



RADIAMATIC® HTS II SEALS

The Radiamatic HTS II is a special PTFE version of the Simmerring® shaft seal product group, a high-performance, standard-setting seal for sealing rotating shafts.

The high functional reliability of HTS II is achieved by using a complimentary combination of PTFE and stainless steel. Both components are CNC-machined which results in a flexible adaptation to the housing and shaft without tooling costs. The low-friction design delivers high energy efficiency and several sealing lip designs are available to accomplish top performance and prolong seal life in a variety of applications.

Applications include:

- Gears
- Compressors
- Pumps
- Electric drive systems

VALUES FOR THE CUSTOMER

- Low-friction and anti-adhesive
- High media and temperature resistance
- No ageing of material
- Secures tight fit
- Only PTFE towards the media
- Easily adaptable to different installation spaces due to CNC manufacturing
- No tooling costs

PTFE K212 (PTFE-carbon) Material*

- Approved standard material
- Good wear resistance
- Good thermal conductivity
- Electrically conductive/antistatic
- ATEX-conform

*Other materials available on request



FEATURES AND BENEFITS

Operational limits

| | |
|-------------------|-------------------|
| Pressure | 0.6 MPa |
| Temperature range | -80 °C to +200 °C |
| Speed | 25 m/s (no load) |

Tolerances

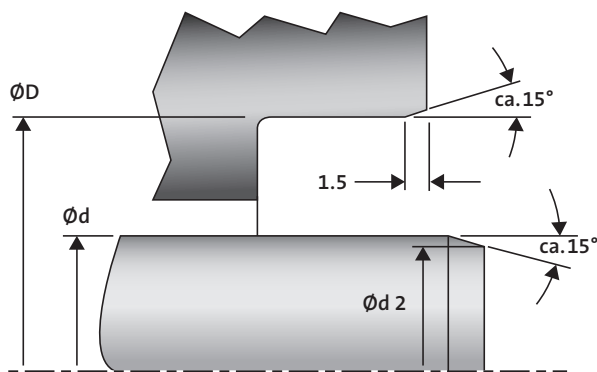
| | |
|-------------------------------|-----------|
| Housing bore | ISO H8 |
| Shaft | ISO h11 |
| Radial shaft deflection, max* | ± 0.05 mm |

Surfaces

| | |
|----------|--|
| Housing | $R_a < 1.8 \mu\text{m}$, $R_t < 10 \mu\text{m}$ |
| Shaft | $R_a < 0.2 \mu\text{m}$, $R_t < 1 \mu\text{m}$ |
| Hardness | 45 to 65 HRC |

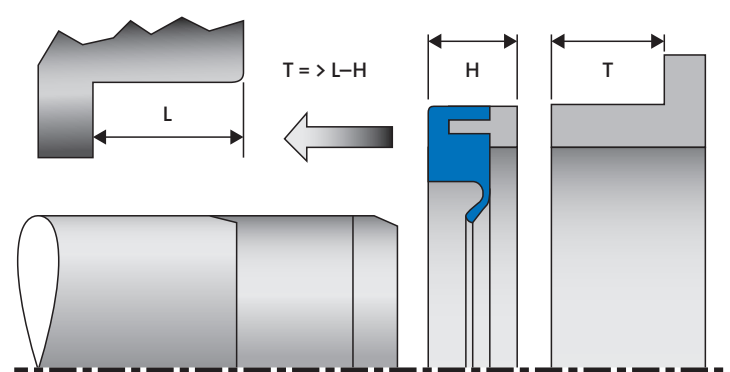
Installation surfaces must be free of grooves. Ensure the installation space is clean.

Housing



The installation space must be axially accessible. Sharp edges should be rounded off and polished.

Installation



Do not use grease on the rings/sealing lips. If necessary, oil them slightly.

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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