

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

Profile NHA is particularly suitable for high-pressure valve stems, connectors, pistons and swivel joints.

Features

- Extended heel that reduces effects of extrusion.
 - Helical wound spring for high load and small deflection range.
- Rounded lip profile for easy installation and improved lubrication of a reciprocating sealing surface.
- Good 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 high-pressure, static and intermittently dynamic sealing.

Compounds

The NHA 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)		Tolerance H8 A (mm)	G (mm)	R (mm)
		≥	≤			
1/16"	01	7.5	75	B + 2.84	3.8	0.30
3/32"	02	5.5	180	B + 4.52	4.6	0.50
1/8"	03	6.0	250	B+ 6.15	6.0	0.50
3/16"	04	12.5	300	B + 9.45	8.5	0.75
1/4"	05	50.0	500	B + 12.12	12.1	0.75
3/8"	06	150.0	1400	B + 18.75	15.8	0.75
1/2"	07	300.0	3000	B + 25.40	20.5	0.75

Ordering example

Shaft 70 mm Cylinder bore 76.15 mm

NHA M007000 03 XXX Y

NHA	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