ABSTRACT

The invention pertains to a pressure tank for storing gaseous media under pressure, consisting of a longitudinally welded pipe, which is closed at both ends and which has an opening at least at one end for the filling and emptying of the tank.

According to the invention, the longitudinally welded pipe (1, 2), produced by the UOE process, has a diameter of ^{3} 508 mm and a minimum yield strength of ^{3} ×70. Its open ends are connected to and sealed off by dome-like dished parts (4, 5). The pressure tank thus obtained is rated for a minimum filling pressure of 200 bars at room temperature. One dished part (5) is provided with an opening, through which the tank can be filled and emptied.

The longitudinal weld of the pipe (1, 2) and all other connecting welds (3, 6, 7) are designed to provide the greatest possible fatigue strength with respect to wide load amplitudes.

(Figure 2)

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