



## Typical Specification: Surge Vessel with Capacity of 8500 L

**Type: Vertical Above ground, cylindrical shell, dished ends**

**Product: Clear water/Portable Water/Treated Sewage**

### 1. Technical Characteristics / Project:

- Construction Code: ASME VIII Div 1 with U-STAMP
- Pressure: Service / Calculation Example =25 bar/ - test pressure: 37.5 bar
- Temperature: Service / Calculation = 20 / 50 °c
- Corrosion Allowance Thickness = 3 mm
- X-Ray: 100% (Shell + Dished Ends)

Materials: Shell / Dished Ends / Nozzles = A 516 Gr. 70 / ASTM

-Pipes = A106 Gr.B / ASTM

-Unions = A105 / ASTM

- Bladder: Polyurethane / EPDM

### 2. Dimensional Characteristics:

- Diameter = 1600 mm
- Length = 3480 mm

### 3. Constructive Characteristics:

- Manhole entrance on the superior dished end DN500
- 1 pipe input / output / outlet connection: DN400
- 1 pipe drain: Ø1" Gas
- 2 liftings eye
- Nozzles for the connection of: -air intake

-safety Valve

- manometer

### 4. Finishing:

- Inside Surfaces: Steel Blasting to the degree of SA 2,5 (ISO 8501-1); Epoxy Coating System = 250 microns.



- Outside Surfaces: Steel Blasting to the degree of SA 2,5 (ISO 8501-1) Epoxy / Polyurethane Coating System – 150 microns.

**5. Safety Equipment:**

- 1 Safety Valve 2 ”
- 1 Pressure gauge DN150

**6. Other Accessories**

- Rosemount Pressure Level Transmitter
- Dual plate check valve PN10/16/25/40

**Other comments:** Due to transport regulations the surge vessel cannot be pre-charged above 0.5 bar (Filtered Normal Air/ Nitrogen)

Final Pre-Charge at Commissioning.

**7. Surge Analysis**

- Upon request