

Valve shown in ferrules.
Ferrules and clamp not included.

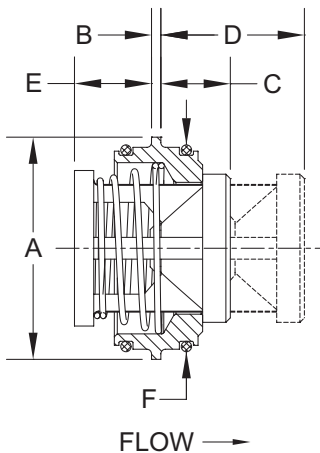


The **Sanitary Cartridge (SC)** check valve is engineered for use with new or existing sanitary ferrules. The SC design seals on the ID of ferrules with replaceable food grade seals (Standard is FDA EPDM). (ferrules not included). The compact SC design fits inside a single fitting and requires no additional space in the line. Its size makes it extremely economical when compared to full-bodied valves.

For applications requiring a 3-A compliant valve and/or 32 RA or finer surface finishes, see our 3S series on page 25.

The SC valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

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



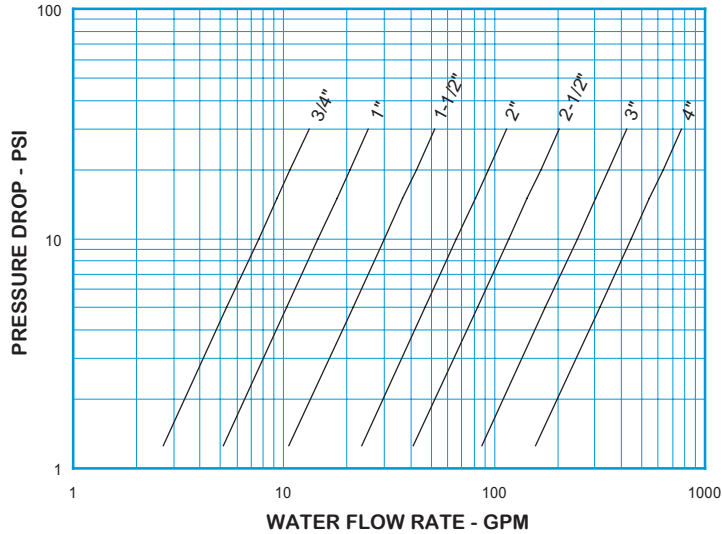
Line Size	Size Code	A	B	C ❶	D ❷	E	F ❸	Orifice Diameter
3/4	F	3/4	1/16	0.44	0.78	0.28	0.620	0.348
1	H	1	1/16	0.53	0.89	0.30	0.870	0.464
1-1/2	J	1-1/2	1/16	0.53	1.06	0.63	1.370	0.890
2	K	2	1/16	0.66	1.39	0.66	1.870	1.135
2-1/2	L	2-1/2	1/16	0.69	1.56	0.88	2.370	1.385
3	M	3	1/16	0.75	1.97	1.25	2.870	2.025
4	N	4	1/16	0.88	2.41	1.63	3.834	2.560

- ❶ Maximum nominal dimension for valve closed.
- ❷ Maximum nominal dimension for a fully open valve with no spring.
- ❸ Valves are designed to function with fittings having these internal diameters. (±0.005)

Body Material ❹	availability	Non-Shock Pressure-Temp Rating @ 100°F Consult factory for P-T ratings above 100°F	
	316/316L Stainless Steel (SS) Alloy C-276 (HC)	Standard Semi-Standard	3/4" - 1-1/2" 1000 PSIG

❹ See page 58 for material grade information.

Sanitary Cartridge Valve
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 SC C _v VALUES & VALVE WEIGHTS			
C _v	SIZE	316SS	C-276 (HC)
2.4	3/4	0.6 oz.	0.7 oz.
4.6	1	1.1 oz.	1.3 oz.
9.5	1-1/2	3.1 oz.	3.6 oz.
20.9	2	6.4 oz.	7.7 oz.
37.0	2-1/2	11.7 oz.	13.7 oz.
77.9	3	1.2 lb.	1.4 lb.
141	4	2.7 lb.	3.4 lb.

See page 53 for Flow Formulae.
Valve weights are approximate.

**HOW TO ORDER
CHECK-ALL STYLE SC**

BODY MATERIAL

316/316L SS = SS
Alloy C-276 = HC

See p. 3 for temperature rating

SPRING CRACKING PRESSURES (PSI)

Must use decimal as a character unless selecting NO SPRING. Specify Exact Setting

SPRING RANGES	EXAMPLE
.000 TO .999	= .500
1.00 TO 9.99	= 1.50
10.0 TO 85.0	= 15.0
NO SPRING	= NOSPRG

STANDARD CRACKING PRESSURES ①

.125	.500	1.50	3.50
------	------	------	------

(Sizes F-K Only)

SPECIAL OPTIONS

T = FEP ENCAPSULATED SPRNG
-O = Outer o-ring seals same as seat ③

Contact the factory for more options
See pages 3 & 4 for temperature rating

VALVE STYLE SC

SIZE

3/4 = F
1 = H
1-1/2 = J
2 = K
2-1/2 = L
3 = M
4 = N

SEAT MATERIAL ②

FDA AFLAS® = FA	PTFE = TF
FDA BUNA = FB	USP CLASS VI AFLAS® = UA
FDA EPDM = FE	USP CLASS VI EPDM = UE
FDA FKM = FV	USP CLASS VI SILICONE = US
FDA KALREZ®(FFKM) = FK	USP CLASS VI FKM = UV
"METAL-TO-METAL" = MT	USP CLASS VI KALREZ®(FFKM) = UK
	USP CLASS VI FLUOREZ®(FFKM) = UF

See p. 3 for temperature ratings

SPRING MATERIAL

316 SS = SS
ALLOY C-276 = HC
INCONEL® X750 OR ALLOY X750 = IX
MONEL® 400 = MO
17-7PH SS = PH
TITANIUM = TI

See p. 4 for temperature ratings

Listed above are the most common material selections. Please contact the factory for additional options.

- ① .500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. 0.125 PSI springs are not recommended for installations with flow vertical down.
- ② "Metal-to-Metal" and PTFE seats are neither resilient nor available for outer seals. See page 54 for allowable leakage rates.
- ③ -O option not available for "Metal-to-Metal" and PTFE seats, FE will be used as standard. Consult factory for other options.