



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.

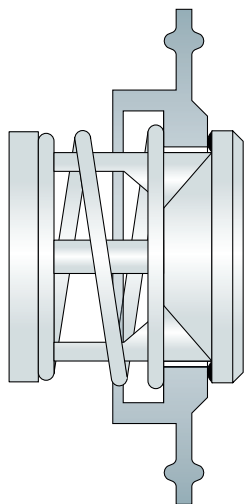


Illustration showing optional seat seal (5) fitted

P Pressure and Temperature Rating

T	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 temperature (°C)								
	0	38	65	90	121	150	205	

L Connections

To suit - 3/4" - 4" ASME BPE clamp fittings

S Seal Material

Body seal - PTFE (integral with valve body)
Seat seal - PTFE or EPDM

M Opening Pressure

8, 35, 100 or 240 mbar

W Surface Finish

Body, piston and valve head - 1.0 micron Ra

C Options

Alternative spring ranges and seat seals
PTFE coated spring

C Available Certification

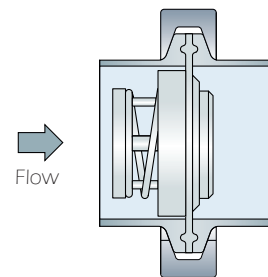
CofC Certificate of Conformity

FDA FDA Elastomer compliance certificates*

ADI Certified 'Animal Derived Ingredient' free

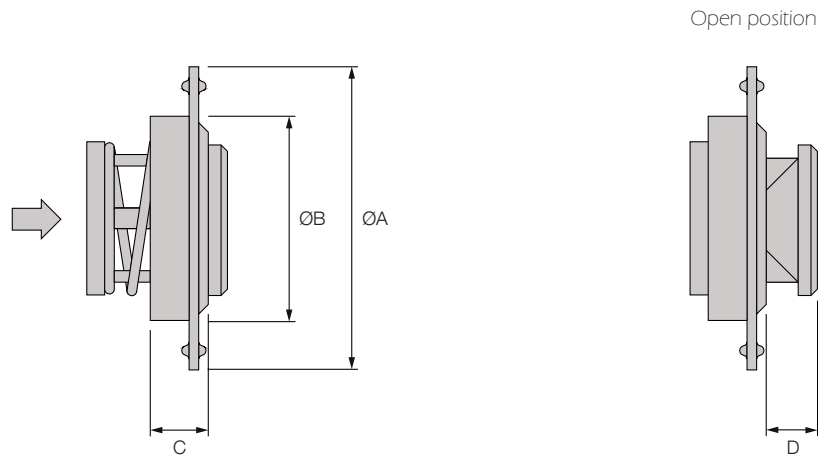
*Only 3/4" and 1-1/2" valves can be certified as being FDA compliant due to the affect of manufacturing processes on other sizes

Part	Description
1	Body PTFE
2	Valve head PTFE
3	Piston PTFE
4	Spring 316 stainless steel
5	Optional seat seal EPDM



Installed valve

HCV03



	Size ASME BPE	Dimensions (mm)				Kv(m ³ /h)	Weight (grams)
		ØA	ØB	C	D		
	3/4"	25	14.9	14.0	15.5	2	10
	1"	50.5	21.6	14.0	17.5	4	10
	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	70
	3"	91	72.1	16.3	40.1	65	150
	4"	119	96.6	19.8	48.0	120	300

	Flow	Effect on opening pressure due to valve orientation (mbar)						
		3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
	↔	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



Packaging

Individually bagged



Service Parts

The HCV03 is a non-maintainable design



Specification

See product selector sheet for specification and ordering detail

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Specifications subject to change without notice. HCV03-TB - 12/14



- Spring loaded design
- All PTFE construction
- 3/4" - 4" ASME BPE clamp fittings
- Optional soft seat seal

ASME BPE part number ordering key

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

Example

HCV03	-	075C	-	EBK	-	08
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Specification text

Staitech HCV053 check valve. PTFE construction with 316 stainless steel spring. 3/4" ASME BPE clamp connections. EPDM seat seal. 8 mbar spring. Body, piston and valve finished to 1.0 micron Ra. (HCV03-075C-EBK-08)

Customer reference number:

Tag number	Part number	Quantity

Available certification (tick as required)

<input type="checkbox"/>	CofC Certificate of conformity	<input type="checkbox"/>	FDA FDA elastomer compliance certificates*
<input type="checkbox"/>	ADI Certified 'Animal Derived Ingredient' free	<input type="checkbox"/>	

*Only available for 3/4" and 1-1/2" sizes