

76 series

Full nozzle pilot operated pressure relief valve



76 series – Full nozzle POPRV

The 76 series pilot operated pressure relief valve has been developed on the base of the API STD body including a full nozzle. It meets the requirements of the ASME B&PV Code Section VIII.

The design includes an anti-seizing capability to prevent galling or sticking of internal components. Thus there is no unexpected shutdown or unplanned maintenance. This helps to improve the cost of product ownership.

The valve can include an option for remote control (for lift assistance and control).

The non-flowing pilot has separate sensing and feeding entries (the sensing area elastomers are protected due to the pressure remaining static).

The valve includes a full nozzle and metallic seat surfaces. Thus the leakage risk is minimised compared to a semi-nozzle design and this allows continuous operation.

The dimensions in between the flanges are the same of the API spring loaded valve. Therefore it allows for instance an end-user to solve chattering issues on a spring loaded valve because of upstream pressure drop or high back pressure.

ASME B&PVC Section VIII certified

The 76 series is a versatile pilot operated pressure relief valve. It is used in most of the heavy duty industries: oil & gas (upstream, midstream and downstream), power generation (conventional and nuclear), petrochemical, chemical, industrial gas processing.

The 76 series valve can either discharge gas, vapour, liquid, flashing liquid, steam, and dual phase.

Features

- ASME BPVC Section VIII certified
- Pop and modulating pilot
- Standard dimensions (API Std 526)
- Full nozzle
- Metal or soft seat
- Anti-seizing capabilities to prevent sticking
- Repeatable set pressure
- Disc hinge axis at seat level

Applications

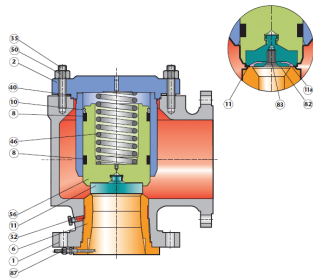
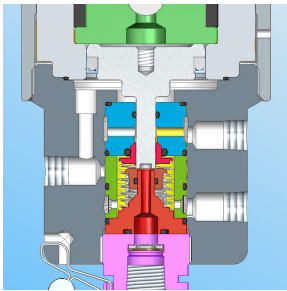
- All heavy duty processes
- Crude oil, vapour, gas
- Dual phase
- Cryogenics (LNG)
- Hot water, steam line (economiser)

Availability

- Body design based on the API Std 526 full nozzle spring load Body design is based on Starflow Spring Loaded PRV. It means the body design is based on API STD 526 Spring Loaded Table.
- Body casting from the Trillium foundry in one of the main European foundries (Portugal, France) based on the customer specifications.
- Valve produced and tested in France.

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Top : Pressure transmitter and buffer tank on the main valve

Middle : Pilot internals

Bottom : Standard main valve internals

Features

	VALUE
Pressure Class	Class: 150 to 2500
Body material	Low and high alloy steels, non ferrous steels (e.g. WCC/LCC/WC6/WC9/CF8M/Duplex/Alloy625/ Alloy C276)
Inlet size	1" to 12"
Orifice	D to W
Operating Temperature (Continuous use)	Up to 345°C
Tightness	% of Set P: 95
Max. Expected Operating Pressure	% of Set P: 95
Certified overpressure	% of Set P: 10

Certifications (French plant and products)

ASME Boiler & Pressure Vessel Code Section VIII (UV stamp)

PED 2014/68/UE (CE marking)

ATEX 94/9/EC

ISO 9001 - ISO 14001 - OHSAS 18001

SELO TS (Chinese permit of use)

TSSA / CRN (Canadian permit of use)

EAC TR CU 010 - EAC TR CU 012 - EAC TR CU 032 (Eurasian Economic Union)

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