



PVS 803 Pilot-Operated Safety Relief Valves

PVS 803

Classification and application fields

The **PVS 803** is a servo actuated safety value in which the opening and closing of the value are controlled by a control device sensitive to pressure variations.

The **PVS 803** is a piloted-operated safety relief valves valve to be used in all applications where rapid opening and reliable repositioning after closure are essential.

It is Truly a **TOP ENTRY** design, which confers to the regulator management advantages, for example the ability to performs full maintenance without uninstalling it from the connection pipe.





Features

Operating Features:*

Maximum inlet pressure:	up to 1450 Psig (100 bar)
Opening start pressure:	10% max
Minimum environmental temperature:	Up to - 4°F (-20°C)
Maximum environmental temperature:	Up to 140°F (+60°C)
Inlet gas temperature:	Up to - 4°F + 140°F (-20°C +60°C)

Construction Features:

DN Nominal dimensions:	1" (25); 2" (50); 3" (80); 4" (100); 6" (150);
Flanged connections:	Class 150, 300, 600 according to EN1759-1 PN16, PN 50, PN
	100 according to ISO 7005

Materials: **

Body:	Steel ASTM A216WCB / ASTM A352LCC
Valve seat:	Stainless steel
Plug:	Steel ASTM A350LF2
Sealing ring:	Nitrile rubber / Fluorocarbon
Connection fittings:	In zinc-plated carbon steel according to DIN 2353;
	Stainless steel on request

Pilots:

The PVS 803 pilot-operated safety relief valves are, alternatively, equipped with the following pilots:

P16/M:	Action range 1.5-40 barg		
P17/M:	Action range 40-74 barg		

NOTE: * Different operating features available on request. ** The above materials refer to standard operations. Different materials can be provided for specific needs.

Sizing of the pilot-operated safety relief valves

In general, the sizing of the safety valve involves determining the pressure drop under given operating conditions through the valve itself, verifying that such pressure drop is compatible with the plant parameters specified in the request.





Typical connection diagrams

The following examples are provided as a recommendation to get the best performances from the pilot-operated pilot-operated safety relief valves **PVS 803**.

IN-LINE INSTALLATION



Fig.2

Recommended installations





Dimensions





Fig.5

Diameter [Inches]					
Millimetres	25	50	80	100	150
Inches	1"	2"	3"	4"	6"
S - Ansi 150/Pn16	7.2	10.0	11.7	13.9	17.8
S - Ansi 300	7.8	10.5	12.5	14.5	18.6
S - Ansi 600	8.3	11.3	13.2	15.5	20.0
Α	3.1	4.3	5.2	6.6	8.7
С	7.7	8.3	9.0	9.8	11.3
D	4.5	6.2	7.6	8.9	12.2
E	9.8	10.4	11.6	11.9	18.0
Н	13.2	15.2	17.3	18.9	27.4
					Tab.4

Dimension S according to EN 334 and IEC 534-3

Weights [lbs]					
Ansi 150/Pn16	40	75	139	243	282
Ansi 300	42	80	148	254	305
Ansi 600	44	84	157	278	353
					Tab.5

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



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