

GARLOCK KLOZURE® HIGH-PERFORMANCE DYNAMIC SEALS

# GUARDIAN™ Metallic Bearing Isolator

## The Metallic Isolator that can be installed without the use of an arbor press

- ▶ Engineered unitizing element ensures no internal metal-to-metal contact
- ▶ No wear on shaft or metallic components
- ▶ Cam-Lock design means easy installation — No tools required
- ▶ Surpasses IEEE 841-2001 Test Standards
- ▶ Rated to IP56 Per NEMA MG 1-2003
- ▶ API Compliant
- ▶ Available in a broad range of configurations
- ▶ Enhanced vapor blocking capability

## 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 12,000 fpm (61 m/s)
- ▶ Fluoroelastomer o-rings standard



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**Patented Cam-Lock Design**

The patented Cam-lock design of the Guardian™ gives it double the retaining power. 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.

**Patented Unitizing Ring**

Unlike other isolators that use a simple o-ring, the 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.

AUTHORIZED DISTRIBUTOR

**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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PRINTED IN U.S.A.

KLZ 2:62

VIA-1/09-Rev C



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