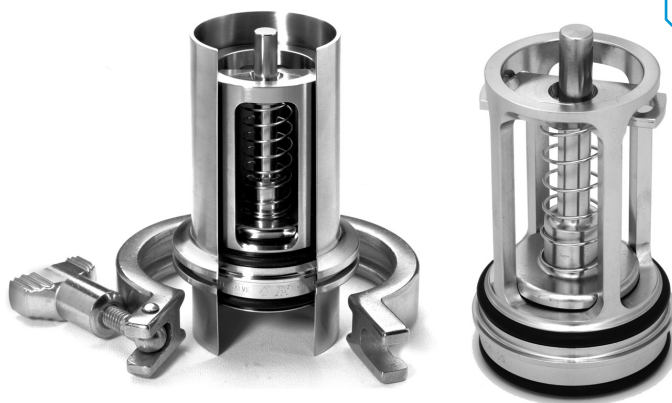
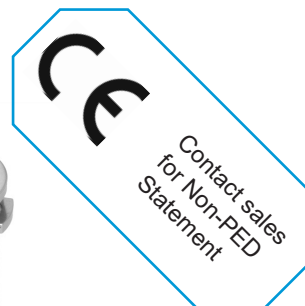




(Valve shown in ferrules. Ferrules and clamp not included)



The **3S SERIES** is a spring-loaded check valve designed for use in sanitary applications where 3-A certification, a polished surface finish, or clean-in-place (CIP) is required.

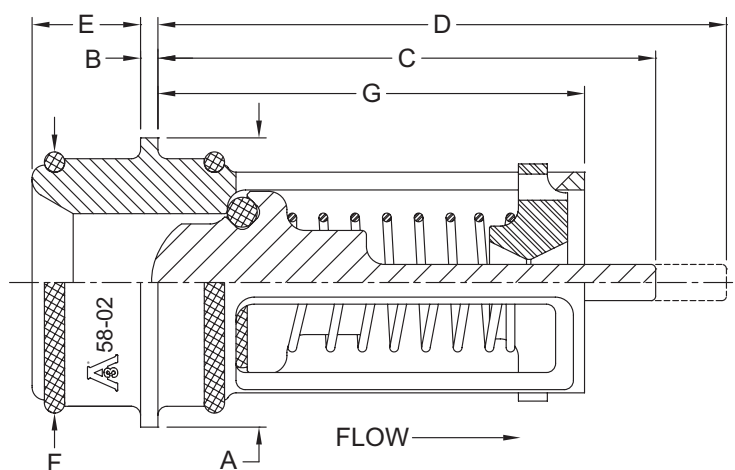
The insert design allows the valve to be installed between standard sanitary fittings or ferrules^❶, requiring no extra space in the line. Once the sanitary clamp is applied and tightened the valve's outer o-rings provide a leak-proof seal. No clamp gasket required. See installation instructions on page 4.

The standard 32 Ra polished finish and 3-A certified clean-in-place (CIP) body make the 3S Series ideal for food processing, pharmaceutical, biotech, and water purification applications. 15 Ra finish available upon request.

The spring-loaded poppet design provides unmatched reliability and versatility, allowing for use as a check valve or vacuum breaker. Consult factory for additional options.

❶ Fittings/ferrules not included.

Note: USP Class VI o-rings can be supplied with certification upon request.



Line Size	Size Code	A	B	C ^❷	D ^❸	E	F ^❹	G	Orifice Diameter
1	H	1	1/16	1.72	2.16	0.38	0.870	1.47	0.476
1-1/2	J	1-1/2	1/16	2.53	3.47	0.38	1.370	2.18	0.890
2	K	2	1/16	3.03	4.13	0.47	1.870	2.59	1.135
2-1/2	L	2-1/2	1/16	3.28	4.59	0.47	2.370	2.85	1.595
3	M	3	1/16	4.59	5.53	0.47	2.870	3.36	2.150
4	N	4	1/16	4.75	6.69	0.47	3.834	4.02	2.699

❷ "C" is the maximum dimension in the closed position.

❸ "D" is the maximum dimension in the fully open position.

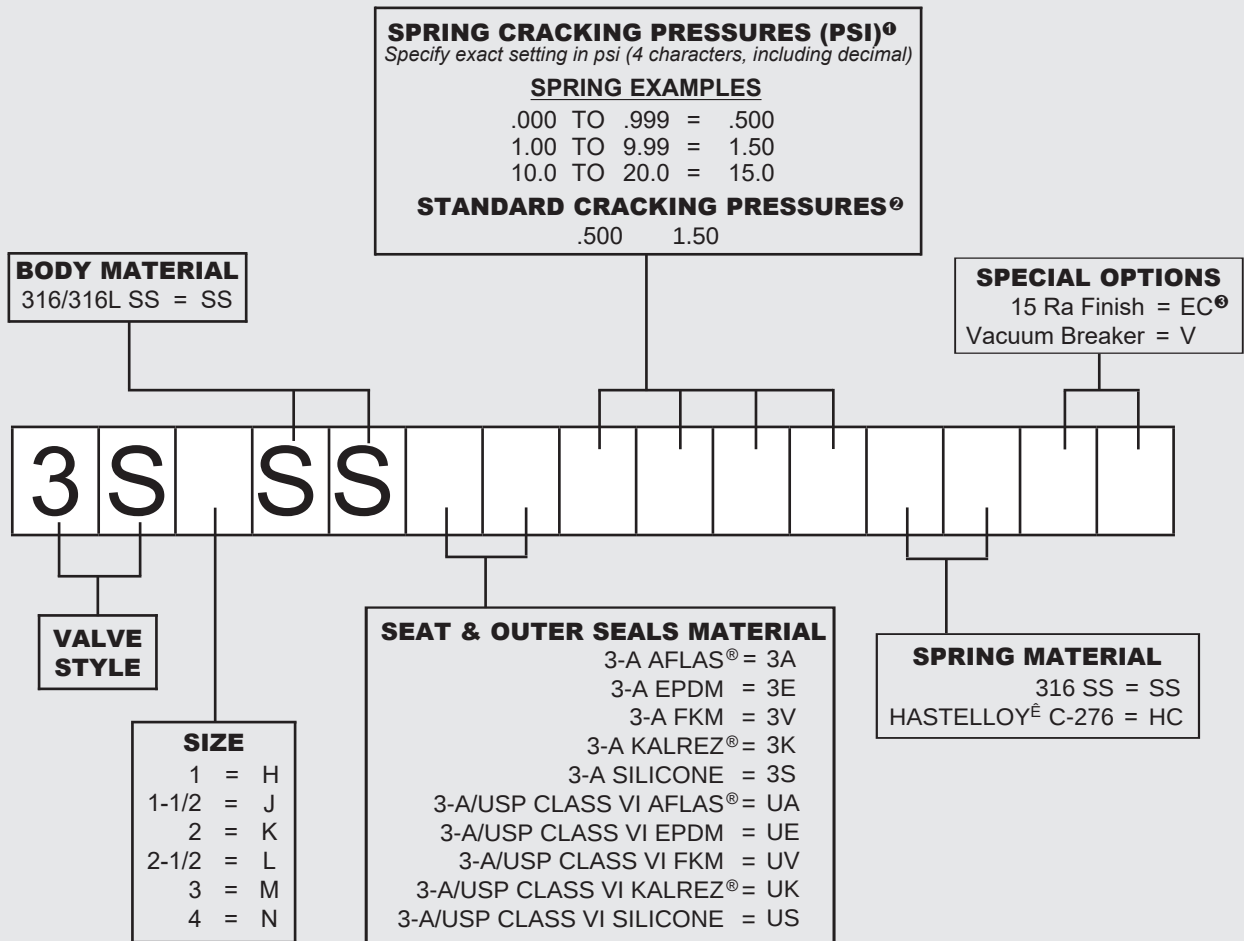
❹ Designed for fittings with ID matching the "F" dimension. (±0.005)

Body Material	Line Size	Non-Shock Pressure-Temp. Rating @ 100° F <i>Consult factory for P-T rating above 100° F</i>
316/316L Stainless Steel (SS)	1"	1000 PSIG
	1-1/2" - 4"	725 PSIG

Contact sales for material grade information.

Note: Maximum recommended pressure drop is 30 psi

HOW TO ORDER CHECK-ALL STYLE 3S



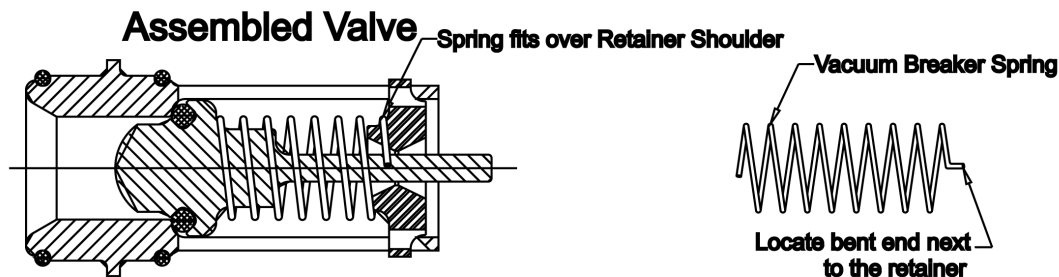
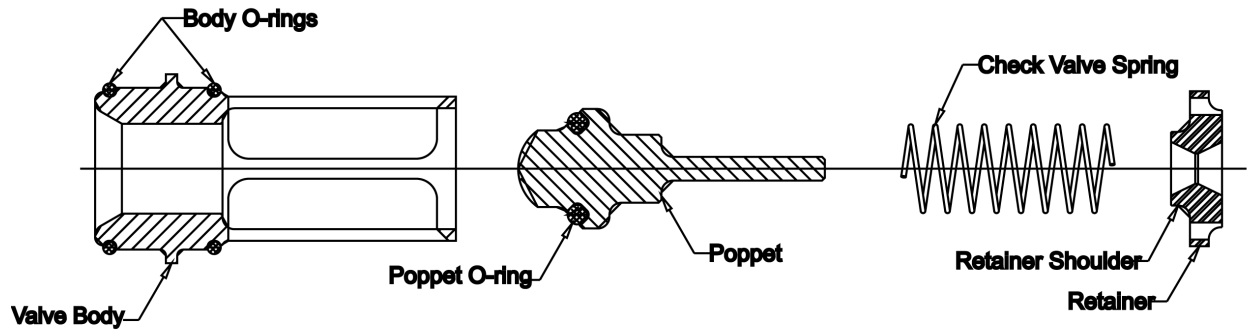
Listed above are the most common material selections, contact sales for additional options. Contact sales for temperature ratings

- ① Springs have a tolerance of +/- 15% of the cracking pressure.
- ② Contact sales for non-standard cracking pressure availability.
- ③ 15 Ra surface finish on valve body, poppet, and retainer. Spring finish between 32 Ra - 15 Ra

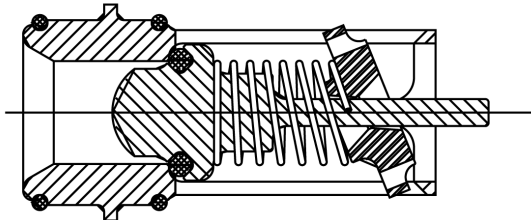
Contact sales for options not listed

DISASSEMBLY INSTRUCTIONS

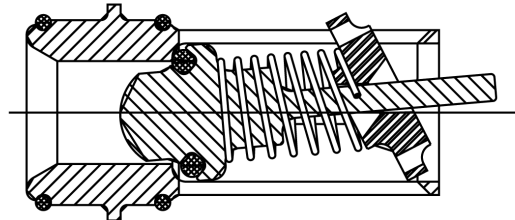
To disassemble the 3-A Sanitary valve, start by depressing one side of the retainer as shown in Step 1. With one side of the retainer tipped, rotate the stem of the poppet and remove the retainer as shown in Steps 2, 3 and 4. To reassemble the valve reverse the process. Consult the factory for information on trim kits, o-ring kits, or individual spare parts.



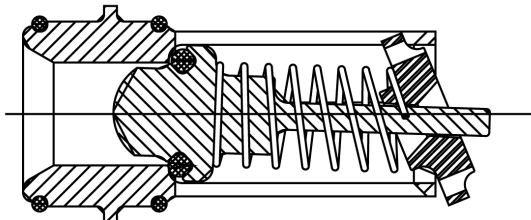
Step 1



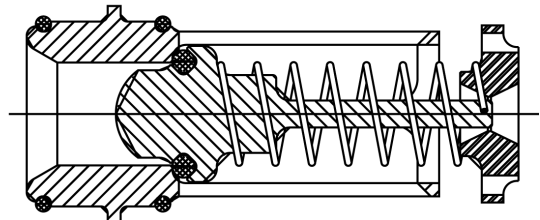
Step 2



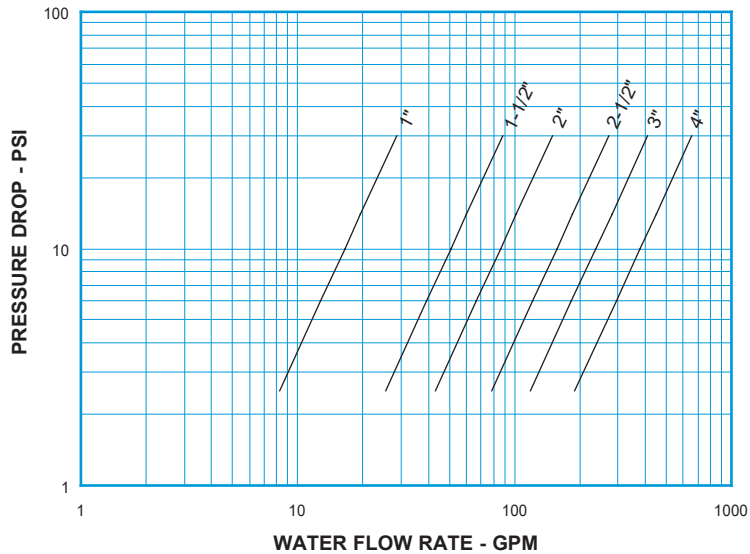
Step 3



Step 4



3-A Sanitary For Water at 72°F



Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE 3S C _v VALUES & VALVE WEIGHTS		
C _v	SIZE	316/316L SS
5.2	1	2.3 oz.
16.1	1-1/2	6.2 oz.
27.2	2	13.9 oz.
49.4	2-1/2	1.5 lb.
74.9	3	1.9 lb.
120.0	4	3.9 lb.

Contact sales for Flow Formulae.
Valve weights are approximate.

Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs.

INSTALLATION INSTRUCTIONS

