

# PVS 803

**PVS 803** by Pietro Fiorentini is one of the pilot-operated relief valves where the opening and the closing of the main plug is controlled by a pilot. Pilot operated relief valves are very responsive to the variations of the line pressures delivering high accuracy. Particularly suitable for high-pressure transmission systems and for medium pressure gas distribution networks, this device can be used with natural gas and previously treated, non corrosive gaseous fluids.



Gas compression /  
booster stations



Gas liquefaction



Gas storage



City gates



Gas reverse-flow



LNG marine  
transportation



Regasification



Power generation



Heavy industry



District stations

Features	Values
Design pressure*	up to 10.2 MPa up to 102 barg
Ambient temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature range*	from -20 °C to +60 °C from -4 °F to +140 °F
Available Accessories	Manual testing device (push)
Maximum over pressure accuracy	up to 10%
Range of relief	from 0.15 MPa to 7.5 MPa from 1.5 barg to 75 barg
Nominal dimensions DN	DN 25 / 1"; DN 50 / 2"; DN 80 / 3"; DN 100 / 4"; DN 150 / 6"
Connections*	ANSI 150, 300 and 600 according to ASME B16.5 and PN 16 according EN 1092
End to end dimensions	according to EN 334, EN 14382

**(\*) REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.**

**Table 1** Features

## Materials and Approvals

Part	Material
Body	Cast steel ASTM A 352 LCC for classes ANSI 300 and 600; Cast steel ASTM A 216 WCB for classes ANSI 150 and PN 16
Stem	AISI 416 stainless steel
Plug	Carbon steel + vulcanized rubber
Valve seat	Stainless steel
Sealing ring	Nitrile rubber
Compression fittings	Zinc-plated carbon steel according to DIN 2353; Stainless steel on request

**REMARK: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.**

**Table 2** Materials

**PVS 803** is a pilot operated safety valve designed according to ISO 4126-4. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



ISO 4126-4



PED-CE

## PVS 803 competitive advantages



Fast response time



Easy maintenance



High accuracy



Compact dimensions



Top Entry



Biomethane compatible and available with specific versions for full Hydrogen or blending



Manual testing device (optional)