



**FLUID SEALING
INTERNATIONAL**



CALL US: 412.865.2101

Series 2050 Mechanical Seals

The 2050 is a specifically engineered dual cartridge seal for use in mixing and agitating equipment. Designed as a true mixer seal, the FSI 2050 addresses the unique problems encountered in sealing mixers.

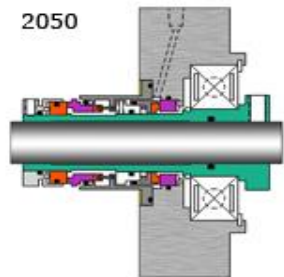
Features:

- Multiple spring design and large internal radial clearances enable this seal to accommodate shaft and bore run-out conditions
- Integral pumping ring for positive barrier fluid circulation
- "Double balanced inboard seal" gives the inboard seal pressure reversal capabilities and allows 2050 to perform as specified during off-design operation and possible upset conditions.
- Available external lip seal to contain and direct leakage to a safe location.
- In equipment where excessive run-out is possible this seal can be configured with an external bearing to limit shaft deflection and radial movement
- The FSI 2050 can be custom configured to allow for contacting face dry running service utilizing nitrogen or air purge



OPERATING PARAMETERS 2050:

- Temperatures:
 - Liquid Lubricated operation: -40°F to 500°F*
(-40 C to 260 C)
 - Dry Running operation: -40 O F to 300 O F*
(-40 C to 125 C)
- Pressures:
 - Liquid Lubricated operation: Up to 500 psi* 35 Bar
 - Dry Running operation: Up to 125 psi* 9 Bar
- Shaft Speeds: Up to 350 RPM*
- Run Out .125"/3mm Radial F.I.M.



MATERIALS OF CONSTRUCTION:

- Metal Components: 316 SS Standard (exotics available upon request)
- Seal Face Materials: Carbon, Carbon PTFE, Silicon Carbide, Tungsten Carbide
- Elastomers: All commercially available elastomers as specified.
- Sizes: 1.50" to 12.00" Available in both inch and metric sizes.

As always, [consult your FSI representative](#) for applications which approach or exceed these parameters.

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