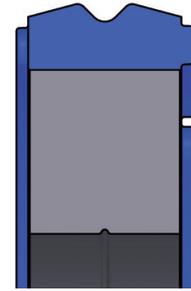


# PISTON SEAL K84



The double-acting K84 is composed of a highly extrusion-resistant TPU sealing element, which is prestressed by a rectangular NBR ring. The K84 is distinguished by its extraordinary sealing function under both dynamic and static loads. If there is pressure on both sides, two sealing edges establish a secure media separation.

The piston seals K70 or KPOR 30/130 can be used as an alternative thanks to a standardized installation space, depending on the operating conditions. The K84 thus offers the user maximum flexibility during the design phase.

## YOUR ADVANTAGES AT A GLANCE

- Thermoplastic polyurethane (TPU) stands out for its very high resistance to wear and extrusion resistance as well as its low compression set
- Nitrile butadiene rubber (NBR) and TPU are resistant to hydraulic oils in accordance with DIN 51524 (Part 1–3) and flame-resistant hydraulic fluids (HFA, HFB, HFC) as well as lubricating oils and greases based on petroleum oil
- Channels on the facing surface ensure a rapid pressure build-up



- A special geometry allows a hydrodynamic lubricating film while reducing friction and minimizing the stick-slip effect
- During operation, the rectangular ring provides an uniform pressure distribution and twist-protection
- Accidental twisting during installation can be controlled by means of a built-in marking in the inner surface of the rectangular ring

## APPLICATIONS

The K84 is specially designated for medium and heavy-duty mobile hydraulics. Its outstanding sealing function, small installation grooves and easy assembly permit its use in numerous applications, including

- agricultural machinery
- construction machinery
- loading cranes
- injection molding machines
- handling equipment
- industrial vehicles
- standard cylinders
- and much more.

## CHARACTERISTICS

### Sealing materials

The profile ring of the K84 is made of a blue TPU. The rectangular ring is composed of NBR 70 or 80 Shore A.

### Assembly

This two-piece seal is installed with an easy snap fitting in closed grooves. Control of accidental twisting by means of a built-in marking.

### Dimensions

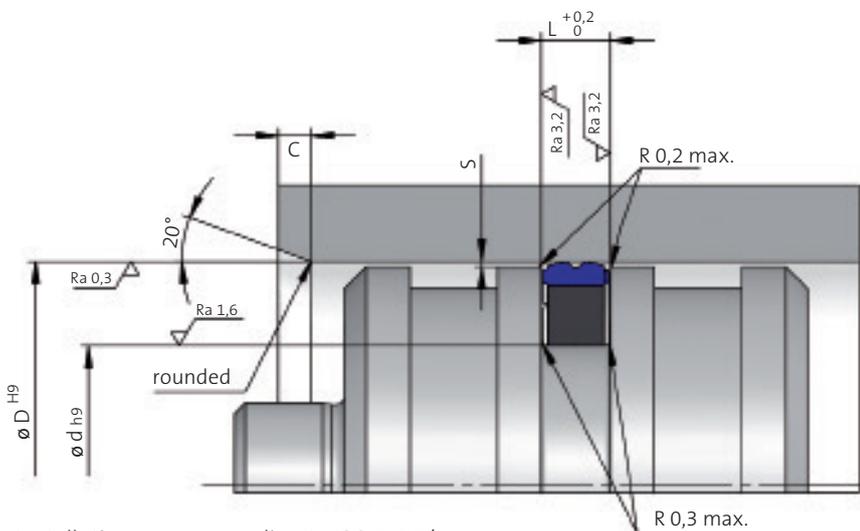
The currently available dimensions can be found on our website and in the web shop at [www.dichtomatik.com](http://www.dichtomatik.com).

### Operating limits

Pressure (MPa)	up to 40
Operating temperature range (°C)	-30 to +100
Sliding speed (m/s)	≤ 0,5

### Gap Smax. in operation

Height L	3,2	4,2	6,3	8,1	10,5
up to 16 MPa	0,3	0,4	0,5	0,6	0,65
up to 26 MPa	0,2	0,3	0,4	0,5	0,55
up to 32 MPa	–	0,2	0,3	0,4	0,45
up to 40 MPa	–	–	0,25	0,35	0,4



Installation space according to ISO 7425/1

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