



Sanitary spring check valves



**SANITARY
CHECK
VALVES**

VRN-CC-TC

Spring check valve

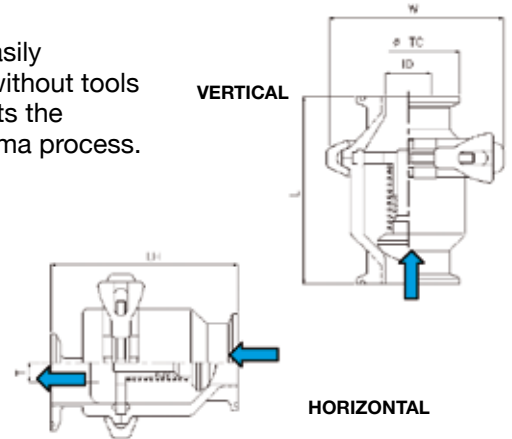
The sanitary spring check valves CC-TC are realized in two pieces machined from solid round bar in stainless steel AISI 316L, assembled with a standard BS clamp. In the standard version, the o-ring seat are in silicone, but on request, can be supply with different elastomer. Suitable for horizontal or vertical in-line position. (Fully drainable in both execution).

Applications

The sanitary spring check valves can be easily and quickly dismantled and reassembled without tools and are appreciated where necessary meets the 3A - FDA standards in chemicals and pharma process.

Advantages

- Sterilizable - Autoclavable
- High temperature and pressure resistant
- Meets FDA and 3A specifications
- Full material traceability



Dimensions table

CODE	INCH	DN	-TC	ID	LBW	LTC	LH	W
VRN-CC-TC1/2"	1/2"	15	25	9,4	70	75	75	67
VRN-CC-TC3/4"	3/4"	20	25	15,7	70	75	75	67
VRN-CC-TC1"	1"	25	50,4	22,1	85,5	85,5	95	82
VRN-CC-TC1"1/2	1" 1/2	40	50,4	34,8	96,5	96,5	96,5	94
VRN-CC-TC2"	2"	50	64	47,5	96,5	96,5	96,5	105
VRN-CC-TC2" 1/2	2" 1/2	65	77,5	60,2	105	105	105	134
VRN-CC-TC3"	3"	80	91	72,9	111,5	111,5	n.a.	134
VRN-CC-TC4"	4"	100	119		Not available			

L overall length =LBW butt weld LTC clamped LH horizontal execution
Special extended tube for orbital welding available on request

Operating conditions

Opening pressure 0,3 barg
Maximum working pressure 6 barg
Working temperature from 0°C to 150°C

Material

Valve body AISI 316L stainless steel
Reducer AISI 316L stainless steel
Guide disc AISI 316L stainless steel
Clamp assembly AISI 304 stainless steel
Body o-ring (no.2) Silicone
Spring AISI 316L stainless steel
Sealing head AISI 316L stainless steel
Sealing head o-ring Silicone



Surface finish

Wetted surface are finish with Ra<0,5 micron or better.

Marking

To guarantee full traceability, following information will permanently be marked on the valve body:

- AR logo (identif. constructor)
- CE mark (when necessary)
- material grade
- indication of the flow direction
- on request: heat number or lot number

VRN-CC-TC-H

Horizontal Sanitary check valve

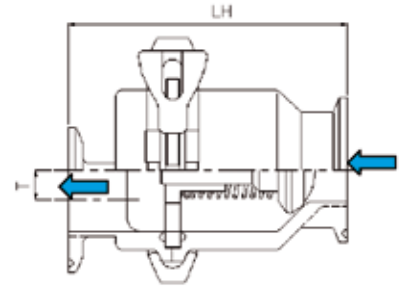
The VRN-CC-TC-HORIZONTAL is an in-line spring-assisted check self-drainable valve designed to prevent flow reversal in industries with strict cleanliness codes; realized in two pieces machined from solid round bar in stainless steel AISI 316L can be easily and quickly dismantled and reassembled with a quick release clamp, without tools and are appreciated where necessary meets the 3A - FDA standards in pharma process.

Applications

- Liquids
- Gases
- Steam

Advantages

- Self-drainable
- Sterilizable and Autoclavable
- Spring-assisted silent closing
- High temperature and pressure resistant
- Meets FDA and 3A specifications
- Full material traceability



Dimensions table

CODE	INCH	DN	-TC	ID	LBW	LTC	LH	W
VRN-CC-TC1/2"	1/2"	15	25	9,4	70	75	75	67
VRN-CC-TC3/4"	3/4"	20	25	15,7	70	75	75	67
VRN-CC-TC1"	1"	25	50,4	22,1	85,5	85,5	95	82
VRN-CC-TC1"1/2	1" 1/2	40	50,4	34,8	96,5	96,5	96,5	94
VRN-CC-TC2"	2"	50	64	47,5	96,5	96,5	96,5	105
VRN-CC-TC2" 1/2	2" 1/2	65	77,5	60,2	105	105	105	134
VRN-CC-TC3"	3"	80	91	72,9	111,5	111,5	n.a.	134
VRN-CC-TC4"	4"	100	119	Not available				

L overall length =LBW butt weld LTC clamped LH horizontal execution
Special extended tube for orbital welding available on request

Operating conditions

Opening pressure 0,3 barg
Maximum working pressure 6 barg
Working temperature from 0°C to 150°C

Surface finish

Wetted surface are finish with Ra<0,5 micron or better

Marking

To guarantee full traceability, following information will permanently be marked on the valve body :

- AR logo (identif. constructor)
- CE mark (when necessary)
- material grade
- indication of the flow direction
- on request: heat number or lot number

Note

If other than silicone elastomers are required, please specify when ordering.

In the interests of development and improvement of the product, we reserve the right to change the specifications without prior notice.



VR-BIO Spring check valve

Non Return valve, spring operated, BIO

The sanitary spring operated non return valve BIO is constructed from forged stainless steel AISI 316 in 2 pieces assembled by bolts. The guide plate is machined in the top body parts and the sealing is guaranteed by 1 silicone o-ring (other elastomers are available upon request).

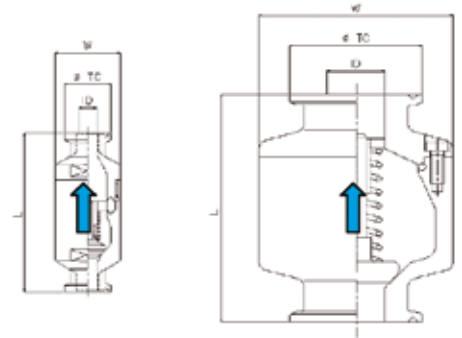
Can be used in horizontal and vertical position (fully drainable in vertical position).

Applications

The sanitary spring operated non return valve BIO, is particularly appreciated for its linear internal design which is indispensable for sanitary applications and which is obligated in chemical and pharmaceutical applications.

Advantages

- Sterilizable - Autoclavable
- High temperature and pressure resistant
- Unique O-Ring seal design minimizes bacteria traps and eliminates possibility of fluid retention
- Meets FDA and 3A specifications
- Full material traceability



Dimensions table

CODE	INCH	DN	-TC	ID	LBW	LTC	W
VR-BIO-TC1/2"	1/2"	15	25	9,4	80	85	35
VR-BIO-TC3/4"	3/4"	20	25	15,7	80	85	35
VR-BIO-TC1"	1"	25	50,4	22,1	80	80	74
VR-BIO-TC1"1/2	1" 1/2	40	50,4	34,8	80	80	74
VR-BIO-TC2"	2"	50	64	47,5	80	80	85
VR-BIO-TC2" 1/2	2" 1/2	65	77,5	60,2	95	95	117
VR-BIO-TC3"	3"	80	91	72,9	100	100	124
VR-BIO-TC4"	4"	100	119	97,4	115	115	159
VR-BIO-TC6"	6"	150	167	147	184,5	184,5	222

L overall length = LBW butt weld LTC clamped
Special extended tube for orbital welding available on request

Operating conditions

Opening pressure 0,3 barg
Maximum working pressure 6 barg
Working temperature from 0°C to 150°C

Material

Valve body AISI 316L stainless steel
Spindle AISI 316L stainless steel
Seat seal Silicone
Spring AISI 316L stainless steel
Guiding plate AISI 316L stainless steel
Body seal Silicone



Surface finish

TK-Connection product contact surface are finish with Ra<0,5 micron or better

Marking

To guarantee full traceability, following information will permanently be marked on the valve body:

- AR logo (identif. constructor)
- CE mark (when necessary)
- material grade
- indication of the flow direction
- on request: heat number or lot number