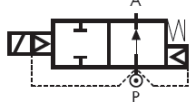


RD232/233/234 Series, High Pressure – 2/2 Normally Open

Specifications	
Function (single acting)	 Flow direction overseat 1 → 2
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Brass CW617N (EN 12165)
Orifice Material	Stainless Steel 1.4305 EN 10088 (AISI 303)
Flange Tube	Stainless Steel 1.4305 EN 10088 (AISI 303)
Plunger	Stainless Steel 1.4106 EN 10088 (AISI 430F)
Top Stop	Stainless Steel 1.4105 EN 10088 (AISI 430F)
Springs	Stainless Steel AISI 302
Operator Seal Material ¹	RUBY
Diaphragm Material	FKM
Main Seal Material ¹	PTFE
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
Standard Coil Voltage DC (=)	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)
Coil Insulation	Class H 180 °C
Power Rating (Standard)	AC 18 VA (holding) AC 36 VA (inrush) DC 14 W

¹ For RD23-DYW operator seal material is foodgrade FKM and main seal material is FKM.

Features and Benefits

- Pilot operated
- Robust construction for industrial applications
- Stainless steel AISI 430F operators with low residual magnetism
- Coils tested 100% in compliance to RoHS directive and to relevant international standards
- High quality seal materials
- Response time 50 to 500 ms



Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code
			AC Voltages	DC Voltages			
3/8"	2.95	2.52	1 - 50	1 - 50	16	PTFE	RD232DIW ²
1/2"	3.23	2.76	1 - 50	1 - 50	16	PTFE	RD233DIW ²
3/4"	3.37	2.88	1 - 50	1 - 50	16	PTFE	RD234DIW ²
3/8"	2.95	2.52	1 - 25	1 - 25	16	FKM	RD232DYW ³
1/2"	3.23	2.76	1 - 25	1 - 25	16	FKM	RD233DYW ³
3/4"	3.37	2.88	1 - 25	1 - 25	16	FKM	RD234DYW ³

² Not 100% leak-proof when used with air/gases. Approximate leak rate is 1,5 ml/min at max. OPD.

³ Non standard, MOQ required.

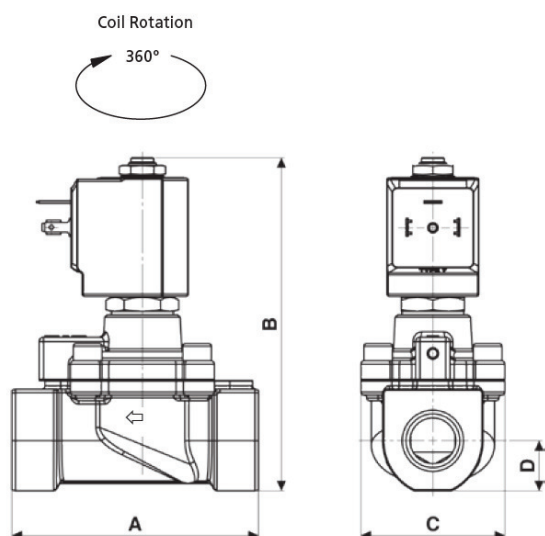
Options Available

Valve Options (see coding chart)
NPT threads (minimum batch may be required)

Seal Material ⁴ and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
PTFE (-10 °C to +130 °C)	Water ⁵ , oil, air	-10 °C	+50 °C
FKM (-10 °C to +130 °C)	Water ⁵ , oil, air	-10 °C	+50 °C

⁴ See corrosion reference guide and sealing solutions for material compatibility.

⁵ When using liquid fluids waterhammer and pressures higher than 20 barg can cause the diaphragm to tear.



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
3/8"	86	116.5	50.2	17.5	1
1/2" - 3/4"	86	116.5	50.2	17.5	0.9

Dimensions (mm)

Solenoid enclosures

7--1 Type Coil - Insulation class H

External material: PPS (glass fiber & 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*



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



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

Coding chart

Main Valve Assembly

Pipe Size
2 3/8"
3 1/2"
4 3/4"

Seals
T PTFE
V FKM

Option
N NPT
w/o option

Coil options

Voltage / Frequency - Class H
7251 24 VDC
7201 24 V / 50/60 Hz
7401 110 V / 50 Hz - 120 V / 60 Hz
7601 200 V / 50 Hz - 220 V / 60 Hz
7701 230 V / 50 Hz - 240 V / 60 Hz

Plug

Plug
w/o plug
0A1 c/w plug

RD	2	3	.	D	.	W	.	.	.	.	.	.	.	.	.	.	.
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Product coding example:

RD233DTW 7701 0A1
 1/2" G, auto operation, brass body, PTFE seals, 16.5 mm orifice, 230 V / 50 Hz - 240 V / 60 Hz, with plug.