



The profile NLI is ideal for sealing rotating shafts without the possibility of a flange cavity in the groove. It can also be used in low-pressure reciprocating applications.

Profile NLI is particularly suitable for pumps, motors, rotary actuators and reciprocating stems.

Features

- Heavy dynamic lip (inside) ensures longest life.
- Cantilever spring for low load-high compliance behaviour.
- Many high-resilience energizer options available, including choice of light, medium and heavy loads and NACE for oil field use.
- Available with silicone filling for food and drug applications.
- Allows the integration of a stand-off ring to protect the sealing lips in case of reverse pressure.

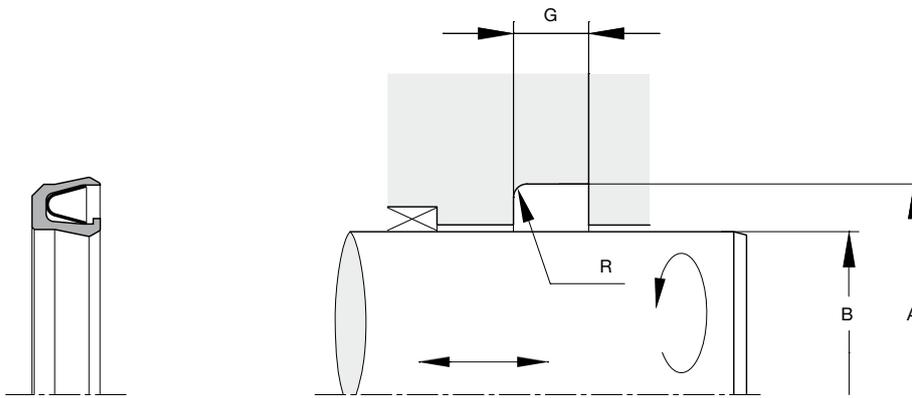
Range of Application

For inside dynamic sealing.

Operating pressure	≤ 20 MPa
Operating temperature	-260 to +315 °C
Surface speed	≤ 5 m/s
Subject to pv guidelines (chapter 4.6.6)	

Compounds

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



Housing dimensions

Nominal cross-section	Cross-section code	Recommended inner Ø range		Outer Ø	Groove width min.	Radius max.
		Tolerance h8 B (mm)				
		≥	≤			
1/16"	01	3.0	75	B + 2.84	2.4	0.30
3/32"	02	5.0	180	B + 4.52	3.6	0.50
1/8"	03	12.5	250	B + 6.15	4.8	0.50
3/16"	04	22.0	300	B + 9.45	7.1	0.75
1/4"	05	50.0	685	B + 12.12	9.5	0.75

FlexiSeal®

Ordering example

Shaft or rod 70 mm
Cylinder bore 76.15 mm

NLI M007000 03 XXX Y
 NLI profile
 M007000 inner groove diameter in mm times 100
 03 cross-section code corresponding to a 6.15 mm groove diameter difference
 XXX jacket material
 Y spring-energizer material