



VS

Pressure relief valve 3/4" - 1"



VS Pressure relief valve

Contents

Description	
Functioning and application	
Technical specifications	
Flow capacity	5
Ordering information	5
Standards and approvals	

Description The VS type is a pressure relief valve designed to reduce temporary pressure surge in burning appliances. The shutting-off of automatic valves or non-tightly closing of regulators can cause pressure increase; by releasing that overpressure in a relief line, VS valve enables the system to work properly again.

FeaturesValve housing is made of aluminum alloy die-cast.Equipped with adjustable spring, so that relief pressure can be precisely set up on site.Pipe connections meet group 2.Designed for high relief flow.Suitable for use with air and non-aggressive gases included in the 1, 2 and 3 families (EN 437).Special versions for aggressive gases (like biogas or COG) are free of non-ferrous metals and provided with rubber part made of FKM (J version).Provided with pressure test points on two sides in the inlet chamber to connect manometers, pressure switches or other gas equipments.All components are designed to withstand any mechanical, chemical and thermal condition occurring during typical service. Effective impregnation and surface treatments are used to improve mechanical sturdiness, sealing and resistance to corrosion of components.Valves are 100% tested and fully warranted.



Functioning and application

In a relief valve inlet pressure acts on one side of a diaphragm, while on the other side there is a spring. Diaphragm is connected to the disc: when force of inlet pressure is higher than spring force, diaphragm moves and disc opens releasing gas in relief line. After discharging pressure surge, inlet pressure gets lower and disc closes again. Relief pressure can be set operating on the spring.

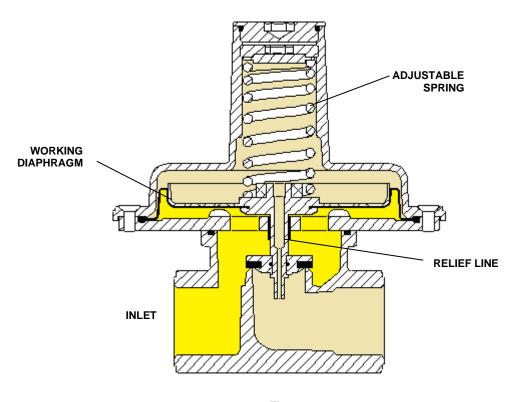
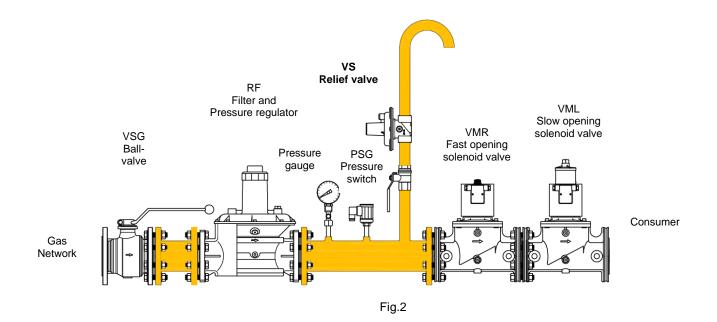


Fig.1

This device is usually installed in gas trains, industrial applications and gas firing systems. Figure 2 shows an example of installation in combination with other Elektrogas devices.





Technical specifications

Connections	Threaded F/F ISO 7-1 Rp3/4" or Rp1" or ANSI-ASME B1.20 3/4" NPT or 1" NPT										
	Inlet pressure points G	1/4 (ISO 228) or	1/4" NPT								
Ambient temperature	-15°C +60°C (+\$	5°F +140°F)									
Inlet - relief	Inlet pressure - max: 3 bar (45 psig)						Inlet pressure - max: 3 bar (45 psig)				
pressure	Spring colour	Neutral	Orange	Blau	Schwarz						
	Relief pressure (mbar)	45 - 150	85 - 190	150 - 450	400 - 1000						
	(psig)	0,65 – 2,15	1,25 – 2,75	2,2-6,5	6,0 - 15						
Discharge capacity	see charts										
Installation	Horizontal (with settable spring upward) or vertical pipeline.										
Gas type	Air, natural gas, town gas, LPG (gaseous) of families 1,2,3 (EN437).										
	On request special version	for biologically p	roduced methar	ne and COG.							
Weight	1.3 Kg										
Materials in contact with Gas	Aluminum alloy Brass Stainless steel Plated steel Polyamide Anaerobic adhesive Nitrile rubber (NBR) Polytetrafluoroethylene (PT	FE)									
Specifications of J version for Biogas or COG	Free of brass Seals made of Fluoroelasto Max inlet pressure: 1 bar (b Ambient temperature: -10 It is recommended to check before installation.	lack spring not a +60°C	vailable)	nd valve mater	rials						
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Fig.3 Overall dimensions in mm

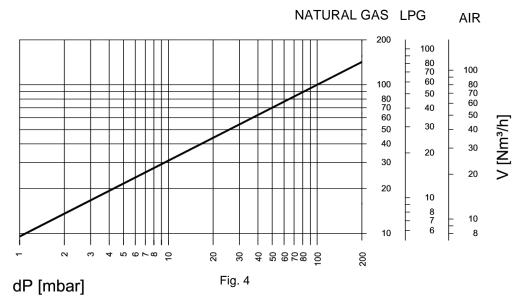
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Flow capacity

With inlet pressure at 115% of set pressure



Ordering Information

					Tab. 2
	VS	3	В	•	-
Valve type					
VS = relief valve					
Connections					
2 = Rp 3/4"					
2N = 3/4" NPT					
3 = Rp 1"					
3N = 1" NPT					
Relief pressure range					
A1 45 - 150 mbar					
A2 85 - 190 mbar					
B 150 - 450 mbar					
C 400 -1000 mbar					
Special version					
- standard					
.J = version for Bio- and coke gas					

Standards and approvals

The valves are designed and manufactured according to European Directive on Pressure Equipment 2014/68/EU (cert. PED/0497/3806/20 and PED/0497/2664/13).

Quality Management System is certified according to UNI EN ISO 9001 and the monitoring is carried out by the notified body Kiwa Cermet Italia Spa, Reg.-n° 11989-A

Elektrogas is a brand name of:

T-6 0

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The information in this document contains general descriptions of technical options available and based on current specifications.
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The company reserves the right to make changes in specifications and models as design improvements are introduced, without prior notice.