The profile NHI is excellent for sealing internally high-pressurized static and intermittently dynamic flange applications.

Features

- Extended heel reduces the effects of extrusion.
- Helical spring for high load and small deflection range.
- Resilient helical spring resists permanent set and maintains compliance to long-term flange.
- Many high-resilience energizer options available, including choice of light, medium and heavy loads and NACE for oil field use.
- Low-cost elastomeric energizers available, all with excellent fatigue resistance.

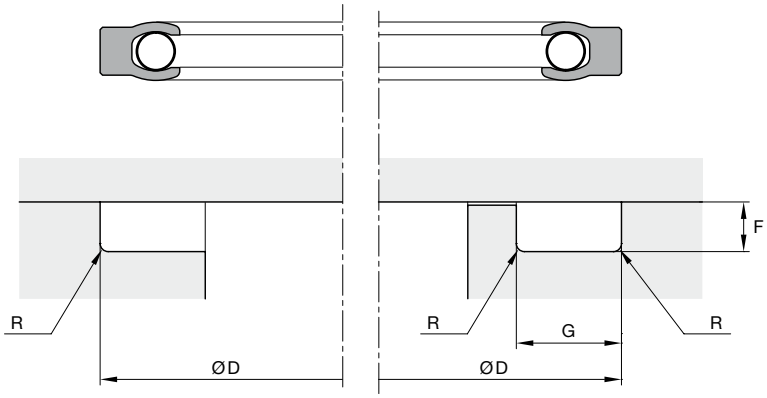
Range of Application

For internal static and intermittently dynamic flange sealing - high-pressure.

Operating pressure	≤ 140 MPa
Operating temperature	-260 to +315 °C
Surface speed	≤ 0.005 m/s

Compounds

The NHI seal is available in a wide range of polymers. These include unfilled PTFE, filled PTFE, UHMW-PE, PEEK and many others. See the compound list for further information.



Housing dimensions

Nominal cross-section	Cross-section code	Recommended outer Ø range Tolerance H10 D (mm) ≥	≤	Groove depth range F (mm)	Groove width min. G (mm)	Radius max. R (mm)
1/16"	01	11	65	1.42 - 1.47	3.3	0.30
3/32"	02	14	100	2.26 - 2.31	4.5	0.50
1/8"	03	25	200	3.07 - 3.12	6.5	0.50
3/16"	04	48	350	4.62 - 4.68	8.0	0.75
1/4"	05	115	400	6.05 - 6.12	11.3	0.75
3/8"	06	200	1000	9.47 - 9.58	15.8	0.75
1/2"	07	325	3000	12.70 - 12.80	20.5	0.75

Ordering example

Outside groove 70 mm

NHI M007000 03 XXX Y

NHI	profile
M007000	outer groove diameter in mm times 100
03	cross-section code corresponding to a 3.07 mm groove height
XXX	jacket material
Y	spring-energizer material