

# HCV03 CHECK VALVE



## HCV03

The HCV03 check valve is designed to fit between two ASME BPE compliant clamp fittings, with a moulded seal profile replacing the standard joint gasket. The valve is suitable for a wide range of duties in liquid and gas service, including pressure relieving and anti-vacuum applications. A number of soft seat seal and spring options are also available. Valve construction materials are FDA compliant.

### **P** Pressure and Temperature

<b>T</b> Max pressure (bar)							
3/4" - 2"	3.8	3.8	2.3	1.7	1.4	1.2	1.2
2-1/2" - 4"	1.4	1.4	0.9	0.6	0.5	0.4	0.35
Max temp (°C)							
	0	38	65	90	121	150	205

**C** **Connections** To suit 3/4" - 4" ASME BPE clamp fittings

**W** **Wetted Parts** Body - PTFE  
Spring - 316 stainless steel

**S** **Seal Material** Body seal - PTFE (Integral with valve body)  
Seat seal - PTFE (Integral with valve body) or EPDM

**O** **Opening Pressure** 8 or 35 mbar

**SF** **Surface Finish** All parts are moulded PTFE with an approximate finish of 1.0 micron Ra

**✓** **Options** 100 or 240 mbar opening pressure  
Viton and Kalrez seat seals  
PTFE coated spring  
Clamp with tab to identify presence

**C** **Certification** Certificate of conformity  
FDA elastomer compliance certificates  
Certified 'Animal derived ingredient' free

### **★** Features

- Simple to install - fits between two standard ferrules - no additional seal required
- PTFE construction with stainless steel spring - optional PTFE coated springs available
- Low pressure loss in all sizes
- Optional soft seats for bubble-tight shut off

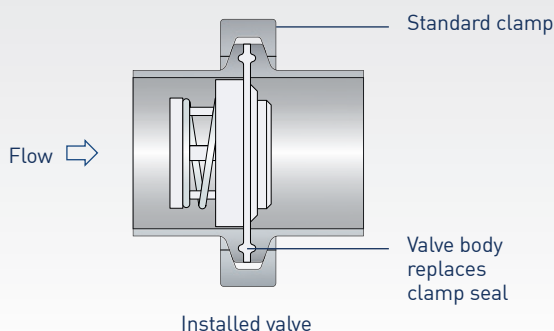
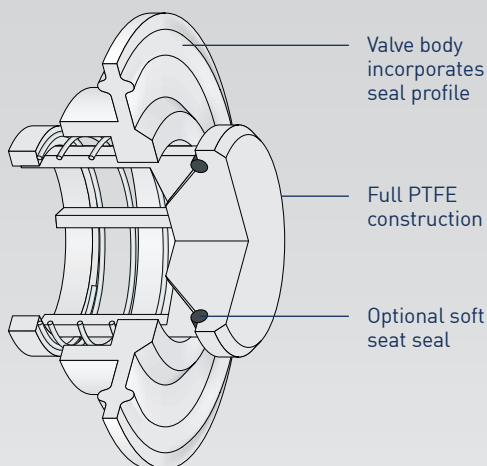
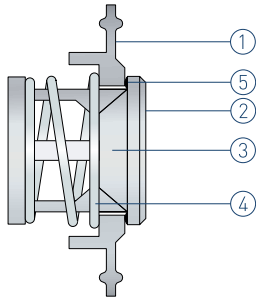


Illustration showing optional seat seal (5) fitted



Part	Description
1	Body
2	Valve head
3	Piston
4	Spring*
5	Optional seat seal**

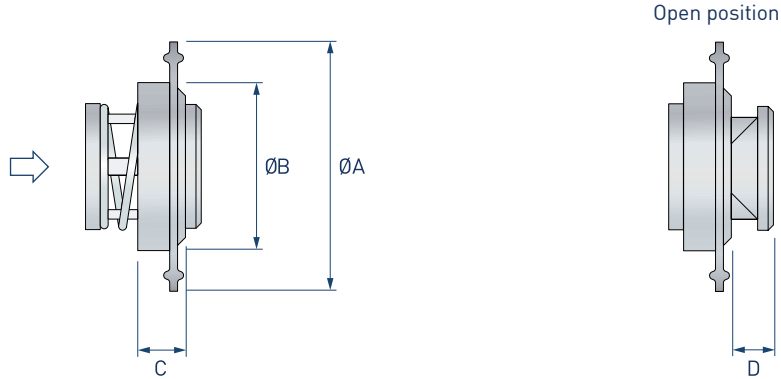
\*PTFE coated spring is also available

\*\*Seat seal is FDA compliant

		Effect on opening pressure due to valve orientation (mbar)						
Flow		3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
Other ranges spring	↔	0	0	0	0	0	0	0
	↑	+4	+4	+4	+4	+4	+5	+7
	↓	-4	-4	*	*	*	*	*
	↑	+4	+4	+4	+4	+5	+5	+7
	↓	-4	-4	-4	-4	-5	-5	-7

\*Valves not suitable for orientation with flow downward when fitted with 8 mbar spring

**Service Parts** - The HCV03 is a non-maintainable design



Size ASME BPE	Dimensions (mm)				Kv(m <sup>3</sup> /h)	Weight (grams)
	ØA	ØB	C	D		
3/4"	25	14.9	14.0	15.5	2	16
1"	50.5	21.6	14.0	17.5	4	17
1-1/2"	50.5	34.0	14.0	23.1	8	30
2"	64	46.7	14.5	24.9	18	50
2-1/2"	77.5	59.7	15.2	24.6	32	65
3"	91	72.1	16.3	40.1	65	145
4"	119	96.6	19.8	48.0	120	320

### ASME BPE part number ordering key

Product	Size	Connection	Seat seal	Spring
-	-	-	-	-
HCV03	3/4" ASME BPE 075	Clamp C	PTFE T EPDM EBK	8 mbar 08 35 mbar 35 100 mbar 100 240 mbar 240
	1" ASME BPE 100			
	1-1/2" ASME BPE 150			
	2" ASME BPE 200			
	2-1/2" ASME BPE 250			
	3" ASME BPE 300			
	4" ASME BPE 400			

### Example

HCV03	-	075C	-	EBK	-	08
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### Specification text

Staitch HCV03 check valve. PTFE construction with 316 stainless steel spring. 3/4" ASME BPE clamp connections. EPDM seat seal. 8 mbar spring. (HCV03-075C-EBK-08)