

Direct-acting, Sub-base



Advantages/Benefits

- ▶ Normally closed
- ▶ Body material: brass
- ▶ Short response times
- ▶ Compact design

Design/Function

Type 201 is a normally-closed direct-acting plunger-type solenoid valve.

When energized, the solenoid armature is drawn in against a spring to open the valve. The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

Applications

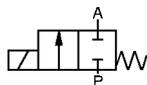
- Neutral gases and liquids
- Pneumatic control
- Vacuum
- Shut-off, dosing, filling and ventilating
- Small scale devices, laboratory and measuring technology
- Gas control, welding technology

burkert
Easy Fluid Control Systems

Technical Data

Circuit Function

A 2/2-way valve,
normally closed



Body Material

Body and seat of brass
Stainless steel
Valve internals 1.4105, 1.4571

Specifications

Orifice DN [mm]	Kv-Value Water [m ³ /h]	QNm-Value Air ¹⁾ [l/min]	Pressure Range ²⁾ 4 Watt		2 Watt DC	Weight [kg]
			AC [bar]	DC		
1,2	0,045	48	0-21	0-12	-	0,09
1,6	0,06	65	0-12	0- 6	-	0,09
2,0	0,11	120	0- 8	0- 4,5	0-0,8	0,09
2,4	0,13	140	0- 6	0- 3	-	0,09

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 -10 to + 90 °C

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

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

Max. ambient temperature +55 °C

Max. viscosity approx. 21 mm²/s

Response times opening 5 - 18 ms
closing approx. 8 ms

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

Port connection sub-base

Operating Data (Actuator)

Operating voltages AC 24, 230, 240 V/50 Hz
DC 12, 24 V/=

Voltage tolerance ± 10%

Power consumption AC 9 VA (inrush),
6 VA/4 W (hold)
DC 4 W or 2 W depending
on version

Duty cycle 100 % continuously rated,
reduced for manifold
mounting or use 2 W version

Cycling rate approx. 1000 c.p.m.

Classification with plug
or cable IP 65

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
- 2 or 3 moulded-in flying leads on request

