

O-rings



Description

O-rings are circular sealing elements with a circular cross-section. The simplicity of the shape of an O-ring combined with the elasticity of the materials of which O-rings are made give the O-ring universal properties and make it the most widely used sealing element.

O-rings can be produced from many different elastomer materials and a wide range of O-rings of standard materials is available from stock. The bandwidth of available O-rings is so wide and so closely graded that almost any application is covered. O-rings are standardized in DIN ISO 3601 (former DIN 3771).

Special properties

- high operational reliability
- small installation grooves
- simple installation
- cost-effective production
- high availability

Applications

O-ring seals are used in all areas of industrial technology. The applications are divided into static applications (no relative movement between the sealed parts of a machine) and dynamic applications (the sealed parts of a machine move in relation to each other). The vast majority of O-ring are used for static or slowly moving machine parts.

Designation

The common designation of an O-ring provides information on the inner diameter, the cross section, the material and the hardness:

O-ring 50 - 3 NBR 70

1629

hardness in Shore A

material code according to DIN ISO

cross section d2 in mm

inner diameter d₁ in mm

