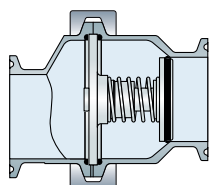
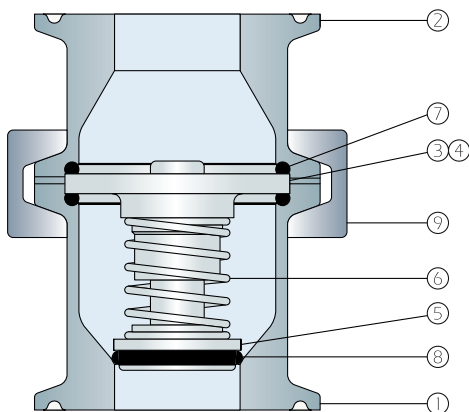




The HCV02 range is intended for use in high purity applications such as WFI systems. Valves are manufactured in 316L stainless steel with a range of seal options. Wetted surfaces are finished to 0.5 microns Ra. The standard opening pressure for the HCV02 range is 35 mbar. Where a valve is to be installed in a horizontal line and drainability maintained, then the HCV02 eccentric version is available.

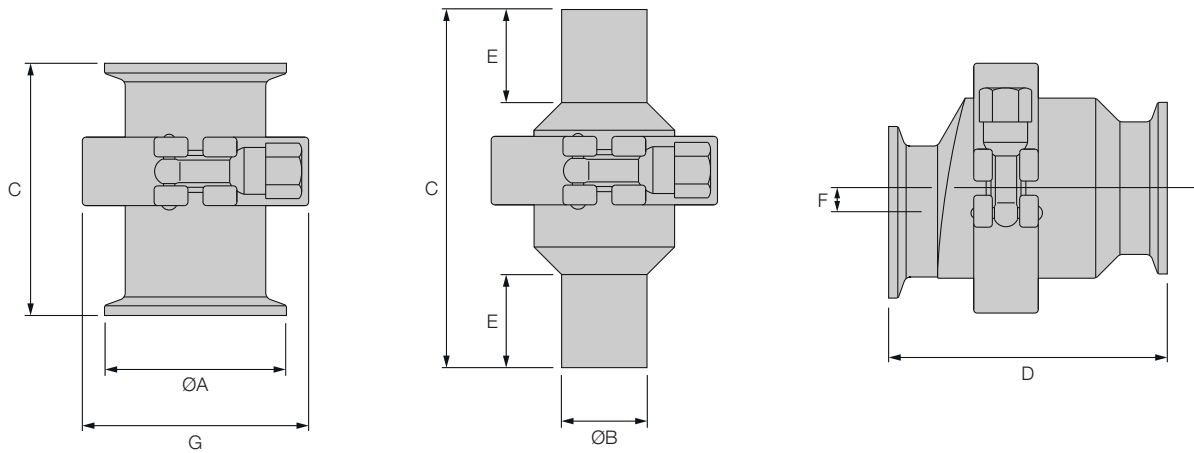


Valve with eccentric connections

- P Pressure Rating**
Up to 10 barg
- T Temperature Rating**
Up to - 135°C with FDA grade EPDM seals
150°C with USP grade EPDM seals
200°C with Viton, Silicone or FEP-Silicone seals
- Connections**
1/2" - 4" ASME BPE clamp or weld end
DN8 - DN50 DIN and ISO clamp and weld end
Concentric and eccentric connections available
- Seal Material**
EPDM, Viton, Silicone or FEP-silicone
- Opening Pressure**
8 or 35 mbar
- Surface Finish**
Wetted surfaces - 0.5 microns Ra
External surfaces - 0.8 microns Ra
- Options**
DIN and ISO clamp and weld end connections
Perlast seals
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	Inlet body	316L stainless steel
2	Outlet body	316L stainless steel
3	Guide plate	316 stainless steel
4	Stem guide	TFM PTFE
5	Stem	316L stainless steel
6	Spring	316 stainless steel
7	Body seals	EPDM, Viton, Silicone or FEP-Silicone
8	Seat seal	EPDM, Viton, Silicone or FEP-Silicone
9	Clamp	304 stainless steel

HCV02



	Size ASME BPE	Dimensions (mm)									Kv(m ³ /h)	Weight (kg)
		ØA	ØB	C (clamp)	C (weld)	D (clamp)	D (weld)	E	F	G		
	1/2"	25	12.7	80	118	-	-	28	-	60	8	0.5
	3/4"	25	19.05	80	111	85	115	28	9.5	60	8	0.5
	1"	50.5	25.4	70	113	70	107	28	6.3	60	17	0.6
	1-1/2"	50.5	38.1	80	110	82	110	28	7.0	78	27	0.9
	2"	64	50.8	80	120	90	120	28	7.0	90	40	1.2
	2-1/2"	77.5	63.5	95	122	110	137	28	14.3	120	*	1.6
	3"	91	76.2	125	145	140	160	28	14.3	135	*	2.4
4"	119	101.6	155	160	170	175	28	21.0	180	*	3.8	

* Kv valves available upon request
For DIN and ISO dimensions see sheet 4

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



Packaging

Individually capped, bagged and boxed



Service Parts

Seal kit comprising parts 7 and 8



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. HCV02-TB - 11/20



- Spring loaded design
- Vertical or horizontal configurations
- Maximum operating pressure - 10 barg
- Maximum operating temperature -
 - Up to 135°C with FDA grade EPDM seals
 - Up to 150°C with USP grade EPDM seal
 - Up to 200°C with Viton, Silicone or FEP-Silicone seals
- 1/2" - 4" ASME BPE clamp or weld end connections
- DIN and ISO sizes available

ASME BPE part number ordering key

Product	Size	Connection	Seat seal	Spring
-	-	-	-	-
Concentric	1/2" ASME BPE	Clamp C	FDA compliant	8 mbar 08
HCV02	3/4" ASME BPE	Weld W	EPDM - black EBK	35 mbar 35
Eccentric	1" ASME BPE		Viton - black VBK	
HCV02E	1-1/2" ASME BPE		Silicone - red SR	
	2" ASME BPE		FDA & USP Class VI compliant	
	2-1/2" ASME BPE		EPDM - black EBKU	
	3" ASME BPE		Viton - black VBKU	
	4" ASME BPE		Silicone - white SW	
			FEP-Silicone FEPS	

Example

HCV02	-	050C	-	EBKU	-	08
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Specification text

Staitech HCV02 check valve manufactured in 316L stainless steel with EPDM FDA and USP Class VI compliant body and seat seals. 1/2" ASME BPE concentric clamp connections. 8 mbar spring. 2-piece body clamp with hex nut closure. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV02-050C-EBKU-08). For electropolished finish add suffix '-EP' (HCV02-050C-EBKU-08-EP).

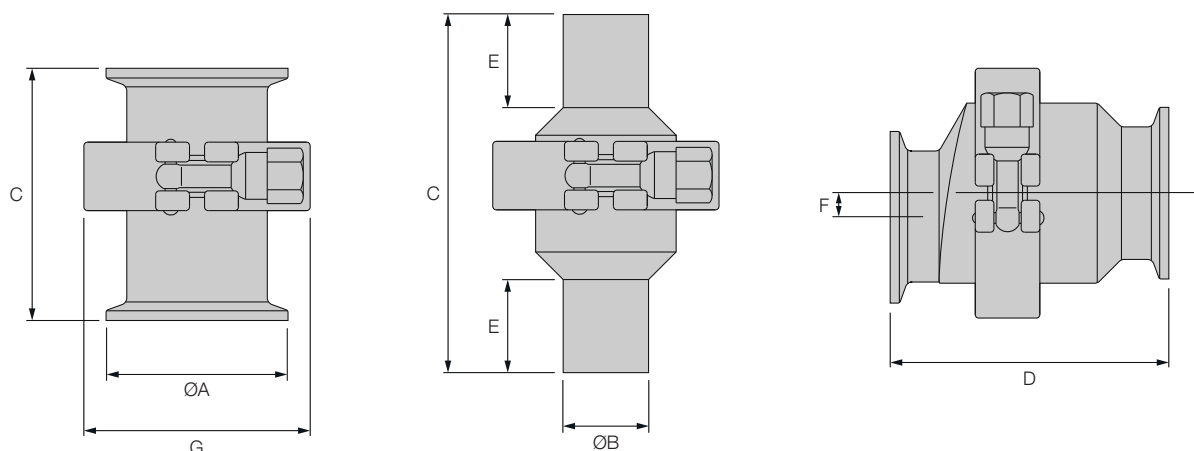
Customer reference number:









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	

HCV02



	Size DIN	Dimensions (mm)									Kv(m ³ /h)	Weight (kg)
		ØA	ØB	C (clamp)	C (weld)	D (clamp)	D (weld)	E	F	G		
	DN8	34	8	80	118	-	-	28	-	60	8	0.5
		25	8	80	118	-	-	28	-	60	8	0.5
	DN10	34	10	80	111	85	115	28	9.5	60	8	0.5
		25	10	80	111	85	115	28	9.5	60	8	0.5
	DN15	34	15	80	113	70	107	28	6.3	60	8	0.6
		25	15	80	113	70	107	28	6.3	60	8	0.6
	DN20	34	20	80	110	82	110	28	7.0	78	17	0.9
		25	20	80	110	82	110	28	7.0	78	17	0.9
	DN25	50.5	29	70	120	90	120	28	7.0	90	17	1.2
		25	29	70	120	90	120	28	7.0	90	17	1.2
	DN32	50.5	32	70	122	110	137	28	14.3	120	27	1.6
		32	32	70	122	110	137	28	14.3	120	27	1.6
	DN40	50.5	38	70	145	140	160	28	14.3	135	27	2.4
		40	38	70	145	140	160	28	14.3	135	27	2.4
	DN50	64	50	80	160	170	175	28	21.0	180	40	3.8
		50	50	80	160	170	175	28	21.0	180	40	3.8

	Size ISO	Dimensions (mm)									Kv(m ³ /h)	Weight (kg)
		ØA	ØB	C (clamp)	C (weld)	D (clamp)	D (weld)	E	F	G		
	DN8	25	8	80	118	-	-	28	-	60	8	0.5
		25	8	80	118	-	-	28	-	60	8	0.5
	DN10	25	10	80	111	85	115	28	9.5	60	8	0.5
		25	10	80	111	85	115	28	9.5	60	8	0.5
	DN15	34	15	80	113	70	107	28	6.3	60	14	0.6
		50.5	15	80	113	70	107	28	6.3	60	14	0.6
	DN20	50.5	20	80	110	82	110	28	7.0	78	17	0.9
		50.5	20	80	110	82	110	28	7.0	78	17	0.9
	DN25	50.5	29	70	120	90	120	28	7.0	90	23	1.2
		50.5	29	70	120	90	120	28	7.0	90	23	1.2
	DN32	50.5	32	70	122	110	137	28	14.3	120	27	1.6
		50.5	32	70	122	110	137	28	14.3	120	27	1.6
	DN40	64	38	70	145	140	160	28	14.3	135	40	2.4
		64	38	70	145	140	160	28	14.3	135	40	2.4

DIN part number ordering key									
Product	Connection		Size		Seat seal		Spring		
	-		-		-		-		
Concentric HCV02	Clamp	C	DIN DN8	25.0-8.0		FDA compliant		8 mbar 08	
Eccentric HCV02E			DIN DN10	34.0-8.0		EPDM - black EBK		35 mbar 35	
				25.0-10.0		Viton - black VBK			
				34.0-10.0		Silicone - red SR			
				25.0-15.0		FDA & USP Class VI compliant			
				34.0-15.0		EPDM - black EBKU			
				DIN DN20		34.0-20.0		Viton - black VBKU	
				DIN DN25		50.5-25.0		Silicone - white SW	
				DIN DN32		50.5-32.0		FEP-Silicone FEPS	
				DIN DN40		50.5-38.0			
		DIN DN50	64.0-50.0						
Concentric HCV02	Weld	W	DIN DN8	10.0-8.0		FDA compliant		8 mbar 08	
Eccentric HCV02E			DIN DN10	12.0-10.0		EPDM - black EBK		35 mbar 35	
				13.0-10.0		Viton - black VBK			
				18.0-15.0		Silicone - red SR			
				19.0-16.0		FDA & USP Class VI compliant			
				DIN DN20		23.0-20.0		EPDM - black EBKU	
				DIN DN25		28.0-25.0		Viton - black VBKU	
						29.0-26.0		Silicone - white SW	
				DIN DN32		35.0-32.0		FEP-Silicone FEPS	
				DIN DN40		41.0-38.0			
		DIN DN50	53.0-50.0						
Example									
HCV02	-	C	-	34.0-8.0	-	EBKU	-	08	
Specification text									
<p>Staitech HCV02 check valve manufactured in 316L stainless steel with EPDM FDA and USP Class VI compliant body and seat seals. DIN DN8 concentric clamp connections. 8 mbar spring. 2-piece body clamp with hex nut closure. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV02-C-34.0-8.0-EBKU-08). For electropolished finish add suffix '-EP' (HCV02-C-34.0-8.0-EBKU-08-EP).</p> <p>Staitech HCV02 check valve manufactured in 316L stainless steel with EPDM FDA and USP Class VI compliant body and seat seals. DIN DN8 concentric weld connections. 8 mbar spring. 2-piece body clamp with hex nut closure. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV02-C-34.0-8.0-EBKU-08). For electropolished finish add suffix '-EP' (HCV02-W-12.0-10.0-EBKU-08-EP).</p>									
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				
	-		-		-		-				
Concentric HCV02	Clamp	C		ISO DN8	25.0-10.3	FDA compliant		8 mbar	08		
Eccentric HCV02E				ISO DN10	25.0-14.0			EPDM - black	EBK	35 mbar	35
				ISO DN15	34.0-18.1			Viton - black	VBK		
				ISO DN20	50.5-18.1			Silicone - red	SR		
				ISO DN25	50.5-23.7			FDA & USP Class VI compliant			
				ISO DN32	50.5-29.7			EPDM - black	EBKU		
				ISO DN40	64.0-38.4			Viton - black	VBKU		
				ISO DN40	64.0-44.3			Silicone - white	SW		
					FEP-Silicone	FEPS					
Concentric HCV02	Weld	W		ISO DN8	13.4-10.3	FDA compliant		8 mbar	08		
Eccentric HCV02E				ISO DN10	17.2-14.0			EPDM - black	EBK	35 mbar	35
				ISO DN15	21.3-18.1			Viton - black	VBK		
				ISO DN20	26.9-23.7			Silicone - red	SR		
				ISO DN25	33.7-29.7			FDA & USP Class VI compliant			
				ISO DN32	42.4-38.4			EPDM - black	EBKU		
				ISO DN40	48.3-44.3			Viton - black	VBKU		
				ISO DN50	60.3-56.3			Silicone - white	SW		
					FEP-Silicone	FEPS					
Example											
HCV02	-	C	-	25.0-10.3	-	EBKU	-	08			
Specification text											
<p>Staitech HCV02 check valve manufactured in 316L stainless steel with EPDM FDA and USP Class VI compliant body and seat seals. DIN DN8 concentric clamp connections. 8 mbar spring. 2-piece body clamp with hex nut closure. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV02-C-34.0-8.0-EBKU-08). For electropolished finish add suffix '-EP' (HCV02-C-34.0-8.0-EBKU-08-EP).</p> <p>Staitech HCV02 check valve manufactured in 316L stainless steel with EPDM FDA and USP Class VI compliant body and seat seals. DIN DN8 concentric weld connections. 8 mbar spring. 2-piece body clamp with hex nut closure. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HCV02-C-34.0-8.0-EBKU-08). For electropolished finish add suffix '-EP' (HCV02-W-12.0-10.0-EBKU-08-EP).</p>											
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											