



Function

Back-up rings do not have a sealing function. They are designed to prevent elastic sealing elements such as O-Rings or Quad Rings of gap extrusion.

Features

- ⇒ Especially designed for use with O-Rings.
- ⇒ Improved formstability of the elastomer O-Ring
- ⇒ Bigger contact area of the O-Ring compared to BUR08 creates in less deformation.
- ⇒ Normally cut at an angle for easy installation, but also available as non-split version.
- ⇒ Low dynamic friction.
- ⇒ Low break-away forces after long standstills.
- ⇒ Activated back-up rings reduce gap extrusion and prevent twisting of the seal in the groove.

Application

dynamic and static applications in reciprocating pistons and rods in hydraulic cylinders, plungers, etc.

Unfavourable tolerances and wide gap dimensions.

Intensely pulsating pressures and pressure change.

Installation

Snap-in installation

Seal housing recommendation

Tolerances	[mm]	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
∅ NA	H8	
∅ NI	h9	
Surface roughness	Rtmax [μ]	Ra [μ]
Bottom of groove	≤ 6.3	≤ 1.6
Face of groove	≤ 15	≤ 3
Sliding surface	Rtmax [μ]	Ra [μ]
PU, elastomeres	≤ 2.5	≤ 0.1-0.5
PTFE	≤ 2	≤ 0.05-0.3

Profile description

Backup Ring
BUR09