

BITHERM

Intelligent Trap Valve Station ITVS-T25 and ITVS-G25

25 bar
1/2" - 3/4"

DESCRIPTION

TVS incorporates following mechanical elements: upstream and downstream piston valves, by-pass with blow-off valve, vent with needle valve, vent / test with blow-off valve, bithermostatic bimetallic steam trap, balance pressure valve, external adjusting device whiles running and connections for temperature ultrasound, pressure, backpressure and sensors.

If initially TVS is installed then adding Smartwatch electronic remote monitoring system TVS becomes ITVS reducing cost of future monitoring.

The innovative SmartWatchWeb remote monitoring technology maximizes energy efficiency, reducing greenhouse gas emissions. On tracing applications ITVS reduces 2 - 2,4% oil refining costs.

ITVS punctually detects steam leaks, low efficiency and operative troubles alarming remotely to users for urgent correction.

Its robust bithermostatic bimetallic element and needle balance presure valve duplicates lasting life. The external adjusting device hugely reduces maintenance costs by allowing repairs without stopping service and without any spare parts.

Bithermostatic steam trap supports any mounting position because of its guided balance pressure valve, which withstand up to 99% backpressure.

BiTherm TVS can be used with any steam trap with universal connector warranting compatibility with any steam trap manufacturer.

Finally, ITVS-T/G25 is unsealed construction, that way users never need to replace the whole steam trap, but only repair it, wath most of times only requires turn the external adjunting device.

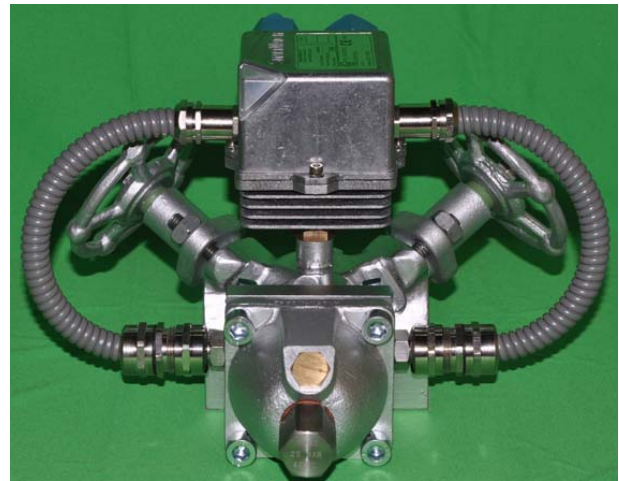
CONNECTIONS AND SIZES

SW and NPT: 1/2", 3/4"

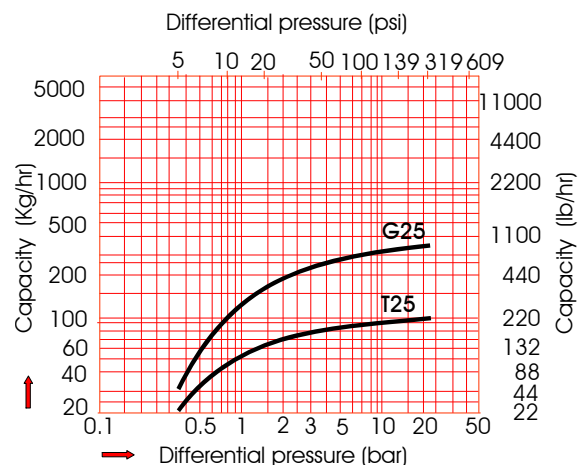
Dimensions full compatible with other TVS's.

RANGE OF APPLICATION

Maximum differential presssure 25 bar
Maximum operation temperature 400 °C



CAPACITY CHART



Capacity on continuous regime; on start up is 2,5 higher

MATERIALS

Body and cover	Forged steel ASTM A105
Seat	Stainless steel AISI 420 (*)
Cone Valve	Stainless steel e AISI 440B (*)
Bimetals	St. steel. 38/7NiCr 19/7NiCr
Piston valves	Stainless steel AISI 304
Bolts/Nuts	ASTM A193 B16 / A193 B7
Gaskets	Graphite / Stainless steel

(*) Optional: Titanium Nitride (TiN). Hardness 84HRC

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PURGADORES DE CONDENSADO, S.L

Condesa de Venadito, 16, 11° C28027 - MADRID (Spain)

Phone: + 34 91 404 8087

Fax: + 34 91404 4875 email: purgasa@bitherm.com