



TVS-5000 Trap Valve Station



TVS-5000 – Armstrong Trap Valve Station

Armstrong **TVS-5000** is designed as a one-piece body equipped with piston valve(s) combined with a removable steam trap (inverted bucket, thermostatic bimetallic or capsule, float & thermostatic, controlled disc type) mounted with a connecting flange.

The compact design of the **TVS-5000** allows quick and easy steam trap test and/or replacement.

The **TVS-5000** functions provide the benefits of space and cost savings, leakage prevention and easy maintenance.

Armstrong **TVS-5000** is available with ½" - ¾" NPT, BSPT and SW connections.

Pressure / Temperature Rating:

Pressures and capacities (depending on the steam trap mounted on the Trap Valve Station)

- Maximum Allowable Pressure: 45 barg
- Maximum Allowable Temperature: 315°C
- Maximum Operating Pressure: 45 barg
- Maximum Hydrostatic Pressure: 68 barg

Flow Direction: Right to Left
Left to Right

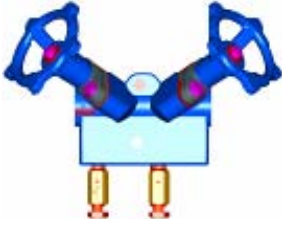
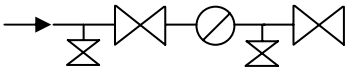
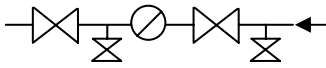

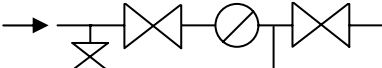
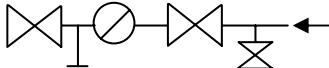
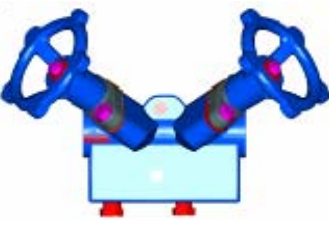
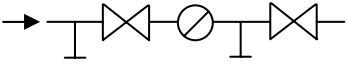
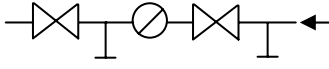
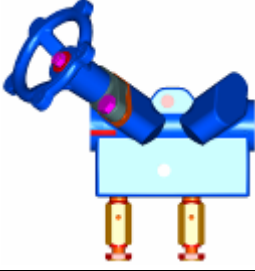
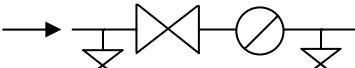
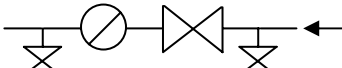

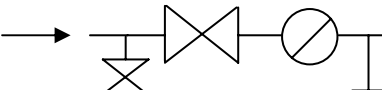
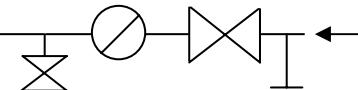

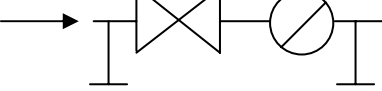
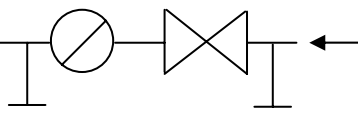
Table 1-1. Materials

Body	ASTM A350 LF2
Handwheel	Ductile Iron A536
Bonnet	ASTM A350 LF2
Bolts	DIN 933
Valve Plugs	ASTM A564
Lantern Bushings	ASTM A582 T304
Valve Rings	Graphite & Stn. Steel
Valve Washer	ASTM A582 T304
Disc Springs	AISI T301
Nut	AISI T304
Blowdown valve ASSY	ASTM A582 T303
Test Valve ASSY	
Gasket area	SS304 layer

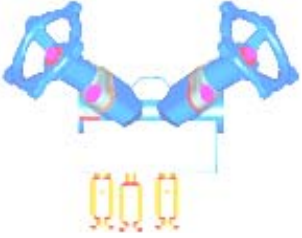
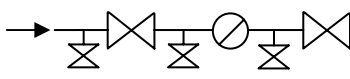
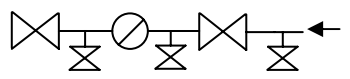
Available configurations

Model	Size	Connection	Flow	Upstream Isolating	Downstream Isolating	BD valve	Test valve	Option DPV
5211	1/2 or 3/4	SW or NPT	LR or RL	Y	Y	Y	Y	N
5210	1/2 or 3/4	SW or NPT	LR or RL	Y	Y	Y	N	N
5200	1/2 or 3/4	SW or NPT	LR or RL	Y	Y	N	N	N
5111	1/2 or 3/4	SW or NPT	LR or RL	Y	N	Y	Y	N
5110	1/2 or 3/4	SW or NPT	LR or RL	Y	N	Y	N	N
5100	1/2 or 3/4	SW or NPT	LR or RL	Y	N	N	N	N

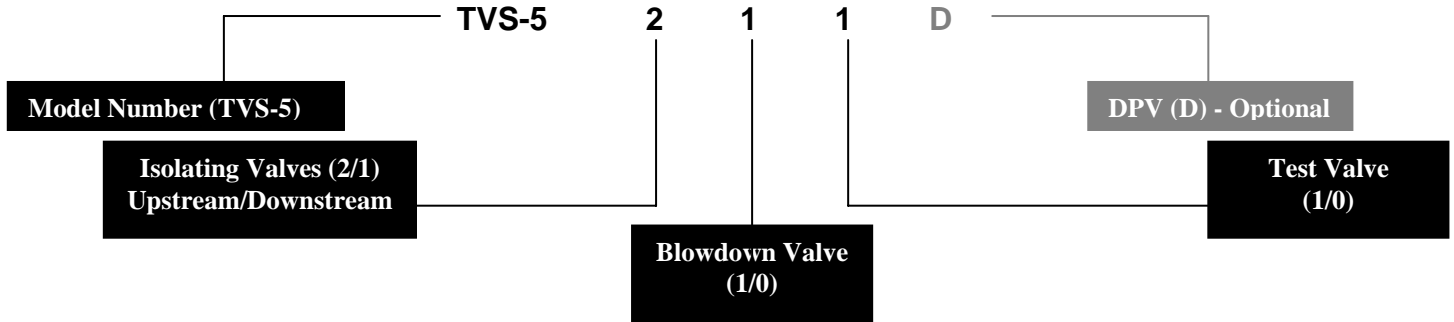
Note: All models available with DPV option on request – Models 5210, 5200, 5110, 5100 are delivered with 1/4" plug LF2.

Figures show "left to right" configuration	Flow Direction Left to Right	Flow Direction Right to left	Configuration
	TVS-5211 L/R 	TVS-5211 R/L 	1 Upstream isolating piston valve 1 Downstream isolating piston valve 1 Blowdown valve 1 Test valve
	TVS-5210 L/R 	TVS-5210 R/L 	1 Upstream isolating piston valve 1 Downstream isolating piston valve 1 Blowdown valve 1 Test valve plugged
	TVS-5200 L/R 	TVS-5200 R/L 	1 Upstream isolating piston valve 1 Downstream isolation piston valve 1 Blowdown valve plugged 1 Test valve plugged
	TVS-5111 L/R 	TVS-5111 R/L 	1 Upstream isolating piston valve 1 Blowdown valve 1 Test valve
	TVS-5110 L/R 	TVS-5110 R/L 	1 Upstream isolating piston valve 1 Blowdown valve 1 Test valve plugged
	TVS-5100 L/R 	TVS-5100 R/L 	1 Upstream isolating piston valve 1 Blowdown valve plugged 1 Test valve plugged

Option On Request

	<p style="text-align: center;">TVS-5211D L/R</p> 	<p style="text-align: center;">TVS-5211D R/L</p> 	<ul style="list-style-type: none"> 1 Upstream isolating piston valve 1 Downstream isolating piston valve 1 Blowdown valve 1 Test valve 1 DPV
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

How to Order



Various Armstrong steam traps can be fitted to suit most applications

Inverted bucket steam trap – 2000 Series¹



Float and Thermostatic Steam Trap
FT-4000 Series



Bimetallic steam trap – AB-3000 or WMT-3000



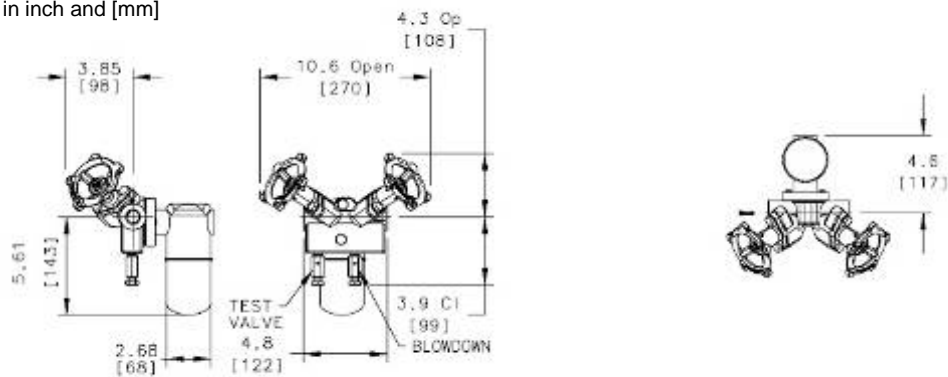
Controlled Disc Steam Trap
CD-3000 Series



¹ 2000 series showed with universal connector. Universal connector unnecessary if steam trap mounted on TVS-5000.

Dimensions - Model 2011 mounted on the TVS-5211

All dimensions in inch and [mm]



Weight in kg – Model TVS-5211

3 kg 660

Protection coating

TVS-5000 is painted in black high temperature resistant silicon paint.



All dimensions and weights are approximate. Use certified drawings for exact dimensions. Design and materials are subject to change without notice.



ARMSTRONG INTERNATIONAL SA

Parc Industriel des Hauts-Sarts, 2^{ème} Avenue, B-4040 Herstal, BELGIUM

Tel: +32/4/240.90.90 – Fax: +32/4/240.40.33

e-mail: info@armstronginternational.eu – www.armstronginternational.eu