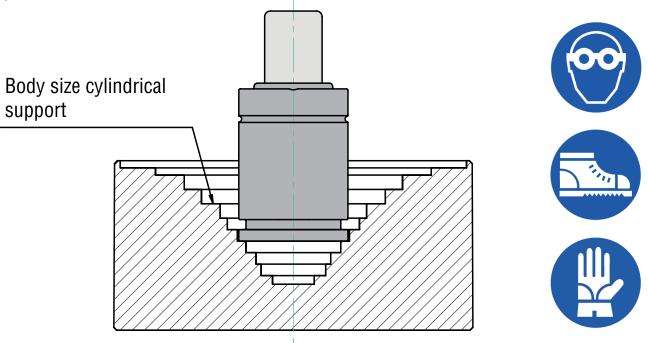


Nitrogen cylinders - checking procedure of initial force Fo

Boundary condition:

- Room Temperature: 20 ± 5 °C
- Influence of temperature: $\pm 1^{\circ}C = \pm 0.33\%$ P
- Use suitable equipment, Special Springs Force Tester models FT... o IPC/DIG.
- Use calibrated load cell.
- Use a digital or analogic display connected to the load cell.
- Use equipment provided with a hydraulic jack to develop a force of 1.5 times higher than initial force developed by the cylinder you want to test.
- Place the cylinder in a safe way on a horizontal support. See the example of cylinder
- support:



Operative testing procedure:

- 1. Place the cylinder in the support safely
- 2. Rotate the cylinder until the charging valve will be orientated on the opposite side respect of the operator
- 3. Bring the rod of the cylinder in contact with the load cell (the display of the visualizer will indicate few daN)
- 4. Compress the Cylinder rod for about 1,5 mm, release and compress again for about 1,5mm
- 5. Read on the display the initial force of the cylinder
- 6. Retract the hydraulic jack and remove the cylinder safely