



# TK CONN

## Aseptic Connection



Sanitary  
flow  
equipment



# TK CONNECTION

## FLUSH MOUNTED TC CONNECTION



Syringe device  
on TK connection



sampling valve on TK Connection  
Typ. installation

### Function:

Hygienic device features a compact design that allow the installation of typical. Clamp-connections on top, bottom or side wall of a tank. Once installed, the clamp gasket shuts off flush with the inside tank wall with a zero dead leg.

It gives better CIP/SIP (Cleaning In Place/Sterilisation In Place) performance.

Fit for clamped valves, sight glasses, sampling devices, manometer, tank bottom valves.

The equipment can be removed and the TK sealed with a standard blind cap.

### Design:

The TK-Connection consist in:

- WELDING FLANGE drainable, in accordance with PED directive available in different thickness and complete with BOLTS
- LOCKING RING split in two parts for easier mounting of the equipments and double safety.
- NUTS in quantity of 4, 6, 8 (size depending)

### Requirement:

The TK-Connection meets the followings:

- ASTM A270 for pipe standard
- SMS 3008 for tube standard
- ISO 1127 serie 1 for tube standard

### Feature:

- eliminates dead leg
- no product entrapment
- ensures quality of CIP/SIP procedure
- no air pockets during sterilisation
- flexible, fast and easy to adjust different equipment
- full material traceability
- PED 97/23/CE certified product
- customized for your needs

# TK IN-LINE

## Pressure directive:

The TK-Connection are designed according to directive PED 97/23/CE for Europe, ASME VIII Div.2 for US and F.E.M. (Finite Element Method) calculated, approved and certified by notified body.

## Operating conditions:

Design Pressure : -1 bar to 7 bar g  
(-14,5 psi to 101,5 psi)  
Design Temperature : -80°C to 200°C  
(-112°F to 392°F)

## Material:

welding flange ASTM A 479 / ASTM A 182 - 316L  
locking ring ASTM A 479 / ASTM A 182 - 316L  
bolts ASTM A 193 B8 - 304  
nut ASTM A 194 8 - 304

## Surface Finish:

Product contact surface are finished to Ra<0,5 mm or better

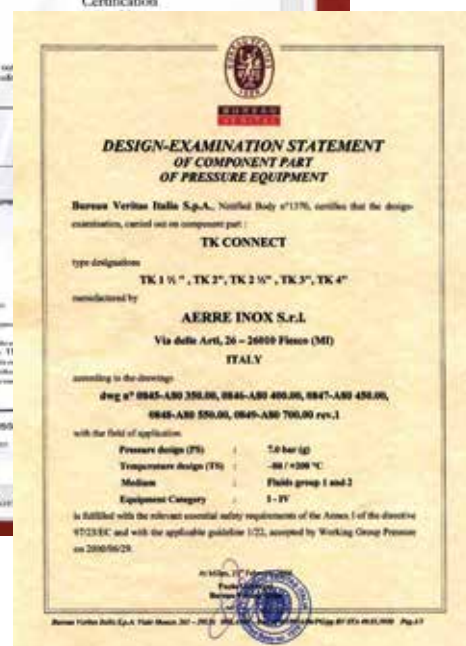
## Documentation:

TK-Connection supply include the following documentations:

- PED conformity certificate
- welding guideline
- 3.1B certificate on wetted parts

## Marking:

Each TK-Connection is marked with Heat No. for full lot traceability

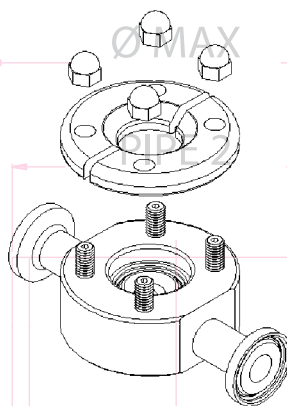




# TK IN-LINE

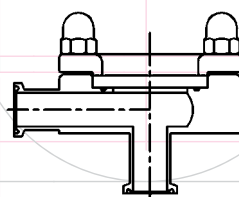
**Fig. 6 TK IN-LINE HOUSING**

Available with clamped or butt weld ends for pipe standard according to ASTM A269 /270, ISO 1127 or DIN 11851. Special extended tube for orbital welding on request.



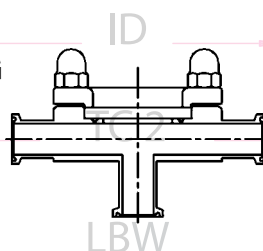
**Fig. 7 TK IN-LINE ANGLE HOUSING**

90° Angle in-out. Available with clamped or butt weld ends for pipe standard according to ASTM A269 /270, ISO 1127 or DIN 11851.



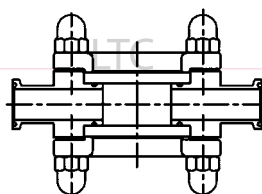
**Fig. 8 TK IN-LINE THREE WAY HOUSING**

Three way equal (drain reduct available). Available with clamped or butt weld ends for pipe standard according to ASTM A269 /270, ISO 112 or DIN 11851.



**Fig. 9 TK IN-LINE DOUBLEX HOUSING**

In-line version completely open on both sides.



## Ordering information

To specify the part completely, start with the product description and select the additional options as shown below:

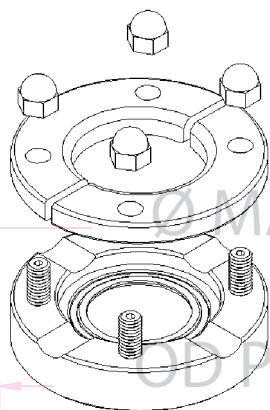
	Description					material
TKconnections for tank	TK	Conn	50	25	1.4404	Ra
TKconnections in line	TK	LINE	1"½	¾"	BW	Ra
						surface finish
						Ra <0,6 micron as standard other finish can be supplied upon request
						end connections
						TC clamp ASME-BPE BW butt weld OD
						thickness
						standard, 25 mm, 38 mm, 51 mm other different thickness can be supplied upon request ¾" in-line pipe size
						norms
						Conn BS 4825 for pipe according ASTM A270 DIN 32676 for tube according DIN 11850 Reihe 1-3 ISO 2852 for tube according ISO 1127 serie 1 LINETK-in line for pipe according ASTM A270
						size
						for BS : inches ½", ¾", 1", 1"½, 2", 2"½, 3", 4" for ISO-DIN : DN8, 10, 15, 20, 25, 32, 40, 50, 65, 80, 100 for SMS : 12, 18, 25, 38, 51, 64, 76, 102 1"½ TK-Connection size

# TK CONN

## ASEPTIC TANK CONNECTION, WITH BOLTED SPLIT RINGS

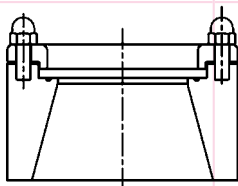
### Fig. 1 TK- CONNECTION

Available in size from  $\frac{3}{4}$ " up to 4", DN10 up to DN100 in four different thickness : std, 25 mm, 38 mm, 51 mm According to ASTM A269 /270, ISO 1127 or DIN 11851. Material 1.4404 – 1.4435 – Hastelloy C22 – C276 on request. Designed for use of standard clamp gaskets. According to PED 97/23/CE directive and ASME VIII Div.2



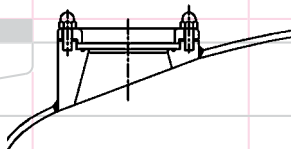
### Fig. 2 TK- CONN BLOCK HOUSING

For special applications onto tank welding. According to ASTM A269 /270, ISO 1127 or DIN 11851. Material 1.4404 – 1.4435 - Hastelloy C22 – C276 on request. Non-standard product, custom thicknesses, avoids warping.



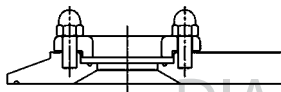
### Fig. 3 TK- CONN ANGLED HOUSING

Angle profile cutted TK-Connections customized. For tank welding where orthogonal connections required Special execution High/angle as to be agree. Material 1.4404 – 1.4435 - Hastelloy C22 – C276 on request



### Fig. 4 TK- CAP

Standard TK-Connections in various size machined directly in a special 8 -10 or 12" clamp tank cover cap for pharma and biotechnology applications, custom made on request Std. material 1.4404, 1.4435 on request



### Fig. 5 TK- CONN JACKET HOUSING

TK-Connections with special profile dedicated for pharmaceutical reactors with cool/heat jacket or thermal insulation cladding.

