



The profile NAA is excellent for both static and intermittently dynamic applications. The seal can be used for reciprocating or rotating movements on either inner or outer diameter.

Profile NAA is particularly suitable for valve stems, secondary sealing in mechanical seals, connectors, pistons and swivel joints.

Features

- Helical wound spring for high load and small deflection range.
- Rounded lip profile for easy installation and improved lubrication of a reciprocating sealing surface.
- Best choice for installation into non-split grooves: the short heel and helical spring stretch easily and the rounded lips will not hang up.
- Widest range of cross-sections and diameters available, including sizes for upgrading standard O-ring grooves.
- 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.

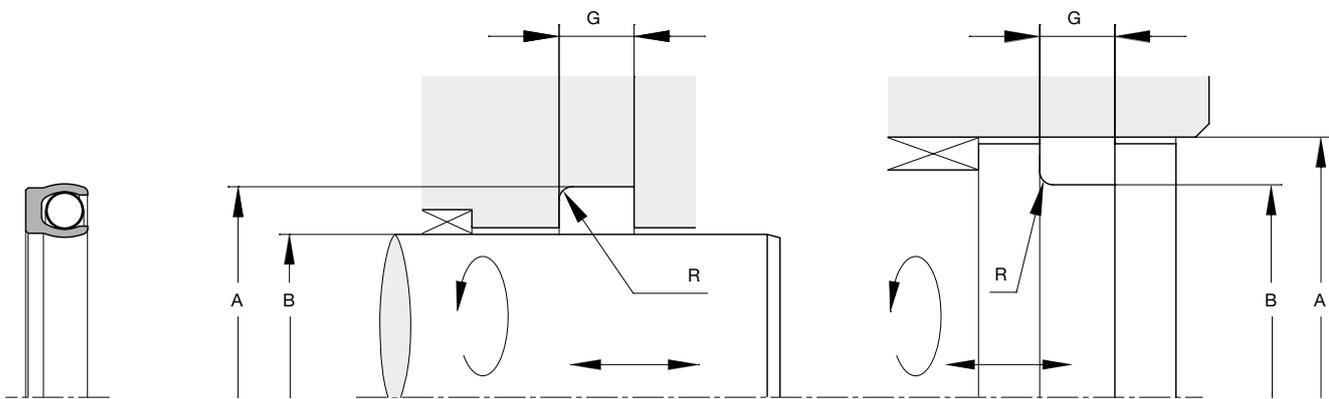
Range of Application

For static and intermittently dynamic sealing.

Operating pressure	≤ 20 MPa
Operating temperature	-260 to +315 °C
Surface speed	≤ 0.005 m/s

Compounds

The NAA 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 inner Ø range		Outer Ø	Groove width min.	Radius max.
		Tolerance h8 B (mm)				
		≥	≤			
1/16"	01	7.5	75	B + 2.84	2.4	0.30
3/32"	02	5.5	180	B + 4.52	3.6	0.50
1/8"	03	6.0	250	B + 6.15	4.8	0.50
3/16"	04	12.5	300	B + 9.45	7.1	0.75
1/4"	05	50.0	500	B + 12.12	9.5	0.75
3/8"	06	150.0	1400	B + 18.75	13.3	0.75
1/2"	07	300.0	3000	B + 25.40	18.0	0.75

FlexiSeal®

Ordering example

Shaft 70 mm
Cylinder bore 76.15 mm

NAA M007000 03 XXX Y

NAA 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