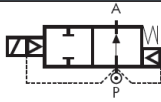


## RD223/224/225 Series, General Purpose – 2/2 Normally Open

Specifications	
Function (single acting)	 <p>Flow direction overseat 1 → 2</p>
Maximum Viscosity	Max. 21cST (3 °E)
Body Material (Std)	Brass CW617N (EN 12165)
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)	NBR
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

- 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
- Choice of high quality seal materials
- Troublefree operation with coils class H
- Speed control screw as standard
- 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			
1 ¼"	25.97	22.20	0.5 - 16	0.5 - 16	40	NBR	RD223D <del>B</del> K
						FKM	RD223D <del>V</del> K
1 ½"	28.08	24.00	0.5 - 16	0.5 - 16	40	EPDM	RD223D <del>E</del> K
						NBR	RD224D <del>B</del> K
2"	37.91	32.40	0.5 - 16	0.5 - 16	50	FKM	RD224D <del>V</del> K
						EPDM	RD224D <del>E</del> K
2"	37.91	32.40	0.5 - 16	0.5 - 16	50	NBR	RD225D <del>B</del> J
						FKM	RD225D <del>V</del> J
2"	37.91	32.40	0.5 - 16	0.5 - 16	50	EPDM	RD225D <del>E</del> J

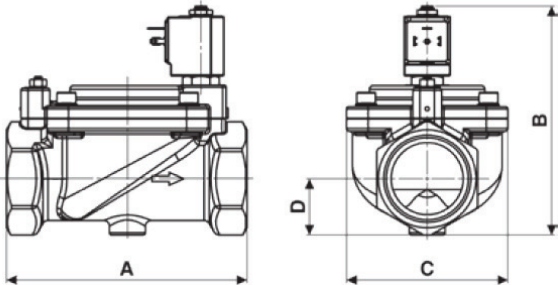
### Options Available

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

Seal Material <sup>1</sup> 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 (-10 °C to +120 °C)	Water, hot water	-10 °C	+50 °C

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

Coil Rotation



### Preferred Valve Mounting Options



Pipe Size	A	B	C	D	Weight (kg)
1 ¼" - 1 ½"	140	140	96	31.5	2.8
2"	167	158	112	39	3.9

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 mm<sup>2</sup> 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
23 1 ¼"
24 1 ½"
25 2"

Seals	Orifice <sup>1</sup>
B NBR	K 40
V VKM	J 50
E EPDM	

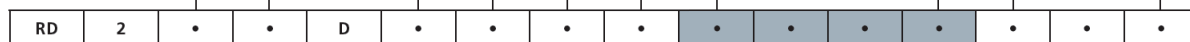
Option
N NPT
K Electroless nickel plating
w/o option

#### 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



<sup>1</sup> DN40 only for RD223 and RD224 only, DN50 only for RD225.

#### Product coding example:

RD223DBK 7251  
1 ¼" G, auto operation, brass body, NBR seals, 40 mm orifice, 24 VDC, without plug.