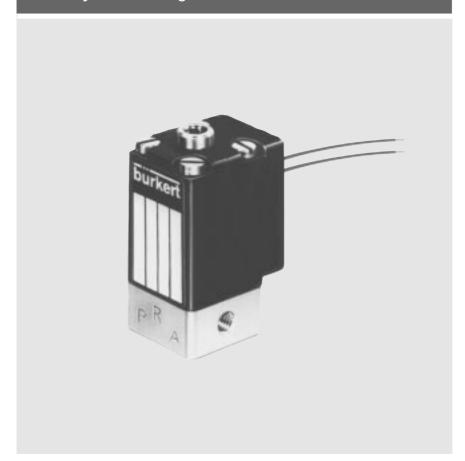
3/2-Way, direct acting, G 1/8



Advantages/Benefits

- ▶ Compact design
- ► Specific testing and cleaning available
- ► Short response times
- ► Electrical connection: DIN-plug or leads
- ► Manual override
- When de-energized, outlet port exhausted or pressurized, mixer valve
- ► Body materials: brass (stainless steel on request)

Design/Function

Type 300 is a direct-acting plunger-type solenoid valve available in a variety of different circuit functions, to suit the respective application.

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

The valve is available in brass (stainless steel on request).
Electrical connections are DIN-plug ore leads.
Specific testing and cleaning and low power versions are available on request.

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



Technical Data

Circuit Function

C 3/2-way valve, when de-energized, outlet A exhausted (normally closed)



D 3/2-way valve, when de-energized, outlet B pressurized (normally open)



Operating Data (Valve)

0-10 bar (see specifications) Pressure range max.

Port connection Threaded port G 1/8",

Subbase on request.

Orifice DN 1.2 - 1.6 mm

>DN 1.6 mm on request.

Neutral gases and liquids,

e.g. compressed air, town gas, natural gas, water, hydraulic oil, petrol. Stainless steel version: Slightly aggressive media.

Suitable for techn. vacuum.

-10 to +100 °C

+55 °C

21 mm²/s

Medium temperature

Max. ambient temperature Max. viscosity

Response times

Fluid

12 ms opening closing 8 ms

Installation as required, but preferably

with solenoid system upright

Operating Data (Actuator)

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

DC 24 V/=

±10 % Voltage tolerance

Power consumption AC inrush AC hold | DC

9 VA 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

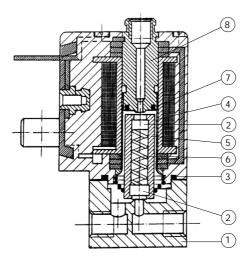
IP 65

Electr. connection Delivery standard:

Cable plug DIN 43 650 B,

0-250 V. Flying leads

Materials



Valve body: Brass

(Stainless steel on request)

Plunger-seal: FKM 3 O-rings: FKM

4 Armature guide tube: S.Steel 1.4303 5 Plunger: S.Steel 1.4105 6 Spring: S.Steel 1.4310

Shading ring: Cu (brass version) Stopper: 1.4105

Specifications - Ordering Chart (Other Versions on Request)



Valve body brass, manual override standard, cable plug DIN 43 650 form B

Port	Orifice	Kv-Value	QNn	Pressur	Pressure Range		Weight		ITEM-No.		
connection		(water)	(air)	(AC)	(AC) (DC)			Voltage / Frequency [V/Hz]		/ [V/Hz]	
	[mm]	[m ³ /h]	[l/min]	[bar]	[bar]		[kg]	24/DC	110/50	230/50	
G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	136 496 C	136 497 D	136 498 N	
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	136 499 P	136 500 U	136 501 R	

Valve body brass, without manual override, cable plug DIN 43 650 form B

G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	136 508 Y	136 509 Z	136 510 M
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	136 511 A	136 512 B	136 513 C

Valve body brass, manual override standard, coil with two flying leads

G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	136 502 J	
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	136 505 M	

Valve body brass, without manual override, coil with two flying leads

	•	•				-		, ,	
G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	136 514 D	
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	136 517 G	

Valve body brass, manual override standard, coil with three flying leads

G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	 136 503 K	136 504 L
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	 136 506 N	146 507 P

Valve body brass, without manual override, coil with three flying leads

G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	 136 515 E	136 516 F
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	 136 518 R	136 519 J



Valve body brass, without manual override, cable plug DIN 43 650 form B

Port	Orifice	Kv-Value	QNn	Pressur	Pressure Range		Weight		ITEM - No.	
connection		(water)	(air)	(AC)	(DC)	material		Voltage / Frequency [V/Hz]		(V/Hz]
	[mm]	[m ³ /h]	[l/min]	[bar]	[bar]		[kg]	24/DC	110/50	230/50
G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	136 484 G	136 485 H	136 486 A
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	136 487 B	136 488 L	136 489 M

Valve body brass, without manual override, coil with two flying leads

	_								
G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	136 490 J	
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	136 493 H	

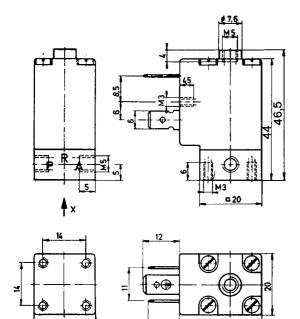
Valve body brass, without manual override, coil with three flying leads

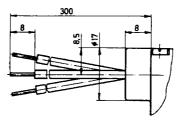
G 1/8	1.2	0.045	48	0-10	0-10	FKM	0.12	 136 491 F	136 492 G
G 1/8	1.6	0.060	65	0- 6	0- 6	FKM	0.12	 136 494 A	136 495 B

Options

- 2W-version
- · Stainless steel body
- Specific testing and cleaning
- Manual override

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

Contact resista

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

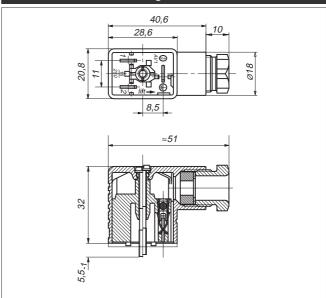
16 A without wiring

 \leq 4 m Ω

LED display Rectifier Varistor



Dimensions Cable Plug [mm]



Wiring Diagrams/Connection Specifications

