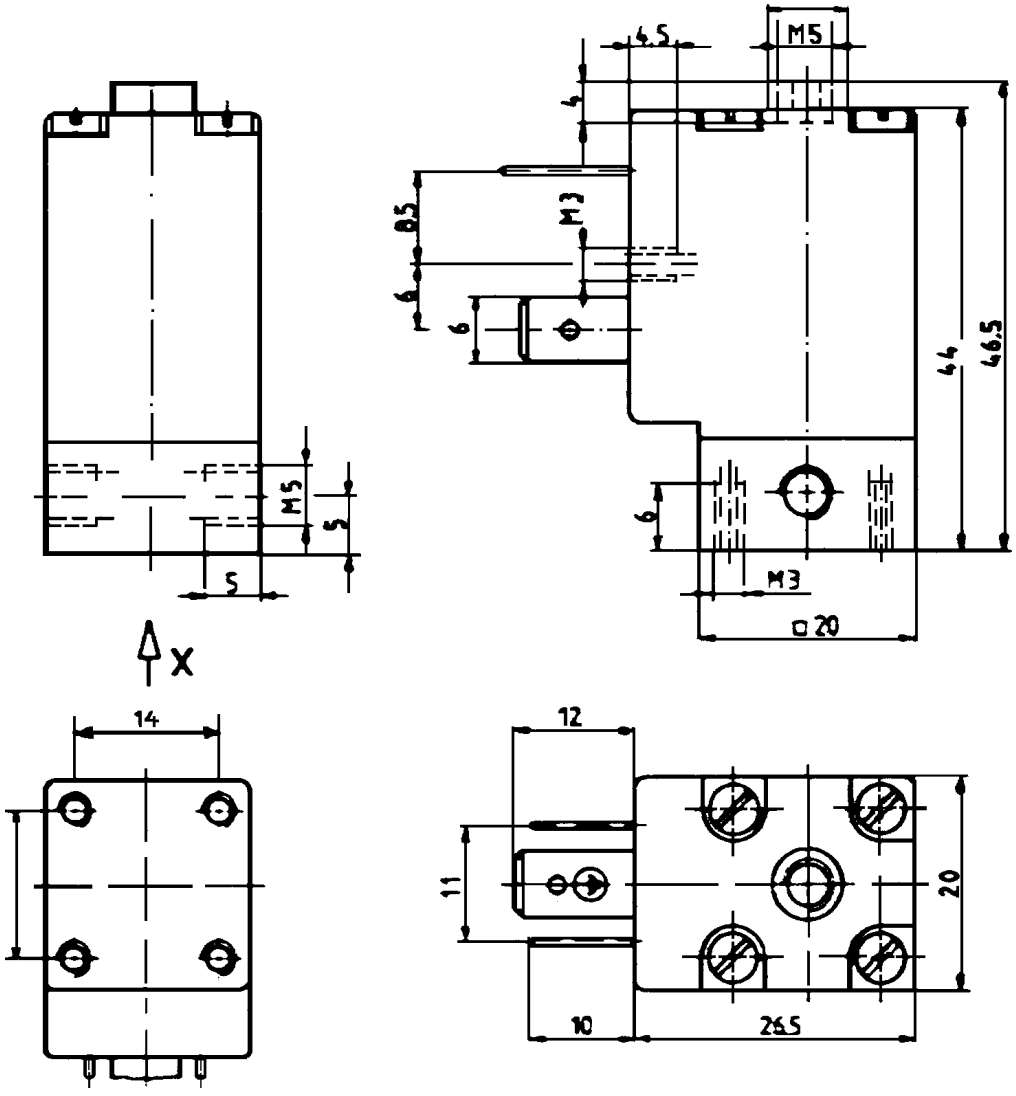
Dimensions in mm



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