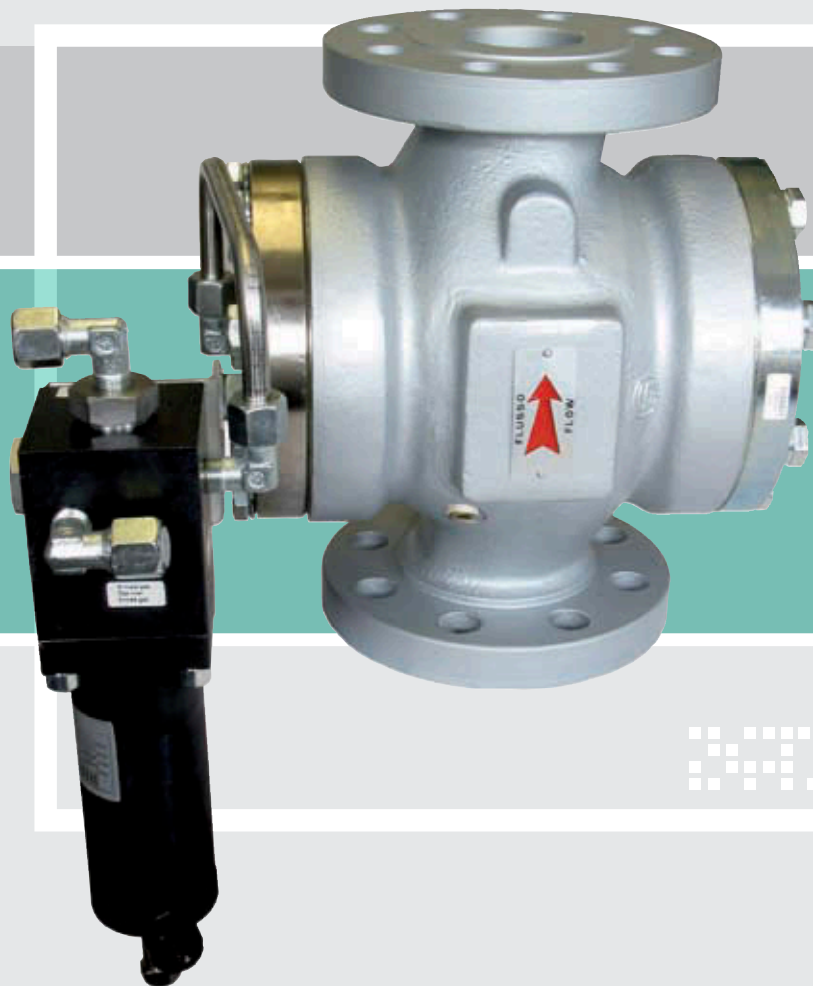




# PVS 782



Pilot-Operated  
Safety Relief Valve



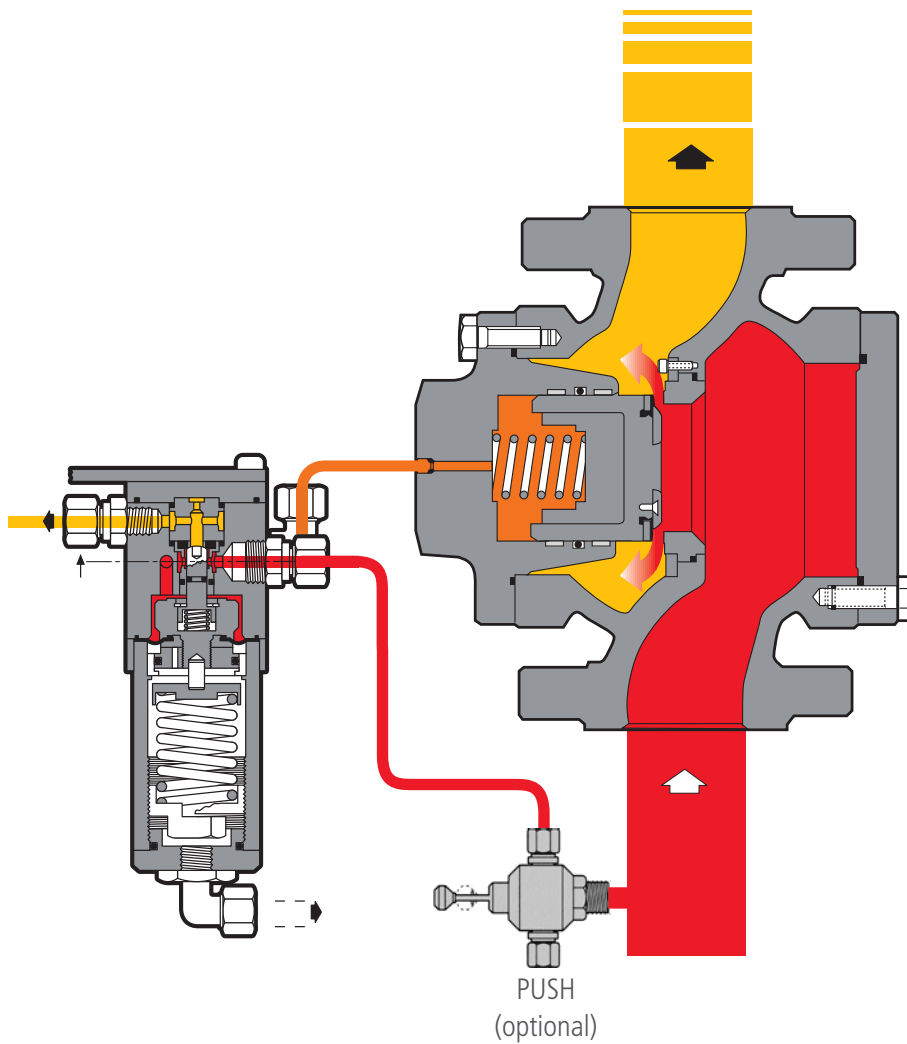
# PVS 782

> Pilot-operated safety relief valve



## Introduction

**PVS 782** type are pilot-operated relief valves in which the opening and the closing of the main plug are controlled by a pilot device very sensitive to the line pressure variations.



PVS 782

Fig.1

## Main Features

**PVS 782** is pilot operated relief valve ideal for all application where quick opening time and reliable reseating after opening are a must.

The **PVS 782** is a truly "Top Entry design" Wich allows an easy maintenance of parts directly on the field.

**PVS 782** is available in a wide size range and has a wide setting pressure possibilities throught two series of high accuracy make this valve an ideal product for the protection of gas system.



PVS 782

Designed  
With Your  
Needs In Mind

- Compact Design
- Easy Maintenance
- Top Entry
- Fast Response Time
- High Accuracy
- Low Operation Cost



## Main Features

- Design pressure: up to 18,9 - 51,66 - 102 bar (274 - 749,85 - 1479 Psi)
- Design temperature: -20 °C to +60 °C (-4 to + 140 °F)
- Ambient temperature: -20 °C to + 60 °C (-4 to + 140 °F)
- Accuracy class AG:  $\pm 2\%$
- Available size DN: 1" - 2" - 3" - 4" - 6" - 8"
- Flanging: class ANSI 150 - ANSI 300 - ANSI 600 PN 16/25 according to ISO 7005

## Materials

<b>Body</b>	Cast steel ASTM A216 WCB for class 150 Pn 16/25 Cast steel ASTM A352 LCC for class 300 and 600
<b>Plug</b>	Stainless steel X 30 CR 13 UNI 6900/71
<b>Seals</b>	Viton

The characteristics listed above are referred to standard products. Special characteristics and materials for specific applications may be supplied upon request.



# PVS 782



> Pilot-operated safety relief valve

**Table 2: Molecular mass and expansion coeff.**

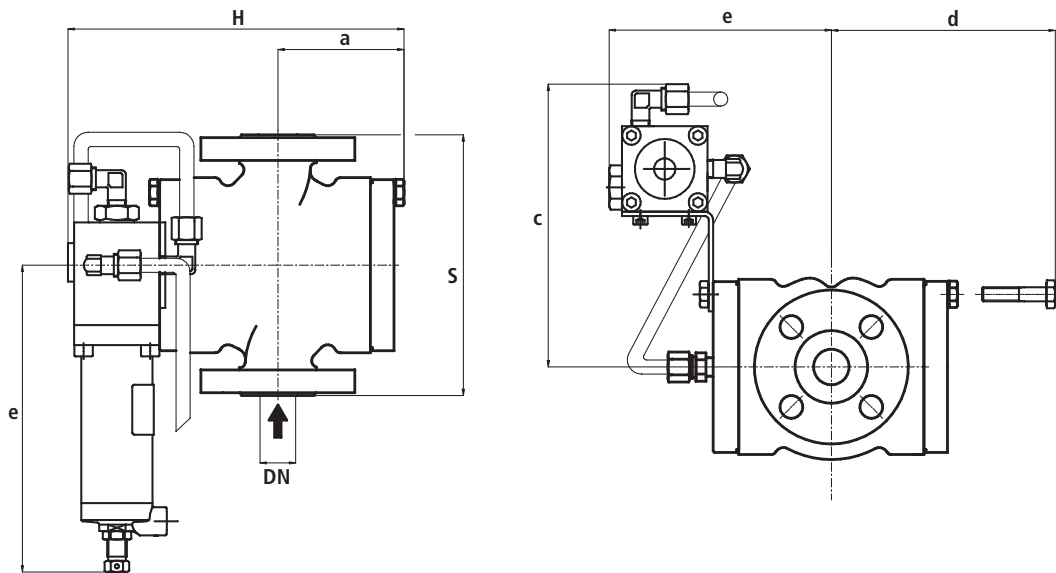
	Molecular mass M	Coefficient of expansion C
Relative density	28,97	0,685
Carbon dioxide	44,01	0,668
Hydrogen	2,02	0,686
Methane	16,04	0,669
Natural gas*	18,04	0,669
Nitrogen	28,02	0,685
Oxygen	32,00	0,685
Propane	44,09	0,635

\* Medium value

The table below indicates flow rate values for natural gas applicable to various valve sizes operating under different pressure. Temperature reference being 15°C and 1 barg.

**Table 3: Capacity table versus pressure**

Nominal diameter (mm)	25	50	80	100	150	200
Size	1"	2"	3"	4"	6"	8"
<b>2 barg</b>	332	2144	4604	7991	18043	27788
<b>10 barg</b>	1885	8016	17214	29881	67462	103894
<b>20 barg</b>	2472	15357	32976	57242	129235	199028
<b>30 barg</b>	5337	22697	48738	84603	191008	294161
<b>40 barg</b>	7063	30038	64500	111964	252781	389295
Flow rate (Kg/h)						



#### Overall dimensions in mm

Size (mm)	25	50	80	100	150	200
Inches	1"	2"	3"	4"	6"	8"
S - Ansi 150/PN 16	183	254	298	352	451	543
S - Ansi 300	197	267	317	368	473	568
S - Ansi 600	210	286	336	394	508	609
a	95	125	145	180	240	285
b	220	220	220	220	220	220
c	196	214	232	250	278	375
d	110	150	170	215	270	315
e	190	220	240	275	335	380
H	340	370	390	425	485	530

#### Weights in Kgf

ANSI 150/PN16	18	32	50	86	175	265
ANSI 300	19	34	54	91	185	280
ANSI 600	20	36	58	100	207	375

Face to face dimensions S according to IEC 534-3 and EN 334



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The data are not binding. We reserve the right to make eventual changes without prior notice.

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