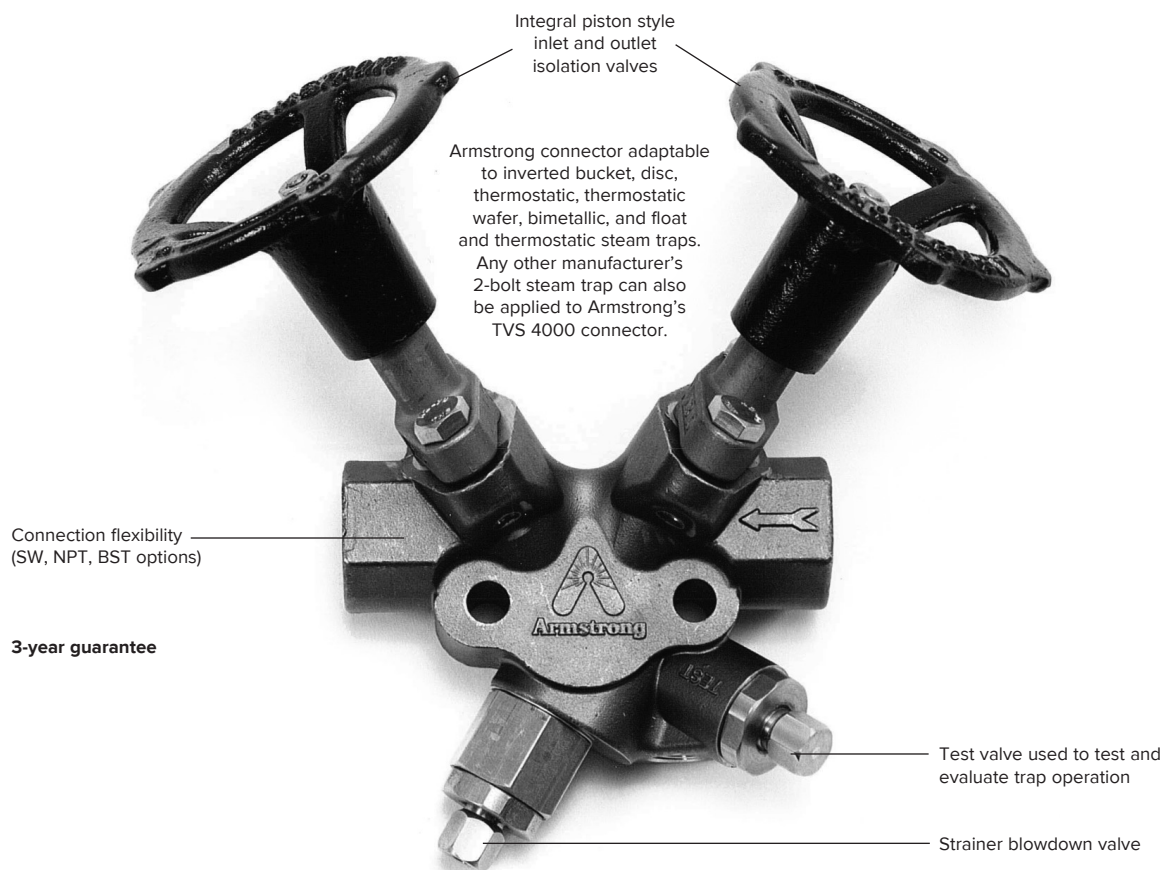


TVS 4000 Series Stainless Steel Trap Valve Station



Description

Same principle. Different package with two piston-style isolation valves, test valve and integral stainless steel strainer with blowdown valve. What you'll find new are all the benefits of a piston valve integrated into the same space-saving package.

Maximum Operating Conditions

Maximum allowable pressure:
830 psig (57.2 barg) @ 800°F (427°C)

Materials—TVS 4000 Connector

Connector:	ASTM A351 Gr. CF8M
Strainer screen:	Stainless steel
Test valve:	Stainless steel
Blowdown valve:	Stainless steel

Isolation Valve Components

All wetted parts:	Stainless steel
Valve sealing rings:	Graphite and stainless steel
Handwheel:	Ductile iron or CF8M

Weight

6-1/2 lb (2.9 kg)

How to Order

Model	Connection	Type of Connection Inlet/Outlet	Flow Direction	Trap Type
TVS 4000	1/2" 3/4"	NPT SW BSPT Flanged*	R = Right to Left L = Left to Right	Inverted Bucket Disc Thermostatic wafer Bimetallic Float and Thermostatic

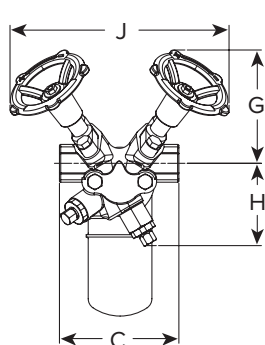
*Consult factory.

U.S. Patent 6,467,503

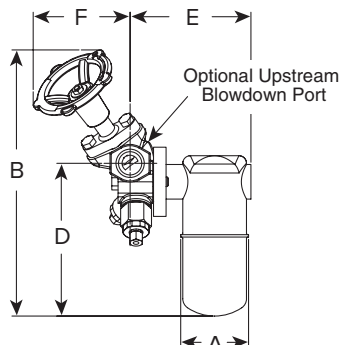
Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.

TVS 4000 Series Stainless Steel Trap Valve Station

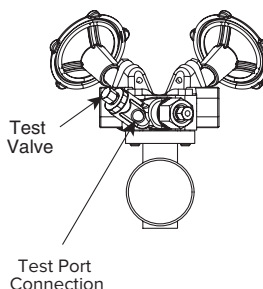
For Pressures to 830 psig (57.2 barg)...Capacities to 1 300 lb/hr (590 kg/hr) (Using 2000 Series Inverted Bucket Steam Traps)



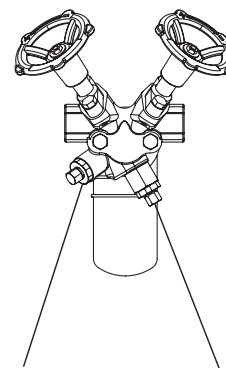
**Model TVS 4000 With
2000 Series SS Trap**
Front View



**Model TVS 4000
With 2000 Series
SS Trap**
Side View



**Model TVS 4000
With 2000 Series SS
Trap**
Bottom View



Test Valve
Used to test and
evaluate trap
operation

**Strainer
Blowdown Valve**

Same principle. Different package with two piston-style isolation valves, test valve and integral stainless steel strainer with blowdown valve. Now the energy-saving performance and reliability of the inverted bucket steam trap are available in a versatile new package. You'll still enjoy all the familiar benefits. And the same efficient condensate drainage from virtually every kind of steam-using equipment. What you'll find new are all the benefits of a piston valve integrated into the same space-saving package.

Materials—TVS 4000 Connector

Connector:	ASTM A351 Gr. CF8M
Strainer screen:	Stainless steel
Screen retainer:	Stainless steel
Gasket:	Stainless steel
Retainer unit:	Stainless steel
Test valve:	Stainless steel
Blowdown valve:	Stainless steel

Isolation Valve Components

Handwheel:	Ductile iron or CF8M
Nut:	Stainless steel
Stem, washers:	Stainless steel
Bonnet:	ASTM A351 Gr. CF8M
Bonnet, bolts:	DIN 933, Gr. A2 Class 70 per DIN 267
Valve plug:	Stainless steel
Disc springs:	Stainless steel
Valve sealing rings:	Graphite and stainless steel
Lantern bushing:	Stainless steel
Valve washers:	Stainless steel

Materials—Series 2000 Traps

Body:	ASTM A240 Gr. 304L
Internals:	All stainless steel—304
Valve and seat:	Stainless steel—17-4PH

TVS 4000 Series With 2000 Series Inverted Bucket Steam Trap						
Model No.	2010		2011		2022	
	in	mm	in	mm	in	mm
Pipe Connections	3/8, 1/2, 3/4	10, 15, 20	1/2, 3/4	15, 20	1/2, 3/4	15, 20
“A” Trap Diameter	2-11/16	68	2-11/16	68	3-7/8	98
“B” Height (Valve Open)	8	203	10-1/2	268	12-1/2	318
“C” Face to Face	4-3/4	120	4-3/4	120	4-3/4	120
“D” Connection \varnothing to Bottom	4-3/4	120	6	154	8	203
“E” Connection \varnothing to Outside of Trap	4-1/2	114	4-13/16	122	5-7/8	149
“F” Connection \varnothing to Front of Handwheel (Valve Open)	3-1/2	89	3-7/8	98	3-7/8	98
“G” Connection \varnothing to Top of Handwheel (Valve Open)	3-1/4	83	4-1/2	114	4-1/2	114
“H” Connection \varnothing to Bottom of Connector	1-7/8	47	3-1/4	83	3-1/4	83
“J” Width Across Handwheels (Valve Open)	9-1/4	235	8-3/4	222	8-3/4	222
Test Port Connection	1/4 NPT	6	1/4 NPT	6	1/4 NPT	6
Weight lb (kg)	9	4	9-1/2	4.3	12	5.4
Maximum Operating Pressure (Trap)	200 psig (14 barg)		400 psig (28 barg)		650 psig (45 barg)	
Maximum Operating Conditions (Connector)	830 psig (57.2 barg) @ 800°F (427°C) 1400 psig (96.5 barg) @ 100°F (38°C)					
Maximum Allowable Pressure (Trap)	400 psig (28 barg) @ 750°F (399°C)				650 psig @ 600°F (45 barg @ 315°C)	

U.S. Patent 6,467,503