

## Storage Reservoirs

PolyComp a.s. provides a complex solution of the entire heat storage system in hot water or steam modifications, from its design to the supply of the respective equipment and heat storage unit.

### Steam Storage Reservoirs

Steam storage reservoirs are designed as horizontal pressure vessels with cylindrical sheathing, enclosed by dished heads. A heating steam distribution system inside the storage reservoir provides the heating of its water contents. Internal steam distribution depends on the flow and parameters of inlet charging steam. The storage reservoir is supplied on bearing supports, sheathed and insulated. To assure a clean steam outlet, a built-in structure, placed before the steam outlet, arrests the water carried by steam. Storage reservoirs are available in capacities from 4m<sup>3</sup> to 40m<sup>3</sup>. Maximum design pressure: up to 2 MPa Maximum charging steam temperature: up to 300 °C.



### Hot Water Storage Reservoirs

They are available in two modifications:

#### 1. Pressurised storage vessels

Pressurised storage reservoirs are vertical, insulated vessels of cylindrical shape. There is a built-in structure inside the vessels, limiting heat losses during charging and discharging. The built-in structure is always designed for a particular pre-set charging and discharging capacity of the storage reservoir, maintaining its maximum heat storing capacity.

#### Technical parameters

Maximum allowable temperature drop - cold/hot water:	25 °C
Maximum water temperature:	200 °C
Maximum design pressure:	1,4 MPa
Vessel capacity:	up to 40 m <sup>3</sup>

#### 2. Pressure-free storage reservoirs

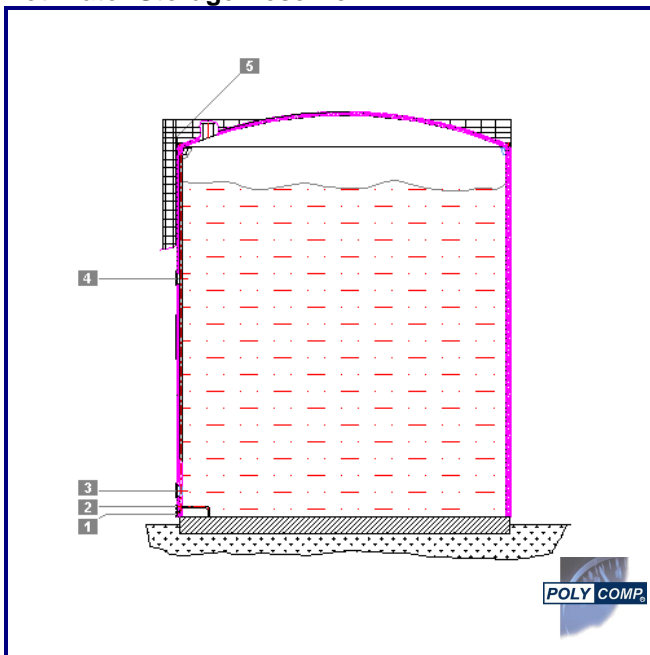
Pressure-free storage reservoirs' vessels are designed in the form of standing cylindrical vessels, manufactured, equipped, checked, tested and approved according to ON 69 8119. The built-in structure inside the vessel prevents water from mixing during the charging and discharging operations. This structure is always designed for a particular pre-set charging and discharging capacity, maintaining the storage reservoir's maximum heat storing capacity. The inside surface of the vessels has an anticorrosive protection system. This system extends the durability of the vessels without the necessity of having to increase the vessel weight by anti-corrosive surfacing.

#### Technical parameters

Maximum allowable temperature drop - cold/hot water:	25 °C
Maximum water temperature:	95 °C
Vessel capacity:	up to about 25 000 m <sup>3</sup>



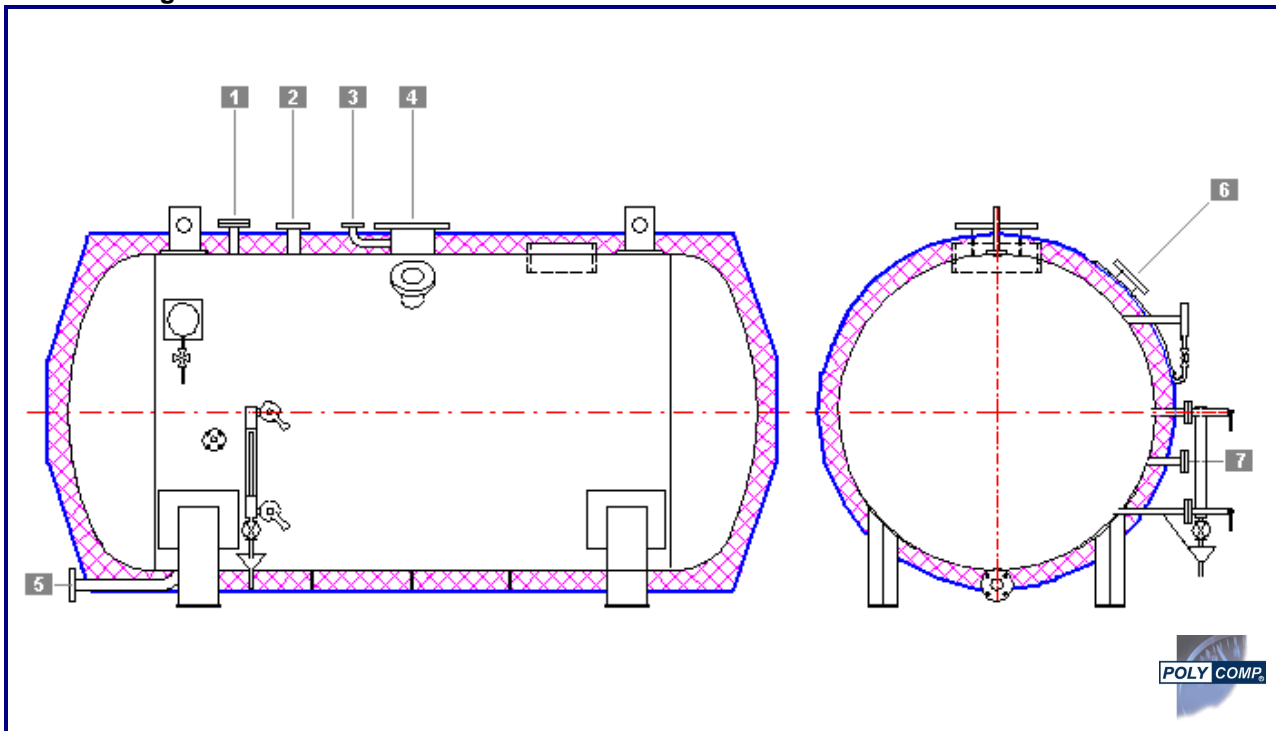
## Hot Water Storage Reservoir



### LEGEND:

1. Overflow | 2. Intermittent blowdown | 3. Water inlet | 4. Water outlet | 5. Service platform

## Steam Storage Reservoir



### LEGEND:

1. Filling | 2. Safety valve branch | 3. Deaeration | 4. Steam outlet | 5. Intermittent blowdown | 6. Steam inlet | 7. Overflow

### PolyComp, a.s.

Na Hrázce 22  
290 01 Poděbrady  
Tel.: +420 325 604 111  
Fax: +420 325 604 666  
E-mail: [polycomp@polycomp.cz](mailto:polycomp@polycomp.cz)  
Internet: [www.polycomp.cz](http://www.polycomp.cz)