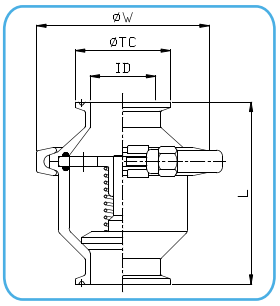
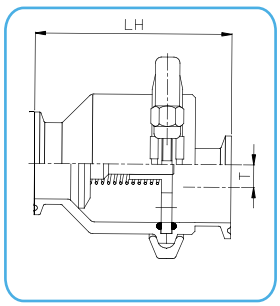
# VRN - VRH
## Sanitary Check Valves

These types of valves are designed to allow the liquid to flow in one direction only, preventing reverse flow and assuring process integrity. The two parts of the body are assembled with a standard clamp for guaranteeing fast mantainance operations. These check valves are suitable for vertical or horizontal installation, fully drainable in both execution.






VRN






VRH

| CODE | Size inch | DN | ØTC (mm) | ID (mm) | L (mm) | LH (mm) | ØW (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|
| VR{#}-050AGAG-XT1-14A | ½" | 15 | 25 | 9.4 | 75 | 77.5 | 65 | 11.3 |
| VR{#}-075AHAH-XT1-14A | ¾" | 20 | 25 | 15.75 | 75 | 75 | 65 | 8.1 |
| VR{#}-100AJAJ-XT1-14A | 1" | 25 | 50.5 | 22.1 | 85.5 | 95 | 80 | 10.5 |
| VR{#}-150AMAM-XT1-14A | 1"½ | 40 | 50.5 | 34.8 | 96.5 | 96.5 | 92 | 11.1 |
| VR{#}-200ANAN-XT1-14A | 2" | 50 | 64 | 47.5 | 96.5 | 113 | 105 | 11.45 |
| VR{#}-250AOAO-XT1-14A | 2"½ | 65 | 77.5 | 60.2 | 105 | 124.5 | 134 | 18 |
| VR{#}-300APAP-XT1-14A ^ | 3" | 80 | 91 | 72.9 | 111.5 | 134.5 | 134 | 11.65 |

{#} VRN vertical execution  VRH horizontal execution

*code **A** = TC Tri-clamp  code **B** = BW butt weld

O-Ring material code **X** = SILICONE  code **V** = FKM  code **E** = EPDM code  **F** = FEP code  **K** = FFKM

^VRH 3" available in two versions: VRH-300APAP-XT1-14A ➔ **Normal flow, minimum dead leg**

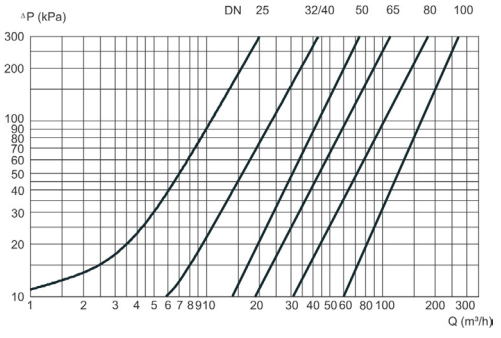
VRX-300APAP-XT1-14A ➔ **Reduced flow, no dead leg**

| | |
|---|---|
| **Size range** | ½" - ¾" - 1" - 1" ½ - 2" - 2" ½ - 3" |
| **End connections** | Tri-Clamp or butt weld dimensionally according to ASME BPE |
| **Stainless steel in contact parts Material** | AISI 316L - 1.4404 *spring in AISI 316 - 1.4401 |
| **Shutter Material** | Standard: Modified PTFE<br>*For continuos steam application: AISI 316L - 1.4404 + O-ring* |
| **O-Ring Material** | SILICONE (standard) - EPDM - FKM - FEP - FFKM |
| **Internal surface finish** | Ra ≤ 0.5µm |
| **Working pressure rating (common use)** | From 1 to 10 barg<br>*for other pressures or applications contact us |
| **Working temperature rating** | 0°C ÷ 150°C (Only for sterilization or short time) |
| **Opening pressure** | 0.03 ÷ 0.09 barg |
| **Certifications** | 3.1 material certificates (in contact) according to UNI EN 10204<br>FDA<br>USP Class VI<br>ATEX<br>other certificates on request |

## OPTIONAL:

- Butt weld connections extended for orbital welding
- Connections according to other norms
- Stainless steel shutter + O-ring
- Shutter with draining hole
- Oxygen service
- Electropolishing
- Other surface finishes
- Costumizable on request
- ATEX certification CE Ex II 2G Ex h IIB T6...T3 Gb
  II 2D Ex h IIIC T85°C...T155°C Db

### Pressure drop/capacity diagram




For the diagram the following applies medium Water at 25°C

CONFIGURATOR

DATASHEETS

**Last updates can be found on our website - www.aerreinox.it**

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





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