



ABT HT-5 HYDRAULIC BUFFER USER MANUAL



ABT HT-5 and HT-6 Hydraulic Buffer should be used in energy consuming hydraulic buffer elevator installations. It has been designed in accordance with the 2014/33/EU directive and TS EN 81-20:2020 and TS EN 81-50:2020 standards as a car and counterweight buffer, within the limits of the usage area, and has been produced for use in all elevators. It is not suitable for use for any other purpose.



In case the cabin or counterweight exceeds the specified travel distance, it is the main task of the hydraulic buffer to ensure stopping by hitting the bumper. When the cabin or counterweight is seated on the bumper, it exerts pressure on the piston, and with this pressure, the oil inside the cylinder is transferred to the outer cylinder by passing through the holes in the cylinder wall. The dimensions of the holes, the number of holes, the amount of oil and the stroke size are designed by calculating in the right proportion with the provision of braking. During the downward movement of the bumper, a mechanically operated switch is activated and deactivates the electricity. With the discharge of the load on the hydraulic buffer, the switch returns to its working position with the pressure of the spring.



The hydraulic buffer is an approved safety part as per the standards. It should be used in accordance with its purpose, it should be assembled, commissioned, the elevator shaft should be made to the dimensions required by the standards and no changes should be made on the product that is shipped ready for operation.

Maintenance should be done at least twice a year at regular intervals, the way of mounting and the tightness of the bolts, oil level control, oil traces, drops or cracks should be checked by hand and eye contact. If the oil level is low, type DIN 51524 must be supplemented with HLP 46 oil.



Checking the function of the safety switch, if possible, the resistance should be felt by pressing it by hand, and it should be seen that the safety switch, which the cylinder returns, makes opening and closing. In the event of a defect, it must be replaced with a new one, since the functions will be hindered.