Stainless Steel

Model	WSSCV
Sizes	1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3"
Connections	NPT, SW
Body Material	316 Stainless Steel
PMO Max. Operating Pressure	500 PSIG
PMA Max. Allowable Pressure	750 PSIG @ 100°F
TMA Max. Allowable Temperature	850°F @ 420 PSIG

Note: WSSCV with 1/4 PSI cracking pressure is required for all mechanical pump applications. The 5 PSIG cracking pressure version is also available. See model code chart.



Typical Applications

The Model **WSSCV** is an all stainless steel in-line check valve for steam, gas, or liquid service. It provides tight shut-off, minimizes water hammer and also stops recycling of pumps by preventing back flow of liquid. Used in the petrochemical, pulp & paper, textile and food & beverage industries. The WSSCV all stainless steel check valves will operate much longer and are less problematic than bronze or cast iron check valves.

Features & Options

- 316 Stainless Steel Body and Internals
- Low cracking pressure on spring (1/4 PSI) to minimize resistance and maximize flow.
- Available with optional 5 PSI cracking pressure (must specify at time of order)
- Available with NPT, SW, or optional Flanged connections
- Spring made from Inconel-X-750 to handle extreme temperature as well as corrosive applications
- Body is seam-welded to eliminate O-rings or gasket seals which can be affected by high temperature steam or hot condensate
- Spring assisted closing of check valve to minimize noise and wear

Sample Specification

Check valve shall have a 316 stainless steel body and disc. Spring shall be made from Inconel-X-750. Check valve body to be seam welded together to eliminate need for O-ring or gasket.

MATERIALS	
Body	316 Stainless Steel
Disc	316 Stainless Steel
Spring	Inconel-X-750

NPT

Size/Connection NPT	Model Code	Cracking Pressure* PSI	Weight lbs
1/2"	WSSCV-12-N-0	0.25	1.0
3/4"	WSSCV-13-N-0	0.25	1.5
1"	WSSCV-14-N-0	0.25	2.3
1 1/4"	WSSCV-15-N-0	0.25	3.5
1 1/2"	WSSCV-16-N-0	0.25	5.3
1 1/2"	WSSCVQF-16-N-0†	0.00	5.3
2"	WSSCV-17-N-0	0.25	8.5
3"	WSSCV-19-N-0	0.25	21
1/2"	WSSCV-12-N-5	5.0	1.0
3/4"	WSSCV-13-N-5	5.0	1.5
1"	WSSCV-14-N-5	5.0	2.3
1 1/4"	WSSCV-15-N-5	5.0	3.5
1 1/2"	WSSCV-16-N-5	5.0	5.3
2"	WSSCV-17-N-5	5.0	8.5
3"	WSSCV-19-N-5	5.0	21

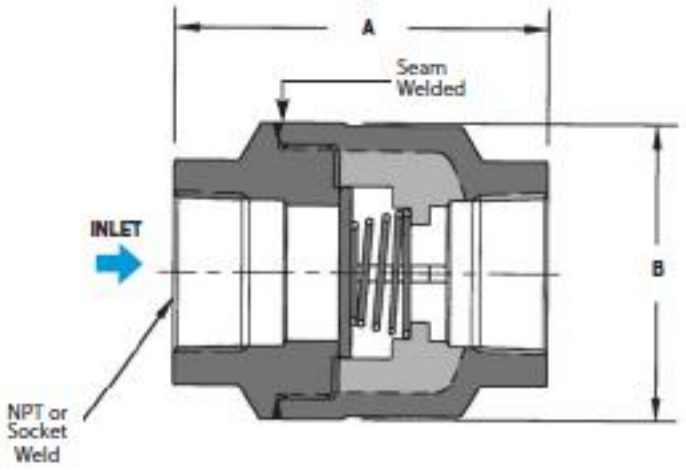
Socket Weld

Size/Connection SW	Model Code	Cracking Pressure* PSI	Weight lbs
1/2"	WSSCV-12-SW-0	0.25	1.0
3/4"	WSSCV-13-SW-0	0.25	1.5
1"	WSSCV-14-SW-0	0.25	2.3
1 1/4"	WSSCV-15-SW-0	0.25	3.5
1 1/2"	WSSCV-16-SW-0	0.25	5.3
1 1/2"	WSSCVQF-16-SW-0†	0.00	5.3
2"	WSSCV-17-SW-0	0.25	8.5
3"	WSSCV-19-SW-0	0.25	21
1/2"	WSSCV-12-SW-5	5.0	1.0
3/4"	WSSCV-13-SW-5	5.0	1.5
1"	WSSCV-14-SW-5	5.0	2.3
1 1/4"	WSSCV-15-SW-5	5.0	3.5
1 1/2"	WSSCV-16-SW-5	5.0	5.3
2"	WSSCV-17-SW-5	5.0	8.5
3"	WSSCV-19-SW-5	5.0	21

* Differential Pressure at which valve opens and flow occurs.

† The WSSCVQF is a swing-style check valve is designed for the inlet side of PMPT and PMPNT Pumps. It is used in extremely low fill head applications to increase the fill rate of the pump.

Stainless Steel



DIMENSIONS & SPECIFICATIONS – *inches*

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
MODEL CODE	WSSCV-12	WSSCV-13	WSSCV-14	WSSCV-15	WSSCV-16	WSSCV-17	WSSCV-19
A	2.69	3.00	3.32	3.81	4.75	5.03	6.87
B	1.62	2.12	2.56	3.06	3.44	4.38	6.19
Weight (lbs)	1.1	1.5	1.9	3.8	4.7	7.7	18.8
Standard Cracking Pressure*	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Optional Cracking Pressure*	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Cv	7	13	22	39	54	93	180

WSSCV Check Valve Construction

