



Vertical pressure vessel in cylindrical form with conical bottom and torispherical end. The pressure vessel is manufactured according to the PED (97/23/EC), PED Class III, Module H, ATEX Zone 2 outside.

Technical data:

Design temperature	0 to +150 °C
Operating temperature	0 to +150 °C
Design pressure	-1 to +4 barg
Operating pressure	0 to +2,5 barg
Number of load cycles	6000
Product	Fluid Group 2

Materials:

Product wetted surface: EN1.4435 (delta ferrite content $\leq 3\%$)
 Not product wetted surface: EN1.4301
 Gaskets (product wetted): EPDM, acc. USP <87> or <88>, Class VI
 Insulation: mineral wool, AS-quality
 Screws/Nuts: A4-70/A2



Surface and welds finishing:

	external (not product wetted)	internal (product wetted)
surface	legs, bottom and tank wall brushed (K120), certified roughness $Ra < 3,2 \mu m$, 100 % of tank surface	brushed and electropolished, certified roughness $Ra < 0,8 \mu m$, 100 % of tank surface
welds	vertical and horizontal butt welds on the tank wall flat brushed (K120), roughness $Ra < 3,2 \mu m$; corner welds of the connections brushed (K120), roughness $Ra < 3,2 \mu m$	butt welds flat brushed (K180), certified roughness $Ra < 0,8 \mu m$, 100 % of tank surface; corner welds brushed (K180), certified roughness $Ra < 0,8 \mu m$



Documentation and control procedures:

- Technical datasheet, Construction drawing
- Operation and maintenance manual
- Roughness measurement
- Pressure tank calculation according to PED (97/23/EC) Cat. IV
- CE Declaration of conformity
- Test and inspection sequence plan
- List of materials for product wetted parts, certificates 3.1
- Riboflavin testing
- Electropolishing protocol; ref. ASTM A-967 NORM
- PT probe protokoll
- FDA certificate
- Report of cleaning before delivery
- Factory Acceptance Test (FAT)
- Welder certificates, WPS

