• DOUBLE SEAL SUITABLE FOR ALL MINING AND MINERAL ORE PRODUCTION APPLICATIONS
• SEAL FACE TECHNOLOGY DESIGNED TO ACCOMMODATE PROCESS UPSETS
• ROBUST CONSTRUCTION DESIGNED FOR EASE OF INSTALLATION
• OEM & NON-AES SEAL REPAIR AND UPGRADE SERVICE
• RAPID DELIVERY ON ENGINEERED CUSTOMIZED DESIGNS
AESSEAL® has been successfully sealing slurries for decades throughout all industries including:

- Mining & Mineral Extraction: Cutting Heads and Conveying
- Pulp & Paper: Black Liquor, Coatings and Medium/High-Duty Stock Processing
- Power Generation: Flue Gas Desulphurization/Scrubbers and Coal Slurry
- Waste Water Production: Macerators and Digested Sludge
- Textiles: Dye Liquors and Fibrous Slurries
- Off-Shore Production: Sand/Gravel Oil Extraction
- Building Services: Asphalt, Pitch, Sand and Cement

Over the years, AESSEAL® has sealed nearly ALL major slurry equipment types and models. Solutions for some of the more commonly encountered manufacturers include Warman, Denver Orion, Goulds and KSB.

Our wide range of seal support systems and bearing protectors complement the mechanical seal range, enabling the supply of TOTAL packaged solutions for all slurry applications.

**Successful Sealing - Change the Seal Environment**

Not all sealing solutions are the same. Equipment reliability improvements can be made by changing the seal environment and/or upgrading the seal design.

AESSEAL® can provide inexpensive seal conversion kits to upgrade non-AES seal designs or to change the OEM equipment seal environment in order to dramatically improve seal life.

- Creates an ideal seal environment
- Produced in a wide range of abrasion/chemical resistant materials
- One-off purchase
- No primary equipment/shaft wear

AESSEAL® offers a full repair service for most of the common slurry seals found on the market today. This service includes:

- The supply of new faces in silicon carbide and/or tungsten carbide;
- Replicated exotic alloy metallic components; and
- Metal recovery spraying of worn seal areas, particularly the seal carrier.

Seal support systems save water consumption and the environment by reducing or eliminating seal/gland water.

AESSEAL® has a wide range of environmental seal support systems to change the sealing environment to maximize the performance of the mechanical seal.

“AESSEAL® support systems save over five-billion gallons of water consumption each year.”
The CDPH™ double seal is designed to meet the arduous requirements of slurry applications. Large ports and increased radial clearances enable the seal, when coupled with the correct sealing plan, to maintain a stable fluid film for extended seal face life.

### Design Feature

- Inboard reverse seal face balance
- Generally available in 316L Stainless Steel, DIN 1.4462 Duplex, Alloy 255 and Alloy C276†
- Metal to metal fits
- Robust drive mechanisms (non-elastomeric)
- Large radial clearances and non-clogging multi-spring design
- No flush port/connection
- Hydraulically balanced seal faces

### Customer Benefit

- Seal faces will withstand process/system upset
- Improved abrasion and erosion resistance create seal life longevity
- Improved alignment and seal performance
- Reduced possibility of seal face damage
- Improved seal face loading increases seal life
- Removes the need for constant seal service water
- Reduced seal face heat generation and improved life

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**AESSEAL® CDPH™ Slurry Seal Designs**

Exotic materials may not be available in larger sizes. Other sizes and/or materials may be offered subject to review & approval by AESSEAL® technical department

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**Sizes**

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<th>Size</th>
<th>50mm</th>
<th>60mm</th>
<th>85mm</th>
<th>100mm</th>
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<th>7&quot;</th>
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**CDPH™ - Seal Selection**

Meets the required PV limits

- TG/TG/TG/Carbon

Check actual speed with technical cooling coil recommended

Above recommended PV limits see AES technical dept
AESSEAL® has a comprehensive product range to seal slurries including Vulcanized Spring Disk single cartridge seals and Multi-Spring monolithic seal face designs.

The CVSD™ and FGDSS™ range of single cartridge seals are shown below.

**Bearing Protection - All Rotating Equipment**

Typically, wherever there is slurry there is also abrasive dust that works its way into the bearings of the rotating equipment.

AESSEAL® is a world leader in bearing seal technology and has a proven product range to seal all types of aggressive environments, specifically those synonymous with sealing slurries.

### Applications
- Conveyor sealing
- Pillow block sealing
- Gearbox sealing
- Electric motor sealing
- Pump & agitator sealing
- Fans and blower sealing

### Bearing Seal Designs
- Contact seal designs
- Non-contact seal designs
- Designs which accept angular misalignment
- Designs which accept axial shaft movement
- Split seal designs
- Air purge designs

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**Warning**

Our Purpose: 'To give our customers such exceptional service that they need never consider alternative sources of supply.'