

TRAP VALVE STATION 2PV WITH BLOWDOWN VALVE TVS-2PV-XX (DN 15 - 20 / DN 1/2" - 3/4")

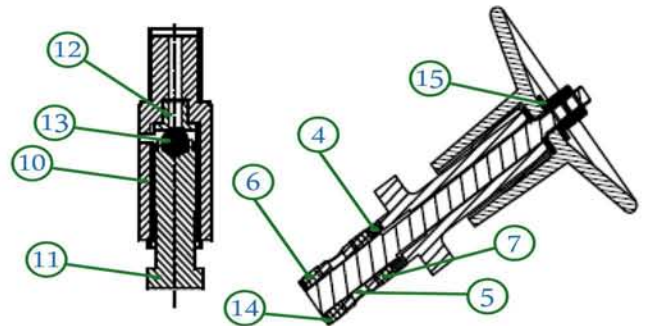
General Description

Bitherm TVS is a compact combination of valves and a trap performing all the functions of steam trap module, permitting discharge of condensate as well as maintenance when required.

Steam traps with universal connector can be fitted to a Bitherm TVS.



Materials



Components

The TVS main components are:

- TVS Body.
- Upstream isolating piston valve.
- Downstream isolating piston valve.
- By-pass ball valve (Blowdown valve).
- Test ball valve.
- Vent ball valve (optional)

Operating conditions

Max. Pressure Amb. Temp.:	51.1 bar
Max. Pressure 400°C:	34.7 bar
Max. Temperature:	400°C

TVS Body Rating 300#

Connections

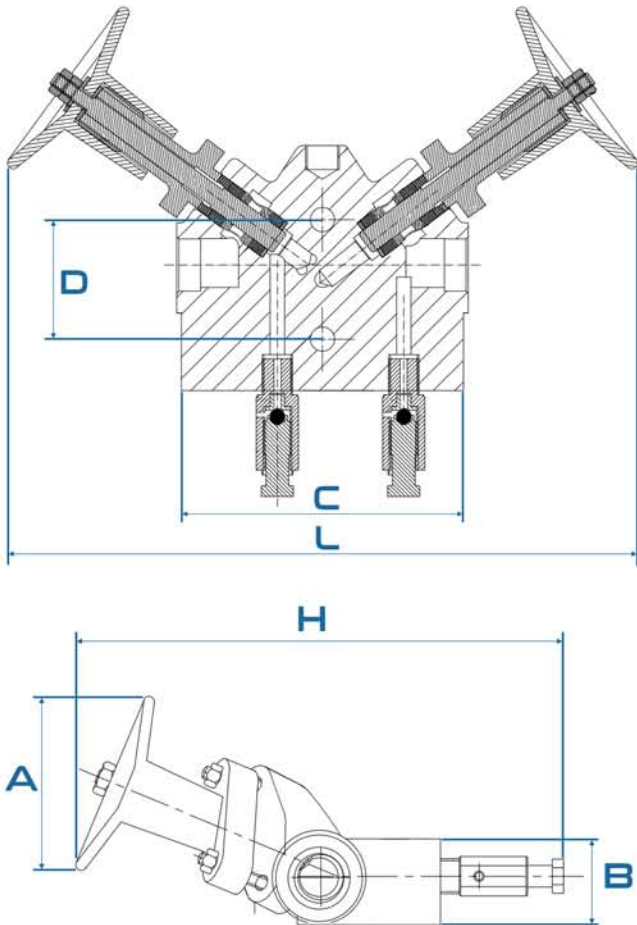
- Socket Weld: 1/2", 3/4".
- Other connections upon request.

Materials

1 Body	ASTM A105
2 Bonnet	ASTM A105
3 Hand wheel	ASTM A216 WCB
4 Integral piston	ASTM A276 TP 410
5 Lantern bush	ASTM A276 TP 410
6 Lower valve ring	KLINGER STD.
7 Upper valve ring	KLINGER STD.
8 Bonnet nut M8	ASTM A194 Gr. 2H
9 Stud	ASTM A193 Gr. B7
10 Blow down body	ASTM A182 F316
11 Blow down screw	ASTM A182 F316
12 Blow down seat	S.Steel 410
13 Steel ball	Stainless Steel
14 Belleville washer	Spring S. A240 Gr.302
15 Plain washer	Spring Steel 304
16 Hand wheel nut	Stainless Steel 316

TRAP VALVE STATION 2PV WITH BLOWDOWN VALVE - TVS-2PV-XX

Dimensions



H (mm)	212
L (mm)	290
A (mm)	120
B (mm)	35
C (mm)	122
D (mm)	50

Approximate weight: 4,5Kg

Other characteristics

Bitherm TVS can be remotely monitored by SmartWatchWeb system in order to detect anomalies during operation, such as external or internal leaks, condensate discharge temperature, pressure and backpressure problems in order to improve the energy efficiency of the installation.

Benefetis of TVS

Bitherm TVS has the following advantages in comparison to a conventional trap module:

- Ease of installation.
- Quick attachment & detachment of universal steam trap.
- Testing trap online.
- Bypass when trap is being attending.
- Ease of depressurization.
- Compact and rugged.

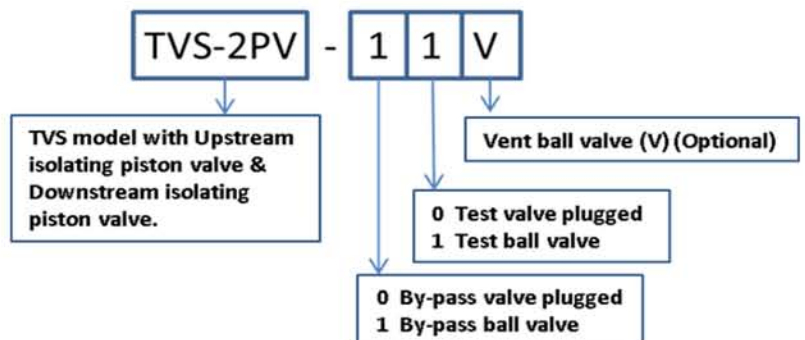
Spare parts



Spare parts list:

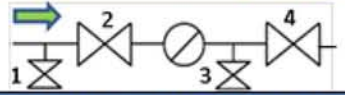
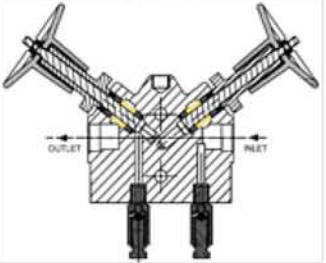
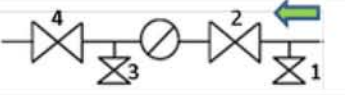
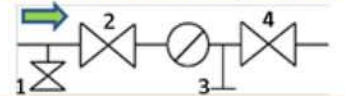
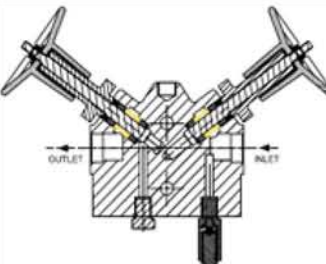
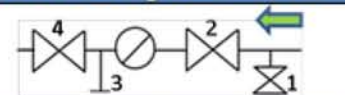
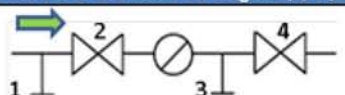
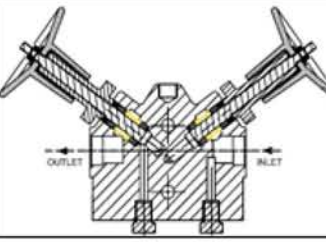
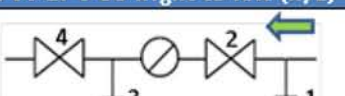
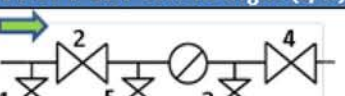
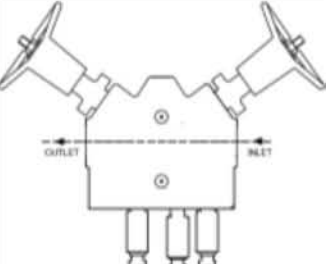


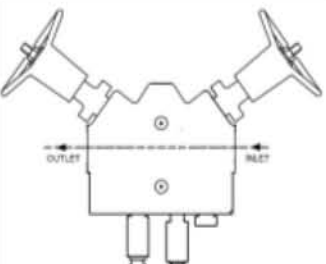

- Integral piston Kit.
- Blowdown piston valve

How to order



TRAP VALVE STATION 2PV WITH BLOWDOWN VALVE - TVS-2P-XX

Configuration

Description	Flow direction	Figure
TVS-2PV-11 1. By-pass ball valve. 2. Upstream isolating piston valve. 3. Test ball valve. 4. Downstream isolating piston valve.	TVS-2PV-11 Left to Right (L/R) 	
	TVS-2PV-11 Right to left (R/L) 	
TVS-2PV-10 1. By-pass ball valve. 2. Upstream isolating piston valve. 3. Test valve plugged. 4. Downstream isolating piston valve.	TVS-2PV-10 Left to Right (L/R) 	
	TVS-2PV-10 Right to left (R/L) 	
TVS-2PV-00 1. By-pass valve plugged. 2. Upstream isolating piston valve. 3. Test valve plugged. 4. Downstream isolating piston valve.	TVS-2PV-00 Left to Right (L/R) 	
	TVS-2PV-00 Right to left (R/L) 	
TVS-2PV-11V 1. By-pass ball valve. 2. Upstream isolating piston valve. 3. Test ball valve. 4. Downstream isolating piston valve. 5. Vent ball valve (optional).	TVS-2PV-11V Left to Right (L/R) 	
	TVS-2PV-11V Right to Left (R/L) 	
TVS-2PV-01V 1. By-pass valve plugged. 2. Upstream isolating piston valve. 3. Test ball valve. 4. Downstream isolating piston valve. 5. Vent ball valve (optional).	TVS-2PV-01V Left to Right (L/R) 	
	TVS-2PV-01V Right to Left (R/L) 	

Produced in accordance with Article 4.3 del PED - European Pressure Equipment Directive - PED 2014/68/EU.
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For more information please visit web www.bitherm-sistemas.com or contact your Bitherm's distributor.