

3/2-way; G 1/4, Universal function



Advantages / Benefits

- ▶ Universal function
- ▶ Separating diaphragm isolates solenoid system from operating fluid
- ▶ Low inventory levels
- ▶ Operational reliability
- ▶ Long service life, even in non-lube conditions
- ▶ Insensitive to contaminated fluids
- ▶ Lockable manual override standard
- ▶ With electrical feedback signaller (optional)

Design

The direct-acting 3-way solenoid valve has a pivoted armature as the switching method.

This unique valve design hermetically isolates the actuator from the fluid. Making it less sensitive to contaminated fluids than a plunger-type system and provides a long service life, even in unlubricated applications.

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

- Direct-acting
- Body materials:
brass or stainless steel
- Fast-acting
- Insensitive to abrasive,
slightly contaminated fluids

Applications

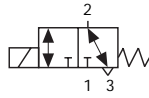
Neutral gases and liquids
 Aggressive fluids
 Demineralised water
 Vacuum
 Unlubricated compressed air
 Water and gas analysis
 Dryer systems
 Pharmaceutical industry
 Food processing
 Steam traps
 Pilot valve for process valves

bürkert
Easy Fluid Control Systems

Technical Data

Circuit Function

T 3/2-way valve,
(Universal function)



Body Material

Body and seat brass or stainless steel 1.4401

Specifications

Orifice DN [mm]	Kv-Value ¹⁾ Water [m ³ /h]	QNm-Value ¹⁾ Air ²⁾ [l/min]	Pressure Range [bar]	Pressure Range Vacuum version [bar]	Weight [kg]
2	0,11	120	0 - 12		0,40
3	0,16	175	0 - 8		0,40
4	0,22	240	0 - 4	0 - 3	0,40

¹⁾ Flow rate reduced by 20 % with direct current operation, ²⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C,

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 fats without additives
0 to +90 °C

EPDM Oils and fat-free fluids, e.g. hot water alkaline washing and bleaching lyes
-30 to +90 °C

FPM Hot air, oxygen, per-solutions, hot oils with additives
-10 to +90 °C

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

Max. ambient temperature +55 °C

Max. viscosity 37 mm²/s

Response times opening AC: 8-15 ms, DC: 10-20 ms
closing AC: 8-15 ms, DC: 10-20 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.

Operating Data (Actuator)

Operating voltages 24, 110, 220, 240 V/50 Hz, 24 V/= (other voltages on request)

Voltage tolerance ±10 %

Power consumption AC 30 VA (inrush), 5 VA/8 W (hold)
DC 8 W

Duty cycle 100% continuously rated

Cycling rate approx. 1000 c.p.m.

Rating with cable plug IP 65

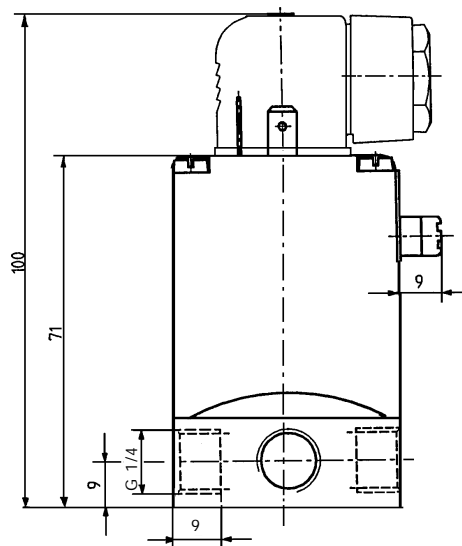
Installation / Accessories

Installation as required, but preferably with solenoid system upright

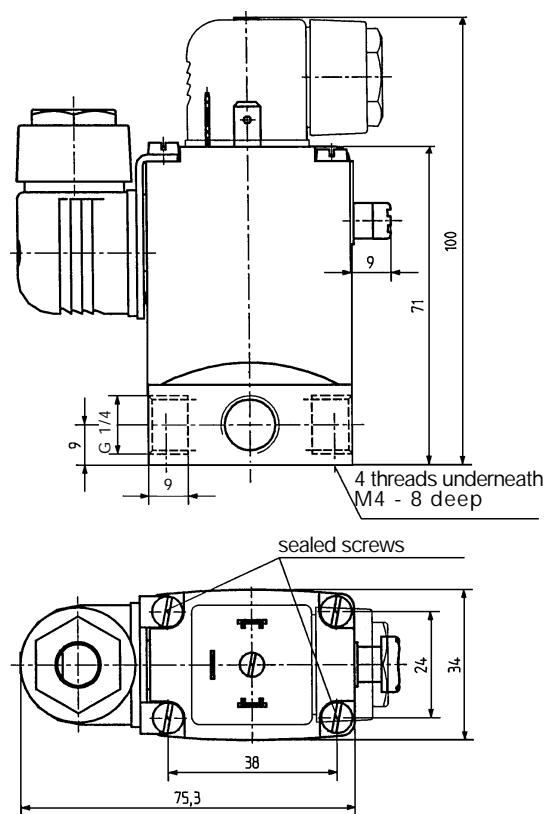
Electr. connection cable plug for 7 mm ø (supplied as standard)

Dimensions in mm

Standard version



Valve with electrical feedback
signaller Type 1060
(on request)



Ordering Chart (Other Versions on Request)

Circuit Function	Orifice DN [mm]	Flow Rate		Port Connection (ISO 228)	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.	
		Water Kv-Value [m ³ /h]	Air ¹⁾ QNn [l/min]								
T	2,0	0,09	96	G 1/4	0-12	Brass	FPM	0,40	24/=	124 922 A	
		0,11	120	G 1/4	0-12	Brass	FPM	0,40	24/50	124 923 B	
		0,11	120	G 1/4	0-12	Brass	FPM	0,40	110/50	124 924 C	
		0,11	120	G 1/4	0-12	Brass	FPM	0,40	230/50	124 925 D	
		0,11	120	G 1/4	0-12	Brass	FPM	0,40	240/50	124 926 E	
		0,09	96	G 1/4	0-12	Stainless	FPM	0,40	24/=	124 932 C	
			0,11	120	G 1/4	0-12	Stainless	FPM	0,40	24/50	124 933 D
			0,11	120	G 1/4	0-12	Stainless	FPM	0,40	110/50	124 934 E
			0,11	120	G 1/4	0-12	Stainless	FPM	0,40	230/50	124 935 F
			0,11	120	G 1/4	0-12	Stainless	FPM	0,40	240/50	124 936 G
		3,0	0,12	130	G 1/4	0- 8	Brass	FPM	0,40	24/=	124 927 F
			0,16	175	G 1/4	0- 8	Brass	FPM	0,40	24/50	124 928 Q
			0,16	175	G 1/4	0- 8	Brass	FPM	0,40	110/50	124 929 R
			0,16	175	G 1/4	0- 8	Brass	FPM	0,40	230/50	124 930 N
			0,16	175	G 1/4	0- 8	Brass	FPM	0,40	240/50	124 931 B
			0,12	130	G 1/4	0- 8	Stainless	FPM	0,40	24/=	124 937 H
	0,16		175	G 1/4	0- 8	Stainless	FPM	0,40	24/50	124 938 J	
	0,16		175	G 1/4	0- 8	Stainless	FPM	0,40	110/50	124 939 K	
		0,16	175	G 1/4	0- 8	Stainless	FPM	0,40	230/50	124 940 Y	
		0,16	175	G 1/4	0- 8	Stainless	FPM	0,40	240/50	124 941 M	

Vacuum Version

Circuit Function	Orifice DN [mm]	Flow Rate		Port Connection (ISO 228)	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.
		Water Kv-Value [m ³ /h]	Air ¹⁾ QNn [l/min]							
T	4,0	0,17	185	G 1/4	0- 3	Brass	NBR	0,40	24/=	124 942 N
		0,22	240	G 1/4	0- 3	Brass	NBR	0,40	24/50	124 943 P
		0,22	240	G 1/4	0- 3	Brass	NBR	0,40	110/50	124 944 Q
		0,22	240	G 1/4	0- 3	Brass	NBR	0,40	230/50	124 945 R
		0,22	240	G 1/4	0- 3	Brass	NBR	0,40	240/50	124 946 J