

RSV01 Series, General Purpose – 2/2 Normally Closed

Specifications	
Function (single acting)	<p>Flow direction underseat 1 → 2</p>
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Brass CW617N (EN 12165)
Tube Flange	Stainless Steel 1.4305 EN 10088 (AISI 303)
Tube	Stainless Steel AISI 304
Plunger	Stainless Steel 1.4106 EN 10088 (AISI 430F)
Top Stop	Stainless Steel 1.4105 EN 10088 (AISI 430F)
Springs	Stainless Steel AISI 302
Seal Material (Std)	NBR
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
Standard Coil Voltage DC (≡)	12 V, 24 V
Standard Coil Voltage AC 50 Hz (~)	24 V, 110 V, 200 V, 230 V
Standard Coil Voltage AC 60 Hz (~)	24 V, 120 V, 220 V, 240 V
Voltage Tolerance	+10% to -15% (AC)
	+10% to -5% (DC)
Duty Cycle	100% ED
Protection Class	IP65 (EN 60529) with plug and gasket correctly fitted *
Electrical Connection	to EN 175301 - 803 - A (ex DIN 43650)
Standard Coil Insulation	Class F 155 °C
High Power Coil Insulation	Class H 180 °C
Power Rating (Standard)	AC 18 VA (holding) AC 36 VA (inrush) DC 14 W
Power Rating ¹ (High Power)	DC 22 W

¹ Only for 72Z1 coil.

- Two way shut-off valves for the control of gaseous and liquid media compatible with max viscosity and materials
- Robust construction for industrial applications
- Zero pressure rated
- AC and DC versions
- Diaphragm operation
- Fully ported orifices for high flow
- Suitable for vacuum up to -950 mbar
- Response time 50 to 500 mS
- Tested in accordance with EN 12266-1
- Meets all relevant EC directives (LVD, PED, Art. 4.3)



Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code
			AC Voltages	DC Voltages			
¼"	1.8	1.5	0 - 16	-	16	NBR FKM EPDM ²	RSV01BG20A0WB- RSV01BG20A0WV- RSV01BG20A0WE-
⅜"	3.9	3.3				NBR FKM EPDM ²	RSV01CG20A0WB- RSV01CG20A0WV- RSV01CG20A0WE-
½"	4.9	4.2				NBR FKM EPDM ²	RSV01DG20A0WB- RSV01DG20A0WV- RSV01DG20A0WE-
¾"	6.3	5.4			20	NBR FKM EPDM ²	RSV01EG20A0XB- RSV01EG20A0XY- RSV01EG20A0XE-
1"	8.7	7.4				NBR FKM EPDM ²	RSV01FG20A0XB- RSV01FG20A0XY- RSV01FG20A0XE-
¼"	1.8	1.5				16	NBR FKM EPDM ²
⅜"	3.9	3.3	-	0 - 12 ¹	NBR FKM EPDM ²		RSV01CG20C0WB- RSV01CG20C0WV- RSV01CG20C0WE-
½"	4.9	4.2	NBR FKM EPDM ²	RSV01DG20C0WB- RSV01DG20C0WV- RSV01DG20C0WE-			
¾"	6.3	5.4	-	0 - 9 ¹	20	NBR FKM EPDM ²	RSV01EG20C0XB- RSV01EG20C0XY- RSV01EG20C0XE-
1"	8.7	7.4				NBR FKM EPDM ²	RSV01FG20C0XB- RSV01FG20C0XY- RSV01FG20C0XE-

¹ 0-14 bar with 72Z1 coil (22W).

² EPDM with WRAS approval can be ordered replacing the seal material ref 'E' in the coding with 'Y', example p/n RSV01FG20A0XY.

Options available

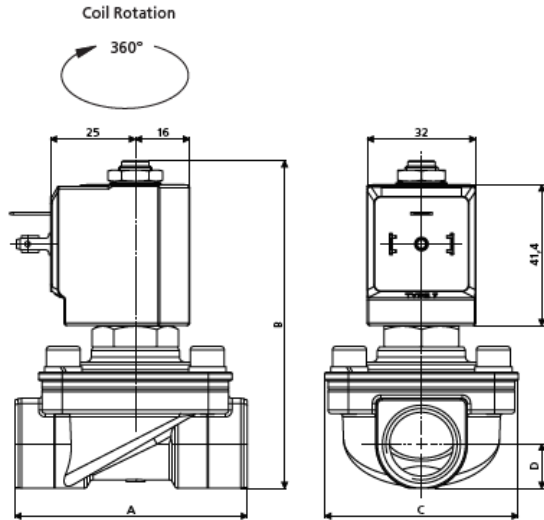
Exd and Exm Solenoid Enclosure	
Exd T6 (IP67)	See separate datasheet
Exd T4 (IP67)	
Exm T5 (IP65)	

Main Valve Body Options (see coding chart)	
Stainless Steel body (AISI 316L)	
NPT threads (minimum batch may be required)	

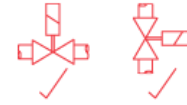
Seal Material ² and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
NBR (-10 °C to +90 °C)	Water, oil, air	-10 °C	+50 °C
FKM (-10 °C to +130 °C)	Water, oil, air	-10 °C	+50 °C
EPDM (WRAS approved up to 1") -10 °C to +85 °C	Water, hot water	-10 °C	+50 °C
EPDM (-10 °C to +120 °C)	Water, hot water	-10 °C	+50 °C

³ See corrosion reference guide and sealing solutions for material compatibility.

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Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
	Dimensions (mm)				
1/4"	68.5	96.5	57	13	0.5
3/8"	68.5	96.5	57	13	0.5
1/2"	68.5	96.5	57	13	0.5
3/4"	81.5	110.5	57	20	0.8
1"	81.5	110.5	57	20	0.7

Solenoid enclosures

7--0 Type Coil - Insulation class F

- External material: PBT (reinforced glass fibre 30%)
- Electrical connection: DIN EN 175301-803 form A
- Winding insulation: Class F (E155)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with plug and gasket correctly fitted*



Type 600 011- Plug

- Rated Voltage (max.): 250 VAC / 300 VDC
- Nominal current: 10A (rated) / 16A (max)
- Wire cross-section: 1.5 mm² max
- Cable entry: PG9 (6 to 8 mm)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with supplied gasket
- Insulation class: Group C - VDE 0110
- Housing colour: Black
- UL approved, file No: E205538



7221 Type Coil - Insulation class H

- External material: PPS (glass fibre and mineral filled)
- Electrical connection: DIN EN 175301-803 form A
- Winding insulation: Class H (E180)
- Enclosure classification: Conforms to IP65 (according to EN 60529) with plug and gasket correctly fitted*

* Plug and gasket not supplied as standard, must be ordered separately.

Coding chart

Main valve assembly

Size	Process Connection	Function	Operation	Valve Material	Orifice	Seal Material	Valve Options	Material Options	Approvals
B 1/4"	G GAS ISO 228-1	20 2/2 Way	A AC NC	0 Brass	W 16 ²	B NBR	0 None	K Nickel Plating	0 CE
C 3/8"	N NPT		C DC NC	5 AISI 316L stainless	X 20 ³	E EPDM (WRAS)		0 None	W WRAS
D 1/2"			R N/O AC & DC ⁴			Y EPDM (WRAS)		A Silver Shading Ring	
E 3/4"						V FKM			
F 1"									

Coil options

Voltage / Power Class F ⁴			Electrical Connection
7	w/o coil	-	0 DIN, no plug fitted
7700	230 V / 50 Hz 240 V / 60 Hz	18VA	A DIN weatherproof IP65 / NEMA 4X with plug 600 011-
7200	24 V / 50/60 Hz	18VA	
7400	110 V / 50 Hz 120 V / 60 Hz	18VA	
7100	12V / 50/60 Hz	18VA	
7600	200 V / 50 Hz 220 V / 60 Hz	18VA	
7300	48 V / 50/60 Hz	18VA	
7250	24 VDC	14W	
7150	12 VDC	14W	
Class H, High Power			
7221	24 VDC	22W	

Notes: 1. See separate datasheet 2. 3/8" & 1/2" only 3. 3/4" & 1" only 4. For use with UL approved coils contact Sales Department

Product coding example:

RSV01 C G 20 A 0 W B 0 K 0 7700 0 = 3/8" BSP G, 2/2, AC NC, brass body, 16 mm orifice, NBR seals, nickel plating, DIN coil, 230 V 50 Hz, without plug.