

# VP23, 3-way Proportional pressure control valves seat valve with $\mu$ P-driven pressure control

- > Port size: G1/4 ... G3/4
- > Pressure ranges 0...2, 0...10 and 0...16 bar
- > Microprocessor-controlled closed-loop controller
- > Setpoint: 4 to 20 mA, 0 to 10 V, IO-Link



## Technical features

**Medium:**  
Filtered (50  $\mu$ m), unlubricated or lubricated condensate-free compressed air or neutral gases  
Due to the lubricants and their additives, use of lubricated compressed air can affect the dynamics and service life

**Operation:**  
Proportional solenoid

**Pressure range:**  
Operating pressure P1 max:  
7 bar (101 psi), 12 bar (174 psi), 17 bar (246 psi)

**Operating pressure P2:**  
0 (0,02) ... 2 bar (0 ... 29 psi)  
0 (0,1) ...10 bar (0 ... 145 psi)  
0 (0,16) ... 16 bar(0 ... 232 psi)

**Flowrate:**  
See flow characteristics

**Flow direction:**  
1 → 2, 2 → 3

**Service life:**  
> 10 Million operations,  
max. stroke

**Linearity:**  
 $< \pm 1,0\%$  (p2 max.)

**Control accuracy:**  
 $< \pm 1,0\%$  (p2 max.)

**Response accuracy:**  
 $< \pm 0,2\%$  (p2 max.)

**Hysteresis:**  
 $< \pm 0,5\%$  (p2 max.)

**Repeat accuracy:**  
 $< \pm 0,5\%$  (p2 max.)  
values related to 20°C and 24 V d.c. power supply

**Ambient:**  
Valve series is designed for indoor use at normal industrial ambient

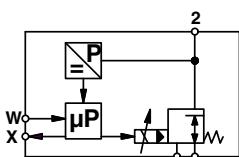
**Ambient/Media temperature:**  
Media

-5 ... +50°C (+23 ... +122°F)  
(no condensation permitted)

Ambient  
-5 ... +60°C (+23 ... +140°F)  
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

**Materials:**  
Valve housing: Aluminium  
Electronic housing: PAA  
Seals: NBR, HNBR on request  
Internal parts : PBT  
Springs : Steel

## Technical data, standard model

Symbol	Pressure Range	Nominal size (mm)	Max. Flow (l/min)	Set point (input)	Actual value (output)	Weight (kg)	Model
	0 ... 2 bar	8	850	0...10 V	0...10 V, 4...20 mA	1,1	VP2302BD761MB200
	0 ... 2 bar	8	850	4...20 mA	0...10 V, 4...20 mA	1,1	VP2302BD461MB200
	0 ... 2 bar	8	850	IO-Link	IO-Link	1,1	VP2302BDLL1MB200
	0 ... 2 bar	16	3.500	0...10 V	0...10 V, 4...20 mA	1,7	VP2302BE761MB200
	0 ... 2 bar	16	3.500	4...20 mA	0...10 V, 4...20 mA	1,7	VP2302BE461MB200
	0 ... 2 bar	16	3.500	IO-Link	IO-Link	1,7	VP2302BELL1MB200
	0 ... 10 bar	8	2.500	0...10 V	0...10 V, 4...20 mA	1,1	VP2310BD761MB200
	0 ... 10 bar	8	2.500	4...20 mA	0...10 V, 4...20 mA	1,1	VP2310BD461MB200
	0 ... 10 bar	8	2.500	IO-Link	IO-Link	1,1	VP2310BDLL1MB200
	0 ... 10 bar	16	12.500	0...10 V	0...10 V, 4...20 mA	1,7	VP2310BE761MB200
	0 ... 10 bar	16	12.500	4...20 mA	0...10 V, 4...20 mA	1,7	VP2310BE461MB200
	0 ... 10 bar	16	12.500	IO-Link	IO-Link	1,7	VP2310BELL1MB200
	0 ... 16 bar	8	3.000	0...10 V	0...10 V, 4...20 mA	1,1	VP2316BD761MB200
	0 ... 16 bar	8	3.000	4...20 mA	0...10 V, 4...20 mA	1,1	VP2316BD461MB200
	0 ... 16 bar	8	3.000	IO-Link	IO-Link	1,1	VP2316BDLL1MB200
	0 ... 16 bar	16	14.000	0...10 V	0...10 V, 4...20 mA	1,7	VP2316BE761MB200
	0 ... 16 bar	16	14.000	4...20 mA	0...10 V, 4...20 mA	1,7	VP2316BE461MB200
	0 ... 16 bar	16	14.000	IO-Link	IO-Link	1,7	VP2316BELL1MB200

