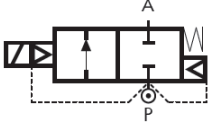


# B203/204/205/206/222 Series, General Purpose – 2/2 Normally Closed

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	Stainless Steel 1.4305 EN 10088 (AISI 303)
Tube	Stainless Steel AISI 304
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	B203DBZ
¾"	3.86	3.30				FKM	B203DVZ
						EPDM	B203DEZ
½"	4.42	3.78			NBR	B204DBZ	
					FKM	B204DVZ	
¾" compact	7.02	6.00			EPDM	B204DEZ	
			NBR	B205DBZ			
¾"	9.83	8.40	FKM	B205DVZ			
			EPDM	B205DEZ			
1"	11.23	9.60	25	NBR	B206DBX		
				FKM	B206DVX		
				EPDM	B206DEX		
1"	11.23	9.60	25	FNBR	B206DBY <sup>1</sup>		
				FKM	B206D <sup>Y</sup> Y <sup>1</sup>		
				EPDM	B206D <sup>E</sup> Y <sup>1</sup>		
1"	11.23	9.60	25	NBR	B222DBY		
				FKM	B222D <sup>Y</sup> Y		
				EPDM	B222D <sup>E</sup> Y		

<sup>1</sup> Non standard, MOQ required.

## Options Available

Valve Options (see coding chart)
NPT threads (minimum batch may be required)
Manual override
Electroless nickel plating treatment
Speed control screw (on DN25 only)

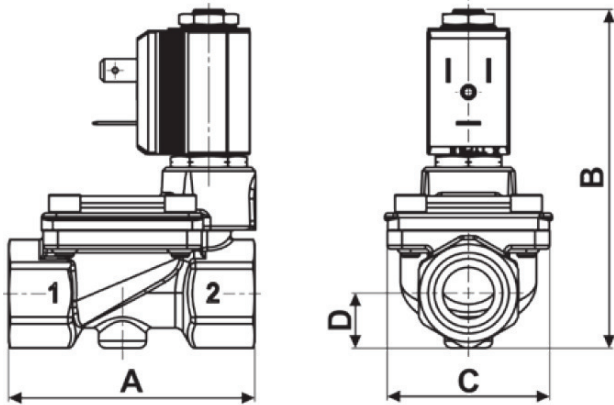
Seal Material <sup>1</sup> and Media Temperature Range	Media	Ambient Temperature Range	
		Min	Max
NBR (-10 °C to +90 °C)	Water, oil, air	-10 °C	+50 °C
FKM (-10 °C to +130 °C)	Water, oil, air	-10 °C	+50 °C
EPDM (-10 °C to +120 °C)	Water, hot water	-10 °C	+50 °C

<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)
¼" - ⅜" - ½"	67	90	45.6	15	0.4
¾" compact	82	105	51.6	20.25	0.6
¾" to 1"	96	115	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 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	Seals	Orifice <sup>2</sup>	Option
03 ¼"	B NBR	Z 13	N NPT
04 ⅜"	V FKM	X 21	M Manual Override
05 ½"	E EPDM	Y 25	K Electroless nickel plating
06 ¾" (compact)			V Speed control screw <sup>3</sup>
06 ¾" 1			w/o option
22 1"			

### 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



<sup>1</sup> Non standard, MOQ required.  
<sup>2</sup> DN13 only for B203/204/205, DN21 only for B206 compact, DN25 only for B206 and B222.  
<sup>3</sup> Speed control screw available on B206D-Y and B222D-Y.

### Product coding example:

B203DBZ 2250  
 ¼" G, auto operation, brass body, NBR seals, 13 mm orifice, 24 VDC, without plug.