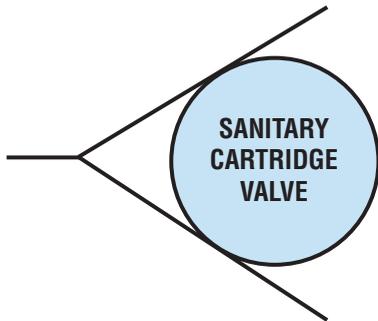




See PED statement below



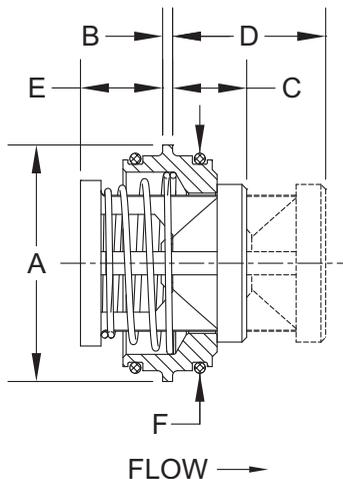
Valve shown in ferrules.  
Ferrules and clamp not included.

The **Sanitary Cartridge (SC)** valve is a stainless steel check valve for use with new or existing sanitary ferrules. The SCV design seals on the ID of ferrules with replaceable food grade seals (Standard is FDA EPDM). The valve fits the Alfa Laval Inc. Bevel Seat and Tri-Clamp® fittings, Waukesha Cherry-Burrell® Q-Line and S-Line fittings, and others with ID dimensions equal to the “F” dimensions listed below (ferrules not included). The compact SCV 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, see our 3S series on page 16.**

Choose from Check-All’s broad selection of seat materials and cracking pressure springs that allow this series to be used as a check valve, low pressure relief valve, or as a vacuum breaker.

**PED Conformance Statement:** Due to the unique design of the Sanitary Cartridge Valve, this series is not considered a pressure vessel but rather a gasket. According to PED Guideline 1/8, gaskets are not governed by the Pressure Equipment Directive. As a result, the SCV series is available for sale in the European Community and no CE Mark is required.

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



Line Size	Size Code	A	B	C <sup>①</sup>	D <sup>②</sup>	E	F <sup>③</sup>	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

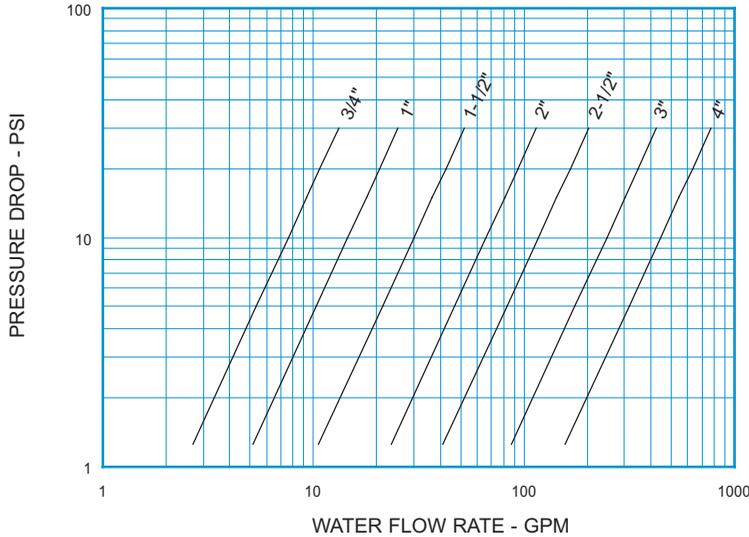
<sup>①</sup> Maximum nominal dimension for valve closed.  
<sup>②</sup> Maximum nominal dimension for a fully open valve with no spring.  
<sup>③</sup> Valves are designed to function with fittings having these internal diameters. (±0.005)

Body Material <sup>④</sup>	Line Size	Non-Shock Pressure-Temperature Rating <sup>⑤</sup>
316/316L Stainless Steel (SS)	3/4 - 1-1/2	1000 PSIG @ 100°F
	2 - 4	725 PSIG @ 100°F

<sup>④</sup> See page 55 for material grade information.

<sup>⑤</sup> Consult the factory for applications where higher pressure or temperature is required.

**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 (SCV) C <sub>v</sub> VALUES & VALVE WEIGHTS		
C <sub>v</sub>	SIZE	316 SS
2.4	3/4	0.3 oz.
4.6	1	1.0 oz.
9.5	1-1/2	2.9 oz.
20.9	2	6.1 oz.
37.0	2-1/2	11.2 oz.
77.9	3	11.4 oz.
141	4	2.3 lb.

See page 50 for Flow Formulae.  
Valve weights are approximate.

**HOW TO ORDER  
CHECK-ALL STYLE SC (SCV)**

**BODY MATERIAL**  
316/316L SS = SS  
See p. 4 for temperature rating

**SPRING CRACKING PRESSURES**  
Replace "X" with actual desired setting.  
Must use decimal as a character.  
(PSI)      FORMAT  
.000 TO .999 = .XXX  
1.00 TO 9.99 = X.XX  
10.0 TO 99.9 = XX.X  
NO SPRING = NOSPRG  
**STANDARD CRACKING PRESSURES**<sup>①</sup>  
.125 .500 1.50 3.50  
(Sizes F-K Only)

**Note: Many other cracking pressures are available. Consult factory.**

SC SS

**VALVE STYLE**

**SEAT MATERIAL**<sup>②</sup>  
AFLAS® = AS      "METAL-TO-METAL" = MT  
BUNA-N = BN      NEOPRENE = NE  
EPDM = EP      PTFE = TF  
FDA BUNA = FB      USP CLASS VI EPDM = UE  
FDA EPDM = FE      USP CLASS VI SILICONE = US  
FDA VITON® = FV      USP CLASS VI VITON® = UV  
KALREZ® = KZ  
See p. 4 for temperature ratings

**SPECIAL OPTIONS**  
T = FEP ENCAPSULATED SPRING  
-0 = Outer o-ring seals same as seat  
**See p. 5 for temperature rating**  
Contact the factory for more options

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

**SPRING MATERIAL**  
316 SS = SS  
ALLOY C-276 = HC  
INCONEL® X-750 = IX  
MONEL® = MO  
17-7PH SS = PH  
TITANIUM = TI  
See p. 5 for temperature ratings

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

<sup>①</sup> .500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. Cracking pressure tolerance is +/- 15%. .125 PSI springs are not recommended for installations with flow vertical down.

<sup>②</sup> Seat materials other than "metal-to-metal" have a maximum pressure rating of 1500 PSI. "Metal-to-Metal" and PTFE seats are not resilient. See page 51 for allowable leakage rates.