

Garlock KLOZURE[®] MICRO-TEC[®] II Bearing Isolator

Metallic Bearing Isolator with Micro-Cellular Filter

MICRO-TEC[®] II bearing isolators offer exceptional bearing protection for pumps, motors, and bearing supported industrial equipment where there is excessive airborne contamination. The microcellular filter enhanced the labyrinth capability to trap airborne particles making it seal of choice in Mining and Food industry.

BENEFITS

- » Microcellular filter to block out airborne contamination
- » Unitizing element ensures no internal metal-to-metal contact
- » Cam-Lock O-ring design means easy installation — no tools required
- » Meets NEMA MG 1-2009
- » Surpasses IEEE 841-2001 test standards
- » API and MSHA compliant

TYPICAL APPLICATIONS

Rotating equipment located in high airborne contamination area

- » Mining Industry
- » Food processing mills (sugar, flour)
- » Coal power plant

DESIGN PARAMETERS

The patented Cam-lock design of the MICRO-TEC[®] II gives it double the retaining power versus standard bearing isolator designs. This design also allows easy installation by hand, without the need for an arbor press. The interference fit of other designs require special tools for installation and may generate bronze shavings that result in bore scoring.

- » Temperature: -30°F (-34°C) to 400°F (204°C)
- » Shaft-to-bore misalignment to ± 0.020 " (0.51mm)
- » Axial motion to ± 0.025 " (0.64mm)
- » Surface speed to 4,500 fpm (22.9 m/s)
- » Fluoroelastomer mounted o-rings standard



MICROCELLULAR FILTER

Only the MICRO-TEC[®] II incorporates a unique microcellular filter to block the ingress of outside contaminants. Bearing isolators with conventional labyrinth seal designs provide only limited airborne contaminant protection.



PATENTED UNITIZING RING

Unlike other isolators that use a simple o-ring, our patented unitizing ring completely eliminates metal-to-metal contact between the rotor and stator. Lack of axial protection can allow the bronze components to contact. Rotation and misalignment cause abrasion and shredding of the internal o-ring, leading to debris and failure.

GARLOCK KLOZURE MICRO-TEC® II BEARING ISOLATOR



All dimensions supplied to 3 decimal places.

Contact Information: Name: _____ Phone Number: _____
 Email: _____

Equipment Type: Pump Motor Other: _____
 Manufacturer: _____
 Model Number: _____

Previous Seal Design: Oil Seal Bearing Isolator Other: _____
 Seal Manufacturer: _____ Quantity Required: _____
 Seal Part Number: _____

Seal Design: Solid Split
 Mounting Method: Cam-Lock O-ring System Epoxy Mount Bolting Flange
 Construction Material: Bronze 316 SS
 Seal Purpose: Contamination Exclusion Lubricant Retention Shaft Grounding

Application Conditions

Speed: _____ RPM fpm mps
 Temperature: _____ °F °C
 Pressure: _____ PSI bar
 TIR (total indicated runout): _____ in mm
 Axial Movement: _____ in mm
 Shaft Orientation: Horizontal Vertical Top Vertical Bottom
 Lubrication Method: Grease Oil Sump Air-Oil Oil Mist
 Media Fill Level: Below Shaft Mid Shaft Submerged Shaft
 Media Manufacturer: _____
 Media Product Name: _____

Notes: _____

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