2/2-way; G 1/4

Advantages / Benefits

- **Separating diaphragm isolates solenoid system from operating fluid**
- **Operational reliability**
- **Long service life, even in non-lube conditions**
- **Insensitive to contaminated fluids**
- **Back-pressure tight**
- **Lockable manual override standard**
- **With electrical feedback signaller (optional)**

Design

The direct-acting 2-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

Aggressive fluids

Water and gas analysis

Demineralised water

Vacuum

Steam traps

Unlubricated compressed air

Pilot valve for process valves

Neutral gases and liquids

Dryer systems

Pharmaceutical industry

Food processing

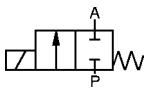
bürkert
Easy Fluid Control Systems

Solenoid Valve with Isolating Diaphragm **Type 330**

Technical Data

Circuit Function

A 2/2-way valve,
normally closed



B 2/2-way valve,
normally open (on request)

Body Material
Body and seat brass or stainless steel 1.4401

Specifications

Orifice	Kv-Value [1]	QNn-Value [1]	Pressure Range	Weight
DN	Water	Air [2]		
[mm]	[m^3/h]	[l/min]	[bar]	[kg]
3	0,23	250	0 - 10	0,40
4	0,28	300	0 - 5	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, [3] 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 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 mm^2/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 voltage 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

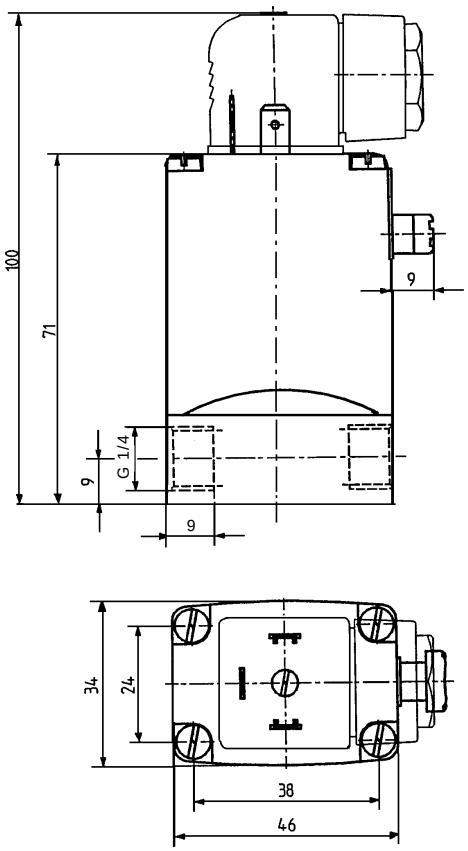
Installation / Accessories

Installation as required, but preferably with solenoid system upright

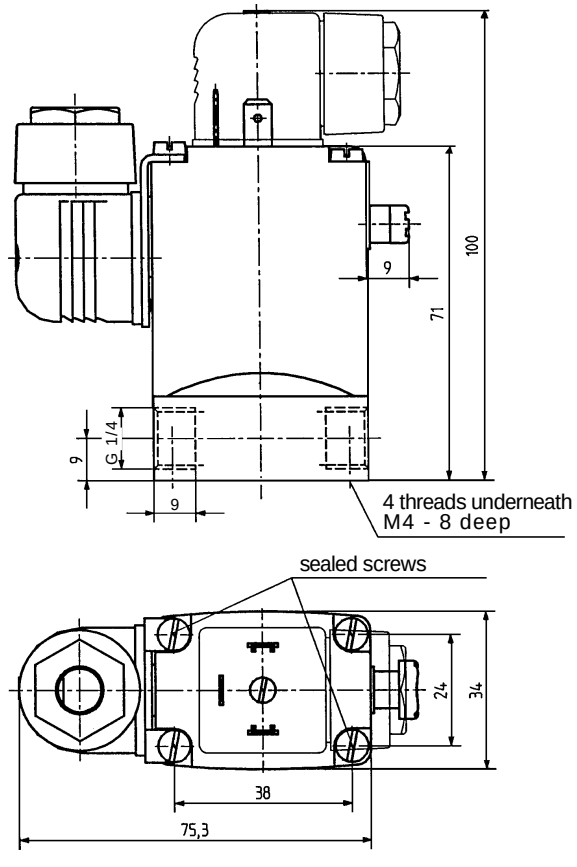
Electr. connection cable plug for 7 mm ø (supplied as standard)

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 Water Kv-Value [m³/h]	Flow Rate Air [1] QNn [l/min]	Port Connection (ISO 228)	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.
A	3,0	0,18	200	G 1/4	0-10	Brass	FPM	0,40	24/=	020 293 T
		0,23	250	G 1/4	0-10	Brass	FPM	0,40	24/50	022 883 H
		0,23	250	G 1/4	0-10	Brass	FPM	0,40	110/50	024 592 F
		0,23	250	G 1/4	0-10	Brass	FPM	0,40	230/50	124 909 W
		0,23	250	G 1/4	0-10	Brass	FPM	0,40	240/50	124 910 J
		0,18	200	G 1/4	0-10	Brass	EPDM	0,40	24/=	124 914 A
		0,23	250	G 1/4	0-10	Brass	EPDM	0,40	24/50	124 915 B
		0,23	250	G 1/4	0-10	Brass	EPDM	0,40	110/50	124 916 C
		0,23	250	G 1/4	0-10	Brass	EPDM	0,40	230/50	124 917 D
		0,23	250	G 1/4	0-10	Brass	EPDM	0,40	240/50	124 918 N
		0,18	200	G 1/4	0-10	Stainless	FPM	0,40	24=	020 292 S
		0,23	250	G 1/4	0-10	Stainless	FPM	0,40	24/50	023 984 F
		0,23	250	G 1/4	0-10	Stainless	FPM	0,40	110/50	089 070 C
		0,23	250	G 1/4	0-10	Stainless	FPM	0,40	230/50	124 906 K
		0,23	250	G 1/4	0-10	Stainless	FPM	0,40	240/50	124 907 L
		0,18	200	G 1/4	0-10	Stainless	EPDM	0,40	24/=	062 921 N
		0,23	250	G 1/4	0-10	Stainless	EPDM	0,40	24/50	077 372 E
		0,23	250	G 1/4	0-10	Stainless	EPDM	0,40	110/50	021 422 H
		0,23	250	G 1/4	0-10	Stainless	EPDM	0,40	230/50	124 902 P
		0,23	250	G 1/4	0-10	Stainless	EPDM	0,40	240/50	124 903 Q
	4,0	0,22	240	G 1/4	0- 5	Brass	FPM	0,40	024/=	024 019 K
		0,28	300	G 1/4	0- 5	Brass	FPM	0,40	24/50	025 246 U
		0,28	300	G 1/4	0- 5	Brass	FPM	0,40	110/50	124 911 F
		0,28	300	G 1/4	0- 5	Brass	FPM	0,40	230/50	124 912 G
		0,28	300	G 1/4	0- 5	Brass	FPM	0,40	240 /50	124 913 H
		0,22	240	G 1/4	0- 5	Brass	EPDM	0,40	24/=	073 652 B
		0,28	300	G 1/4	0- 5	Brass	EPDM	0,40	24/50	120 937 R
		0,28	300	G 1/4	0- 5	Brass	EPDM	0,40	110/50	124 919 P
		0,28	300	G 1/4	0- 5	Brass	EPDM	0,40	230/50	124 920 L
		0,28	300	G 1/4	0- 5	Brass	EPDM	0,40	240/50	124 921 H
		0,22	240	G 1/4	0- 5	Stainless	FPM	0,40	24/=	018 276 B
		0,28	300	G 1/4	0- 5	Stainless	FPM	0,40	24/50	018 857 S
		0,28	300	G 1/4	0- 5	Stainless	FPM	0,40	110/50	023 830 Q
		0,28	300	G 1/4	0- 5	Stainless	FPM	0,40	230/50	124 908 V
		0,28	300	G 1/4	0- 5	Stainless	FPM	0,40	240/50	087 950 Z
		0,22	240	G 1/4	0- 5	Stainless	EPDM	0,40	24/=	067 783 Z
		0,28	300	G 1/4	0- 5	Stainless	EPDM	0,40	24/50	025 090 Q
		0,28	300	G 1/4	0- 5	Stainless	EPDM	0,40	110/50	050 687 C
		0,28	300	G 1/4	0- 5	Stainless	EPDM	0,40	230/50	124 904 R
		0,28	300	G 1/4	0- 5	Stainless	EPDM	0,40	240/50	124 905 J