

DT 5

Pressure tank up to 5 MPa / 50 bar

Technical Information

Revision 1.3

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The pressure tank is used for the medium supply of metering valves, for example the micrometering valve with piezoelectric drive DV 100. The pressure tank is constructed in a way, that the medium to be delivered, is pushed in a reserve-vessel which is located in the tank. An ascending pipe leads the medium toward the valve pneumatically. Through installed blocks, a slanted-position of the tank is realized. This guarantees an almost complete emptying of the reserve-vessel. The pressure tank is locked with a screw cap that already seals at a low tightness. Therefore, the screw cap can be normally removed without any tool.

2. Technical data

external dimensions	Ø 178 mm, height 291 mm, (without blocks)
internal dimensions	Ø 114 mm, height 220 mm
product pipe connection	¼ inch external thread with 60° cone
connection compressed-air piping	¼ inch inside thread
maximum vessel size	Ø 100 mm, height 190 mm, opening for ascending pipe min. Ø 20 mm
max. working pressure	5 MPa (50 bar)
excess pressure protection	bursting disk (bursting pressure 60 bar or 6 MPa)
material	stainless steel, optional aluminium
weight	25 kg, aluminium 11 kg

3. Safety Instructions

The bursting disk must only be replaced with an identical part after bursting due to overpressure. The cause of the overpressure has to be removed before using the pressure tank again.

It is not allowed to use the tank with explosive media. Do not use dangerous gas for pressure feed. The screw cap has to be secured until its mechanical stop. Open the screw cap after taking away the pressure only.

The described electric devices and machines are equipment to be used in industrial installations.

Therefore the persons in charge for the safety of this installation have to guarantee that

- unqualified personnel is not allowed to work on the devices and machines or in close proximity to same
- only qualified personnel will be instructed to work on the devices and machines
- among other things the operating manual and the other documents will always be at the disposal of these persons while effecting the corresponding work and that they will be obliged to observe these documents resolutely

Qualified personnel are persons, who – due to their training, experience and instruction as well as to their knowledge of relevant standards, regulations and rules for prevention of

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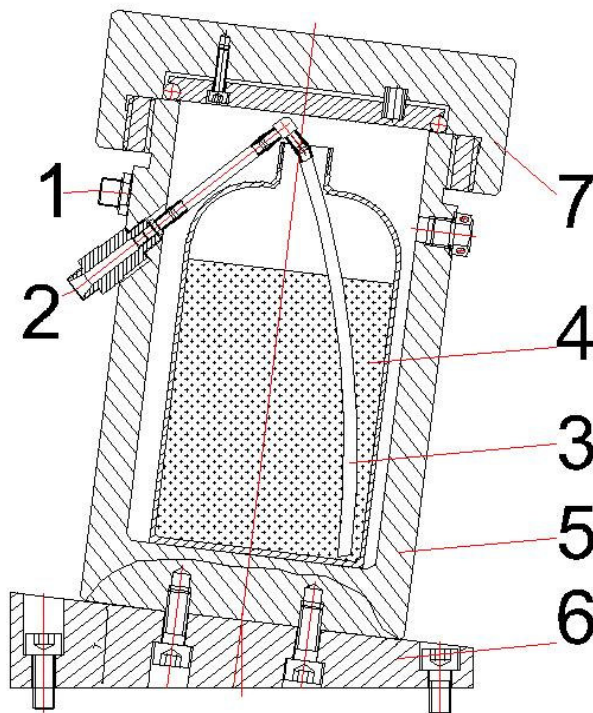
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accidents and operating conditions – have been entitled by the person in charge for the safety of the installation to effect the required work and who are able to recognize and avoid possible dangers on this occasion. (definitions for specialists according to VDE 105 or ICE 364)

The warranty for the products of PICODOSTEC GmbH follows exclusively the current setting of our general business conditions.

These safety instructions do not lay claim to completeness.

4. Sectional drawing pressure tank



no.	description
1	connection compressed-air pipe
2	connection product pipe
3	ascending pipe
4	medium
5	pressure tank body
6	blocks
7	Pressure tank screw cap

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5. Photo of pressure tank with removed screw cap



We scrutinized this product manual very carefully. However, we cannot guarantee that same is without faults. If you have further questions or need some advice please get in contact with:

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