



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 1/2" - 3/4" 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

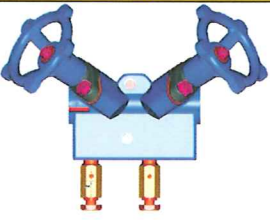
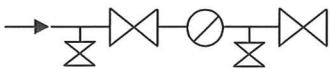
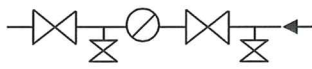
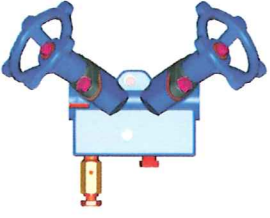
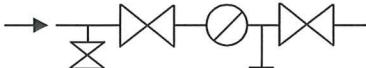
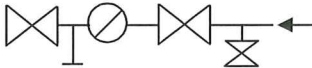
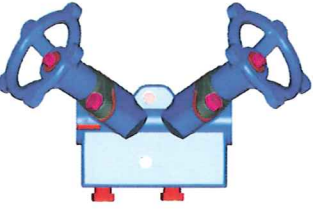
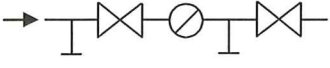
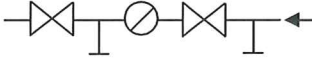
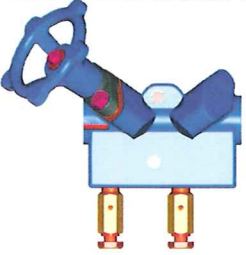
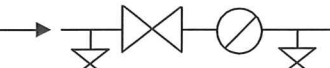
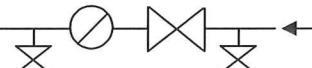
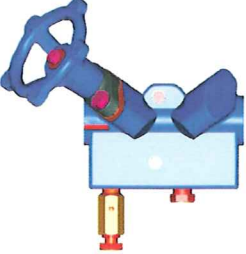

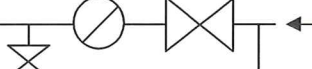
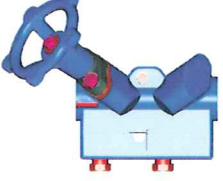


Table 1-1. Materials

| | |
|----------------------------|-----------------------|
| 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 |

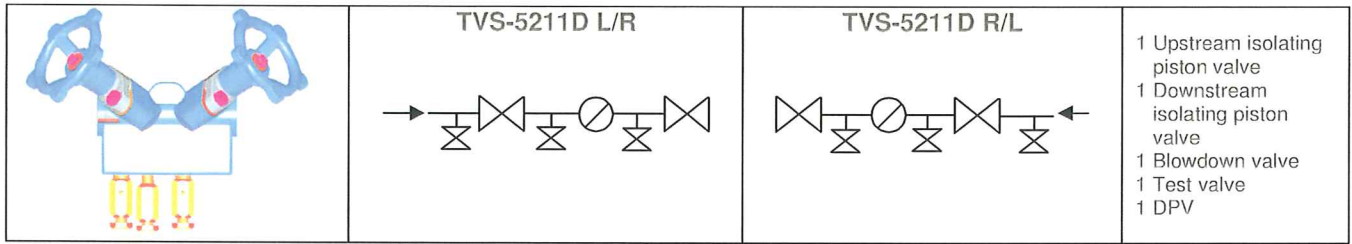
Available configurations

| 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 |

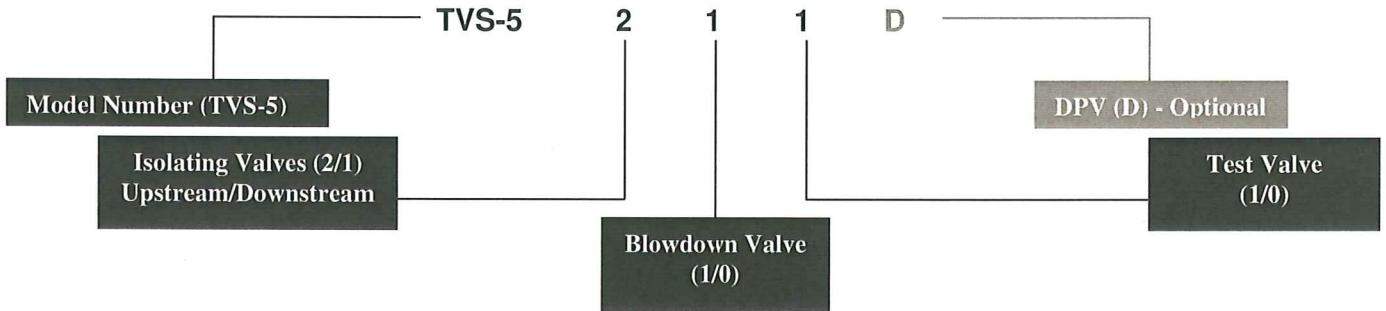
Note: All models available with DPV option on request – Models 5210, 5200, 5110, 5100 are delivered with 1/4" plug LF2.

| Figures show "right to left" 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



How to Order



Various Armstrong steam traps can be fitted to suit most applications

Inverted bucket steam trap – 2000 Series¹



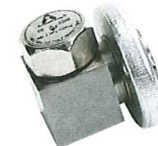
Float and Thermostatic Steam Trap
FT-4000 Series



Bimetallic steam trap – AB-3000
or WMT-3000



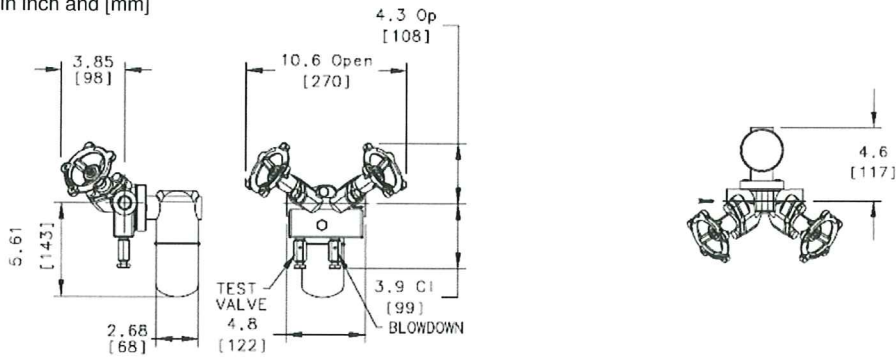
Controlled Disc Steam Trap
CD-3000 Series



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]

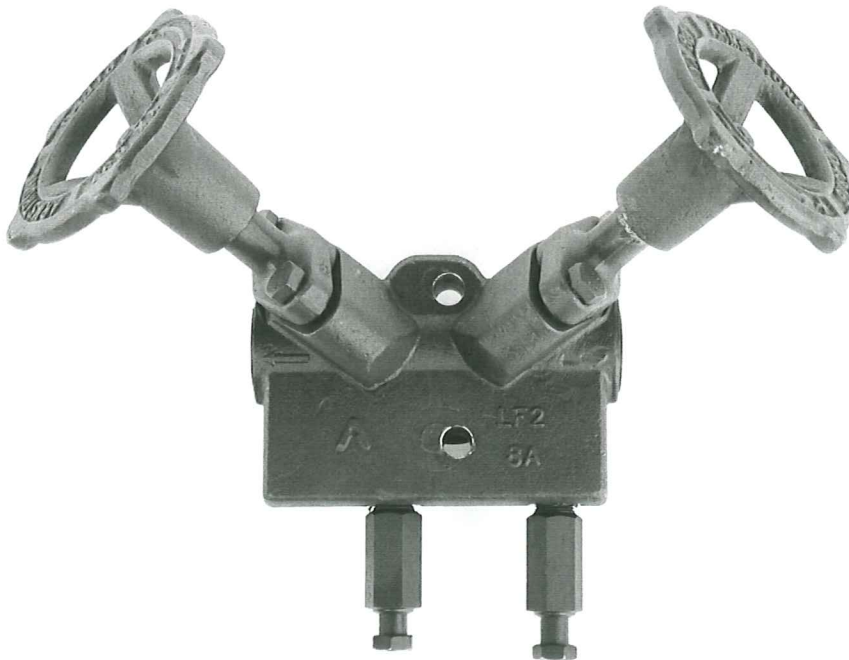


Weight in kg – Model TVS-5211

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.



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