

74 series

Low pressure pilot operated pressure relief valve



ASME B&PVC Section VIII compliant

The 74 series is a versatile pilot operated pressure relief valve. It is used in most of the LNG or LPG Carriers, LNG FPSO, Cargo tank

74 series – Full bore POPRV

The 74 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.

74VP/LP Series are primarily design for use with LNG or LPG Carriers. 2 designs types are available.

- 74VP Series (Very Low Pressure) diaphragm type is mainly used to protect onboard LNG Vessel. Its pressure range can start @ 70 mbarg in cryogenic condition and @ 15 mbarg in standard application up to 250 mbarg.
- 74LP Series (Low Pressure) diaphragm type is mainly used to protect onboard LNG Vessel for higher pressure (up to 2 barg).

78LP Series are piston type primarily design for use with LPG Vessels at a higher pressure.

Features

- ASME BPVC Section VIII certified
- Flowing pilot
- Semi nozzle
- Flowing pilot, better in extreme temperature
- Bubble tight very close to set point
- High accuracy / Stable near set point even in case of vibration
- Full capacity at 10% overpressure
- Set pressure verification with field test
- Balanced against backpressure
- Pop or Modulating action in one pilot

Applications

- Cryogenics

Availability

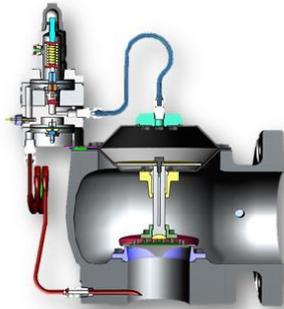
- Body casting from the Trillium foundry in one of the main European foundries (Portugal, France) based on the customer specifications.
- Valve produced and tested in France.

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Features



Top : Pressure transmitter and buffer tank on the main valve

Middle : Pilot internals

Bottom : Standard main valve internals

	VALUE
Pressure Class	Class: 150 & 300
Body material	SA216 Gr. WCC; SA352 Gr. LCC; SA351 Gr. CF8M
Inlet size	2" to 14"
Orifice	50mm to 350mm
Operating Temperature (Continuous use)	15 to 2 barg (standard) 70 to 250 mbarg (cryogenic)
Operating Temperature (Continuous use)	(- 40 °C + 120°C) (standard) (- 196 °C + 120°C) (cryogenic)
Tightness	% of Set P: 95
Max. Expected Operating Pressure	% of Set P: 95
Certified overpressure	% of Set P: 10 (ASME VIII)

Certifications (French plant and products)

ASME BPVC section VIII (above 1.03 barg)

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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