## Calculation and Selection of Expansion Vessels



Selection result

| Elbi : AF |  |
| :--- | :--- |
| Italy |  |
| $\mathbf{1 5 0}$ liters | Tank volume |
| $\mathbf{1} \mathbf{~ p c s}$ | Number of expansion tanks |
| $\mathbf{1 0} \mathbf{~ b a r}$ | Maximum operating pressure |
| $\mathbf{1 . 5} \mathbf{~ b a r}$ | Initial pressure of the gas space |
| $\mathbf{5 0 0} / \mathbf{1 0 3 0} \mathbf{~ m m}$ | Diameter / height of the tank |
| DN $\mathbf{3 2} \mathbf{~ m m}$ | Diameter of the connecting pipe |



## Pressure adjustment guide

[^0]
[^0]:    Before connecting the Expansion Vessel to the water supply system, an initial pressure in the gas space must be established at 2.8 [bar]. Creating the initial pressure in the tank can be achieved by inflating it through the nipple in the tank's casing using a compressor.
    The pump station is configured for the switch-on pressure 3.5 [bar] and the switch-off pressure 4.5 [bar]. After the pump is turned on, the system fills with water, but water will only enter the tank when the water pressure exceeds the initial pressure in the gas space. When the switch-on pressure 3.5 [bar] (minimum operating pressure for the water supply system) is reached, there will already be a water reserve of 23 [liters] in the tank. This water reserve in the tank is necessary to cover the water consumption during the time elapsed from the moment the pump is turned on until the water is supplied from the pump to the plumbing system. In the absence of a reserve, an unstable water supply mode with interruptions is possible when all the water has been expelled from the expansion Vessel, and the pump has not yet had time to turn on.

