

FLUSHLESS SLURRY SEAL FOR SOLIDS HANDLING PROCESSES

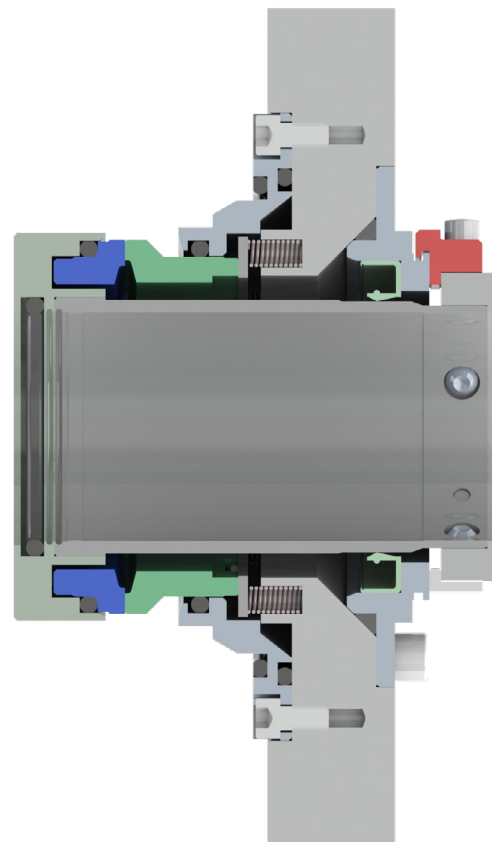
Designed for Open and Taper Bore Seal Chambers

The RKC family of seals are engineered for the most grueling slurry pumping applications – from mining and mineral processing to lime slurries and salt precipitating solutions.

The Style RKCMS offers a rugged, single cartridge design with a compact cross-section, optimized for easy maintenance and reliable operation with zero external flushing.

WHY THE STYLE RKCMS?

- Ease of fitment on common pump platforms, including ANSI, with a simple cartridge design.
- Abrasion and corrosion resistant materials promote longevity in service.
- Single-face, flushless sealing of slurries up to 40% solids by weight with taper-bore seal chambers.
- Stands up to aggressive and damaging solids-laden processes where otherwise standard seal designs fall short.



MATERIALS OF CONSTRUCTION

Faces	Silicon carbide (various grades), Tungsten Carbide (opt), FlexICE™ diamond treatment
Elastomers	TFE/P (std), FKM, EPDM, FFKM
Springs	Alloy C-276
Metal Parts	Alloy 255 (std), 316 SS, High Chrome

Other materials available as required.

OPERATING PARAMETERS

Temperature	-4 °F to 425 °F (-20 °C to 218 °C)
Pressure	500 psi (34.5 bar)
Shaft Speed	4,500 fpm (23 m/s)
Max Solids % (w/w)	40%

*Max temperature / pressure / speed indicate operating extremes independently and do not imply the seal will function at these extremes at the same time. Contact Flexaseal if in doubt.

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DESIGN FEATURES & BENEFITS

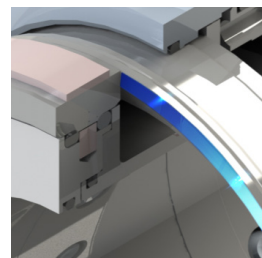
Specialized Face Materials with both lubricating and heat-dissipating properties designed for harsh slurry service.

O-Ring Mounted Monolithic Rotary Face is cushioned for stable and secure operation in aggressive process environments.

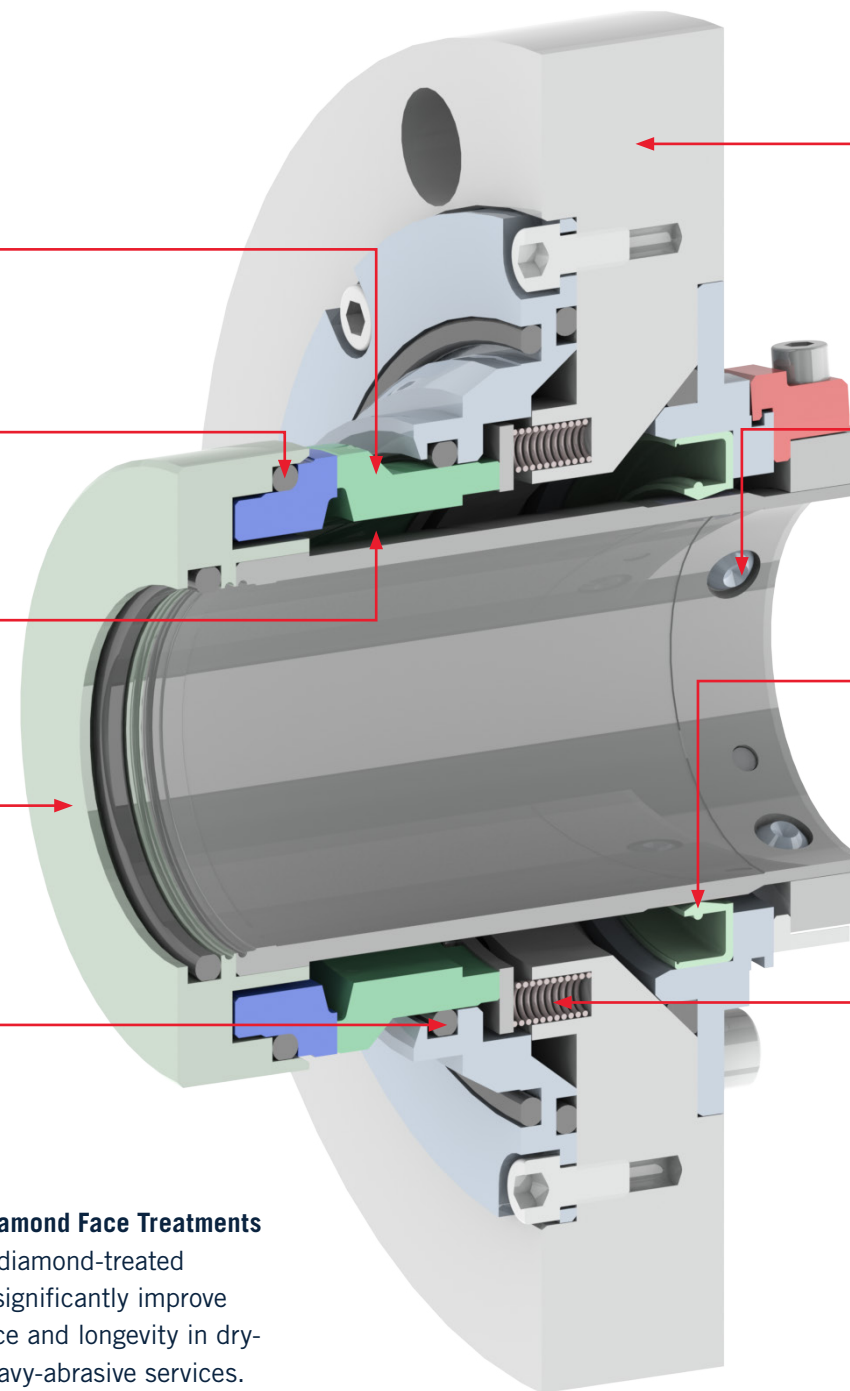
Large and Open Inner Seal keeps solids from packing in and preventing primary face hangup and heat retention.

Separate Inboard Face Retainer allows for incorporation of specialized wear materials without significantly increasing overall cost.

Large Cross-Section Stator O-Ring rides directly on polished face material surface. Allows for maximum face movement, with open retainer geometry to prevent solids from packing in and setting up.



Optional Diamond Face Treatments
FlexICE™ diamond-treated faces can significantly improve performance and longevity in dry-running heavy-abrasive services.



Wet and Dry Mount Gland Configurations for installation across a wide range of pump seal arrangements.

Hardened Set Screws for high-pressure service and pumps in series.

Outboard Quench Containment in the form of a lip seal, which can contain a low-pressure water flush or grease quench to remove solids from the seal that pass the faces.

Static Multi-Spring Design with heavy-duty springs that are removed from the process. Atmosphere side spring thrust prevents hydraulic forces in pump from imparting balanced loads on faces.