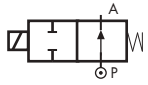


RD298/299 Series, General Purpose & High Pressure – 2/2 Normally Open

Specifications	
Function (single acting)	 Flow direction overseat 1 → 2
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Stainless Steel 1.4305 EN 10088 (AISI 303)
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
Seal Material (Std)	Foodgrade FKM
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

Features and Benefits

- Direct Acting
- 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
- Choice of high quality seal materials
- Troublefree operation with coils class H
- 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	0.04	0 - 30	0 - 30	1.0	FKM EPDM	RD299DVA RD299DEA
¼"	0.16	0.14	0 - 20	0 - 20	2.0	FKM EPDM	RD299DVE RD299DEE
¼"	0.23	0.20	0 - 14	0 - 14	2.5	FKM EPDM	RD299DVG RD299DEG
¼"	0.32	0.27	0 - 9	0 - 9	3.0	FKM EPDM	RD299DVH RD299DEH
¼"	0.04	0.04	0 - 100	0 - 100	1.0	RUBY	RD299DRA**
¼"	0.05	0.04	0 - 85	0 - 85	1.2	RUBY	RD299DRB**
¼"	0.08	0.07	0 - 55	0 - 55	1.5	RUBY	RD299DRC**
¼"	0.16	0.14	0 - 25	0 - 25	2.0	RUBY	RD299DRE**
¼"	0.23	0.20	0 - 19	0 - 19	2.5	RUBY	RD299DRG**
¼"	0.32	0.27	0 - 10	0 - 10	3.0	RUBY	RD299DRH**

** Not 100% leak-proof when used with air/gases. Approx leak rate is 1.5ml/min at max OPD.

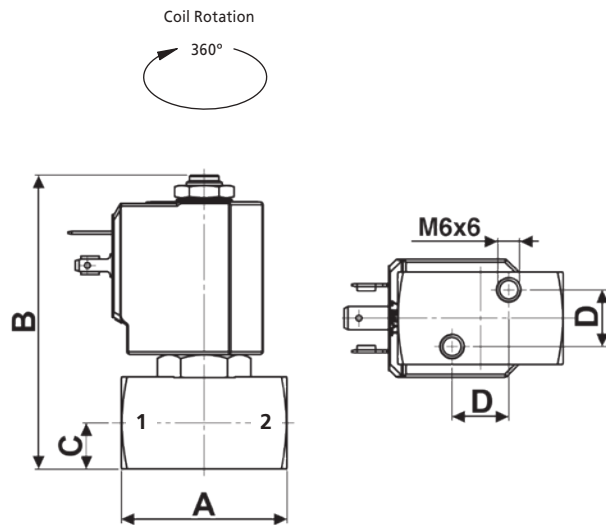
Options Available

Valve Options (see coding chart)
Body threaded connection G ½"
NPT threads (minimum batch may be required)
Anticorrosion treatment recommended with aggressive fluids
Silver shading ring

Seal Material¹ and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
FKM (-10 °C to +130 °C)	Water, oil, air, aggressive fluids	-10 °C	+50 °C
EPDM (-10 °C to +120 °C)	Water, hot water	-10 °C	+50 °C
RUBY (-10 °C to +130 °C)	Water, liquids	-10 °C	+50 °C

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

RD298/299 Series, General Purpose & High Pressure – 2/2 Normally Open



Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
1/8" - 1/4"	45	80	12.5	15.4	0.36

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*



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

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



Coding chart

Main Valve Assembly

Pipe Size
8 1/8"
9 1/4"

Seals	Orifice ¹
V FKM	A 1.0
E EPDM	B 1.2
R RUBY	C 1.5
	E 2.0
	G 2.5
	H 3.0

Option
A Silver shading ring
F Anticorrosion treatment ²
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	9	•	D	•	•	•	•	•	•	•	•	•	•	•	•
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¹ See characteristics table for availability.

² Recommended with aggressive fluids.

Product coding example:

RD299DVA 7251
 1/4" G, auto operation, stainless steel body, FKM seals, 1.0 mm orifice, 24 VDC, without plug.