



K81 is a back-up ring designed to reduce the permissible sealing gap of the O-rings both for static and dynamic applications.

PRODUCT ADVANTAGES

- Able to work in high pressures
- Easy assembly
- Able to work in hard conditions
- Wide range of dimensions
- Used for rod and piston

APPLICATION

All types of hydraulic cylinders, injection moulding machines, mining equipment, marine hydraulics, loading platforms, cranes and heavy duty applications.

MATERIAL

CODE

TPE

TP5501

OPERATING CONDITIONS

MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-40°C +120°C	+5°C +60°C	-30°C +60°C
PRESSURE	≤500 Bar	≤500 Bar	≤500 Bar
SPEED	≤1.0 m/sec	≤1.0 m/sec	≤1.0 m/sec

Note: The above data are maximum values and cannot be used at the same time.

SURFACE ROUGHNESS

	Ra	Rmax
Sliding Surface	≤0.3 μm	≤3 μm
Groove Base	≤1.8 μm	≤10 μm
Groove Flanks	≤3 μm	≤16 μm

INSTALLATION

Easily assembled into the housing by hand. K81 back-up ring is in non split form. In case of a difficulty during installation the back-up ring can be cut carefully with 30° angle and assembled afterwards. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the back-up ring must be oiled with system oil.

NOTES

K81 back-up ring is safely used with 0.20 mm permissible sealing gap up to 500 bar. For special applications PTFE back-up ring is produced on special requests.