



Piston Seal KD9 [KHT] - Rod Seal SE9 [SHT]



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Double-Acting Piston Seal Type KD9 [KHT]

Made of high-resistance polyester elastomer material

The double-acting piston seal type **KD9 [KHT]** consists of a highly resistant thermoplastic polyester elastomer with low wear on the dynamic side, which ensures optimal sealing. Due to the low coefficient of friction of this material, low friction, a tendency towards „stick-slip-free“ running and a long service life are achieved, even with fast stroke movements. On the static side, it is preloaded by an O-ring made of NBR or FKM. This results in an excellent sealing function under high load and a good static seal, which is better than comparable PTFE designs.

Product Benefits & Highlights at a Glance

- Double-acting piston seal for medium-duty applications
- High extrusion resistance
- Very low friction, low tendency to stick-slip
- Low abrasion, high wear resistance
- Easy installation in closed grooves
- Seal returns to its original shape immediately after being pulled onto the piston
- No „recalibration“ required compared to PTFE seals
- Extended service life possible
- Less sensitive to passing over ports
- Molded part production, thus cost savings compared to PTFE production

- Good temperature resistance
- Conically shaped „notches“ allow the seal to be activated without the risk of O-ring gap extrusion
- The specific design improves pressure distribution

Technical Data for Piston Seal KD9 [KHT]

Pressure (bar/MPa):	≤ 500 bar / 50 MPa*
Temperature (°C):	- 30 °C to +100 °C**
Speed (m/s):	≤ 0,5 m/s (100 °C) ≤ 1,0 m/s (80 °C)

Media

Mineral oil-based hydraulic oils

(*dependent on gap sizes)

(** Consider the material selection of the O-ring.)



Single-Acting Rod Seal Type SE9 [SHT]

Made of high-resistance polyester elastomer material

The single-acting rod seal type **SE9 [SHT]** consists of a highly resistant, thermoplastic polyester elastomer with low abrasion on the dynamic side, which ensures optimal sealing. The low coefficient of friction of this material results in low friction, a tendency to „stick-slip-free“ running, and a long service life, even with fast stroke movements. On the static side, it is preloaded by an O-ring made of NBR or FKM. The sealing edge of the **SE9 [SHT]** rod seal has been developed to ensure good sealing and good backflow of the lubricant film.

Technical Data for Rod Seal SE9 [SHT]

Pressure (bar/MPa):	≤ 500 bar / 50 MPa*
Temperature (°C):	- 30 °C to +100 °C**
Speed (m/s):	≤ 0,5 m/s (100 °C) ≤ 1,0 m/s (80 °C)

Media

Mineral oil-based hydraulic oils

(*dependent on gap sizes)

(** Consider the material selection of the O-ring.)

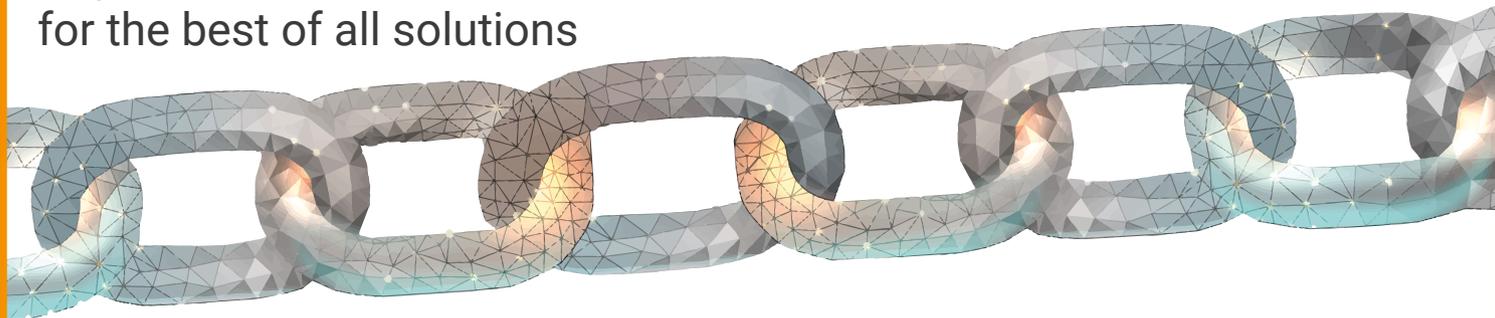
Product Benefits & Highlights at a Glance

- Single-acting rod seals for medium-duty applications
- Very low friction
- Low abrasion and high wear resistance
- Easy installation in closed grooves
- „Snaps“ into the installation groove and returns to its original shape
- No „recalibration“ required compared to PTFE seals
- Extended service life
- Less sensitive to passing over ports
- Cost-effective due to molded part production
- Good temperature resistance

Please feel free to contact our technical advisors directly to discuss your specific application requirements and receive personalized guidance on selecting the optimal **SE9 [SHT]** rod seal for your needs. With our expertise and commitment to customer satisfaction, we will help you optimize system performance and ensure long-term reliability.

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Together for the best of all solutions



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