

Honeywell | Industrial & Commercial Thermal



Safety relief valves VSBV 25

Technical Information · GB 2 Edition 08 12L

- For gaseous media
- Inlet pressure range up to 4 bar
- Adjustable opening pressure 20 500 mbar
- EC type-tested and certified
- Certified by Gosstandart pursuant to GOST-TR



Contents

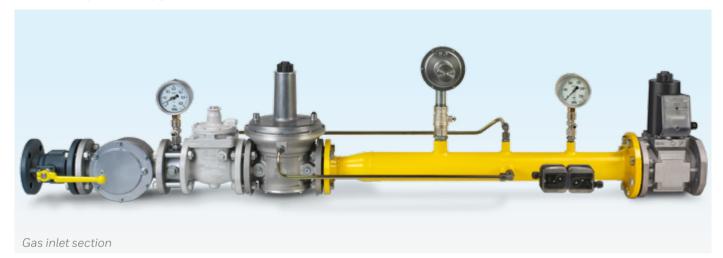
1 Application



Safety relief valve for relieving brief pressure surges in control systems thus preventing the safety shut-off valve JSAV from being activated unintentionally. The VSBV reduces too high a pressure increase due to gas creeps which are the result of gas pressure regulators that are not tight closing.

Compulsory for all gas pressure control systems in conjunction with a safety shut-off valve JSAV pursuant to EN 746-2.

1.1 Examples of application



2 Certification

EC type-tested and certified



pursuant to

Gas Appliances Directive (2009/142/EC) in conjunction with DIN 3381.

Approval for Russia



Certified by Gosstandart pursuant to GOST-TR.

Approved by Rostekhnadzor (RTN).

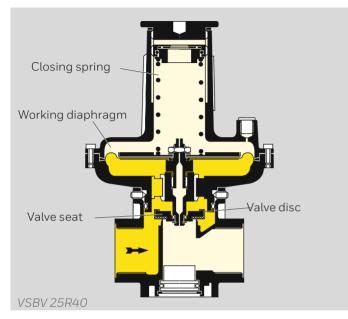
Scan of the approval for Russia (RUS) – see www. docuthek.com → Elster Kromschröder → Products → 02

Description of the second state of the second secon

Pressure regulators → Safety relief valve VSBV → Kind of document: Certificate → VG B00071 (nationales Zer-

tifikat Russland) (RUS)

3 Function

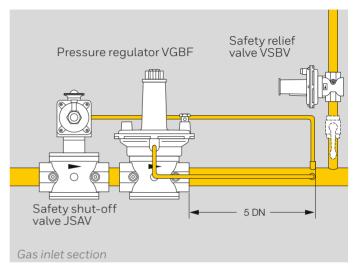


Safety relief valve VSBV is closed by a spring when no pressure is applied.

The gas flows through the inlet area to the space beneath the working diaphragm. If the inlet pressure reaches the pressure set by the closing spring, the diaphragm raises the valve disc from the valve seat. The safety relief valve opens and the gas can flow to the outlet.

If the inlet pressure has decreased due to the gas flowing out, the valve closes.

A test nipple has been installed to measure the inlet pressure $p_{\rm u}.$



Safety relief valve VSBV relieves pressure peaks thus preventing the safety shut-off valve JSAV from being activated unintentionally.

4 Selection

Safety relief valve VSBV is available in a single version.

Order example

VSBV 25R40-4

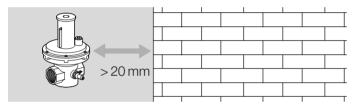
4.1 Type code

Code	Description
VSBV	Safety relief valve
25	Nominal size
R	Rp internal thread
40	p _{u max.} 4 bar
-4	Pressure test point at the inlet

5 Project planning information

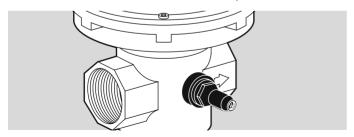
5.1 Installation

Installation position: for opening pressures up to 100 mbar, spring dome pointing vertically upwards or to the side, not upside down; for other opening pressures, any installation position is possible. If the spring dome is pointing to the side, the set opening pressure is reduced by 4 mbar; if the spring dome is pointing downwards, it is reduced by 8 mbar.



The safety relief valve VSBV must not be in contact with masonry. Minimum clearance 20 mm.

Do not store or install the unit in the open air.



The unit is delivered with a test nipple fitted to the side to measure the inlet pressure $p_{\rm u}$.

6 Technical data

Gas types: natural gas, town gas, landfill gas, LPG (gaseous) and biologically produced methane (max. 0.02 %-by-vol. H_2S). The gas must be dry in all temperature conditions and must not contain condensate.

Inlet pressure p_u : up to 4 bar.

Accuracy group: AG 10.

Ambient temperature: -15 to +60°C.

Storage temperature: -15 to +40°C.

Valve housing: aluminium,

valve seat and stem: aluminium,

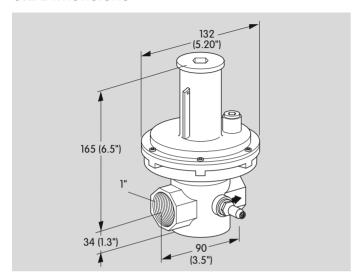
diaphragm: Perbunan,

valve disc: NBR.

Internal thread: Rp 1 to ISO 7-1.

Weight: 1.6 kg.

6.1 Dimensions



6.2 Data and spring table

Туре	Opening pressure range [mbar]	Spring marking	Order No.
	20 – 40	red	75441805
	35 – 50	yellow	75441806
VSBV 25R40-4	45 – 75	green	75441807
V3BV 23N40 4	70 – 170*	blue	75441808
	165 – 330	black	75441809
	320 – 500	white	75441810

^{*} Standard equipment

7 Maintenance cycles

At least once a year, at least twice a year in the case of biologically produced methane.

Feedback

Finally, we are offering you the opportunity to assess this "Technical Information (TI)" and to give us your opinion, so that we can improve our documents further and suit them to your needs.

Clarity

Found information quickly Searched for a long time Didn't find information What is missing?

Comprehension Coherent

Too complicated No answer

Scope

Too little Sufficient

Too wide No answer



No answer

Use

To get to know the product To choose a product Planning To look for information

Navigation

No answer

I can find my way around I aot "lost"

My scope of functions

Technical department

Sales

No answer

Remarks

Contact

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