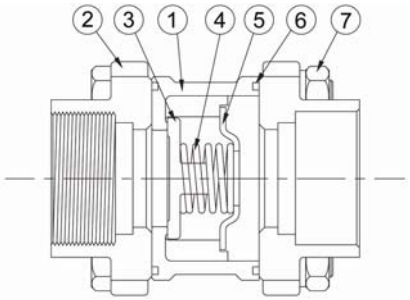
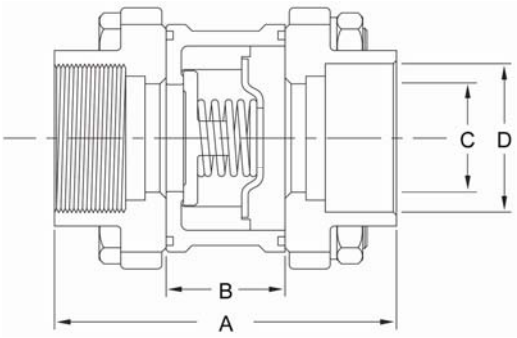
STAINLESS STEEL THREADED SILENT CHECK VALVES





Model 600TCSSS – Threaded
Model 600SWCSSS – Socket Weld

FEATURES

- These valves are designed to operate on vertical upward and horizontal flow applications.
- Available with threaded or socket weld end connections
- Threaded and socket weld connections meet ASME B16.34
- Three-piece body for ease of maintenance
- Spring assisted silent closing
- Valve cracking pressure is equal to or greater than 0.3 psid

RATINGS

PMO (maximum operating pressure): 600 psi @ 150°F
150 psi @ 400°F

MATERIALS

Part	Description
(1) Body	A351-CF8M 316 Stainless Steel
(2) Cap	A351-CF8M 316 Stainless Steel
(3) Plug	A351-CF8M 316 Stainless Steel
(4) Spring	316 Stainless Steel
(5) Holder	A351-CF8M 316 Stainless Steel
(6) Gasket	PTFE
(7) Assembly Hardware	300 Series Stainless Steel

DIMENSIONS AND WEIGHTS

Size		DIMENSIONS								Flow Coefficient	Weight	
		A		B		C		D				
mm	in	mm	in	mm	in	mm	in	mm	in	(Cv)	kg	lbs
8	1/4	53	2-3/32	14	9/16	13	1/2	14.10	0.555	3	0.5	1
10	3/8	53	2-3/32	14	9/16	13	1/2	17.53	0.690	5	0.5	1
15	1/2	67	2-5/8	18	11/16	15	19/32	21.72	0.855	7	0.5	1
20	3/4	67	2-5/8	22	7/8	19	3/4	27.05	1.065	13	1.4	3
25	1	79	3-1/8	28	1-3/32	25	1	33.78	1.330	22	1.6	3-1/2
32	1-1/4	92	3-5/8	32	1-1/4	32	1-1/4	42.55	1.675	39	1.8	4
40	1-1/2	101	3-63/64	37	1-15/32	40	1-19/32	48.64	1.915	54	2.3	5
50	2	114	4-1/2	48	1-7/8	51	2	61.11	2.406	93	2.5	5-1/2
65	2-1/2	146	5-3/4	48	1-7/8	64	2-1/2	73.81	2.906	123	2.7	6
80	3	154	6-1/16	56	2-1/8	80	3-1/8	89.79	3.535	180	3.2	7
100	4	180	7-3/32	70	2-3/4	102	4	115.44	4.545	323	5.4	12

Colton has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice

Push connection
Valve can be in either closed or open position.
Compatible piping: Copper water tube per ASTM B88, Types K, L, & M, both hard drawn
(Not for use with steam service)

OPERATION

Globe valves are intended to provide years of reliable service throttling applications.
Globe valves have high flow restriction and not recommended where pressure drop is critical.
Globe valves with metal seated disc have a permissible leakage rate per MSS SP-80 of 10ml of water per hour per inch of pipe size. Soft-seated/resilient disc have bubble-tight shut off.

MAINTENANCE

Valves must be actuated frequently depending on fluid corrosiveness to assure contamination or deposits do not collect causing seizure and seat leak.

Seat leakage can be resolved by:
- □ Flushing seat area with high rate of flow through the valve.
- □ Additional torque using hand wheel maybe needed.
- □ Disassembly and cleaning of seat area. Minor scratches can be corrected by evenly polishing the disc face using 400 grit sand paper. If body sealing surfaces are damaged it is recommended replacing valve due to difficulty of correcting damaged area.
- □ Replacement of disc.

Bonnet/Body joint leakage can be resolved by:

□ **Union Bonnet Globe Valves**

.1 Remove bonnet after valve has been depressurized.
.2 Inspect body and bonnet sealing area for minor scratches and defects.
.3 Minor scratches and defects on body sealing surface can be corrected by sanding on a flat plate using 400 grit sandpaper.
.4 Once imperfections have been corrected reassemble bonnet to body.

□ **Threaded Bonnet Globe Valves**

.1 Remove bonnet after valve has been depressurized.
.2 Add Loctite 246 to threaded portion of bonnet and reassemble.

Stem/Bonnet leakage can be resolved by:
- □ Tighten packing gland nut. Hand wheel torque is affected by the tightness of this packing, so care must be taking to not over-tighten.
  If there is no travel left on the packing gland, packing should be replaced. Backseat feature can be used to reduce leakage until system can be isolated and depressurized for packing replacement.

  CAUTION: Packing should not be replaced while valve is under pressure. This could lead to serious injury.