

O-rings for use in fluid systems

Dimensions to ISO 3601 -1

DIN
3771
Part 1

Fluidtechnik; O-Ringe; Maße nach ISO 3601-1

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

See Explanatory notes for connection with International Standard ISO 3601-1:1988 published by the International Organization for Standardization.

Dimensions in mm

1 Scope and field of application

This standard specifies dimensions and limit deviations for O-rings produced to particularly close tolerances, for use in fluid systems, as specified in ISO 3601-1 (see Explanatory notes). It does not specify requirements for aerospace applications.

2 Dimensions and designation

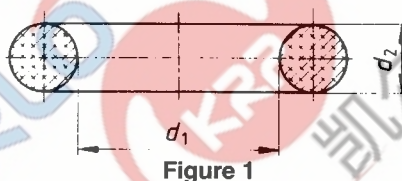


Figure 1

O-rings shall be designated by the internal and section diameters, the quality grade to DIN 3771-4 and the material to DIN 3771-3.

Designation of an O-ring with an internal diameter, d_1 , of 13,2 mm, a section diameter, d_2 , of 1,8 mm, quality grade N, made of material NBR with 70 IRHD (NBR 70):

O-ring DIN 3771 – 13,2 × 1,8 – N – NBR 70

Continued on pages 2 and 3.

3 Materials

As specified in DIN 3771-3.

4 Testing and marking

As specified in DIN 3771-2.

5 Quality acceptance criteria

As specified in DIN 3771-4.

6 Storage

As specified in DIN 7716.

Standards referred to

DIN 3771-2	O-rings for use in fluid systems; testing and marking
DIN 3771-3	O-rings for use in fluid systems; materials and fields of application
DIN 3771-4	O-rings for use in fluid systems; quality acceptance criteria
DIN 7716	Requirements for storage, cleaning and maintenance of rubber products
DIN 65 203	Elastomeric toroidal sealing rings for aerospace applications; technical delivery conditions
ISO 3601-1:1988	Fluid systems; sealing devices, O-rings; inside diameters, cross sections, tolerances and size identification code

Explanatory notes

The dimensions and limit deviations specified in this standard comply with those specified in International Standard ISO 3601-1:1988. However, the size identification code has not been adopted since it differs from that used in Germany.

DIN 65 203 specifies O-rings for aerospace applications. These have the same section diameters, whereas the inside diameter range is more extended and the limit deviations are smaller.

International Patent Classification

F 16 J 15-14