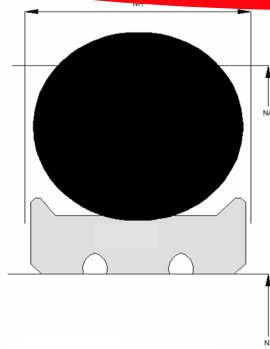


# Profile Data Rotary Seal R09



## Function

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

## Features

- ⇒ Asymmetrical, double acting rotary seal for inside sealing, designed with interference of the O-Ring on the OD and no interference of the PTFE glide ring on the ID.
- ⇒ Excellent sealing performance at low speeds with high pressure.
- ⇒ Peripheral grooves that enable the build up of a lubricant reservoir.
- ⇒ No tendency to “stick-slip” effect.
- ⇒ Low break-away load after long standstills.
- ⇒ Good gap extrusion resistance.

## Application

Slow moving shafts, pivoting movements, revolving distributors, swivel joints.  
Max. pressure 350 bar, max. speed 0.4 m/s.

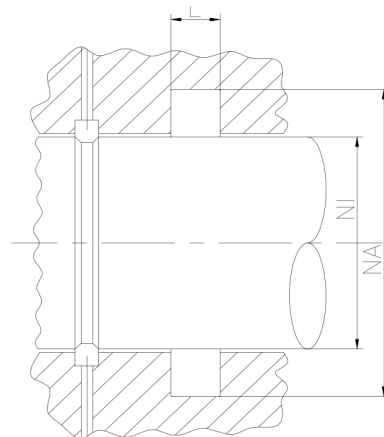
## Installation

Snap-in installation.

Attention: PTFE glide rings need calibration after installation!

## Seal housing recommendation

|                          |                  |               |
|--------------------------|------------------|---------------|
| <b>Tolerances</b>        | <b>[mm]</b>      |               |
| L < 10mm                 | + 0.2            |               |
| L ≥ 10mm                 | + 0.3            |               |
| ∅ NA                     | H8               |               |
| ∅ NI                     | f8               |               |
|                          |                  |               |
| <b>Surface roughness</b> | <b>Rtmax [μ]</b> | <b>Ra [μ]</b> |
| Bottom of groove         | ≤ 6.3            | ≤ 1.6         |
| Face of groove           | ≤ 15             | ≤ 3           |
|                          |                  |               |
| <b>Sliding surface</b>   | <b>Rtmax [μ]</b> | <b>Ra [μ]</b> |
| PU, elastomeres          | ≤ 2.5            | ≤ 0.1-0.5     |
| PTFE                     | ≤ 2              | ≤ 0.05-0.3    |



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