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Staitech MANUFACTURED PRODUCT

CHECK VALVE HCV01

The HCV01 check valve is designed to fit , between two ASME BPE compliant clamp fittings, sealing on the ID of the tube using FDA approved EPDM O-rings. The compact 316 stainless steel design is suitable for a wide range of duties in steam liquid and gas service, including pressure relieving and anti-vacuum applications. Standard valves have metal-metal seating. A number of soft seat seal and spring options are also available

Pressure Rating
Up to 50 barg

Temperature Rating
Up to 135°C or 205°C with alternate seals

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

Seal Material
Body seal - EPDM
Seat seal - metal-metal or EPDM

Opening Pressure
8, 35, 100 or 240 mbar

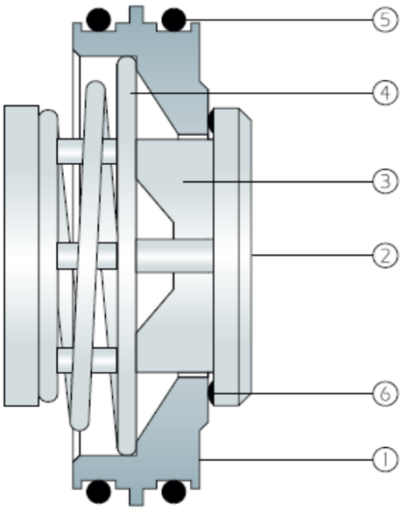
Surface Finish
Body and valve head - 0.5 microns Ra
Piston surfaces - 1.2 microns Ra

Options
Alternative spring ranges
Viton, Aflas or Kalrez body and seat seals
USP Class VI compliant seals

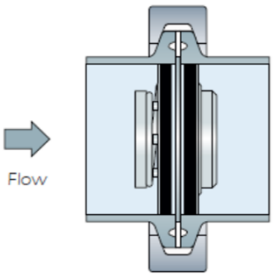
Available Certification

CofC	Certificate of Conformity
MTR's	Material Certification
FDA	FDA Elastomer compliance certificates*
USP	USP Elastomer compliance certificates
ADI	Certified 'Animal Derived Ingredient' free

*Standard seals are FDA compliant only



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



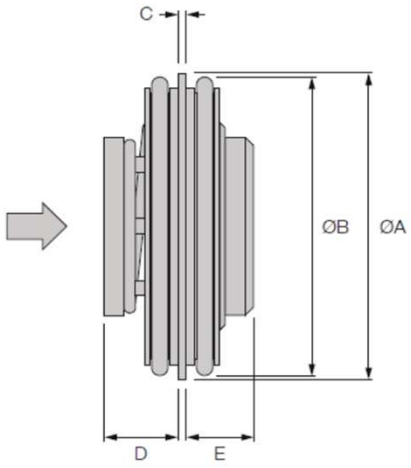
Installed valve

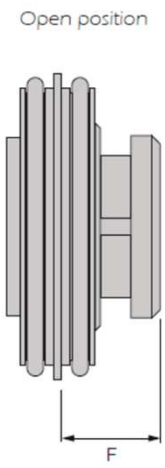
VYP
Válvulas y Procesos

Staitech

HCV01

HCV01





	Size	Dimensions (mm)						Kv (m^3/h)	Weight (kg)
	ASME BPE	ØA	ØB	C	D	E	F		
	1/2"	19.0	15.8	1.6	7.1	11.2	19.8	2	0.01
	3/4"	25.4	22.1	1.6	7.6	13.5	22.6	4	0.03
	1"	38.1	34.8	1.6	16.0	13.5	26.9	8	0.1
	1-1/2"	50.8	47.5	1.6	16.7	16.8	35.3	18	0.2
	2"	63.5	60.2	1.6	22.4	17.5	39.6	32	0.3
	2-1/2"	76.2	72.9	1.6	31.8	19.0	50.0	60	0.3
	4"	101.6	97.4	1.6	41.4	22.4	61.2	90	1.1

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