Improved Performance:

The Millennium® ML bearing isolator has been redesigned for better bearing protection and increased size range.

Key features of the new design include:

- Significant improvement in water exclusion capability
- Expanded shaft diameter size range availability
- Reduced flange diameter on many sizes which minimizes obstruction issues for easier installation
- Internal diffuser which eliminates metallic dusting during initial startup

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Product Features:

- True non-contact design
- Excludes heavy water spray and dry contaminants
- Expanded shaft diameter size range up to 12.0"
- Flange diameter reduction minimizes obstruction issues with seal O.D. and equipment housing
- Operating temperature range -40 to 400 °F (-40 to 204 °C)
Key ML Profile Design Enhancements

Better water exclusion with expanded size availability up to 12.0” in diameter

Parker has redesigned the Millennium ML Bearing Isolator to improve its performance in wet environments and expand the size range for the unitized configuration. As can be seen from the graph below right, under severe water exclusion testing, the new design provided 100% exclusion of water spray compared to the current ML configuration.

Changes made to the design have improved the unitization of the seal and thus reduced the leak paths. The flange diameter on many designs has been reduced from 0.250” over the bore diameter to 0.125”. A non-wearing internal diffuser has been incorporated into the new design to eliminate metallic dusting during start-up.

ML Bearing Isolator features:
- Available in standard shaft diameters up to 12.0”
- Streamlined design reduces obstructions between the seal O.D. and equipment housing
- No metallic dusting at start-up
- Non-wearing internal diffuser provides optimal spacing during installation
- Minimal gap between the diffuser and rotor minimizes vapor flow through seal

The new ML design exhibits ZERO leakage.