



The profile NLF is excellent for sealing static and dynamic internally pressurized flange applications, in particular where bolt load and friction are limited or a higher deflection range is required.

Features

- Cantilever spring for low sealing load and high compliance to long-term flange separation.
- 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.

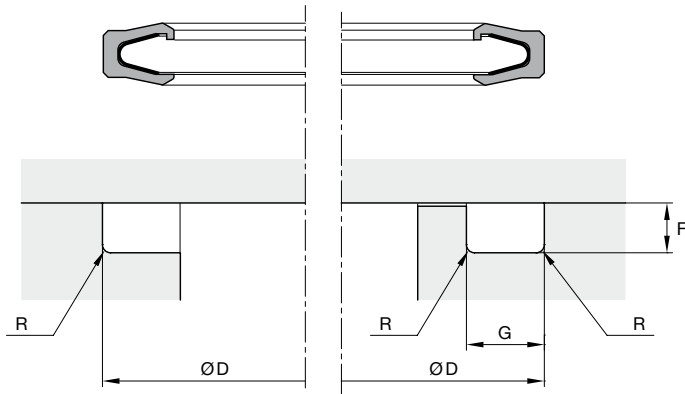
Range of Application

For internal static and dynamic flange sealing.

Operating pressure	≤ 35 MPa
Operating temperature	-260 to +315 °C
Surface speed	≤ 5 m/s
Subject to pv guidelines (chapter 4.6.6)	

Compounds

The NLF 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 outer Ø range		Groove depth range F (mm)	Groove width min. G (mm)	Radius max. R (mm)
		Tolerance H10 D (mm)				
		≥	≤			
1/16"	01	15	75	1.42 - 1.47	2.4	0.30
3/32"	02	20	180	2.26 - 2.31	3.6	0.50
1/8"	03	30	250	3.07 - 3.12	4.8	0.50
3/16"	04	50	300	4.62 - 4.68	7.1	0.75
1/4"	05	105	685	6.05 - 6.12	9.5	0.75
3/8"	06	300	1400	9.47 - 9.58	14.5	0.75
1/2"	07	300	3000	12.70 - 12.80	18.0	0.75

FlexiSeal®

Ordering example

Outside groove 70 mm

NLF M007000 03 XXX Y

NLF 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