

Dual stage shut-off Valves series VSX

Gas safety dual stage shut-off valves series VSX, are manufactured in conformity to the Norm EN161 with CE product identification.

VSX valves are suitable for the automatic control of gas belonging to the first, second and third family. On request there are versions for biogas and air. These valves, normally closed for continuous and cyclic operation, open by powering the coil and close quickly when there is no tension. There are two stages of flow regulation, first stage with the bottom coil, second stage with the upper coil or valve completely open when both coils are energized.



TECHNICAL FEATURES

Body valve	Die-caste aluminium
Threaded connections	Rp 3/4 ÷ Rp 2 according to EN 10226
Flanged connections	DN25 ÷ DN50 PN16 according to ISO 7005
Inlet pressure	200 mbar or 360 mbar
Opening/Closing Time on quick version	< 1 second
Ambient temperature	-20 ÷ +60 °C
Supply voltage	230V ac, 110V ac, 24V ac and dc
Frequency	50÷60 Hz, 50 Hz for 24V ac
Enclosure	IP 65 - IEC 529
Supply voltage tolerance	-15% ÷ +10%
Duty cycle	Continuos

FEATURES

- Class A according to EN161
- Electromagnetic Compatibility – Directive 2004/108/CE
- Low voltage – Directive 2006/95/CE
- Normally closed operation
- Slow opening and quick Closing versions
- Max flow adjustment on both coils
- PA resin encapsulated coils
- Pressure test points at inlet by both sides
- Biogas versions available
- Accessories on request: rapid stroke, LED connector

MODELS

VSX = Double stage solenoid valve

Operation

- RP** = Opening/closing of with regulator of max. capacity
- LP** = Slow opening with max flow
- LSP** = Slow opening with max flow adjustment + rapid stroke

Max Pressure

- 2** = 200 mbar
- 3** = 360 mbar

Nominal diameter

- 20** = Rp 3/4
- 25** = Rp 1
- 32** = Rp 1.1/4
- 40** = Rp 1.1/2
- 50** = Rp 2

Supply Voltage

- A** = 24V ac / 50 Hz
- B** = 110V ac / 50-60 Hz
- C** = 230V ac / 50-60 Hz
- E** = 24V dc

Other accessories

- I** = LED light in the connettor
- BG** = Biogas version

VSX

RP

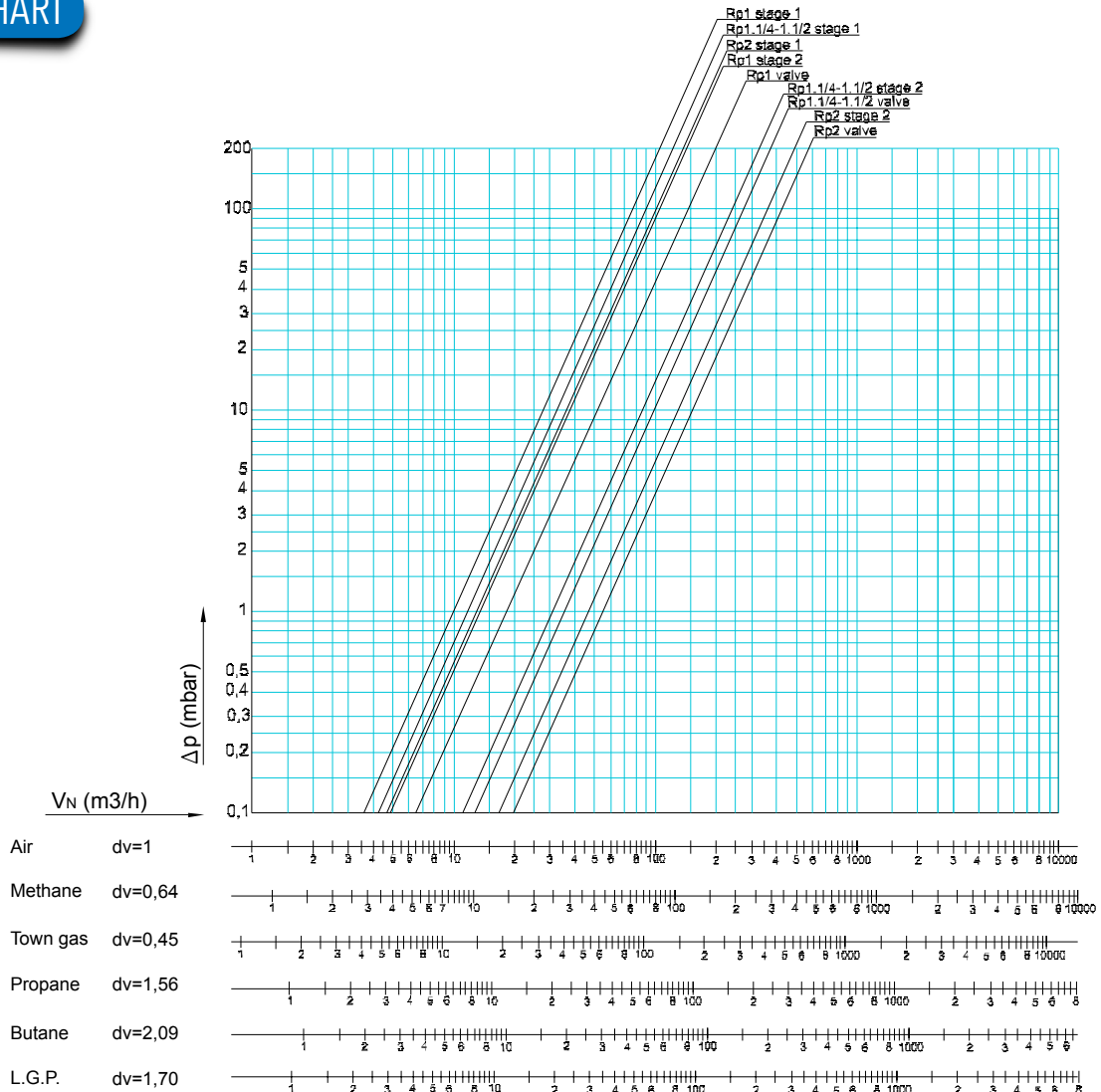
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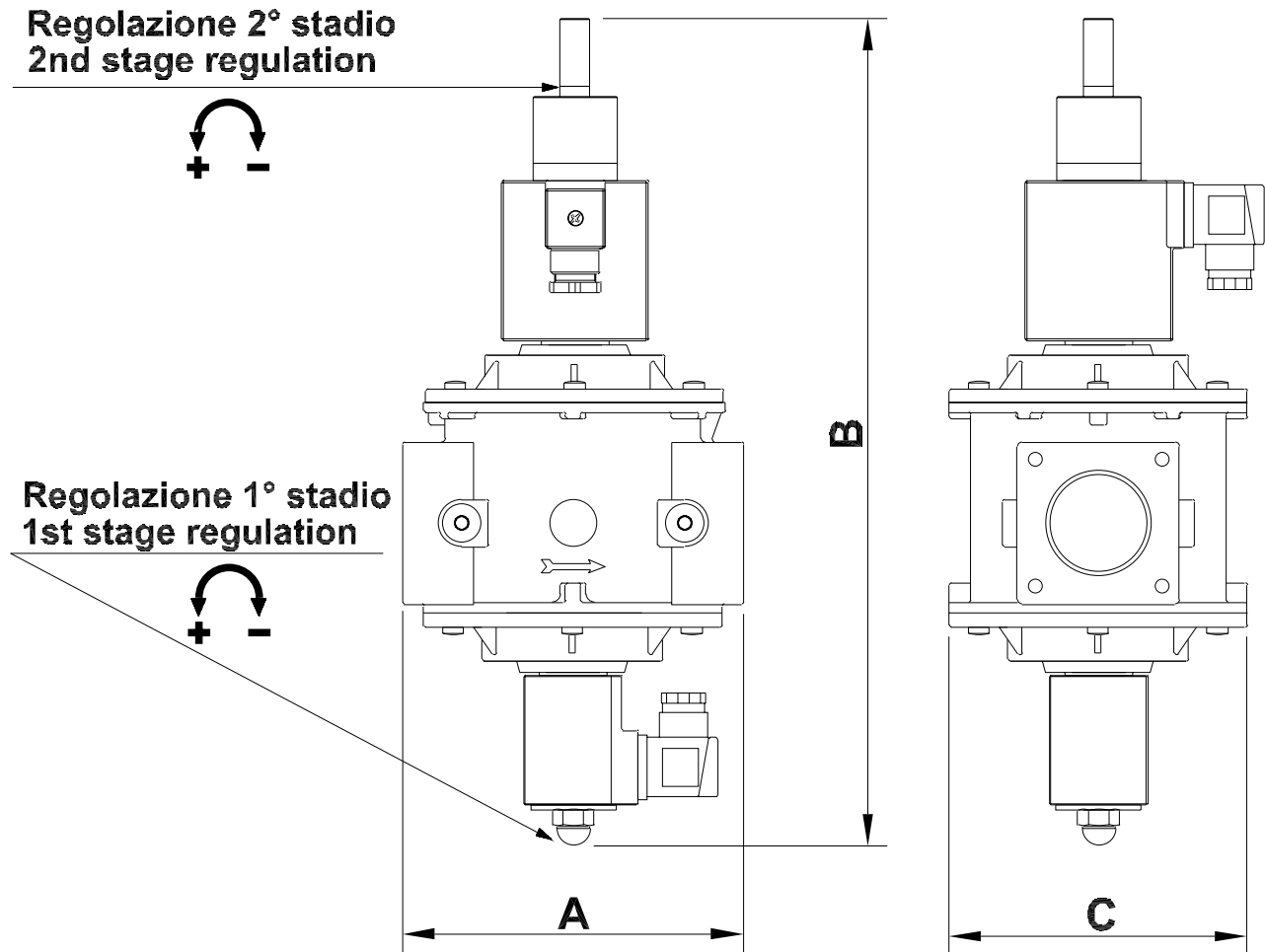
C

BG

FLOW CHART



MODELS AND RATING




Pipe Rp	Max pressure (mbar)	Rating at 230V 1° stage coil	Rating at 230V 2° stage coil	Rating at 230V complete valve	Dimensions (mm)				Weight (Kg)
					A	B		C	
						R/RP	LP/LSP		
3/4	200	17 W	28 W	48/27 W	120	227	292	94	2,3
	360	28 W	45 W	85/25 W					
1	200	17 W	28 W	48/27 W	120	227	292	94	2,3
	360	28 W	45 W	85/25 W					
1.1/4	200	28 W	89 W	129/34 W	160	260	325	140	4,5
	360								
1.1/2	200	28 W	89 W	129/34 W	160	260	325	140	4,5
	360								
2	200	28 W	89 W	129/34 W	160	291	356	140	4,9
	360								

WARNING



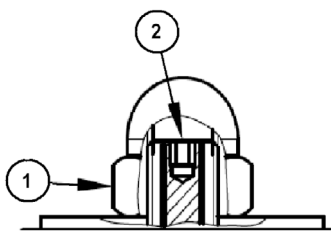
Installation, adjustment and maintenance of the valves must be carried out exclusively by skilled and authorized technicians.

1. Before electric wiring, check that the main voltage matches with the power supply voltage stated on the product label.
2. Disconnect power, before wiring.
3. By wiring connector, use terminals and cables as reported in the Instruction leaflet in the package.
4. Connect the power supply to terminals 1 and 2 and the earth wire to terminal .
5. Using energy saving Green connector with 24V dc comply with polarity.

INSTALLATION AND OPERATING INSTRUCTIONS



1. Make sure that all operating data indicated on the valve label corresponds to those of the system.
2. Before installing the safety shut-off valve, quit the gas supply and make sure that the pipeline is free from impurities. The pipeline must be vibration-free.
3. The flow direction indicated by the arrow on the valve body must be respected, facing towards the user appliance. The safety valve can be installed either horizontally or vertically, provided that the coil is not turned downwards.
4. By installing on threaded device, check the pipeline length: overlong threads may damage the body of the device when joined.
5. When installing the safety shut-off valve in pipework do not use the coil as a lever, but the correct wrench.
6. The sealing material must be applied to the external thread of the pipeline only and not to the internal thread of the safety shut-off valve.

ADJUSTMENT OF MAX. FLOW RATE - OPENING TIME AND RAPID STROKE

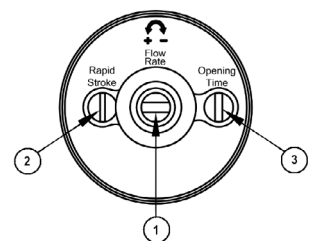


FAST OPENING



1. Coil fastening nut
2. Flow rate adjustment

Unscrew the nut and turn the internal screw clockwise  to reduce and counter clockwise  to increase the flow rate.

SLOW OPENING



1. Flow rate adjustment
2. Rapid stroke adjustment
3. Opening time adjustment

Turn the screws clockwise  to reduce each setting and counter clockwise  to increase each setting.

The data is subject to change without notice.

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