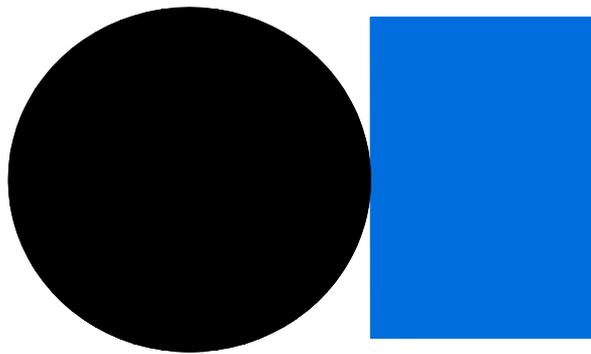




O.L. Seals A/S

Back-Up Rings

Kefloy Cut BakRing® Type C-





Cut BakRing® Type C-

Cut BakRing® is used to prevent extrusion of rubber O-Rings and rubber X-Rings. It is a solid ring with a rectangular cross section. It can be used for static as well as for reciprocating and rotating applications.

Working Range

The values should be considered as recommendations. A combination of maximum values should be avoided. Values stated below are related to the BakRings and not to the rubber seal they back up.

Pressure

Static up to 300 MPa depending on temperature, gap and BakRing® Compound.
Dynamic up to 60 MPa depending on temperature, gap and BakRing® Compound.

Temperature

-200°C to + 260°C depending on compound.

Velocity

Reciprocating or rotating up to 2 m/sec. depending pressure and on compounds.

Should not be used for rotating applications.

Fluids

Kefloy® is compatible with virtually all fluids – liquids as well as gases. By selecting the right compound for the O-Ring or X-Ring, it is possible to cover almost all fluids.

Compounds

Cut BakRings are normally made in the very extrusion resistant Kefloy® 60, which is a blue, glass fibre filled modified PTFE.

Where the BakRing® is in direct contact with food or drugs, Kefloy 11 is recommended.

| Compound | Materials | Static applications | Dynamic applications |
|------------|-------------------------------|---------------------|----------------------|
| | | Pressure MPa | Pressure MPa |
| Kefloy® 11 | Virgin PTFE | 200 | 30 |
| Kefloy® 13 | PTFE / Bronze | 250 | 50 |
| Kefloy® 22 | PTFE / Carbon / Graphite | 250 | 50 |
| Kefloy® 60 | PTFE / Glass fibre Light blue | 250 | 50 |
| Kefloy® 72 | PTFE / Glass fibre White | 250 | 50 |

A range of other compounds are available on request.

| do O-Ring Cross Sec. BS | do O-Ring Cross Sec. SMS | d Internal diameter. | D External diameter. | L1 Groove width | L2 Groove width | R Radius | G Radial gab | C Cham- fer | W Bak Ring thickness | T Bak Ring Width |
|----------------------------------|--------------------------------------|----------------------------|----------------------------|-----------------------|-----------------------|-------------|--------------------|----------------|----------------------------|------------------------|
| | | h9 | H9 | +0.2/-0 | +0.2/-0 | Max. | Max. | Min. | | |
| 1.78 | 1.6 | D - 2.6 | d + 2.6 | 3.00 | 4.00 | 0.2 | 0.05 | 0.5 | 1.30 | 1.0 |
| | | D - 2.9 | d + 2.9 | 3.80 | 5.30 | 0.3 | 0.06 | 0.6 | 1.45 | 1.4 |
| 2.62 | 2.4 | D - 4.0 | d + 4.0 | 4.60 | 6.00 | 0.3 | 0.06 | 0.6 | 2.00 | 1.4 |
| | | D - 4.5 | d + 4.5 | 4.60 | 6.20 | 0.3 | 0.07 | 1.0 | 2.25 | 1.4 |
| 3.53 | 3.0 | D - 5.0 | d + 5.0 | 5.40 | 6.80 | 0.3 | 0.07 | 1.0 | 2.50 | 1.4 |
| | | D - 6.2 | d + 6.2 | 5.70 | 7.70 | 0.5 | 0.08 | 1.3 | 3.10 | 1.4 |
| 5.33 | 5.7 | D - 9.4 | d + 9.4 | 8.50 | 10.80 | 0.5 | 0.10 | 2.0 | 4.70 | 1.7 |
| | | D-10.0 | d+10.0 | 9.30 | 11.10 | 0.5 | 0.10 | 2.0 | 5.00 | 1.7 |
| 7.0 | 7.0 | D-12.2 | d+12.2 | 11.20 | 14.70 | 0.6 | 0.13 | 2.5 | 6.10 | 2.5 |
| | | D-15.0 | d+15.0 | 13.20 | 15.40 | 0.6 | 0.13 | 3.0 | 7.50 | 2.5 |



Advantages

- Easy to install
- Available for all diameters up to 2.500 mm

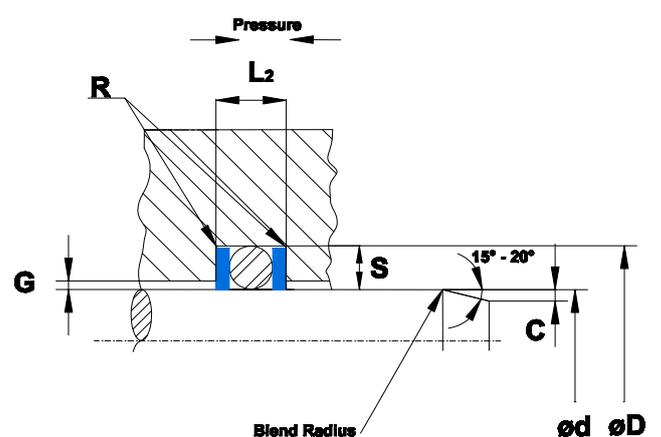
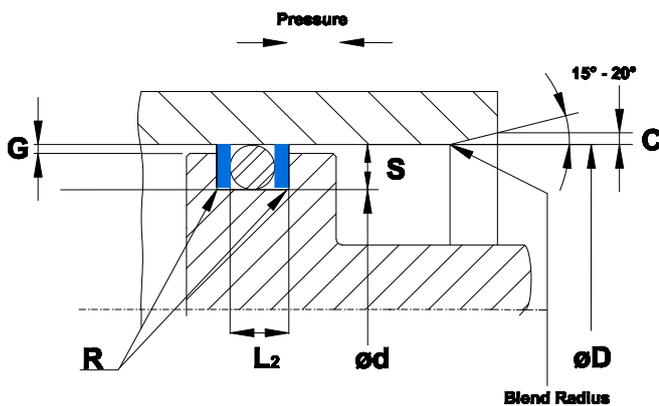
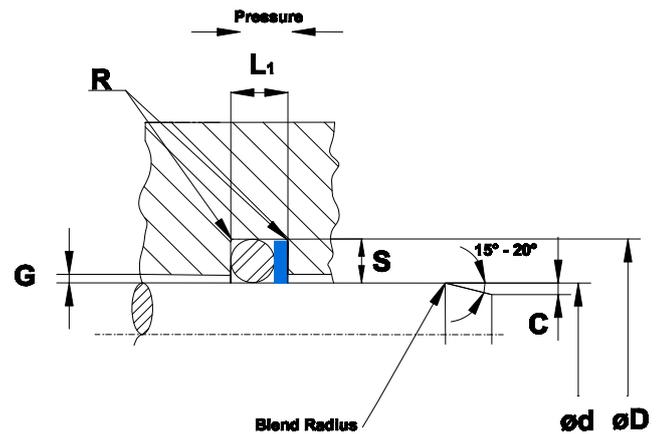
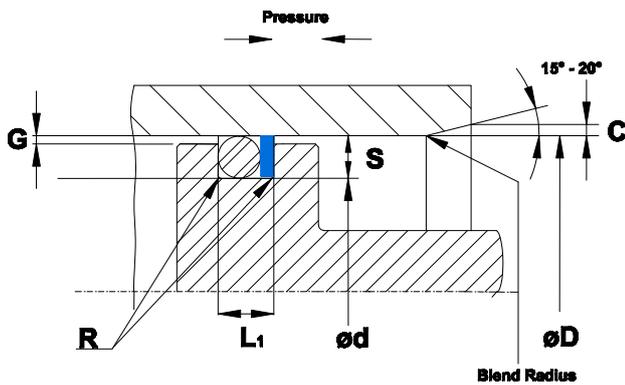
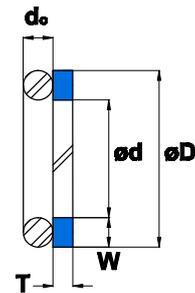
Seal Selection Guide

Ordering Example

External groove diameter: 21.5 mm
 Internal groove diameter: 18.6 mm
 O-Ring cross section: 1.78 mm

Part no C-0215-0186-14-60
 BakRing® Type _____
 Internal groove diameter x 10 _____
 External groove diameter x 10 _____
 BakRing® width x 10 _____
 Compound no _____

Type "C" Cut



O-Ring Size

- O-Ring cross section according to installation dimensions.
- O-Ring I.D. as close to dia. d as possible.
- O-Ring I.D. not bigger than d +5%
- O-Ring I.D. not smaller than d -10%

Important Note

The limits of pressure, temperature and velocity are individual maximum values. Heat generated by the friction may cause local increase of temperature. The cooling possibilities for the system determines the combinations of maximum values.