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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 MHSA compliant

TYPICAL APPLICATIONS

Rotating equipment located in high airnorne 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: -30ºF (-34ºC) to 400ºF (204ºC)
» 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.

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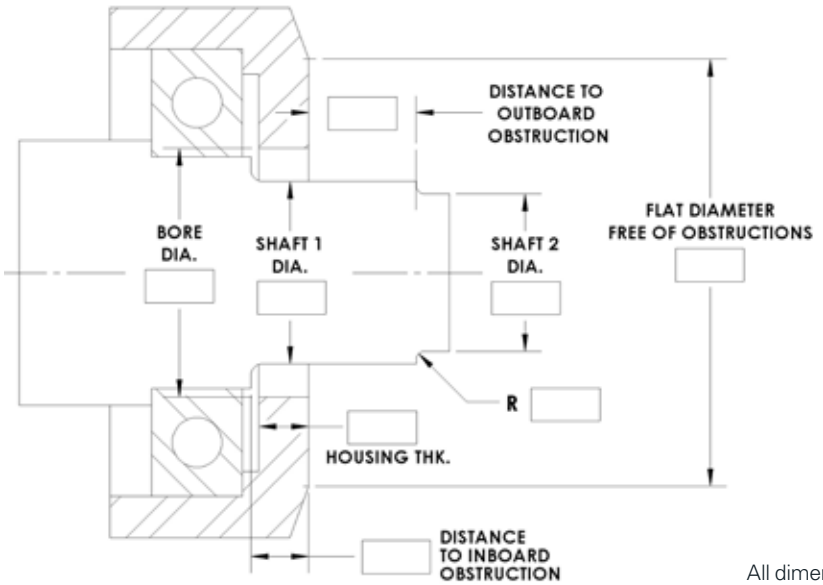
GARLOCK KLOZURE MICRO-TEC® II BEARING ISOLATOR



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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