2/2-Way, Direct-acting, G1/8 - M5

Advantages/Benefits

- **Normally closed**
- **Body materials: brass, stainless steel**
- **Short response time**
- **Compact design**

Design/Function

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

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.

Applications

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

bürkert
Easy Fluid Control Systems

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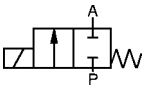
Technical Data

Circuit Function

A 2/2-way valve,
normally closed



Body Materials

Brass body and seat
Stainless steel
Valve internals 1.4105, 1.4571

Specifications

Orifice DN	Kv-Value Water	QNn-Value Air [1]	Pressure Range [2] 4 Watt		Weight
			AC	DC	
[mm]	[m³/h]	[l/min]	[bar]	[bar]	[kg]
1,2	0,045	48	0-21	0-12	0,12
1,6	0,06	65	0-12	0- 6	0,10
2,0	0,11	120	0- 8	0- 4,5	0,12
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, hydaulic oils -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 G 1/8, M5

Operating Data (Actuator)

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

Voltage tolerance ± 10%

Power consumption AC 9 VA (inrush),
6 VA/4 W (hold)
DC 4 W
2 Watt-version
6 VA (inrush),
5 VA/2 W (hold)

Duty cycle 100 % continuously rated

Cycling rate approx. 1000 c.p.m.

Rating with plug Type 1051 or cable IP 65

Installation / Accessories

Installation as required, but preferably with solenoid system upright

Electrical connection
- cable connection without cable plug (supplied as standard)
- moulded-in cable on request
- 2 or 3 moulded-in flying leads on request

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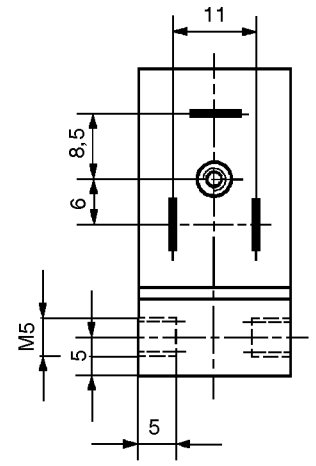
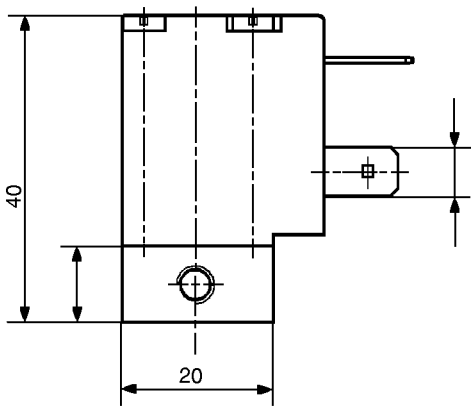
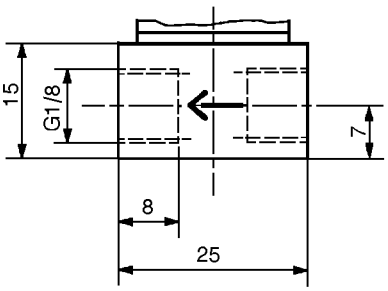
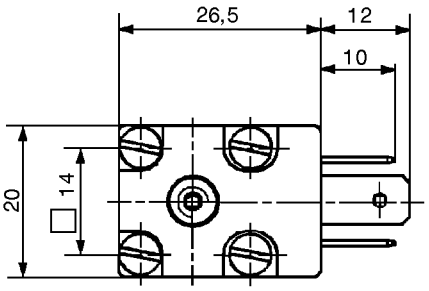
Dimensions in mm









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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 [mm]	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.
A	01,2	0,045	48	G 1/8	0-12	Brass	NBR	0,12	012/=	056 533 K
					0-12	Brass	NBR	0,12	024/=	047 108 H
					0-21	Brass	NBR	0,12	024/50	044 362 B
					0-21	Brass	NBR	0,12	110/50	052 844 X
					0-21	Brass	NBR	0,12	230/50	046 605 A
					0-10	Brass	NBR	0,12	230/50 [2]	019 411 L
					0-21	Brass	NBR	0,12	240/50	045 694 S
					0-21	Stainless	NBR	0,12	024/50	049 497 Z
					0-12	Stainless	NBR	0,12	024/=	051 827 M
					0-21	Stainless	NBR	0,12	230/50	041 246 C
				M 5	0-12	Brass	NBR	0,10	012/=	054 900 E
					0-21	Brass	NBR	0,10	024/50	048 222 B
					0-12	Brass	NBR	0,10	024/=	044 246 F
					0-21	Brass	NBR	0,10	110/50	024 350 F
					0-21	Brass	NBR	0,10	230/50	047 533 J
					0-21	Brass	NBR	0,10	240/50	051 790 C
				G 1/8	0-12	Brass	FPM	0,12	012/=	053 702 A
					0-21	Brass	FPM	0,12	024/50	045 162 U
					0-12	Brass	FPM	0,12	024/=	054 121 L
					0-21	Brass	FPM	0,12	110/50	078 165 G
					0-21	Brass	FPM	0,12	230/50	062 617 V
					0-12	Stainless	FPM	0,12	012/=	023 294 K
					0-21	Stainless	FPM	0,12	024/50	065 838 W
					0-12	Stainless	FPM	0,12	024/=	050 035 Z
					0-21	Stainless	FPM	0,12	110/50	065 149 B
					0-21	Stainless	FPM	0,12	230/50	047 093 M
					0-21	Stainless	FPM	0,12	240/50	018 973 W
				M 5	0-12	Brass	FPM	0,10	012/=	054 159 A
					0-12	Brass	FPM	0,10	024/=	055 778 P
					0-21	Brass	FPM	0,10	230/50	066 893 P
	01,6	0,06	65	G 1/8	0-12	Brass	NBR	0,12	024/50	047 011 J
					0- 6	Brass	NBR	0,12	024/=	048 022 W
					0- 6	Brass	NBR	0,12	024/=	057 445 U[3]
					0-12	Brass	NBR	0,12	110/50	050 484 Z
					0-12	Brass	NBR	0,12	230/50	044 203 D
					0-12	Brass	NBR	0,12	240/50	051 791 Z
					0-12	Stainless	NBR	0,12	024/50	026 964 M
					0- 6	Stainless	NBR	0,12	024/=	053 546 V
					0-12	Stainless	NBR	0,12	230/50	047 007 X
					0-12	Stainless	NBR	0,12	240/50	047 310 E

[1] Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20°C, [2] 2 W power consumption,
[3] analysis version

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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 [mm]	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.
A	01,6	0,06	65	M 5	0-12	Brass	NBR	0,10	024/50	046 004 T
					0- 6	Brass	NBR	0,10	024/=	047 455 U
					0-12	Brass	NBR	0,10	110/50	051 343 F
					0-12	Brass	NBR	0,10	230/50	044 202 C
					0-12	Brass	NBR	0,10	240/50	019 285 W
				G 1/8	0- 6	Stainless	FPM	0,12	012/=	049 026 T
					0-12	Stainless	FPM	0,12	024/50	065 239 D
					0- 6	Stainless	FPM	0,12	024/=	042 050 G
					0-12	Stainless	FPM	0,12	110/50	066 462 W
					0-12	Stainless	FPM	0,12	230/50	054 140 B
					0-12	Stainless	FPM	0,12	240/50	066 464 Y
				G 1/8	0-12	Brass	FPM	0,12	024/50	022 296 L
					0- 6	Brass	FPM	0,12	024/=	056 694 V
					0-12	Brass	FPM	0,12	230/50	057 295 W
				M 5	0- 6	Brass	FPM	0,10	012/=	046 445 Z
					0-12	Brass	FPM	0,10	024/50	058 122 Z
					0- 6	Brass	FPM	0,10	024/=	054 017 P
					0-12	Brass	FPM	0,10	230/50	053 348 N
	02,0	0,11	120	G 1/8	0- 8	Brass	NBR	0,12	024/50	045 111 R
					0- 4,5	Brass	NBR	0,12	024/=	048 342 K
					0- 8	Brass	NBR	0,12	110/50	018 470 A
					0- 8	Brass	NBR	0,12	230/50	041 707 B
					0- 8	Brass	NBR	0,12	240/50	049 449 Q
					0- 8	Stainless	NBR	0,12	024/50	069 042 F
					0- 4,5	Stainless	NBR	0,12	024/=	053 202 D
					0- 8	Stainless	NBR	0,12	230/50	044 567 Z
					0- 8	Brass	FPM	0,12	024/50	065 592 Q
					0- 4,5	Brass	FPM	0,12	024/=	020 646 C
					0- 8	Brass	FPM	0,12	230/50	022 638 S
					0- 8	Stainless	FPM	0,12	024/50	089 048 A
					0- 4,5	Stainless	FPM	0,12	024/=	054 290 A
					0- 4,5	Stainless	FPM	0,12	024/=	065 372 A[3]
					0- 8	Stainless	FPM	0,12	230/50	066 375 E
					0- 8	Stainless	FPM	0,12	230/50	044 496 K[4]
	02,4	0,13	140	G 1/8	0- 3	Stainless	EPDM	0,12	024/=	065 559 E
					0- 6	Stainless	EPDM	0,12	240/50	050 537 V
					0- 6	Brass	NBR	0,12	024/50	044 013 R
					0- 3	Brass	NBR	0,12	024/=	045 423 J
					0- 6	Brass	NBR	0,12	110/50	043 749 N
					0- 6	Brass	NBR	0,12	230/50	044 669 P
					0- 6	Brass	NBR	0,12	240/50	054 871 U

[1] Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20°C, [2] 2 W power consumption,
[3] analysis version

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Ordering Chart (Other Versions on Request)

Circuit Function	Orifice DN [mm]	Flow Rate Water Kv-Value [m³/h]	Air [1] QNn [l/min]	Port Connection [mm]	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.
A	02,4	0,13	140	G1/8	0- 6	Stainless	NBR	0,12	024/50	062 346 D
					0- 3	Stainless	NBR	0,12	024/=	048 825 Y
					0- 6	Stainless	NBR	0,12	230/50	062 748 Q
					0- 6	Brass	FPM	0,12	024/50	021 225 K
					0- 3	Brass	FPM	0,12	024/=	050 223 A
					0- 6	Brass	FPM	0,12	110/50	021 783 K
					0- 6	Brass	FPM	0,12	20/50	053 116 N
					0- 6	Stainless	FPM	0,12	024/50	025 955 K
					0- 3	Stainless	FPM	0,12	024/=	040 670 U
					0- 3	Stainless	FPM	0,12	024/=	043 660 R[3]
					0- 6	Stainless	FPM	0,12	110/50	066 485 N
					0- 6	Stainless	FPM	0,12	230/50	068 568 J
					0- 6	Stainless	FPM	0,12	240/50	066 513 R

[1] Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20°C, [2] 2 W power consumption,
[3] analysis version

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