

We are '*Professionals in Process/ Product Technologies*' with following expertise-

- **Conceptualization and Engineering of Projects**
- **Module and skid building**
- **Custom-built solutions**
- **Innovative hygiene Products for Pharma/ Dairy Industry**
- **Expertise in Pharma, Food, Natural resource based projects**
- **Business partners of world class products from Europe and USA**

**Our Offerings-**

- **Bio-Reactors And Fermenters**
- **Bio - Waste Decontamination Systems / Sterilization Systems / Inactivation Systems**
- **PWDS, WFIDS, CSDS Systems**
- **CIP Plants**
- **Pharmaceutical Machinery and Bio-pharma Custom Built Modules**
- **Mixing And Blending Vessels**
- **Dairy/Starch Projects**
- **Drying And Evaporation Projects**
- **Biorefineries**
- **Piping Engineering**
- **Plug-in Temperature / Brix / pH / Pressure/ Flow Control Modules**
- **Electrical And Automation Engineering**
- **Flow Control Equipment**
- **All Types Of Valves And Valve Automation**

## Horizontal Valve

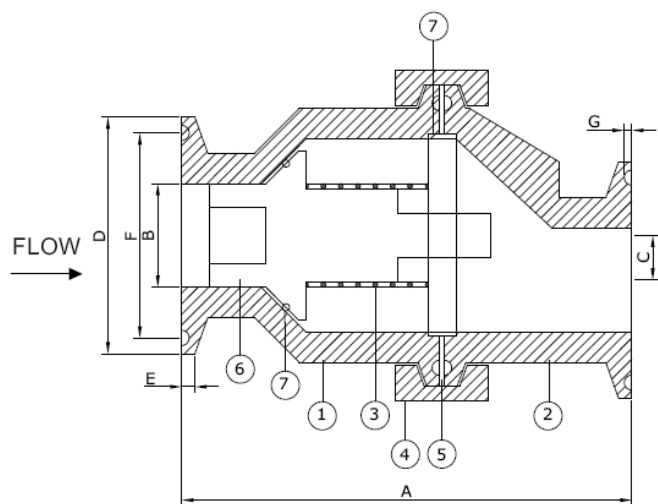


### Design and Material

Body	SS 316 / SS 316L
Seal	EPDM
Finish	Semi glossy with internal finish 0.8 Ra or electropolished
TC Clamp	SS 304

### Features

- Fully drainable in Vertical /Horizontal installation.
- TC end connections as per ASME BPE standard 3A Standard
- Material traceability certificate for components and elastomers used in check valves (FDA Approved)
- External clamps SS304
- Cracking pressure from 10 -20 mbar (on request)
- Non- magnetic MOC



SR.NO.	NAME OF PARTS	MATERIAL
1	BODY	A.I.S.I 304 / 316
2	ADAPTOR	A.I.S.I 304 / 316
3	SPRING	A.I.S.I 304 / 316
4	T.C.CLAMP	A.I.S.I 304
5	T.C.GASKET	SILICON
6	SEAT	P.T.F.E.
7	"O" Ring	E.P.D.M.

End Connections : TC

Size	MOC	Dimensional Data (mm)							O Ring	Surface Finish	External Finish	Operating Parameters	
		A	B	C	D	E	F	G				Cracking Pressure (Kg/cm <sup>2</sup> )	Operating Temperature (°C)
½ "	SS 316	65	9.5	12.5	24.99	3.63	20.32	2.15	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
¾ "	SS 316	70	15.9	8	24.99	3.63	20.32	2.15	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
1 "	SS 316	95	22.1	9.5	50.39	2.84	43.63	1.6	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
1 ½ "	SS 316	105	34.8	6.5	50.39	2.84	43.63	1.6	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
2 ½ "	SS 316	145	57	18.5	77	3	65	2	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
3 "	SS 316	135	74	12	91	3	81.5	2	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140

## Vertical Valve

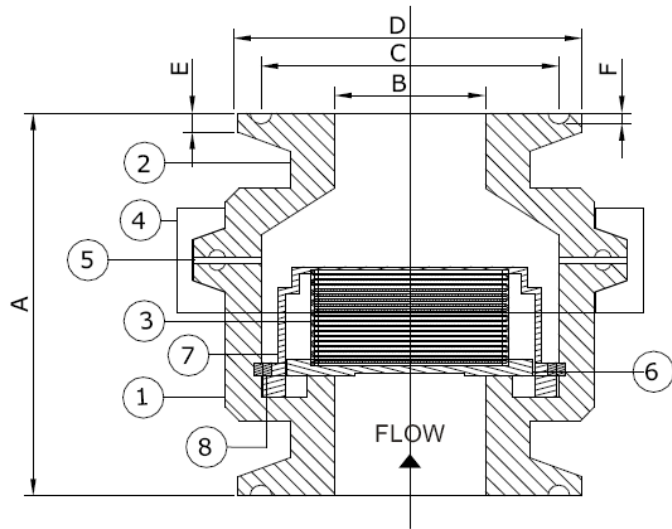


### Application

The **SMB-CK-09 in-line spring assisted NRV** is designed to prevent reversal of flow with strict clean conditions. The valve opens whenever the pressure below the plug exceeds the pressure above plug due to spring and higher counter pressure presses the plunger valve against the seat to close the valve.

### Features

- Spring assisted silent closing
- SS 316 body and seat material
- EPDM body seal
- SS 316 Spring electro polished.
- Capable of withstanding CIP at 80°C and SIP at 123 °C
- Internal surface finish 0.8 Ra
- Cracking pressure from 10 -20 mbar (on request)
- Metal to metal seat class 4 shut off / Soft seated sealing



SR.NO.	NAME OF PARTS	MATERIAL
1	BODY	A.I.S.I 304 / 316
2	ADAPTOR	A.I.S.I 304 / 316
3	SPRING	A.I.S.I 304 / 316
4	T.C.CLAMP	A.I.S.I 304
5	T.C.GASKET	SILICON
6	SEAT	A.I.S.I 304 / 316
7	CASE	A.I.S.I. 304 / 316
8	CIRCLIP	A.I.S.I. 304 / 316

End Connections : TC

Size	MOC	Dimensional Data (mm)						O Ring	Surface Finish	External Finish	Operating Parameters	
		A	B	C	D	E	F				Cracking Pressure (Kg/cm <sup>2</sup> )	Operating Temperature (°C)
½ "	SS 316	49	9.5	20.32	24.99	3.63	2.15	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
¾ "	SS 316	52	15.9	20.32	24.99	3.63	2.15	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
1"	SS 316	55	22.1	43.63	50.39	2.84	1.6	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
1 ½"	SS 316	72	34.8	43.63	50.39	2.84	1.6	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140
2"	SS 316	86	47.5	56.33	63.9	3	2	Silicon	0.8 RA	Semi Glossy	0.01 - 0.02	140

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