

Summary

A new system of hydraulic and piston cylinders for the lifting of large loads manufactured based on commercial tubes, in which the cylinder tube (1), closed on its lower part possesses a welded and rigid washer (2) on its lower part and inside the aforementioned cylinder. The piston has another rigid washer welded to it (4) at a certain distance from the lower end and on its outer surface. Between the two there is an O-Ring seal (6) of variable geometry that is constructed with an elastomeric, compressable and deformable material of low friction and high elasticity and a free washer. The compression of the O-Ring seal makes up a system that closes, guaranteeing its watertightness.

(Figure 1)