



30K Rotary Seal

Bearing Protection

30K – Product Data

Chesterton® 30K Rotary Seal provides excellent service in applications that utilize conventional oil lip seals for bearing protection. The 30K is available in three distinct PTFE materials developed specifically for sealing applications. The PTFE compounds coupled with the seal design provide excellent fluid compatibility, outstanding performance and minimal wear.

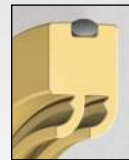
- The dynamic sealing lip is mechanically formed which allows it to be stretched over the shaft while still maintaining a compressive seal.
- The primary sealing lip isolates the bearing chamber from external contaminants while maintaining a positive pressure seal.
- The secondary sealing lip prevents external sources of contamination from entering the system and provides backup sealing capabilities.
- The static o-ring seal prevents rotation and allows for easy installation and removal.
- Outperforms conventional oil lip seals by increasing bearing life and maximizing production.
- Does not fret or damage hardened shafts.
- Custom designed to meet equipment dimensions.
- Material is easily selected based on system fluid.

Delivery Information:

- Standard delivery—10 days



AWC 100



AWC 300



AWC 400

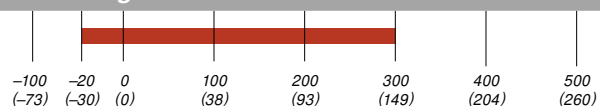
Material Selection & Typical Applications*

PTFE Compound	Dry	Water/Steam	Petroleum Based Fluids
AWC 100- Polyimide Filled	Excellent	—	Excellent-Low Viscosity
AWC 300- Moly & Glass Filled	Good	Good	Excellent-High Viscosity (e.g. >2,00 cps)
AWC 400- Carbon & Graphite Filled	Good	Excellent	Good

* Performance depends on concurrent conditions including shaft hardness, shaft surface roughness, material, lubrication, temperature and pressure.

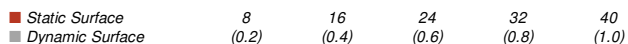
Operating Temperature Range –°F (°C)

AWC 100, 300, 400



Recommended Surface Finishes – μ Inch (μ m) (For Sealing Liquids)

AWC 100, 300, 400



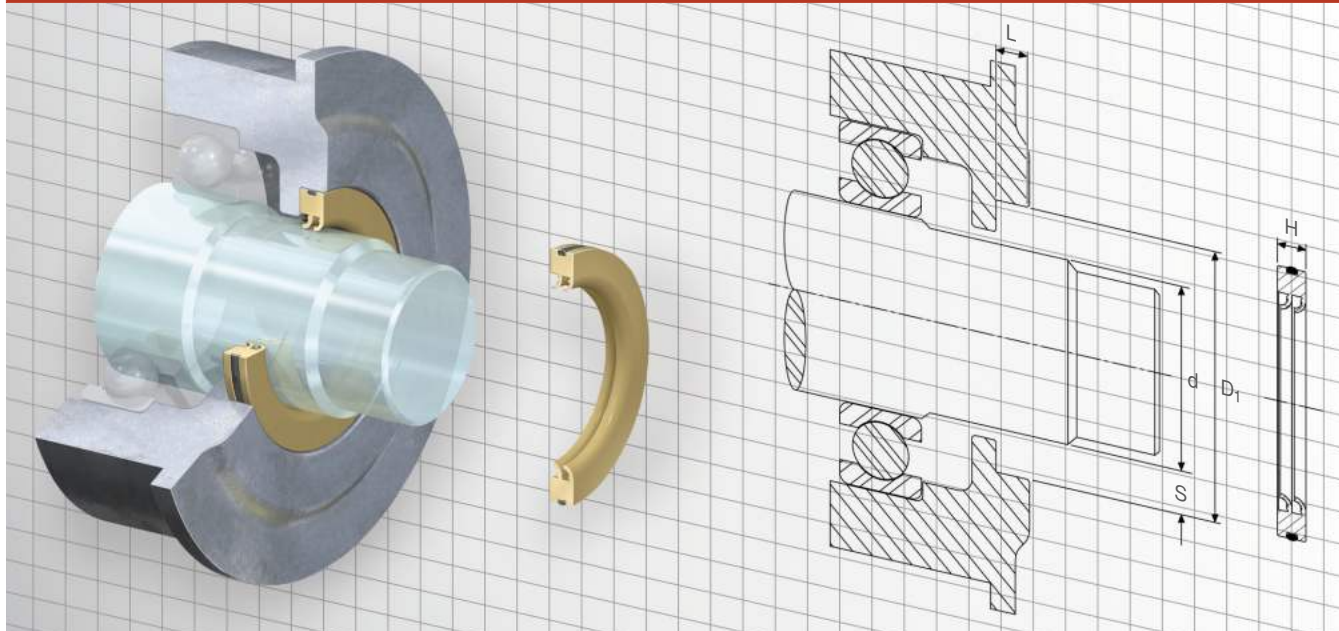
Recommended Mating Surface Hardness

AWC 100	AWC 300	AWC 400
> 45 Rockwell C	> 53 Rockwell C	> 53 Rockwell C

30K Rotary Seal

Bearing Protection

30K – Cross Sectional Drawing of Equipment



30K – Technical Data

Designations:

Rod diameter = d
 Stuffing box bore = D_1
 Seal width = H
 Groove height = L
 Cross section = S

O-ring Material:

Fluoroelastomer

Maximum Pressure:

10 psi (0,7 bar)

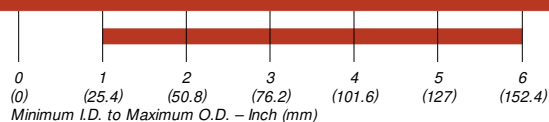
How to place an order:

- 1 Choose material
- 2 List d , D_1 and L
- 3 Confirm S (see chart)
- 4 Contact Distributor to place order.

Available Seal Sizes

Material

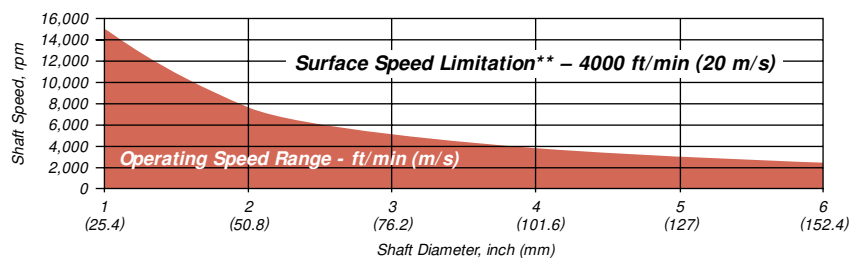
AWC 100, 300, 400



Size Limitations

Rod Diameter	Seal Cross Section (S) min/max	Seal Width (H) min/max
1.000" – 2.999" (25,4 – 76,1 mm)	.250 – .500" (6,35 – 12,7 mm)	.250 – .500" (6,35 – 12,7 mm)
3.000" – 4.999" (76,2 – 126 mm)	.287 – .500" (7,28 – 12,7 mm)	.250 – .500" (6,35 – 12,7 mm)
5.000" – 6.000" (127 – 152,4 mm)	.312 – .500" (7,92 – 12,7 mm)	.250 – .500" (6,35 – 12,7 mm)

Operating Speed



CHESTERTON®

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