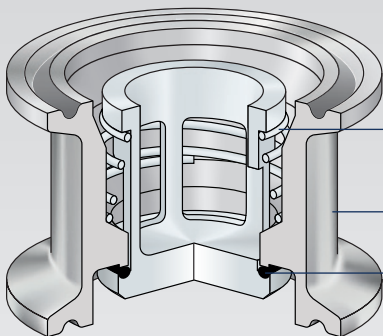


HCV05 CHECK VALVE



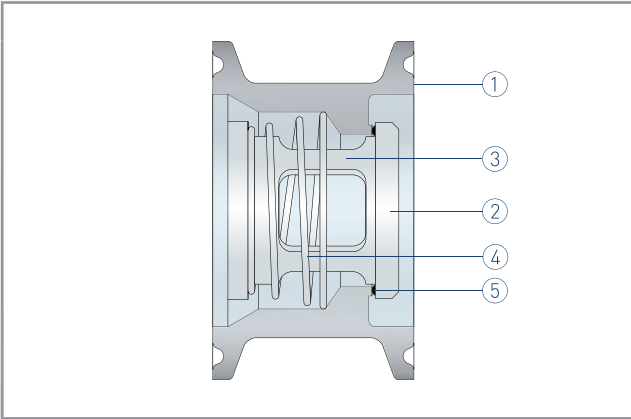
- Spring loaded design
- Compact design
- Soft seat options

HCV05

The HCV05 is a one-piece non-maintainable valve intended for steam, condensate and process fluid applications. Standard valves have metal-metal seating and a choice of 8 or 35 mbar opening pressure. A number of soft seat seal options are also available. The HCV05 is also suitable for use as an anti-vacuum valve or pressure relief valve device.

P Pressure Rating	Up to 10 barg
T Temperature Rating	Up to 200°C with metal-metal seating Up to 200°C with Viton, Silicone or Perlast seat seal Up to 150°C with EPDM seat seal
I Connections	1/2" - 6" ASME BPE clamp fittings DN8 - DN50 DIN clamp fittings DN8 - DN40 ISO clamp
Wetted Parts	316L stainless steel*
Seal Material	Standard valves have metal-metal seating Optional seat seal - EPDM, Viton, Silicone or Perlast
Opening Pressure	8 or 35 mbar
Surface Finish	Wetted surfaces - 0.5 microns Ra (SF1) External surfaces - 0.8 microns Ra
Options	Alternate end connections Low ferrite stainless steel (WN1.4435), C22 and other alloys Electropolished finish (SF4)
C Certification	Certificate of conformity Material certification FDA elastomer compliance certificates USP elastomer compliance certificates Certified 'Animal derived ingredient' free
★ Features	<ul style="list-style-type: none">• Short face-face dimension ideal for confined installations• Ideally suited to steam and condensate duties• All surfaces meet SF1 or SF4 criteria• Full range of ASME BPE, DIN and ISO sizes• Maintenance free design

*Spring is 316 S11 stainless steel



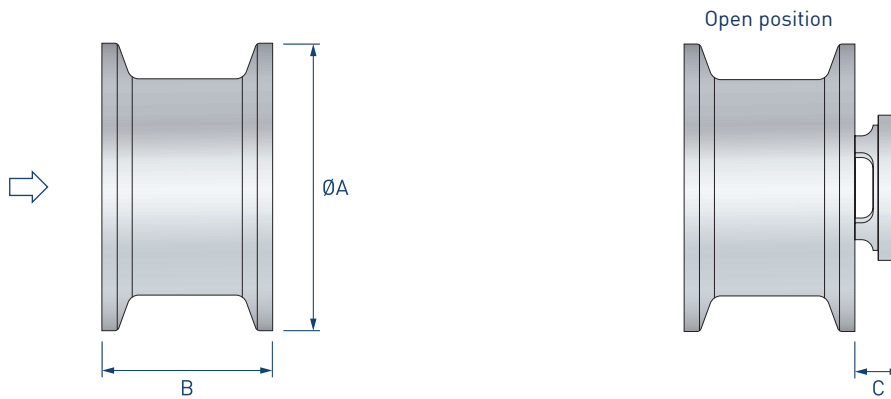
Part	Description
1	Body 316L stainless steel
2	Valve head 316L stainless steel
3	Piston 316L stainless steel
4	Spring 316 stainless steel
5	Optional seat seal* EPDM, Viton, Silicone or Perlast

*All seal options are FDA and USP compliant. EPDM seals are USP 121°C compliant.

	Flow	Effect on opening pressure due to valve orientation (mbar)			
		1/2"	3"	4"	6"
8 mbar spring	↔	0	0	0	0
	↑	+4	+4	+5	+8
	↓	*	*	*	*
35 mbar spring	↑	+5	+5	+5	+8
	↓	-5	-5	-6	-8

*Valve will hang open when installed vertically with the flow in a downward direction.

Service Parts - Standard valves with metal-metal seating are non-maintainable
 A replacement seal (5) is available for soft seated valves in sizes 3/4" - 6". 1/2" soft seat seal valves are non-maintainable



Size ASME BPE	Dimensions (mm)			Kv(m ³ /h)	Weight (kg)
	ØA	B	C		
1/2"	25	40	-	2	0.1
3/4"	25	40	-	2	0.1
1"	50.5	25	3	4	0.15
1-1/2"	50.5	30	10	8	0.18
2"	64	35	9	18	0.35
2-1/2"	77.5	55	12	32	0.3
3"	91	60	12	60	0.6
4"	119	80	15	109	2.0
6"	167	120	15	190	4.5

ASME BPE part number ordering key

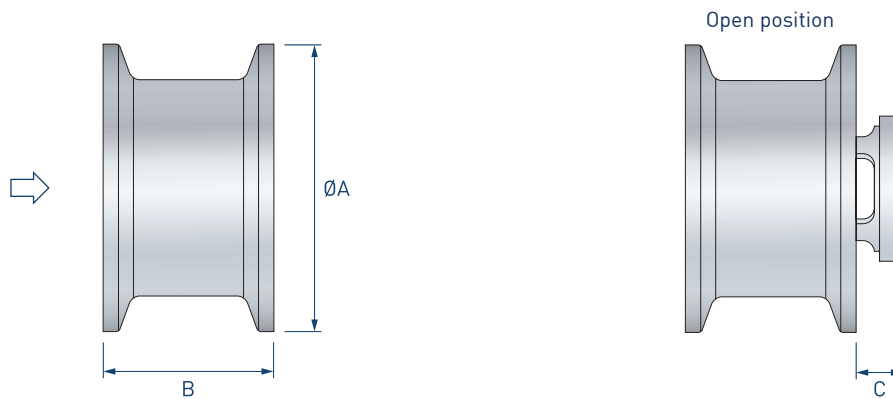
Product	Clamp size	Connection	Seat seal	Spring	Options
-	-	-	-	-	-
HCV05	1/2" ASME BPE 3/4" ASME BPE 1" ASME BPE 1-1/2" ASME BPE 2" ASME BPE 2-1/2" ASME BPE 3" ASME BPE 4" ASME BPE 6" ASME BPE	050 075 100 150 200 250 300 400 600	Clamp C Metal M EPDM - black EBKU Viton - black VBKU Silicone - white SW Perlast - white PLW	8 mbar 08 35 mbar 35	Electropolishing EP

Example

HCV05	-	050C	-	M	-	08	-	EP
-------	---	------	---	---	---	----	---	----

Specification text

Staitch HCV05 check valve manufactured in 316L stainless steel. 1/2" ASME BPE clamp connection. Metal-metal seating. 8 mbar spring. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV05-050C-M-08). For electropolished finish add suffix '-EP' (HCV05-050C-M-08-EP).



Size DIN	Dimensions (mm)			Kv(m ³ /h)	Weight (kg)
	ØA	B	C		
DN8 & DN10	25 or 34	40	-	2	0.1
DN15	25 or 34	40	-	2	0.1
DN20 DN25	25 or 34	25	3	4	0.15
DN32 DN40	50.5 50.5	30	10	8	0.18
DN50	64	35	9	18	0.35

DIN part number ordering key

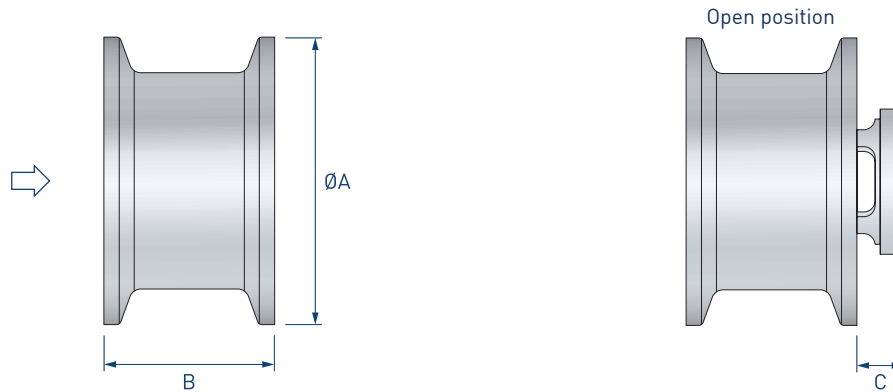
Product	Connection		Size	Seat seal		Spring		Options	
HCV05	-	Clamp C	DIN DN8 25.0-8.0 34.0-8.0	Metal EPDM - black	M EBKU	8 mbar 35 mbar	08 35	-	Electropolishing EP
			DIN DN10 25.0-10.0 34.0-10.0	Viton - black	VBKU				
			DIN DN15 25.0-15.0 34.0-15.0	Silicone - white	SW				
			DIN DN15 25.0-16.0 34.0-16.0	Perlast - white	PLW				
			DIN DN20 34.0-20.0 50.5-20.0						
			DIN DN25 50.5-25.0 50.5-26.0						
			DIN DN32 50.5-32.0						
			DIN DN40 50.5-38.0						
			DIN DN50 64.0-50.0						

Example

HCV05	-	C	-	34.0-8.0	-	M	-	08	-	EP
--------------	---	----------	---	-----------------	---	----------	---	-----------	---	-----------

Specification text

Staitech HCV05 check valve manufactured in 316L stainless steel. DIN DN8 clamp connection. Metal-metal seating. 8 mbar spring. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV05-C-34.0-8.0-M-08). For electropolished finish add suffix '-EP' (HCV05-C-34.0-8.0-M-08-EP).



Size ISO	Dimensions (mm)			Kv(m ³ /h)	Weight (kg)
	ØA	B	C		
DN8 & DN10	25	40	-	2	0.1
DN15	34 or 50.5	40	-	2	0.1
DN20	50.5	25	3	4	0.15
DN25 & DN32	50.5	30	10	8	0.18
	50.5				
DN40	64	35	9	18	0.35

ISO part number ordering key

Product	Connection		Size	Seat seal		Spring		Options	
HCV05	-	Clamp C	ISO DN8 25.0-10.3	Metal	M	8 mbar	08	-	Electropolishing EP
			ISO DN10 25.0-14.0	EPDM - black	EBKU	35 mbar	35		
			ISO DN15 34.0-18.1	Viton - black	VBKU				
			ISO DN15 50.5-18.1	Silicone - white	SW				
			ISO DN20 50.5-23.7	Perlast - white	PLW				
			ISO DN25 50.5-29.7						
			ISO DN32 64.0-38.4						
			ISO DN40 64.0-44.3						

Example

HCV05	-	C	-	25.0-10.3	-	M	-	08	-	EP
-------	---	---	---	-----------	---	---	---	----	---	----

Specification text

Staitech HCV05 check valve manufactured in 316L stainless steel. ISO DN8 25mm clamp connection. Metal-metal seating. 8 mbar spring. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV05-C-25.0-10.3-M-08). For electropolished finish add suffix '-EP' (HCV05-C-25.0-10.3-M-08-EP).