3S SERIES SANITARY INSERT





The 3S Series Sanitary Check Valve is an insert style, spring-loaded check valve designed for use in sanitary applications where 3-A certification, a minimum surface finish, or clean-in-place (CIP) is required. 3-A approved for use as a check valve or vacuum breaker, the valve installs inside new or existing sanitary ferrules or fittings¹, and includes 2 outer o-rings that provide a tight seal on the ID of the fittings.

FEATURES

- Standard 32 Ra electropolished finish
 15 Ra electropolished finish available
- Requires no additional space by utilizing existing ferrules or fittings, making it the ideal choice when retrofitting in existing systems
- Use with liquid, gas, or steam applications
- The open design allows for use in clean-in-place (CIP) applications
- Can be installed horizontal, vertical up or vertical down
- Eliminates the reverse flow conditions that causes water hammer
- Replaceable parts and quick disassembly minimize downtime
- 3-A approved for use in backflow prevention or as a vacuum breaker²
- Outer o-rings seal on the ID of the fittings to provide a bubble-tight seal, eliminating the need for a clamp gasket

OPTIONS

SIZES

1" - 4"

BODY MATERIALS

316/316L Stainless

SEAT & O-RING MATERIALS

Standard: 3-A EPDM, 3-A Silicone

Non-Standard: 3-A AFLAS®, 3-A KALREZ®, 3-A FKM,

USP Class VI AFLAS®, USP Class VI EPDM,

USP Class VI KALREZ®, USP Class VI Silicone,

USP Class VI FKM

SPRING MATERIALS

Standard: 316 Stainless

Non-Standard: HASTELLOY® C-276

CRACKING PRESSURE OPTIONS

Standard: 1/2 psi, 1.50 psi Non-Standard: 1/8 psi - 20 psi

PRESSUR RATINGS @ (100°F)

1": 1,000 psi 1-1/2" - 4": 725 psi

SURFACE FINISH OPTIONS

Standard: 32 Ra Non-Standard: 15 Ra

STANDARDS/APPROVALS

3-A (58-02)

Available upon request:

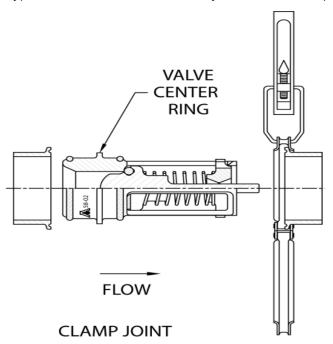
American Iron & Steel Act (AIS)

Buy American Act (BAA)

Canadian Registration Number (CRN)

Contact sales for options not listed here

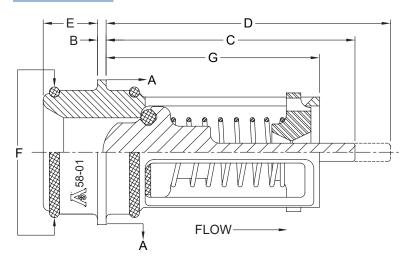
Typical installation between sanitary ferrules and clamp¹



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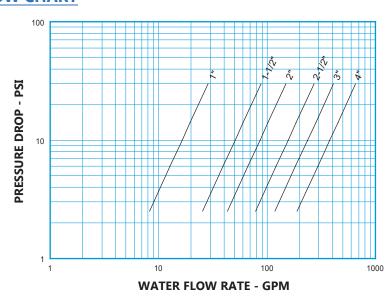
DIMENSIONS



SIZE	SIZE CODE	А		В		C ¹		D^2		Е		F ³		G		ORIFICE DIAMETER		WEIGHT
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
1"	Н	1	25.4	1/16	1.6	1.72	43.7	2.16	54.9	0.38	9.7	0.87	22.1	1.47	37.3	0.476	12.1	2.3 oz.
1-1/2"	J	1.5	38.1	1/16	1.6	2.53	64.3	3.47	88.1	0.38	9.7	1.37	34.8	2.18	55.4	0.89	22.6	6.2 oz.
2"	K	2	50.8	1/16	1.6	3.03	77.0	4.13	104.9	0.47	11.9	1.37	34.8	2.59	65.8	1.135	28.8	13.9 oz.
2-1/2"	L	2.5	63.5	1/16	1.6	3.28	83.3	4.59	116.6	0.47	11.9	2.37	60.2	2.85	72.4	1.60	40.5	1.5 lbs.
3"	М	3	76.2	1/16	1.6	4.59	116.6	5.53	140.5	0.47	11.9	2.87	72.9	3.36	85.3	2.15	54.6	1.9 lbs.
4"	N	4	101.6	1/16	1.6	4.75	120.7	6.69	169.9	0.47	11.9	3.834	97.4	4.02	102.1	2.70	68.6	3.9 lbs.

1 - Maximum nominal dimension in closed position.
2 - Maximum nominal dimension in open position. Minimum required clearance between valve and hard surface or cross flowing media.
3 - Should match ID of fitting being installed into (±0.005).

FLOW CHART

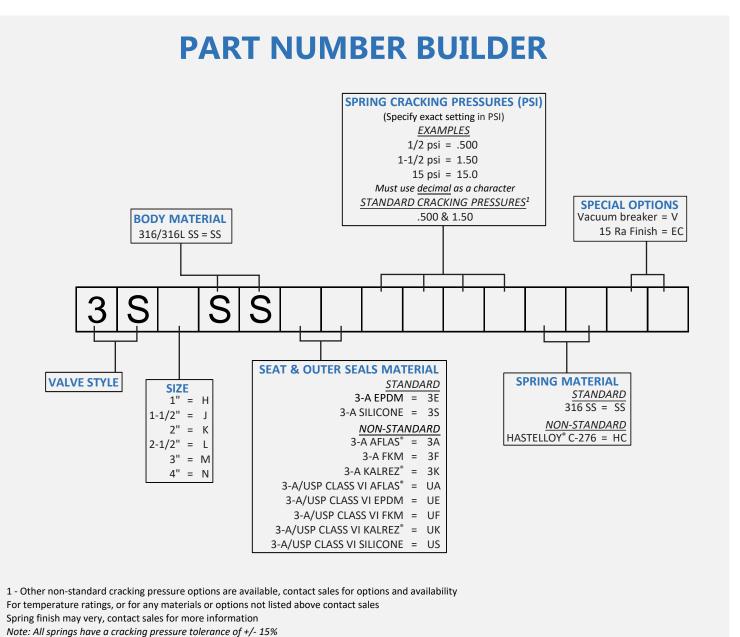


Note: All flow curves and Cv values based on water at 72° F and presume the valves are fully open with 1/2 PSI cracking pressure

Contact sales for flow formula and application specific flow data

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TRADEMARKS USED IN THIS CATALOG

3-A (3-A SSI), INCONEL® (Special Metals Family of Companies), HASTELLOY® (Haynes International), FLUOREZ® (Fluorez Technology Ltd.), AFLAS® (GC, Inc.), KALREZ® (E.I. du Pont de Nemours and Company), MONEL® (Special Metals Family of Companies)

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