

## Tank Dome Adapter : Multifunction Support **XCHE**®



Gaskets :



### OVERVIEW :

The XCHE is a device placed on the dome of a tank. At a single point, it can be fitted with equipment for pressure (SHP safety valve) and vacuum protection (BOG or HSV-A vacuum break valves depending on diameters), for washing the tank, the XCHE and all its components, and for pressurising and recovering fermentation gases (CHE washing check valve). The XCHE is also equipped with additional taps, for stainless steel rupture disc and/or for pressure sensor.

### KEY BENEFITS :

- ▲ Smaller size of the all-in-one device to facilitate installation on new or re-conditioned tanks
- ▲ Reduced installation costs, in particular because of the small number and diameters of connections, and by using the same tubing for all the features described above
- ▲ Total protection of the tank, in particular against thermal and chemical shocks
- ▲ Continued operation assured during process phases (recovery of fermentation gases, pressurizing, rendering the interior inert, etc.), including when the washing ball is immersed
- ▲ Product quality preserved as a result of a design complying with the most stringent international hygiene standards and of reinforced sanitising (CIP/SIP)

### APPLICATIONS :

- ▲ Manufacture and storage of **alcoholic carbonated beverages** (*beer, sparkling wine, cider, etc.*) and **non-alcoholic drinks** (*water and other sodas*)
- ▲ This equipment is designed for fermentation tanks, filtered beer tanks, yeast propagating apparatus, yeast storage tanks, conditioning tanks, manufacturing tanks, storage tanks and other buffer tanks

### TECHNICAL SPECIFICATIONS :

**Pressure:** Up to 6 bars depending on diameter

**Working temperature:** Up to 120 °C depending on tightness

**Sizes:** ND 100, ND 125, ND 150, ND 250 and ND 320

**Connection to tank:** Flange up to DN150, to weld above that

**CIP/Gas connection:** Male, clamp, DIN/SMS/ND 40 to 76

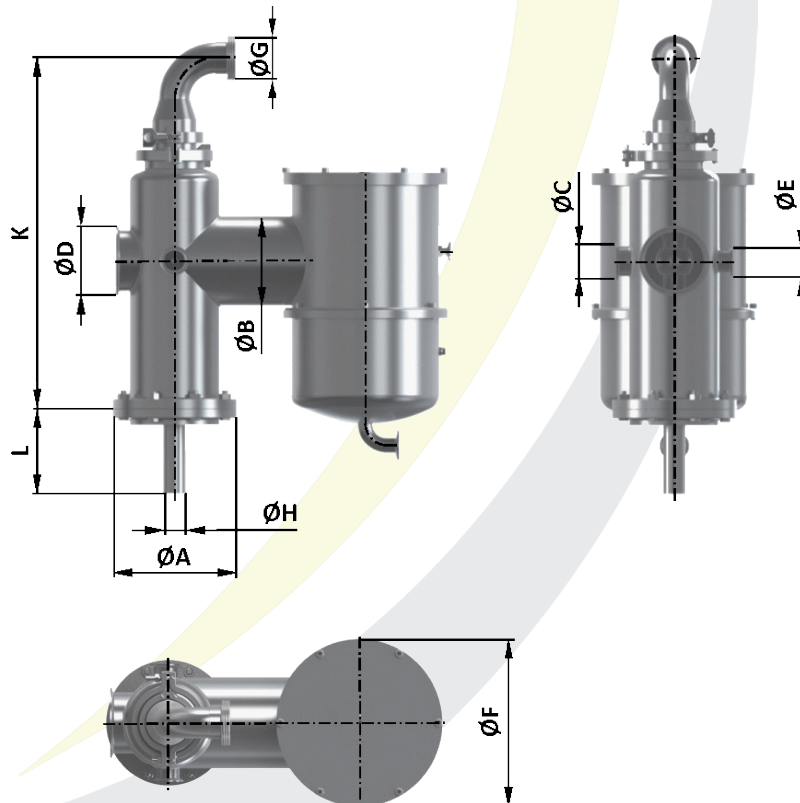
**Washing ball connection:** Smooth, 25 or 38 mm

#### Materials:

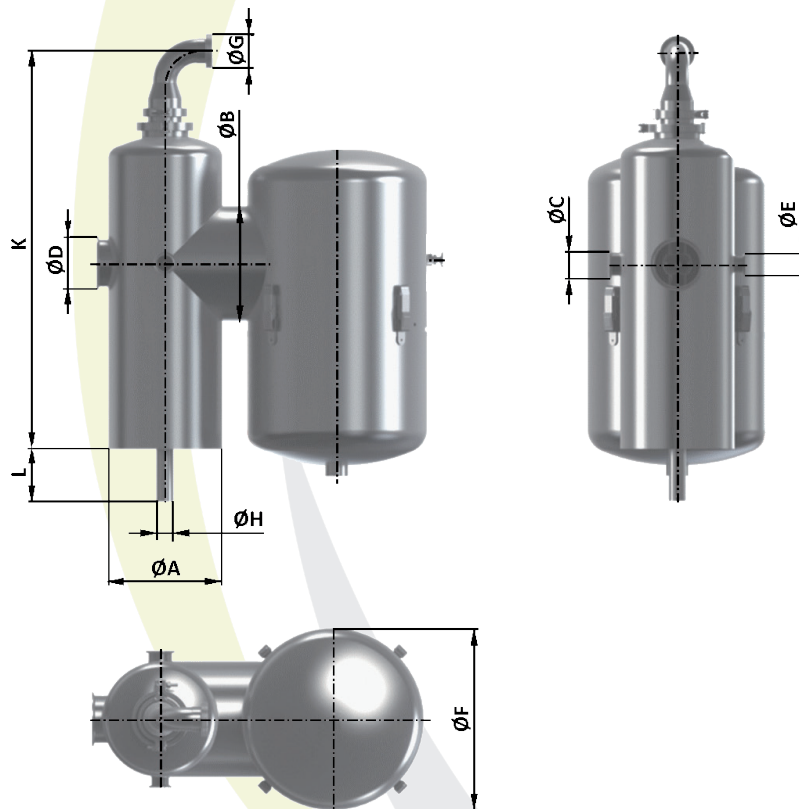
- Parts in contact with the product: 1.4307 (304L) or 1.4404 (316L) according to size & PTFE (Polytetrafluoroethylene, eq. Teflon®)
- Other parts: 1.4307 (314L)
- Tightness: EPDM (Ethylene Propylene Diene Monomer) gaskets

### DIMENSIONS IN MM (standard version):

SIZES	1	2	3
ØA: Connection to tank	104*2	154*2	154*2
ØB: Connection to vacuum valve	65	100	154
ØC: Connection to pressure valve	50,5	50,5	64
ØD: Connection for rupture disc (option)	50,5	77,5	119
ØE: Connection for pressure measurement (option)	50,5	50,5	50,5
ØF: Dimension plan of vacuum valve	109	183	284
ØG: Washing input/CO <sup>2</sup> input or output	Between 40 and 76		
ØH: Washing tubing	38		
K: Height above the tank	630		
L: Length of washing tubing inside tank	Available upon request		



SIZES	4	5
ØA: Connection to tank	254*2	324*2
ØB: Connection to vacuum valve	250	320
ØC: Connection to pressure valve	77,5	77,5
ØD: Connection for rupture disc (option)	119	119
ØE: Connection for pressure measurement (option)	50,5	50,5
ØF: Dimension plan of vacuum valve	400	500
ØG: Washing input/CO <sup>2</sup> input or output	Between 40 and 76	
ØH: Washing tubing	38	
K: Height above the tank	960	
L: Length of washing tubing inside tank	available upon request	



Servinox makes every effort to update its documents in line with improvements to its products.

### OPTIONS :

- Tap with ferrule clamp for installing the stainless steel rupture disc
- Tap for installing the pressure sensor
- Other materials and designs available upon request
- Other connections on tank (up to DN150): Male, female, clamp
- Sealing: FKM (Fluorocarbon Rubber, eq. Viton®), VMQ (Silicon), NBR (Nitrile rubber), FFKM (Perfluoroelastomer, eq. Kalrez®)
- Forced opening of vent valves
- Version for installing on buffer tank for additional accessories
- Customised equipment: please contact us

### GUARANTEE:

12 months after shipment (*except for special conditions*)

### COMPLIANCE :

- Gaskets compliant with **FDA CFR 21.177.2600** and European regulation **1935/2004/EC**
- Ducting and tank accessories compliant with **PED, European Pressure Equipment DESP 2014/68/UE, §4.3**
- **ATEX Directive « ATEX 2014/34/UE, zones 1 & 2, gas and dust »**
- Internal washing: equipment tested by the **IFBM** (French Institute of Brewery and Malthouse Beverages)
- Compliance of SHP, BOG, HSV-A equipment: see individual data sheets

SERVINOX follows the recommendations of international guidelines and standards relative to hygienic design and construction, in particular those of the EHEDG and 3-A.

Non contractual document and pictures, subject to change with no prior notice.

Only the commercial offer and the technical manual supplied with the equipment may be used for technical and legal purposes