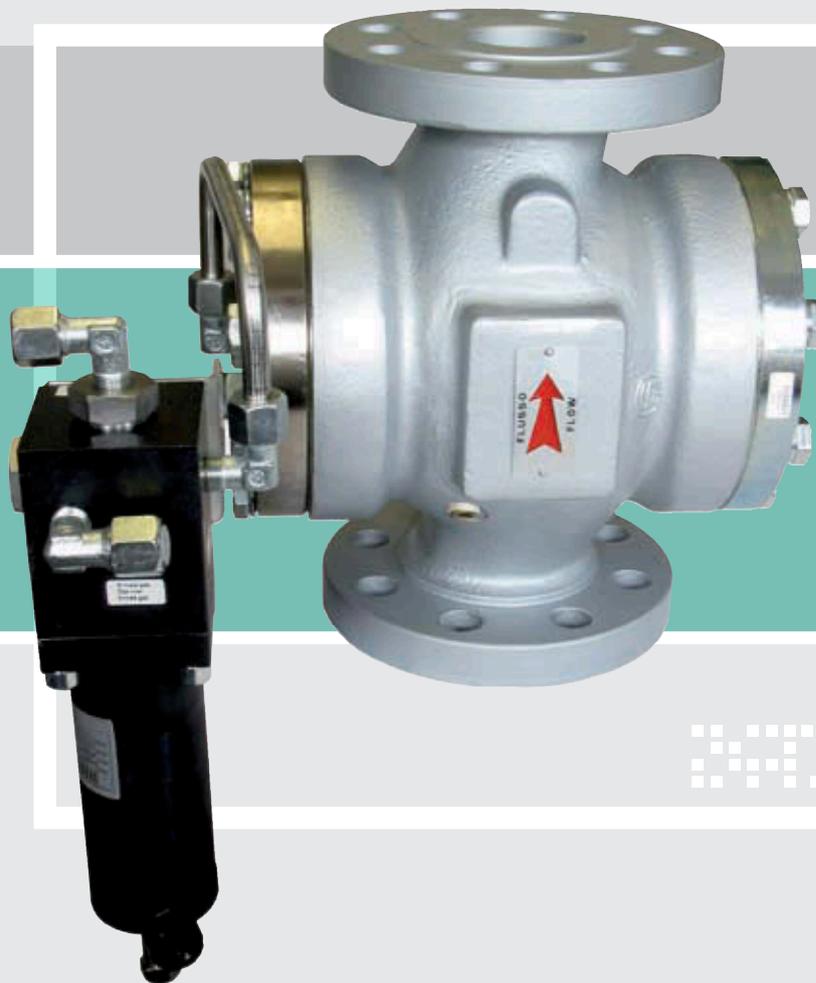




PVS 782



Pilot-Operated
Safety Relief Valve



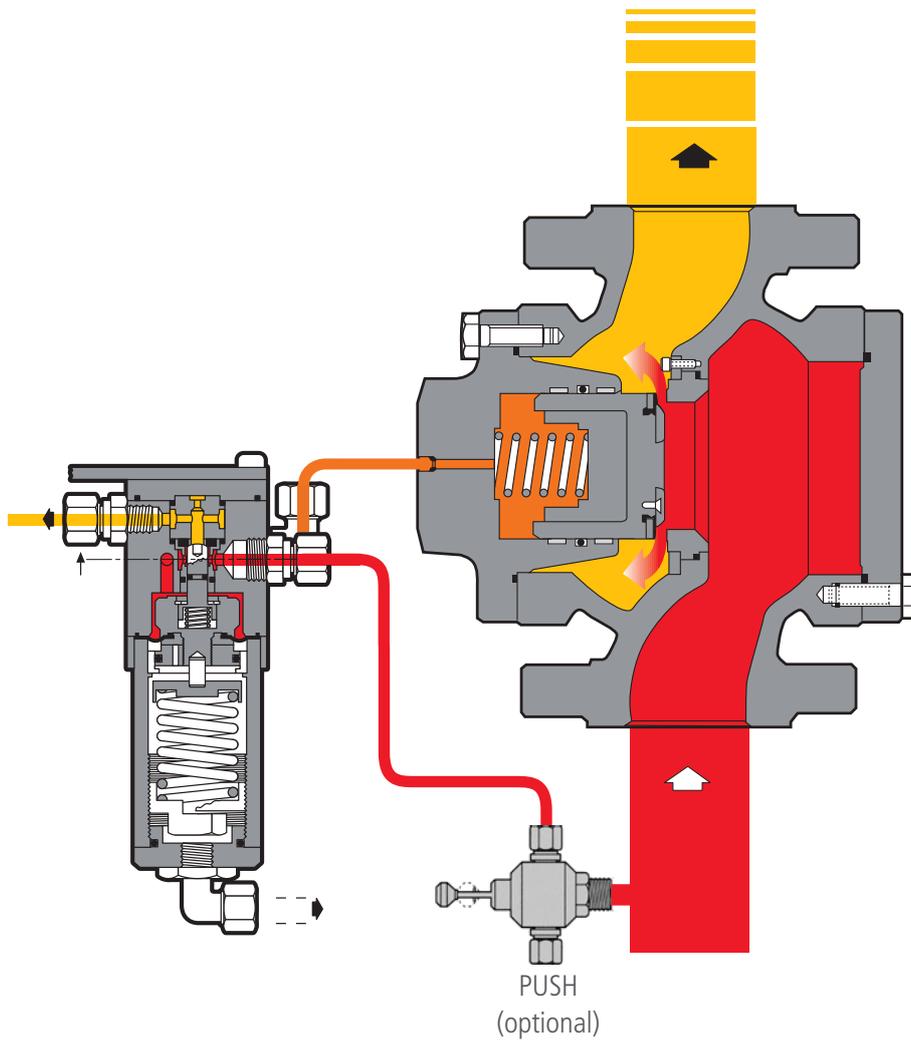
PVS 782

> 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

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

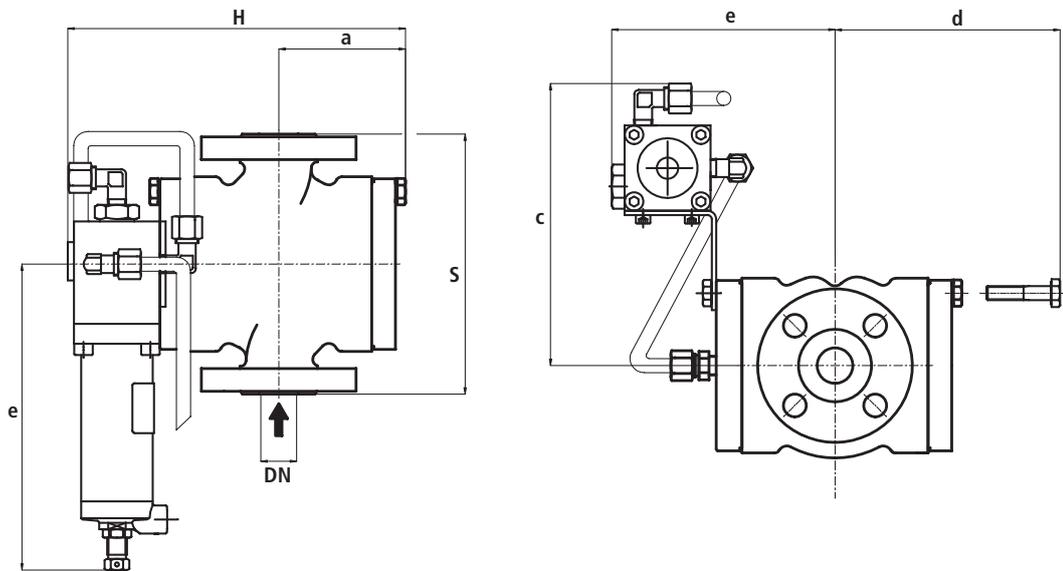
* Medium value

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"
2 barg	332	2144	4604	7991	18043	27788
10 barg	1885	8016	17214	29881	67462	103894
20 barg	2472	15357	32976	57242	129235	199028
30 barg	5337	22697	48738	84603	191008	294161
40 barg	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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