Solenoid vent Valve series VSO

Solenoid Vent Valve series VSO normally open, 2 ways is applied as relief valve on gas trains.

The valve shut-off the flow when it is energized. The quite operation of the valve allows installation by residential and industrial application.

It is suitable for application for gases belonging to the first, second and third family and is manufactured in conformity to the European norms EN161 and regulation EU 2016/426.

TECHNICAL FEATURES

Valve boy	Die-cast aluminium
Thread connection	From Rp 1/2 to Rp 2 according to EN 10226
Flanged connection PN16	From DN25 to DN50 according to ISO 7005
Max inlet pressure	360 mbar, 1, 3 and 6 bar
Supply voltage	230V ac, 110V ac, 24V and 12V ac and dc
Enclosure	IP 65 -IEC 529
Ambient temperature	-20 ÷ +60° C
Valve class	0
Mechanical resistance	Group 2

FAETURES

- Normally open without energy
- Quick opening and closing operation
- Horizontal or vertical installation
- Limit switch (CPI) on request
- Special version for biogas on request

MODELS

VSO = Vent valve

Max pressure

3 = 360 mbar
10 = 1 bar
30 = 3 bar
60 = 6 bar

Nominal diameter

15 = Rp 1/2 "
20 = Rp 3/4"
25 = Rp 1"
32 = Rp 1.1/4 "
40 = Rp 1.1/2"
50 = Rp 2"

Supply voltage

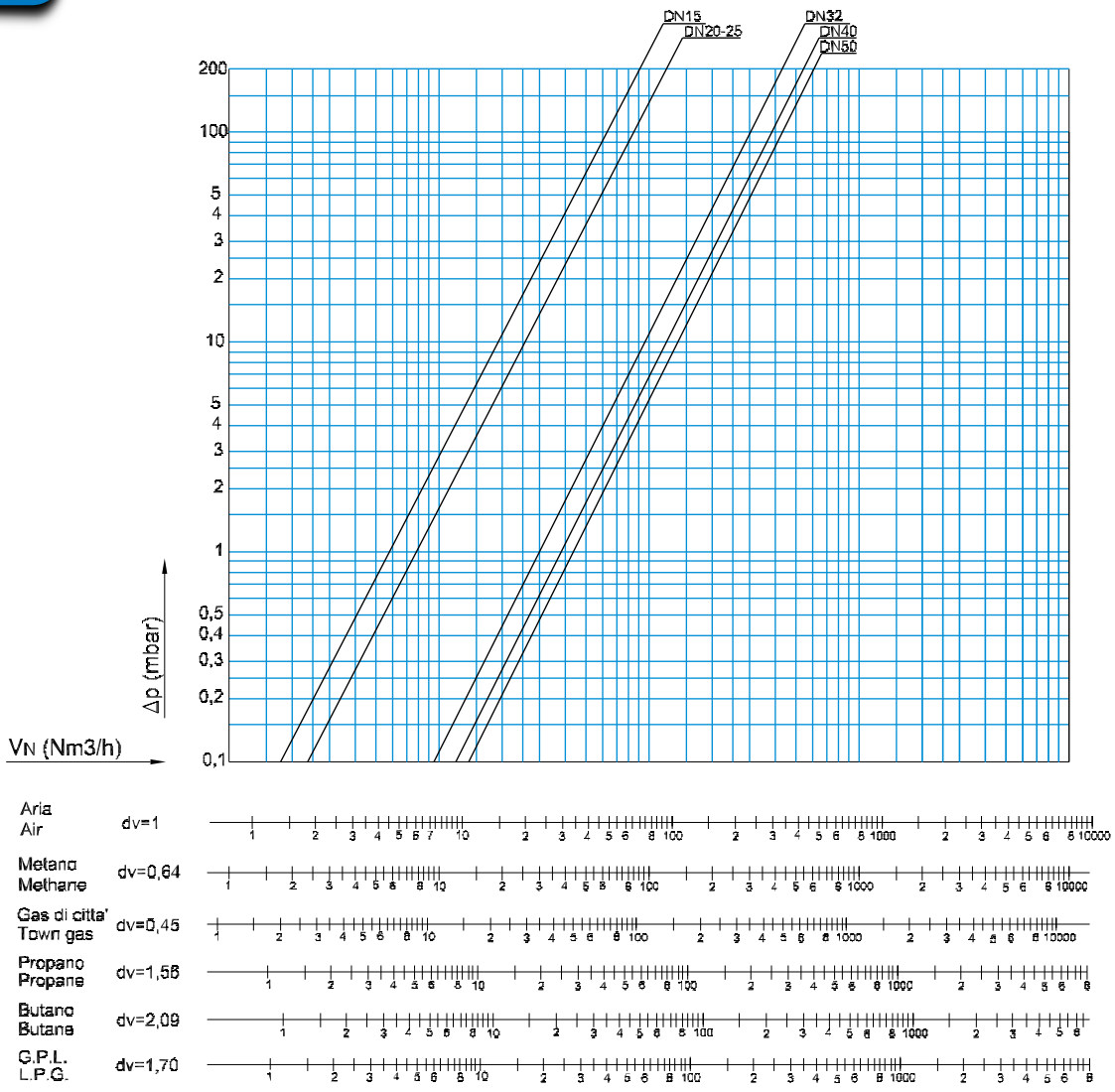
A = 24V ac 50 Hz
B = 110V 50-60 Hz
C = 230V 50-60 Hz
E = 24V dc
F = 12V dc
G = 12V ac 50 Hz

Accessories

I = Connettore con LED
M = Microinterruttore
F = Flangiato (solo DN25)
BG = Biogas

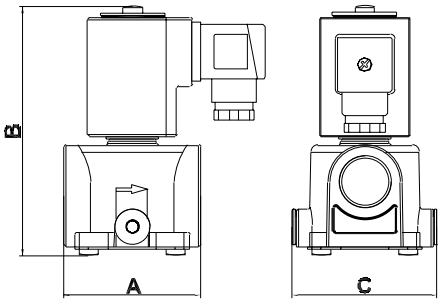
VSO	3	40	C	M

FLOW CHART

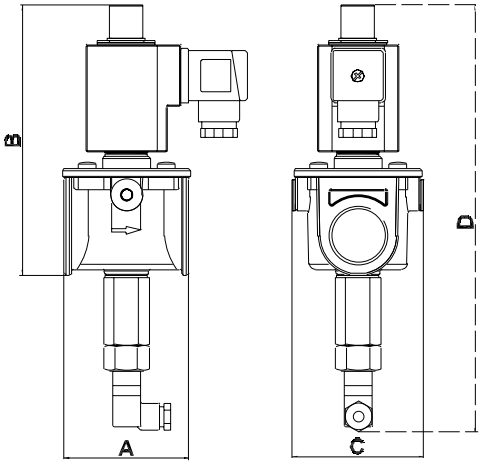


DIMENSIONS

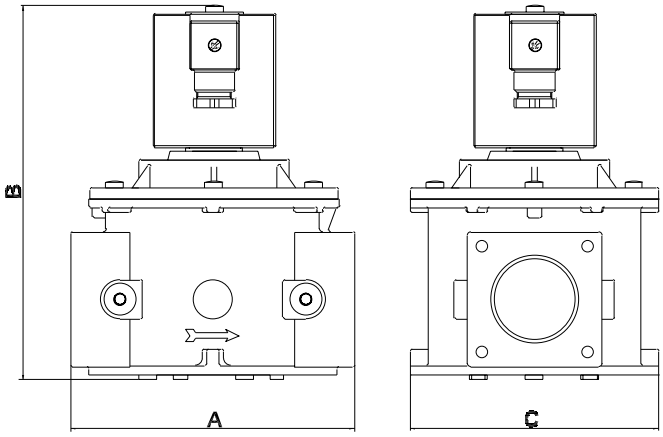
DN 15-20-25 360 mbar



DN 15-20-25 1-3-6 bar



DN 32-40-50 1-3-6 bar



Connections Rp	Max pressure (mbar)	Rating at 230 V (VA)	Dimensions (mm)				Weight (Kg)
			A	B	C	D	
1/2 - 3/4 - 1	360 mbar	17	70	130	74	218	0,90
	1 bar	17		152		240	0,90
	3 bar	28					1,00
	6 bar	28					1,00
1.1/4 - 1.1/2 - 2	1 bar	45	160	250	140	338	3,60
	3 bar	45					3,60
	6 bar	55					3,85

WARNING

Installation, adjustment and maintenance of the valve must be carried out exclusively by skilled and authorized service technicians. Non-proper installation, changes, use and maintenance may cause damages to the personnel or to the equipment. Consequently, it is necessary to respect strictly the following

INSTALLATION

- The gas supply must be shut off before installation.
- Check that the line pressure DOES NOT EXCEED the maximum pressure stated on the product label.
- The solenoid valve must be installed with the arrow (on the body) towards the user on gas pipe.
- It is necessary to install the solenoid valve in horizontal position (as in the installation example). It cannot be installed in vertical position or overturned.
- During installation take care not to allow debris or scraps of metal to enter the device.
- Check that the pipeline thread is not too long; overlong threads may damage the body of the device when screwed into place. Do not use the coil for leverage when screwing into position; use the appropriate tool.
- Always check that the system is gas-tight after installation.

ELECTRICAL CONNECTIONS

- Before making electrical connections, check that the mains voltage is the same as the power supply voltage stated on the product label.
- Disconnect the power supply before wiring.
- Wire the connector with H05RN-F 3X0.75mm² cable outside Ø from 6.2 a 8.1mm, taking care to ensure that the device has IP65 protection.
- Use cable terminals when wiring the connector.
- Connect the power supply to terminals 1 and 2 and the ground wire to terminal ⏚.

IMPORTANT: with tension 12V and 24V dc with energy saving observe the polarity. The coil is also suitable for permanent power supply. In case of continuous duty, it is absolutely normal for the coil to heat up. The coil should not be touched with bare hands after it has been continuously powered for more than 20 minutes. Before maintenance work, wait for the coil to cool or use suitable protective equipment.
In this case, with 12V and 24V dc power, you have to respect the polarity of the coil.

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