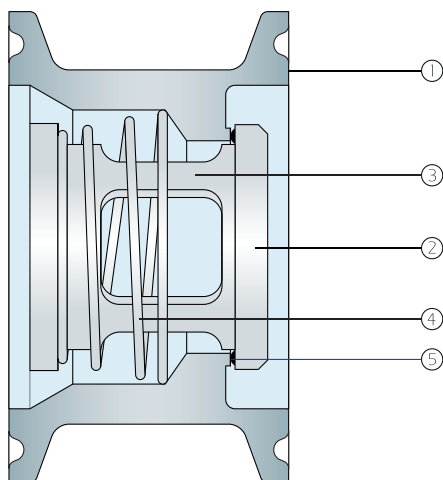




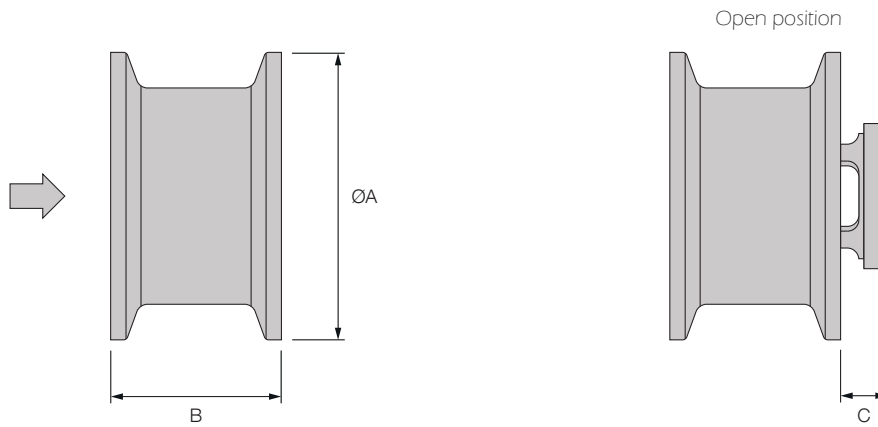
The HCV05 is a one-piece non-maintainable valve intended for steam, condensate and process fluid applications. Standard valves have metal-metal seating and a choice of 8 or 35 mbar opening pressure. A number of soft seat seal options are also available. The HCV05 is also suitable for use as an anti-vacuum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



- P Pressure Rating**
Up to 10 barg
- T Temperature Rating**
Up to - 200°C with metal-metal seating
200°C with Viton, Silicone or Perlast seat seal
150°C with EPDM seat seal
- Connections**
To suit - 1/2" - 4" ASME BPE clamp
DN8 - DN50 DIN clamp
DN8 - DN40 ISO clamp
- 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 inlet surfaces - 0.5 microns Ra
External surfaces - 0.8 microns Ra
- Options**
Enhanced surface finishes and electropolishing
Low sulphur stainless steel, C22 and other alloys
- C Available Certification**
 - CofC** Certificate of Conformity
 - MTR's** Material Certification
 - FDA** FDA Elastomer compliance certificates
 - USP** USP Elastomer compliance certificates
 - ADI** Certified 'Animal Derived Ingredient' free

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

HCV05



	vDimensions (mm)								Kv(m ³ /h)	Weight (kg)
	ASME BPE	ØA	DIN	ØA	ISO	ØA	B	C		
	1/2"	25	DN8 & DN10	25 or 34	DN8 & DB10	25	40	-	2	0.1
	3/4"	25	DN15	25 or 34	DN15	25 or 50.5	40	-	2	0.1
	1"	50.5	DN20 DN25	25 or 34	DN20	50.5	25	3	4	0.15
	1-1/2"	50.5	DN32 DN40	50.5 50.5	DN25 & DN32	50.5 50.5	30	10	8	0.18
	2"	64	DN50	64	DN40	64	35	9	18	0.35
	2-1/2"	77.5	-	-	-	-	55	12	32	1.3
	3"	91	-	-	-	-	60	12	60	1.6
	4"	119	-	-	-	-	80	15	109	2.0

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



Packaging

Individually capped, bagged and boxed



Service Parts

Standard valves with metal-metal seating are non-maintainable
Seal kit comprising part 5 (applicable to soft seated valves only)



Specification

See product selector sheet for specification and ordering detail

Staitech

Staitech Ltd · PO Box 152 · Stroud
Glos · GL6 8YT · UK

Tel: +44 (0) 1543 882736 · Fax: +44 (0) 1543 882744

E-mail: sales@staitech.com · Web: www.staitech.com

Specifications subject to change without notice. HCV05-TB - 08/16



- Spring loaded design
- Maximum operating pressure - 10 barg
- Maximum allowable temperature - up to 200°C
- 1/2" - 2" ASME BPE clamp connections
- DIN and ISO connections available

ASME BPE part number ordering key

Product	Clamp size	Connection	Seat seal	Spring	
-	-	-	-	-	
HCV05	1/2" ASME BPE	050	Clamp C	Metal M	8 mbar 08
	3/4" ASME BPE	075		EPDM EBKU	35 mbar 35
	1" ASME BPE	100		Viton VBKU	
	1-1/2" ASME BPE	150		Silicone SW	
	2" ASME BPE	200		Perlast P	
	2-1/2" ASME BPE	350			
	3" ASME BPE	300			
	4" ASME BPE	400			

Example

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

Specification text

Staitech 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).

Customer reference number:

Tag number	Part number	Quantity

Available certification (tick as required)

<input type="checkbox"/>	CofC Certificate of conformity	<input type="checkbox"/>	USP USP elastomer compliance certificates
<input type="checkbox"/>	MTR's Materials certification	<input type="checkbox"/>	ADI Certified 'Animal Derived Ingredient' free
<input type="checkbox"/>	FDA FDA elastomer compliance certificates		

DIN part number ordering key										
Product	Connection		Size		Seat seal		Spring			
	-		-		-		-			
HCV05		Clamp	C							
				DIN DN8	25.0-8.0		Metal	M		8 mbar
					34.0-8.0		EPDM	EBKU		35 mbar
				DIN DN10	25.0-10.0		Viton	VBKU		
					34.0-10.0		Silicone	SW		
				DIN DN15	25.0-15.0		Perlast	P		
					34.0-15.0					
				DIN DN15	25.0-16.0					
					34.0-16.0					
				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	
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).										
Customer reference number:										
Tag number				Part number				Quantity		
Available certification (tick as required)										
<input type="checkbox"/> CofC Certificate of conformity					<input type="checkbox"/> USP USP elastomer compliance certificates					
<input type="checkbox"/> MTR's Materials certification					<input type="checkbox"/> ADI Certified 'Animal Derived Ingredient' free					
<input type="checkbox"/> FDA FDA elastomer compliance certificates										

ISO part number ordering key										
Product		Connection		Size		Seat seal		Spring		
	-		-		-		-		-	
HCV05		Clamp	C	ISO DN8	25.0-10.3		Metal	M	8 mbar	08
				ISO DN10	25.0-14.0		EPDM	EBKU	35 mbar	35
				ISO DN15	25.0-18.1		Viton	VBKU		
					34.0-18.1		Silicone	SW		
				ISO DN20	50.5-23.7		Perlast	P		
				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		
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).										
Customer reference number:										
Tag number				Part number				Quantity		
Available certification (tick as required)										
CofC Certificate of conformity				USP USP elastomer compliance certificates						
MTR's Materials certification				ADI Certified 'Animal Derived Ingredient' free						
FDA FDA elastomer compliance certificates										