

# 33K SBP

# Split Bearing Protection Seal

## Product Data

The innovative 33K split design eliminates the need and associated costs for equipment disassembly while improving seal performance of conventional lip seals.

The 33K can be used in many applications including bearing protection for pumps, gearboxes and rollers. Installation time can be reduced from hours to minutes because the split assembly is unitized installing quickly and easily.

The seal is a combination of two different material types.

- The monolithic housing is made from a 95A durometer polyurethane that energizes and provides easy mounting to the equipment.
- The sealing interface is made from high performance filled PTFE material developed specifically for sealing applications.



### Reduce Downtime

- The patent pending split design eliminates the need and associated costs for equipment disassembly.

### Lower Maintenance Costs

- No need for equipment modification since all seals are made to order.

### Increase Reliability

- High performance materials are field-proven to outperform conventional seals.



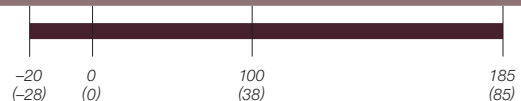
**No Need To Disassemble Equipment**

## Material Selection & Typical Applications\*

PTFE Compound	Dry	Water	Petroleum Based Liquids
AWC 100 - Polyimide Filled	Excellent	—	Excellent-Low Viscosity
AWC 300 - Moly & Glass Filled	Good	Good	Excellent-High Viscosity (>2,000 cp)
AWC 400 - Carbon & Graphite Filled	Good	Excellent	Good

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

## Operating Temperature Range –°F (°C)



## Recommended Surface Finishes – μ inch (μ m)



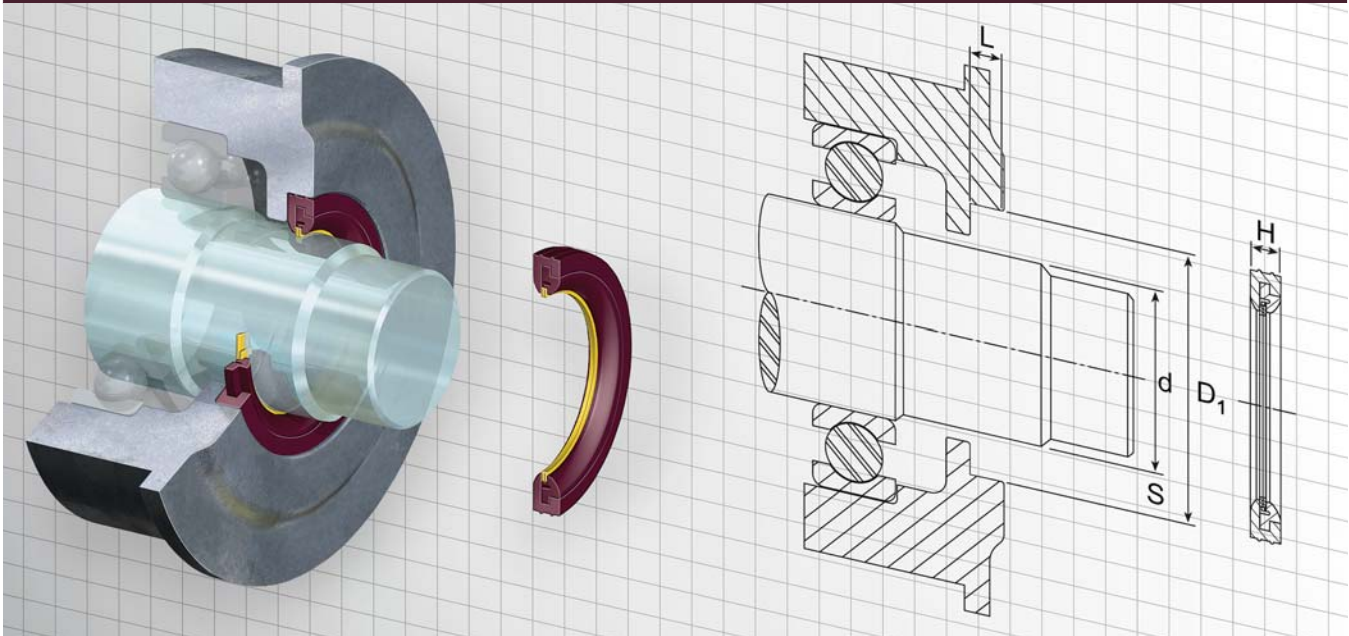
## Recommended Mating Surface Hardness

AWC 100	AWC 300	AWC 400
>45 Rockwell C	>55 Rockwell C	>55 Rockwell C

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## Cross Sectional Drawing of Equipment



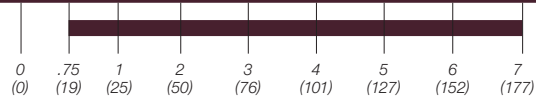
### Technical Data

#### Designations:

Shaft diameter =  $d$   
 Equipment bore =  $D_1$   
 Seal height =  $H$   
 Groove height =  $L$   
 Cross section =  $S$

### Available Seal Sizes

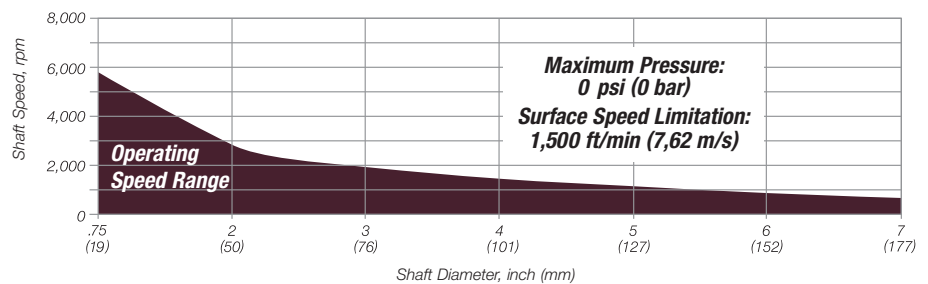
#### Shaft Diameter Range



Shaft Diameter (d)	*Equipment Cross Section (S)	*Groove Height (L)
0.750 ≤ 7.000 inch (19 ≤ 177 mm)	0.187 ≤ 1.250 inch (4,7 ≤ 31 mm)	0.210 ≤ 1.135 inch (5 ≤ 28,5 mm)

\* Maximum and minimum groove heights and equipment cross sections will vary by shaft diameter.

### Operating Parameters



ISO certifications available at  
[www.chesterton.com/corporate/iso](http://www.chesterton.com/corporate/iso)

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