

Combination Steam Trap Testing & Blocking Ball Valves

Models:

S251 1-Piece Seal-Weld Body Design

Standard Port:

1/2"-1"

Class 300 LB

Stainless Steel - 720 psi WOG Carbon Steel - 740 psi WOG

Steam Rated:

250 WSP @ 406°F

Standard Product Numbers for 1pc Body \$251:

S251-SS-YGG-O

S251-CS-YGG-O

Design Features

- Visual Steam Trap Test Provides a quick visual check of steam trap discharge.
- Eliminates the need for separate blocking and test valves in steam trap installations.
- Can be used to sample fluids or gases from process lines
- Gasket located ahead of body cap threads to ensure a tight seal and protect threads from flow media.
- Seal-welded body joint for additional external leak protection.
- Compact body and oval handle facilitate installation and operation in tight spaces.
- Vent port (threaded) allows safe diversion of test/blowout discharge.
- Safety Locking Handles
- ISO 5211 mounting pad for easy installation of stem extensions for line insulation.





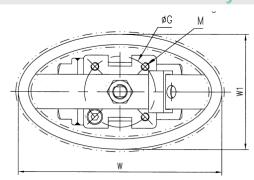
\$251 with standard oval handle 1 pc Body

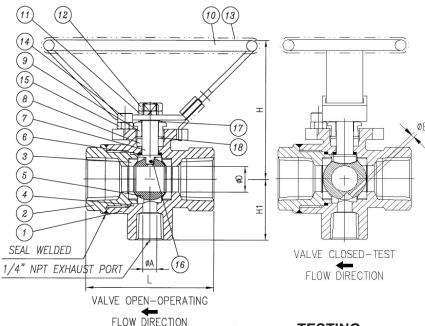


- Blowout-proof stem.
- Complies with ASME B16.34 and EN 12516-1 standards.
- NPT threads comply with ASME B1.20.1.
- Adjustable stem packing.
- Shell wall tested to 1110 PSI.
- Corrosion-resistant black phosphate coating
- Anti-static grounding.
- Pressure-balanced ball design.

Simplify steam trap testing with Flo-Tite test valves — a compact, safe solution that eliminates the need for bulky tees, extra fittings, and multiple valves. Instantly validate steam trap performance with ease!

CSTTBV S251 - 1PC Body





TESTING

All valves are factory tested in both the open and closed positions to verify seat and seal integrity. Seats are tested with 100 psi air per MSS-SP-72, submerged in water. Body testing is done with water at 1110 psi per ASME B16.34.

Dimensions and Weights

SIZE	ØD	L	ØG	Н	Н1	W	W1	ØA	М	ØB
1/2"	0.49	2.48	1.42	2.41	1.14	3.58	2.20	0.28	M5	0.08
3/4"	0.59	2.85	1.42	2.59	1.23	3.58	2.20	0.28	M5	0.12
1"	0.79	3.11	1.42	2.71	1.72	3.58	2.20	0.28	M5	0.14

Bill of Materials

No.	Parts	S251-SS	S251-CS	Qty
1	Body	ASTM A351 CF8M	ASTM A216 WCB	1
2	End Cap	ASTM A351 CF8M	ASTM A216 WCB	1
3	Seats	Super-Tek III	Super-Tek III	2
4	Gasket	Graphite	Graphite	1
5	Ball	ASTM A351 CF8M	ASTM A351 CF8M	1
6	Thrust Washer	RPTFE (25% CARBON)	RPTFE (25% CARBON)	1
7	Stem	ASTM A276-316	ASTM A276-316	1
8	Stem Packing	GRAPHITE	GRAPHITE	1
9	Gland	SS304	SS304	1
10	Handle	SS304	SS304	1
11	Handle Washer	SS304	SS304	1
12	Handle Nut	SS304	SS304	1
13	Handle Cover	PVC	PVC	1
14	Stop Screw	SS304	Carbon Steel	1
15	Nut	SS304	Carbon Steel	1
16	Anti-Static Device	SS316	SS316	1
17	Anti-Static Spring	SS301	SS301	1
18	Packing Protector	RPTFE (25% Carbon)	RPTFE (25% Carbon)	1

TRACEABILITY:

FOUNDRY HEAT # FOR ALL VALVES

THREADED ENDS ANSI B1.20.1 NPT

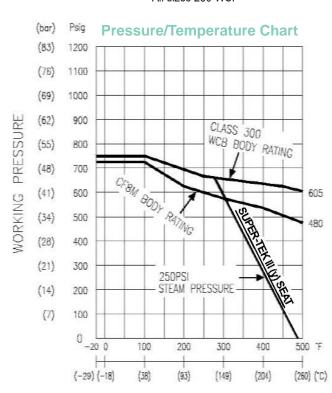
BSP Threaded Available, C/F MODELS S251-SS Stainless Steel S251 -CS Carbon Steel

ailable, C/F SIZE Range 1/2" thru 1"
ASME Class 300 Lb

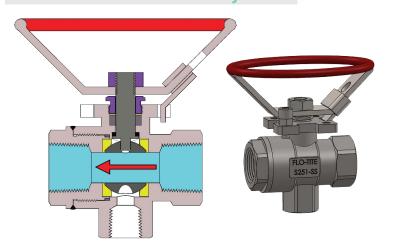
ALSO AVAILABLE: Stem Extension

720 WOG (CF8M) 740 WOG (WCB)

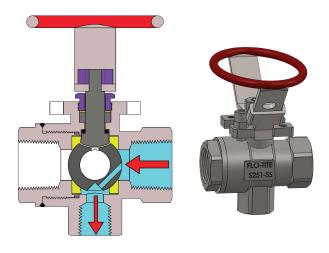
All sizes 250 WSP



CSTTBV S251 - 1PC Body







TEST POSITION (Closed) Flow Discharaes Through Test Port

Application & How it works.

The Flo-Tite S251 Combination **Steam Trap Testing & Blocking** Ball Valve provides a fast, simple, and visible method for diagnosing steam trap performance.

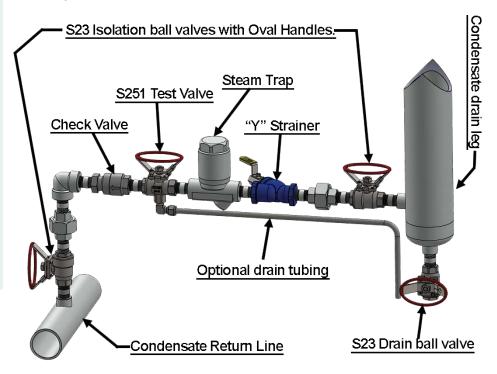
Turning the oval handle "Test" position diverts to the the trap discharge through the test port for immediate visual inspection.

During normal operation, the S251 valve installed downstream the of open trap -remains to allow standard discharge. quarter-turn of the handle shifts specially designed ball, redirecting discharge through the bottom port for easy evaluation. A threaded connection on the test port allows for safe routing of the discharge, helping to prevent burns or accidents during testing.

Installation

The Flo-Tite S251 Combination Steam & Blocking Ball Valve Trap Testing must be installed on the outlet side of the steam trap.

should taken position Care be to the discharge port safely, minimizing any risk to personnel



Unique Valve Designs for Safety and Convinience

Seal Welded Body



Safety Trigger Locking Handle





Standard Unique Features

- Flo-Tites safety trigger handle is designed to prevent accidental movement.
- Thevalve can be latch locked in the open or closed positions.
- The valve can also be padlocked to limit unwanted access.
- The safety trigger locking device is also standard.





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