

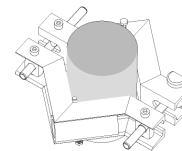
**PISTON TRAVEL LIMITER
 HOW TO PLACE IT INSIDE THE PISTON**

WHAT DO YOU NEED ON SITE:

- A) Hoisting machine or “Block and Tackle”



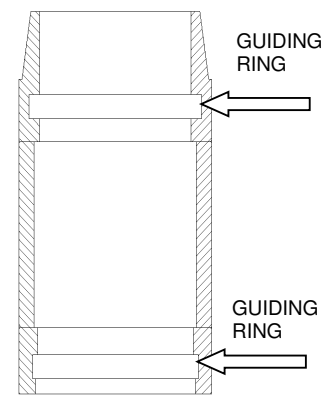
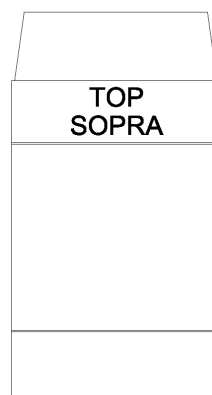
- B) Piston tie to assemble pistons in two pieces



- C) Strap



- D) Piston travel limiting ring



NOTE: always verify that the writing “TOP SOPRA” is on the top part of the ring.

ASSEMBLING SEQUENCE:

1. Install a hosting machine or a Block and Tackle in the headroom, for lifting the piston rod (item A).
2. Block the cabin in safe conditions, to be able to work on the piston head, form the cabin roof.
3. Completely close the rod.
4. Remove the pulley on top of the piston.
5. Unscrew the bolts that keep in place the piston head.
6. Remove the piston head, the head gasket and the ring holder.

NOTE: if the cylinder is full of oil, unscrew by 5 complete revolutions the regulation screw number 1 and, using the manual descent button/lever, remove the oil from the cylinder. Restore the original setting of screw number 1.

7. Please check if the two guiding rings are present inside the travel limiter (item D) you are installing.
8. Assemble the tie (item B) around the top part of the travel limiter (just below its welding)
9. By using the hosting machine or the Block and Tackle, insert the travel limiter between the cylinder and the rod, until the tie is leaning against the cylinder head.
10. Screw the M30 hexagon screw back on the rod, and, with the hosting machine, lift the rod until the travel limiter is touching the rod bottom part.
11. Remove the tie (item B) and, with the hosting machine, lower the rod until it is fully closed inside the cylinder.
12. Assemble back the ring holder, the head gasket and the cylinder head.
13. Assemble back the pulley and resume the normal operations of the lift.