

RD236DR-1 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 (Seamless)	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
Seal Material (Std)	Ruby
Connection Type (Std)	G parallel thread (ISO 228-1)
Shading Ring	Copper
Electrical Characteristics	
High Power Coil Voltage DC (=)	24 V
High Power Coil Voltage AC 50 Hz (~)	24 V, 110 V, 230 V
High Power Coil Voltage AC 60 Hz (~)	24 V, 120 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 (High Power)	AC 25 VA (holding) AC 50 VA (inrush) DC 22 W

Features and Benefits

- Direct Acting
- Robust construction for industrial applications
- Zero pressure rated
- 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 5 to 25 ms



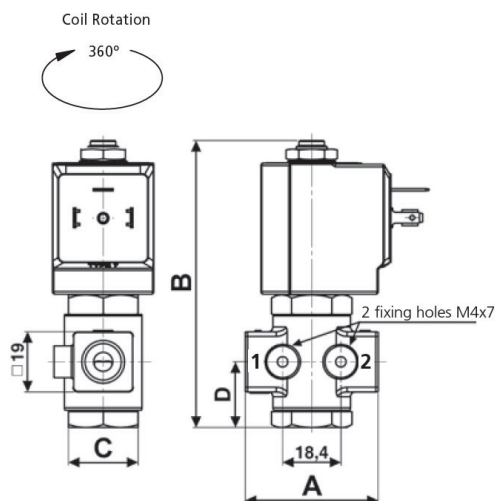
Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (bar)		Orifice (mm)	Seal Material	Valve Code
			AC Voltages	DC Voltages			
¼"	0.04	0.03	0 - 180	0 - 180	1.0	RUBY	RD236DBA1
¼"	0.09	0.08	0 - 150	0 - 150	1.5	RUBY	RD236DRC1
¼"	0.14	0.12	0 - 60	0 - 60	2.0	RUBY	RD236DRE1
¼"	0.20	0.17	0 - 37	0 - 37	2.5	RUBY	RD236DRG1
¼"	0.25	0.21	0 - 28	0 - 28	3.0	RUBY	RD236DRH1

Options Available

Valve Options (see coding chart)
Coils with additional protection by impregnation with Loctite® Resinol RTC for humid environments

Seal Material ¹ and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
RUBY (-10 °C to +130 °C)	Water, oil, air, aggressive fluids	-10 °C	+50 °C

¹ See corrosion reference guide and sealing solutions for material compatibility.



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
1/4"	47	91	Hex 22	20.75	0.25

Dimensions (mm)

Solenoid enclosures

7-K1 & 7-Z1 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

Coil options

Plug

Orifice		Option		Voltage / Frequency - Class H, High Power		Plug	
A	1.0	w/o option		72Z1	24 VDC	0A1	c/w plug
C	1.5			72K1	24 V / 50/60 Hz		w/o plug
E	2.0			74K1	110 V / 50 Hz - 120 V / 60 Hz		
G	2.5			77K1	230 V / 50 Hz - 240 V / 60 Hz		
H	3.0			Voltage / Frequency - Class H, High Power, Impregnated			
				D2Z1	24 VDC		
				D2K1	24 V / 50/60 Hz		
				D4K1	110 V / 50 Hz - 120 V / 60 Hz		
				D7K1	230 V / 50 Hz - 240 V / 60 Hz		

RD	2	3	6	D	R	•	1	•	•	•	•	•	•	•	•	•	•
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Product coding example:

RD236DRC1 72K1
 1/4" G, auto operation, brass body, RUBY seals, 1.5 mm orifice, 24 VDC, without plug.