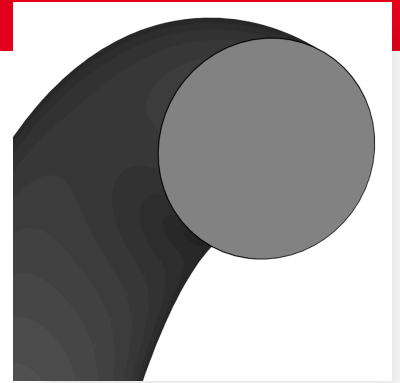




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DESCRIPTION

- According to DIN ISO 3601
- Endless, circular ring with circular cross-section
- Double-acting

FUNCTION

- Sealing effect due to cross-sectional deformation after installation and axial or radial compression in the installation space
- In the operating state, media pressure reinforces the sealing function

PRODUCT ADVANTAGES

- Universally applicable
- Reliable design with broad application spectrum for moderately demanding applications in general industry
- Good price/performance ratio
- Manufactured by certified external suppliers

APPLICATIONS

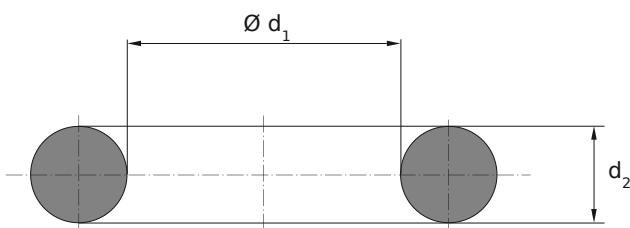
- Sealing of pressures up to 1000 bar, use of support rings may be necessary
- Dynamic sealing of reciprocal, rotating and superimposed screw movements
- Static sealing of stationary machine and system parts against liquid and gaseous media (flange and cover seals, pipe fittings, cylinder head and base for hydraulic cylinders)

CONFORMITY AND CERTIFICATES

- Please consult the material data sheet valid for the respective material for current information on approvals and certificates, as this information depends on the compound and cannot be listed exhaustively here.

DESIGN GUIDELINE

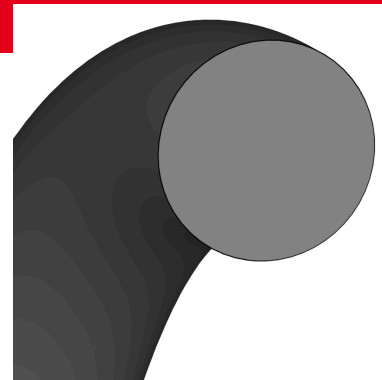
- Length and angle of the installation chamfers must be in accordance with installation space drawing
- Surface roughness of groove flanks $Ra \leq 3 \mu\text{m}$
- Surface roughness of groove base $Ra \leq 1,8 \mu\text{m}$



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SEALING TECHNOLOGIES



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INSTALLATION GUIDELINE

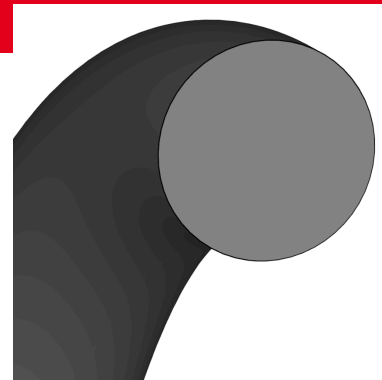
- Deburr sharp edges, provide with seamless chamfers and radii
- Clean the installation space carefully before installation, remove dust, dirt, metal chips, etc.
- Do not pull the seal over sharp edges, threads, or keyways during installation; cover with an installation sleeve if necessary
- Grease the elastomer sealing element before assembly to improve the dynamic coefficient of friction and thus ensure a longer service life
- Heating the seal in oil at 80°C to 100°C makes the seal material more elastic and easier to install
- Grease mounting surfaces and seal
- Do not roll the O-ring over the mounting surfaces, do not twist it when snapping into the groove
- Do not expand the seal to the expansion limit

STORAGE ADVISE

- Storage temperature <25°C
- No direct sunlight
- No condensation in the storage room
- No exposure to ozone or ionizing radiation
- Recommendations based on the revision of ISO 2230 dated 16.09.1992

Temperature [°C]

NBR	HNBR	EPDM	FKM	VMQ	PTFE
-30...100	-30...140	-50...150	-20...200	-55...200	-200...260 (a)

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Temperature [°C]

NBR	HNBR	EPDM	FKM	VMQ	PTFE
					-100...260 (b)

a = static application

b = dynamic application

The values given are based on a limited number of tests on standard test specimens (2 mm sample plates) from laboratory production. The data determined from finished parts may deviate from the above values depending on the manufacturing process and the part geometry.

The information provided herein is based on laboratory tests and on data sources deemed reliable. It constitutes general, non-binding guideline values and does not represent any guarantee of specific properties or suitability for a particular purpose. The suitability of a product for a specific application depends on the actual operating conditions and a variety of factors. Full testing and performance evaluation of the final product are the responsibility of the user. Freudenberg FST GmbH | www.fst.com