Abstract

The invention relates to a very compact device and a process for operating closures of vessels by means of rotation-symmetric reciprocating piston mechanisms combined with a guide cylinder and mainly operated by a medium simultaneously used as process fluid in the pressure vessel. The upper face of the hydraulic piston at least forms a part of the vessel closure or it is provided with a rigid link to said closure. The ideal medium used to drive the hydraulic piston and to carry out the process is a supercritical fluid.

(Figure 1)