RELIEF VALVES

V Series





V/50 and V/60 Series Spring-Loaded Relief Valves

The spring-loaded relief valves are designed to keep line pressure below preset values. They are mounted downstream of regulators and perform the specific function of releasing small amounts of gas in the event of the regulator not closing perfectly.

Thanks to their effective release capacity and compact size, the V/ series relief valves are ideal for use in civil and industrial equipment.

The valves are extremely easy to install and are designed for ready and easy maintenance.

The V/50 and V/60 series relief valves are especially designed for use with low pressures.

Special care and attention has been given to their construction features in order to ensure a very low hysteresis value as well as maximum operation accuracy and sensitivity.

The main features are as follows:

- Easy installation and maintenance
- Release capacity
- Accuracy and sensitivity

Operation

Whenever gas pressure under diaphragm (D) is higher than the force exerted by spring (M), diaphragm is raised causing sleeve (O), which is integral with the diaphragm itself, to move and thereby open the release orifice.

In order to check the efficiency of the relief valve, pull up valve opening stem (S).

Valve setting is carried out by adjusting the compression of spring (M) through the appropriate ring (G).

Valve set point should generally be at an intermediate value between active regulator or monitor and slam-shut valve (if fitted) set points.

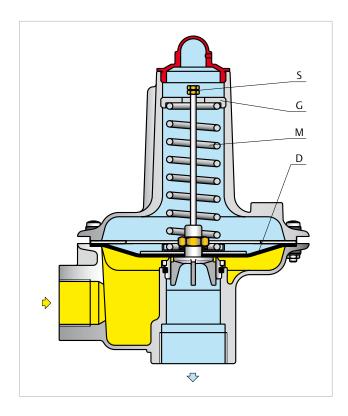
In all other cases, it is recommended that relief valve be set at a value at least 15% higher than the working pressure of the equipment.

Installation and Assembly

The relief valve is normally installed downstream of the regulator. Gas is released into the atmosphere at an appropriate height, according to effective standards.

Gas release pipe diameter must not be less that valve outlet pipe diameter.

Relief valve efficiency and performance are in no way affected by direction of installation.





Features

Applications

The relief valves V/50 and V/60 series can be used with natural gas, manufactured gas, air, propane and other gases, as long as they do not contain a high percentage of benzol.

Type

V/50 and V/60: for very low pressure applications V/51 and V/61: for low pressure applications V/52 and V/62: for middle pressure applications

Technical Features

V/50 Allowable pressure PS: 4 bar V/60 Allowable pressure PS: 2,5 bar

Туре	Set Range W _h bar	
V/50	0.025 ÷ 0.08	
V/51	0.075 ÷ 0.75	
V/52	0.70 ÷ 2.00	
V/60	0.025 ÷ 0.09	
V/61	0.08 ÷ 0.75	
V/62	0.70 ÷ 2.00	

Seat diameter

V/50 32 mm V/60 40 mm

Threaded connections

V/50 inlet - outlet 1" x 1 1/2" BSP V/60 inlet - outlet 1 1/2" x 2" BSP

Temperature

Standard version Working -10 °C +60 °C

Low temperature version Working -20 °C +60 °C

Materials

Body/Cover Aluminium Valve seat Brass

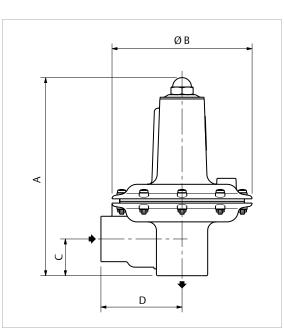
Diaphragm Fabric NBR nitrile rubber Gaskets NBR nitrile rubber

Dimensions (mm)

Туре	V/50	V/60
Α	236	258
В	164	198
С	43	70
D	95	110
Weight (Kg)	1.3	1.9

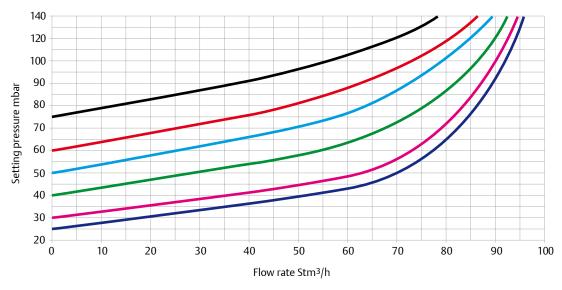




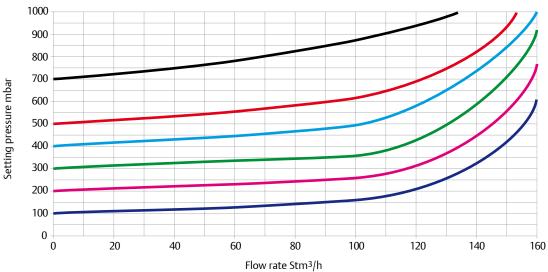


V/50 - V/51 - V/52 Flow Rate Curves

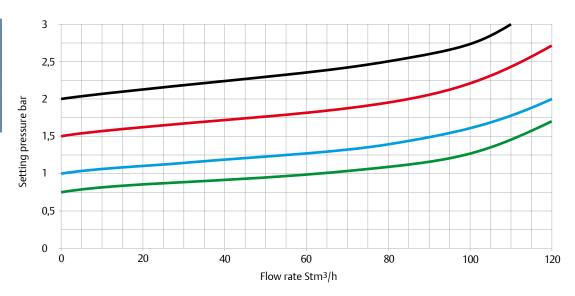




V/51

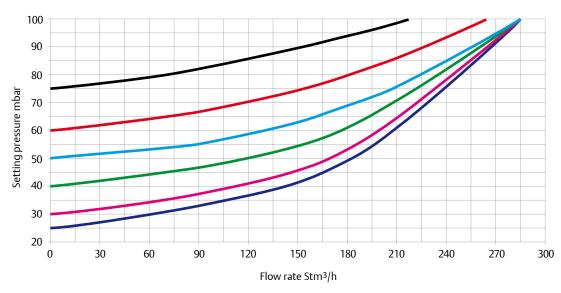


V/52

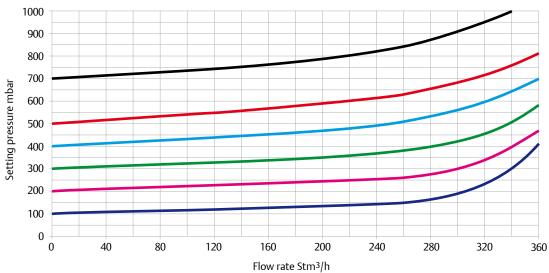


V/60 - V/61 - V/62 Flow Rate Curves

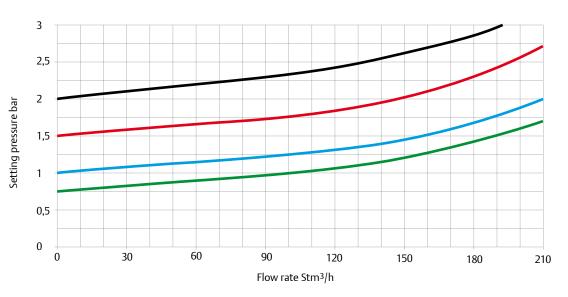




V/61



V/62



V/20-2 Model Spring-Loaded Relief Valves

The V/20-2 relief valves are designed for use at medium and high pressures and cover a wide range of setting values (1.5 to 40 bar). To change setting, simply replace the spring with the one appropriate for the desired value.

Operation

Whenever gas pressure under pad (O) is higher than the force exerted by spring (M) in the opposite direction, pad older device (P) is raised, thereby causing the release orifice to open.

Setting is carried out by adjusting the compression of spring (M) through the appropriate ring (G).

It is recommended that relief valve be set at a value at least 15% higher than the operating pressure of the station.

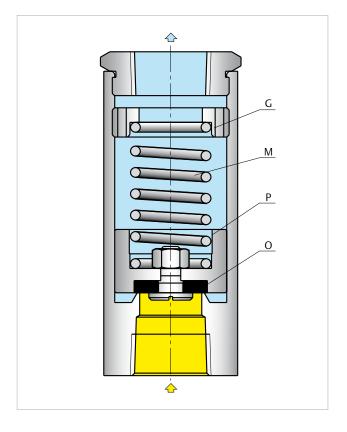
Installation and Assembly

The relief valve is normally installed downstream of the regulator.

Gas is released into the atmosphere at an appropriate height, according to effective standards.

Gas release pipe diameter must not be less that valve outlet pipe diameter.

Relief valve efficiency and performance are in no way affected by direction of installation.





Features

Applications

The relief valves V/20-2 can be used with natural gas, manufactured gas, air, propane and other gases, as long as they do not contain a high percentage of benzol.

Technical Features

Allowable pressure PS: 100 bar Set range W_h : 1.5 ÷ 40 bar

Seat diameter

25,4 mm (1")

Threaded connections

Inlet - outlet 1" NPT

Temperature

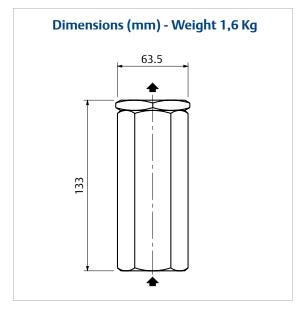
Standard version Working -10 °C +60 °C Low temperature version Working -20 °C +60 °C

Materials

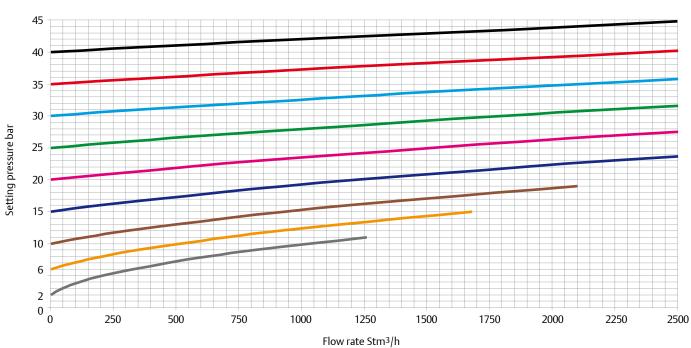
BodyBrassPad retainerBrassPad holderBrassAdjusting ringBrass

Pad NBR nitrile rubber

V/20-2



Flow Rate Curves



Natural Gas Technologies

Emerson Process Management Regulator Technologies, Inc.

Officina Meccanica Tartarini s.r.l.

Via P. Fabbri, 1

I - 40013 Castel Maggiore (Bologna), Italy

Tel.: +39 - 0514190611 Fax: +39 - 0514190715

E-mail: info.tartarini@emerson.com

Natural Gas Technologies

Emerson Process Management Regulator Technologies, Inc.

Francel S.A. Z.A. La Croix Saint Mathieu 28320 Gallardon

France

Tel: +33 (0)2 37 33 47 00 Fax: +33 (0)2 37 31 46 56

For further information visit www.emersonprocess.com/regulators

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