



The profile BAO is ideal for reciprocating piston sealing.

### Features

- Heavy dynamic lip (outside) ensures longest life.
- Short, wiper-type dynamic lip reduces frictional forces due to hydrostatic pressure.
- Helical spring for high load and small deflection range.
- Squared, long static lip stabilizes the seal.
- 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.

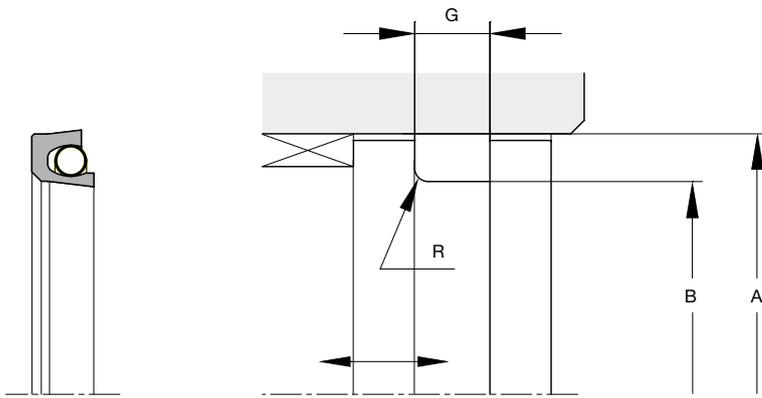
### Range of Application

For reciprocating piston sealing.

Operating pressure	≤ 20 MPa
Operating temperature	-260 to +315 °C
Surface speed	≤ 15 m/s

### Compounds

The BAO 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		Inner Ø Tolerance h8 B (mm)	Groove width min. G (mm)	Radius max. R (mm)
		≥ Tolerance H8 A (mm)	≤			
1/16"	01	10.0	75	A - 2.84	2.4	0.30
3/32"	02	10.0	180	A - 4.52	3.6	0.50
1/8"	03	12.5	250	A - 6.15	4.8	0.50
3/16"	04	22.0	300	A - 9.45	7.1	0.75
1/4"	05	63.0	500	A - 12.12	9.5	0.75
3/8"	06	170.0	1400	A - 18.75	13.3	0.75
1/2"	07	325.0	3000	A - 25.40	18.0	0.75

FlexiSeal®

### Ordering example

Piston groove 70 mm  
Cylinder bore 76.15 mm

BAO M007615 03 XXX Y

BAO profile  
M007615 outer 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