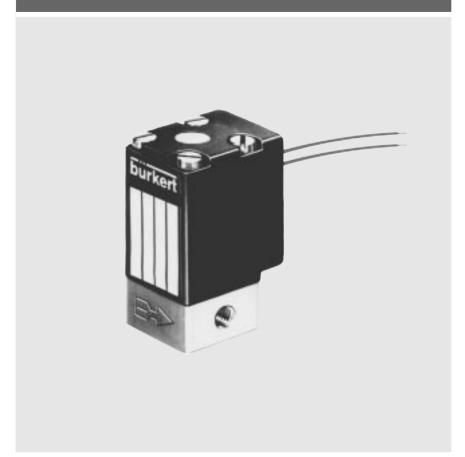
2/2-Way, Direct-acting, G1/8



Advantages/Benefits

- ► FPM or EPDM Separating diaphragm isolates solenoid system from operating fluid
- Compact design
- ➤ Specific testing and cleaning available
- ► Short response time
- ► Electrical connection: DIN-plug or leads
- ▶ Body material: Stainless steel

Design/Function

Type 200 is a direct-acting plungertype solenoid valve normally closed by spring action (circuit function A).

A diaphragm isolates the fluid from the solenoid system.

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

The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

Specific testing and cleaning and low power versions are available according to application requirements.

Applications

- Laboratory instruments
- Small-scale instrument
- · Gas control instruments
- Shut-off, dosing, filling, ventilating
- · Welding technology
- Difficult and slightly aggressive media



Miniature Solenoid Valve with Isolating Diaphragm for Analytical Applications

Technical Data

Circuit Function

A 2/2-way valve, normally closed



Operating Data (Valve)

Pressure range max. 0-2 bar (see specifications)

Port connection Threaded port G 1/8"

(M5, subbase on request)

Orifice DN 1.2 - 2.4 mm

>DN 2.4 mm on request.

Difficult and slightly

Fluid aggressive media.

21 mm²/s

Suitable for techn. vacuum.

Medium temperature max. -10 to +70 °C Max. ambient temperature +55 °C

Max. viscosity

Response times

opening 5-18 ms closing ca. 8 ms

Installation as required, but preferably

with solenoid system upright

Operating Data (Actuator)

Operating voltages AC 24, 110, 230 V/50 Hz,

DC 12, 24 V/=

±10 % Voltage tolerance

Power consumption AC inrush | AC hold | DC

6 VA/4 W 4 W¹⁾

1) Power consumption DC 2 W on request

Duty cycle

Duty cycle for multiple

manifolds

100% continuously rated 60% for manifold mounting

(30 min) or use 2W-version

(on request)

Cycling rate up to 1000 c.p.m.

Protection class with

cable plug

IP 65

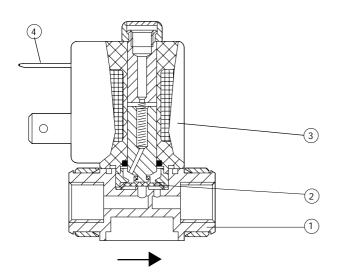
Electr. connection Delivery standard:

Cable plug DIN 43 650 B,

0-250 V.

Flying leads 300 mm length

Materials



Valve body: 2 Isolating diaphragm:

Coil body:

Cable plug:

3

Stainless steel FPM (Viton), EPDM

Ероху

PA (Polyamide)

Miniature Solenoid Valve with Isolating Diaphragm for Analytical Applications

Specifications - Ordering Chart (Other Versions on Request)



Stainless steel valve body, cable plug DIN 43 650 form B

Port	Orifice	Kv-Value	Pressure	Range ¹⁾	Seal	Weight	ITEM-No.			
connection		(water)	(AC)	(DC)	material		Voltage / Frequency [V/Hz]			
	[mm]	[m³/h]	[bar]	[bar]		[kg]	12/DC	24/DC	110/50	230/50
G 1/8	1.2	0.045	0-2.0	0-2.0	EPDM	0.12	136 445 Q	136 447 J		
G 1/8	1.2	0.045	0-2.0	0-2.0	FPM	0.12	136 464 K	136 466 M		
G 1/8	1.6	0.06	0-1.5	0-1.5	EPDM	0.10	136 449 U	045 956 Y	136 460 T	136 461 Q
G 1/8	1.6	0.06	0-1.5	0-1.5	FPM	0.10	136 468 X	136 470 V	136 480 Q	136 481 D
G 1/8	2.0	0.11	0-1.0	0-1.0	EPDM	0.12	136 452 P	136 454 R	136 462 R	136 463 J
G 1/8	2.0	0.11	0-1.0	0-1.0	FPM	0.12	136 472 K	136 474 M	136 482 E	136 483 F
G 1/8	2.4	0.13	0-1.0	0-1.0	EPDM	0.09	136 456 K	136 458 V		
G 1/8	2.4	0.13	0-1.0	0-1.0	FPM	0.09	136 476 P	136 478 Z		

¹⁾ Pressure range against arrow direction = 0-0.3 bar

Stainless steel valve body, coil with two flying leads, 300 mm length

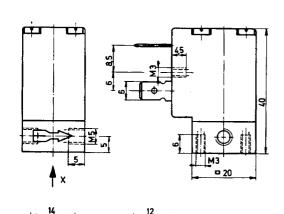
			J .			, ,	•	9		
Port	Orifice	Kv-Value	Pressure	Range ¹⁾	Seal	Weight	I T E M - No.			
connection		(water)	(AC)	(DC)	material		Voltage / Frequency [V/Hz]]
	[mm]	[m ³ /h]	[bar]	[bar]		[kg]	12/DC	24/DC	110/50	230/50
G 1/8	1.2	0.045	0-2.0	0-2.0	EPDM	0.12	136 446 R	136 448 T		
G 1/8	1.2	0.045	0-2.0	0-2.0	FPM	0.12	136 465 L	136 467 N		
G 1/8	1.6	0.06	0-1.5	0-1.5	EPDM	0.10	136 450 Z	136 451 N		
G 1/8	1.6	0.06	0-1.5	0-1.5	FPM	0.10	136 469 Y	136 471 J		
G 1/8	2.0	0.11	0-1.0	0-1.0	EPDM	0.12	136 453 Q	136 455 J		
G 1/8	2.0	0.11	0-1.0	0-1.0	FPM	0.12	136 473 L	136 475 N		
G 1/8	2.4	0.13	0-1.0	0-1.0	EPDM	0.09	136 457 L	136 459 W		
G 1/8	2.4	0.13	0-1.0	0-1.0	FPM	0.09	136 477 Q	136 479 S		

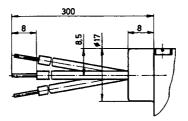
¹⁾ Pressure range against arrow direction = 0-0.3 bar

Options

- PTFE/EPDM diaphragm
- Sub-base versions for manifold mounting
- Specific clean and testing
- AC coils
- DN 1.2 mm (up to 2 bar)

Dimensions Solenoid Valve [mm]





Please note for G 1/8 port connection:

Body length 25 mm, overall height 48 mm, M5 connection is retained at R port

Technical Data Cable Plug

Body material
Contact material
Cable outlet
Isolation between
cable plug and coil
Temperature range
Cable diameter
Electr. connection

Poles Nominal voltage Isolation group

Rating

Max. continuous current Contact resistance

Options

PA (polyamide) brass, tinned vertically to the plug bottom

gasket (NBR) -30°C ... +90°C 4.5 ... 7 mm terminal screws max. 1,5 mm²

2pole + protective earth 0–250 V (Standard)

3 IP 65

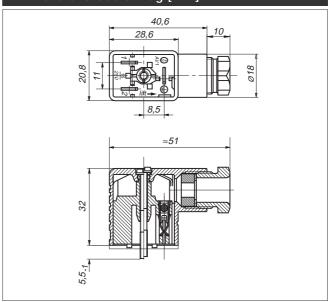
16 A without wiring

 \leq 4 m Ω

LED display Rectifier Varistor



Dimensions Cable Plug [mm]



Wiring Diagrams/Connection Specifications

