

SPECIFIC FEATURES

The manufacturing program of 700 bar components is based on innovative technology and on our longstanding experience in high pressure hydraulics.

The ideal choice of materials combined with surfaces treated and protected against corrosion makes **E-POWER 700** products suitable for use in harsh environments.

Furthermore, **E-POWER 700** hydraulic cylinders can withstand off-centred and side load forces up to 8% of their nominal capacity.

Most of our models are in compliance with ANSI (American National Standard Institute) B30.1 Standard.

1-2-3 Cylinder body

The cylinder body, piston and end of stroke nut are in high quality tempered steel and have been treated with a special nitriding process so that these parts have a high wear resistance and are corrosion protected; they have a long outdoor service life even in sea-water and aggressive atmospheres.

4 Wiper

The wiper prevents contamination and thus increases the service life of the cylinder.

5 Return spring

This spring ensures fast piston retraction irrespective of the cylinder position.

6 Seal

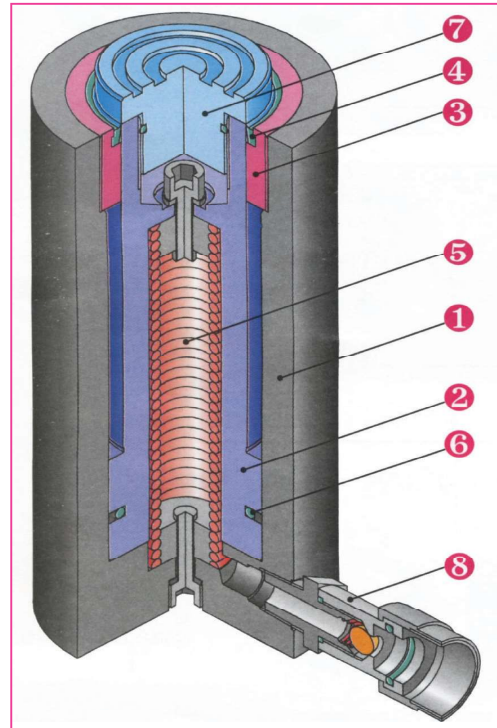
The compact seal provides good resistance to wear and extrusion.

7 Saddle

The saddle is in high tensile and nitrided steel and thus prevents deformation of the piston rod.

8 Quick coupler

The quick coupler mounted on all cylinders (except COD cylinders), is fitted with a dust cap.



NITREG ONC



E-POWER 700 products are the only ones in the sector treated with the **Nitreg® ONC®** process which, for many years now, has been carried out exclusively within our plants.

This process is a thermo-chemical treatment applied to steel, that starts with the liquid nitriding phase followed by an oxidation phase, causing a change in the steel's superficial chemical structure. This alteration makes steel exceptionally hard and resistant to corrosion. The already enhanced resistance is further strengthened with the application of a special oil that coats the treated surfaces and makes them immune to corrosion (tests conducted in saline smoked rooms show up to 300 hours of resistance to corrosion according to ASTM B117).

Our products, treated with this process, are therefore especially suitable for applications with high risks of corrosion and mechanical wear.

The black colour of all **E-POWER 700** products is a direct result of the last phase of this unique treatment and has come to symbolize our long lasting effort towards the pursuit of quality.