

GARLOCK KLOZURE® HIGH-PERFORMANCE DYNAMIC SEALS

# MICRO-TEC® II Bearing Isolator

*Metallic Bearing Isolator with Micro-Cellular Filter*

## The Metallic Isolator with a built-in air filter...

- ▶ Microcellular filter to block out airborne contamination
- ▶ No wear on shaft or metallic components
- ▶ Cam-Lock design means easy installation — No tools required
- ▶ Rated to IP56 Per NEMA MG 1-2003
- ▶ Surpasses IEEE 841-2001 Test Standards
- ▶ Available in a broad range of configurations
- ▶ API Compliant
- ▶ Enhanced vapor blocking capability



Microcellular Filter



## Design Parameters

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

[www.microtec2.com](http://www.microtec2.com)

**Garlock Klozure®**  
HIGH-PERFORMANCE DYNAMIC SEALS

an EnPro Industries company

GARLOCK KLOZURE® HIGH-PERFORMANCE DYNAMIC SEALS

**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.

**Patented Cam-lock Design**

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.

\* Patent Pending

**A U T H O R I Z E D   D I S T R I B U T O R**

**WARNING:**

Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. Specifications subject to change without notice. This edition cancels all previous issues. Subject to change without notice.

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