



The profile FLS is the best choice for sealing rotating shafts with abrasive media such as in pumps, motors and rotary actuators.

Features

- Wiper-type dynamic (inside) lip.
- Outside flange that stabilizes the seal, prevents seal rotation and resists thermally induced movement.
- Heavy dynamic lip 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.

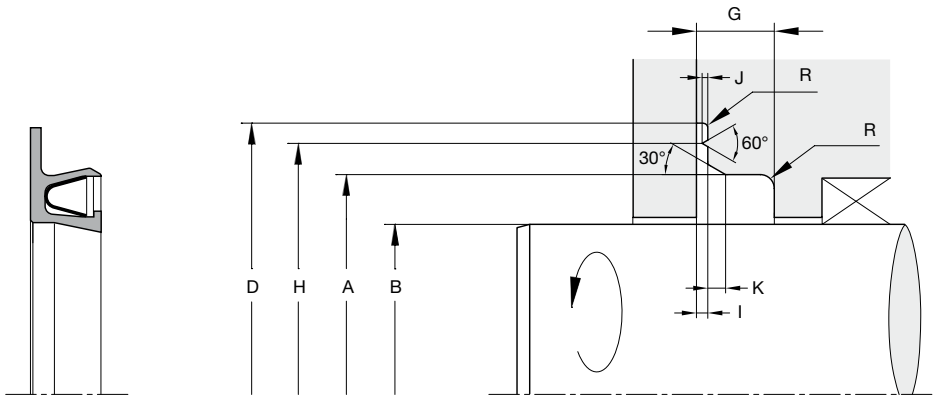
Range of Application

For rotating shaft sealing in abrasive media.

Operating pressure	≤ 20 MPa
Operating temperature	-260 to +315 °C
Surface speed	≤ 10 m/s
Subject to pv guidelines (chapter 4.6.6)	

Compounds

The FLS seal is available in a wide range of polymers. These include unfilled PTFE, filled PTFE 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.	Flange outer Ø	Nose Ø	Flange width	Nose width	Chamfer width	
		Tolerance h10	B (mm)									Tol. H8
1/16"	01	3.0	75	B + 2.84	2.4	0.30	B + 7.0	B + 5.0	0.56 ^{+0.08}	0.25 ^{+0.10}	0.4 - 0.5	
3/32"	02	5.0	180	B + 4.52	3.6	0.50	B + 9.0	B + 7.0	0.56 ^{+0.08}	0.25 ^{+0.10}	0.8 - 1.0	
1/8"	03	12.5	250	B + 6.15	4.8	0.50	B + 12.5	B + 10.0	0.66 ^{+0.08}	0.30 ^{+0.10}	1.0 - 1.2	
3/16"	04	22.0	300	B + 9.45	7.1	0.75	B + 17.5	B + 13.5	0.96 ^{+0.08}	0.41 ^{+0.10}	1.3 - 1.6	
1/4"	05	50.0	685	B + 12.12	9.5	0.75	B + 22.0	B + 17.0	1.16 ^{+0.08}	0.56 ^{+0.10}	1.7 - 2.0	

Ordering example

Shaft 70 mm
 Cylinder bore 76.15 mm

FLS M007000 03 XXX Y

FLS 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

FlexiSeal®