

170L

Slurry Cartridge Single Seal

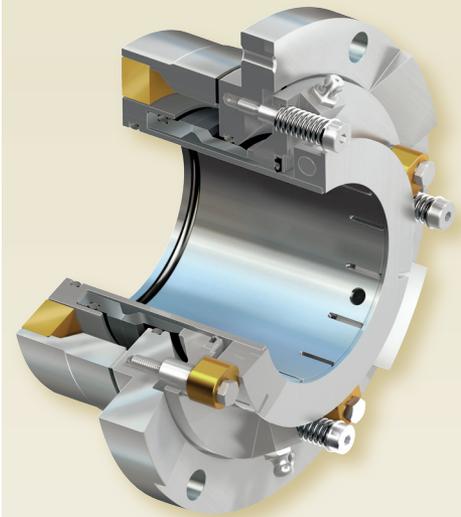
Designed to fit Warman® AH® series pump

Engineered to operate in harsh, heavy consistency slurry environments and eliminate costly external seal flushes in the majority of applications

The 170L is designed for sealing mineral-based process materials such as ores, limestone, coal, sugar, and phosphates. The innovative, non-clog seal utilizes a unique coil spring design in which the springs are located entirely outside the seal.

The 170L uses a single clamping screw which simplifies seal removal in sticky or viscous fluids or where solids clog up the set screws.

The 170L has large clearance and rugged components designed to resist the effects of heavy slurry environments. Plant optimization can be achieved through reduced product dilution and higher production rates.



Runs longer in heavy, abrasive slurries without the need for flush or quench water

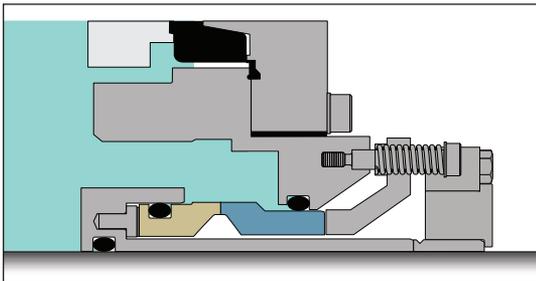
- Non-clog design
- Innovative pressure plate design
- Springs located outside the seal

Reliable design that addresses real life slurry pumping conditions

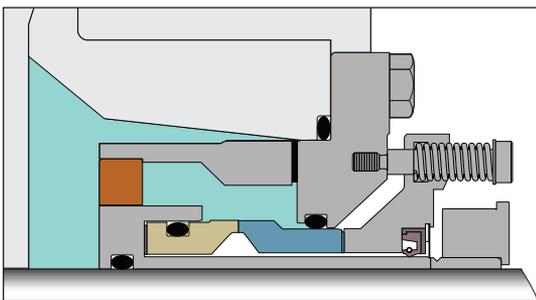
- Micropolished O-Ring surfaces eliminate O-Ring hang-up
- Optimal balance for slurries
- Line-to-line slurry faces
- Stationary springs
- High strength drives

Easy to maintain

- Single clamping screw simplifies seal installation and removal
- Integrated centering tabs
- Washable in-service
- In-field repairable
- No quench and drain needed



170L Slurry Single Cartridge Seal - Wet End Version



170L Slurry Single Cartridge Seal - Dry End Version

SPECIFICATIONS

Operating Parameters

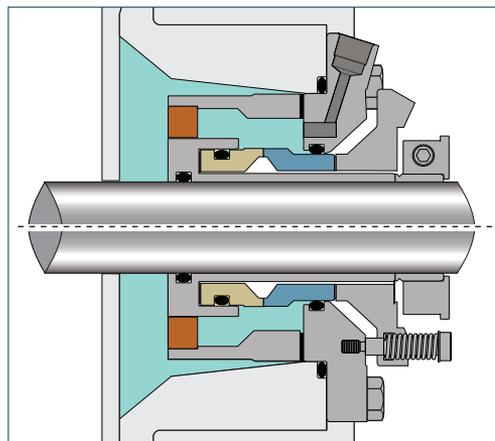
Sizes	50 mm – 220 mm
Pressure	711 mm (28") Hg Vacuum to 17 bar g (250 psig*)
Temperature	-55°C – 300°C (-67°F – 570°F)
Speed	11 m/s or 2200 fpm

* Seal pressure capabilities are dependent on the fluid sealed, temperature, speed, and seal face combinations. For operation outside the limits and additional materials consult Chesterton Mechanical Seal Engineering.

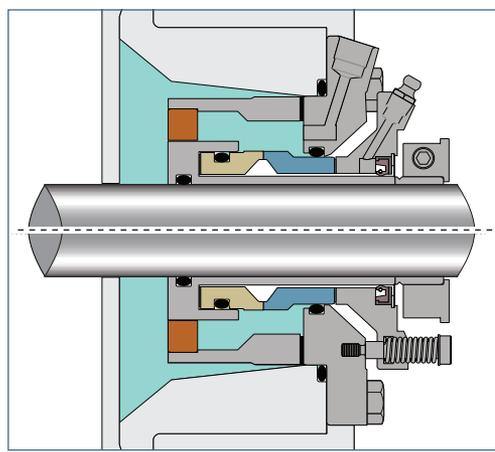
Materials of Construction

Rotary Faces	SSC TC
Stationary Faces	SSC TC
Elastomers	FKM EPDM FEPM ChemLast™
Metal Parts	316 Stainless Steel (EN 1.4401) A2205 (EN 1.4462)
Springs	Alloy C-276 (EN 2.4819)

Warman® AH® Pump Frame Sizes – 170L Slurry Seal Availability Dry End Version			
AH® Pump Model/Frame	Shaft Size (mm)	Standard	Quench/Drain and Lip Seal
3/2 C&P-AH	60	✓	✓
4/3 C&P-AH			
4/3 D&Q-AH			
6/4 D&Q-AH	85	✓	✓
6/4 E-AH			
8/6 E&R-AH			
10/8 E&R-M	100	✓	✓
12/10 E&R-M			
8/6 F-AH			
10/8 F-M	130	✓	✓
12/10 F-M			
10/8 F-AH			
12/10 F-AH	145	✓	✓
14/12 F-AH			
10/8 G&T-AH			
10/8 ST-AH	180	✓	✓
12/10 G&T-AH			
12/10 ST-AH			
14/12 G&T-AH	220	✓	✓
16/14 TU-AH			
20/18 TU-AH			

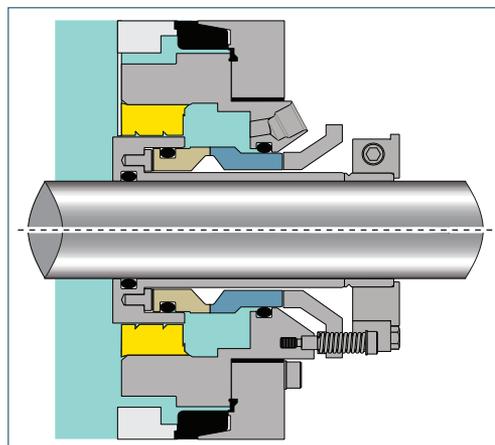


170L – Dry End: Standard Seal Configuration*



170L – Dry End: Quench/Drain and Lip Seal Configuration*

Warman® AH® Pump Frame Sizes – 170L Slurry Seal Availability Wet End Version		
AH® Pump Model/Frame	Shaft Size (mm)	Standard
1.5/1 B-AH	50	✓
2/1.5 B-AH		
3/2 C-AH	60	✓
4/3 C-AH		
4/3 D-AH	85	✓
6/4 D-AH		
6/4 E-AH	100	✓
8/6 E-AH		
8/6 F-AH	130	✓
10/8 ST-AH		
	180	✓



170L – Wet End: Standard Seal Configuration with Optional SpiralTrac™**

*Diagram illustrates 100 mm seal design

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