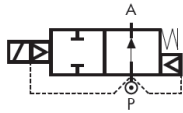


RB203/204/205/206/222 Series, General Purpose – 2/2 Normally Open

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 ¹	Brass CW614N (EN 12164)
Plunger and Top Stop	Stainless Steel 1.4105 EN 10088 (AISI 430F) or equivalent
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 industrial form B
Coil Insulation	Class F 155 °C
Power Rating (Standard)	AC 10 VA (holding) AC 16 VA (inrush) DC 7 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
- 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			
¼"	1.83	1.56	0.3 - 16	0.3 - 16	13	NBR	RB203DBZ
¾"	3.86	3.30				FKM	RB203DYZ
						EPDM	RB203DEZ
½"	4.42	3.78			NBR	RB204DBZ	
					FKM	RB204DYZ	
¾" compact	7.02	6.00			EPDM	RB204DEZ	
			NBR	RB205DBZ			
¾"	9.83	8.40	FKM	RB205DYZ			
			EPDM	RB205DEZ			
			NBR	RB206DBX			
1"	11.23	9.60	0.3 - 16	0.3 - 16	21	FKM	RB206DYX
						EPDM	RB206DEX
					25	FNBR	RB206DBY ²
						FKM	RB206DY ²
1"	11.23	9.60	0.3 - 16	0.3 - 16	25	EPDM	RB206DEY ²
						NBR	RB222DBY
1"	11.23	9.60	0.3 - 16	0.3 - 16	25	FKM	RB222DY
						EPDM	RB222DEY

¹ With special brass nut for NO operator (different from Standard).

² Non standard, MOQ required.

Options Available

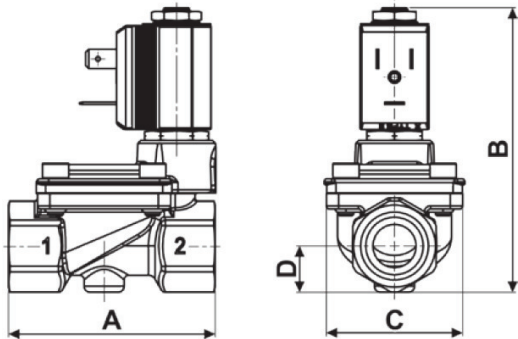
Valve Options (see coding chart)
NPT threads (minimum batch may be required)
Electroless nickel plating treatment
Speed control screw

Seal Material ³ 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

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

Preferred Valve Mounting Options

Coil Rotation



Pipe Size	A	B	C	D	Weight (kg)
1/4" - 3/8" - 1/2"	67	92.5	45.6	15	0.4
3/4" compact	82	107.5	51.6	20.25	0.6
3/4" to 1"	96	117.5	72	23	1.2

Dimensions (mm)

Solenoid enclosures

2--0 Type Coil - Insulation class F

External material: PBT (reinforced fiberglass 30%)
 Electrical connection: Industrial form B
 Winding insulation: Class H (E180)
 Enclosure classification: Conforms to IP65 (according to EN 60529) with plug and gasket correctly fitted*



Type 600 001- 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	
03	1/4"
04	3/8"
05	1/2"
06	3/4" (compact)
06	3/4" 1"
22	1"

Seals	Orifice ²
B NBR	Z 13
V FKM	X 21
E EPDM	Y 25

Option	
N	NPT
K	Electroless nickel plating
V	Speed control screw ³
	w/o option

Coil options

Voltage / Frequency - Class F	
2250	24 VDC
2200	24 V / 50/60 Hz
2400	110 V / 50 Hz - 120 V / 60 Hz
2600	200 V / 50 Hz - 220 V / 60 Hz
2700	230 V / 50 Hz - 240 V / 60 Hz

Plug

Plug	
	w/o plug
0B1	c/w plug

RB	2	.	.	D
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¹ Non standard, MOQ required.

² DN13 only for RB203/204/205, DN21 only for RB206 compact, DN25 only for RB206 and RB222.

³ Speed control screw available on RB206D-Y and RB222D-Y.

Product coding example:

RB203DBZ 2250
 1/4" G, auto operation, brass body, NBR seals, 13 mm orifice, 24 VDC, without plug.