

# Garlock KLOZURE® Steam Turbine Bearing Isolators

Specifically designed for steam turbine applications

Single-stage and multi-stage steam turbines are commonly used in the industry such as refineries to drive pumps, compressors and other mechanical-drive applications. These applications are critical to the operation and safety of the plant, making steam turbine reliability at upmost importance.

Typical failure involves damage to the bearing due to lack of lubrication or contamination ingress such as steam from leaking carbon rings.

Garlock KLOZURE® Steam Turbine Isolators are designed to prevent these events and ensure operation uptime and safety at your workplace.

## **BENEFITS**

- Extend bearing life by preventing ingress of steam into bearing chamber -» Extending Mean Time Between Repair
- Prevent lubrication leakage no matter the lubrication system used »
- Engineered features to use on steam turbine with easy retrofit to the existing » simple labyrinth seal
- Steam compatible Aflas® o-rings to create a tight seal between equipment and » Isolator
- Bronze construction is suitable with high temperature steam and is non sparking »

## **AVAILABILITY**

- Available in stock interchange for common turbine brands Elliot<sup>®</sup>, Coppus<sup>®</sup>, » Terry<sup>®</sup>, Turbodyne<sup>®</sup>
- Custom design for modified bore »

### **FEATURES**



Tapered and extended drain-back port to prevent egress of lubrication

Machined unitizing ring preventing metal-to-metal contact





## **TYPICAL PHYSICAL PROPERTIES**

Construction	Bronze body with Aflas® o-ring and PTFE unitizing ring	
Speed	12000 f/m (60,9m/s)	
Axial motion	±0.015" (0,38mm)	
Misalignment/ Runout	±0.010" (0,25mm)	
Lubrication level	Below shaft	
Protection	IP56	
Internal Pressure	Ambient (vented)	
Temperature	25°F to 400°F (-5°C to 204°C)	

GARLOCK

an EnPro Industries family of companies Tel: 1-877-GARLOCK / 315.597.4811

1666 Division Street Palmyra, NY 14522

Fax: 800.543.0598/315.597.3216

www.garlock.com



#### GARLOCK KLOZURE STEAM TURBINE BEARING ISOLATOR APPLICATION DATASHEET

GROOVE SEPERATION (IF EXISTS)					
Contact Information:	Name: Email:		All din Phone Number:	nensions supplied to 3 decimal places.	
Equipment Type:					
Manufacturer:					
Model Number:			_		
Previous Seal Design:	🗌 Oil Seal	Bearing Isolator	r	Other:	
Seal Manufacturer:			Quantity Required:		
Seal Part Number:					
Seal Design:	Solid	Split			
Construction Material:	Bronze	🗌 316 SS			
Seal Purpose:	Contamination Exclusion	Lubricant Reter	ntion	Shaft Grounding	
Application Conditions					
Speed:		RPM	🗌 fpm	mps	
Temperature:		□ °F	C∘□		
Pressure:			🗌 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					

### GARLOCK

an *EnPro* Industries family of companies Tel: 1-877-GARLOCK / 315.597.4811 Fax: 800.543.0598 / 315.597.3216 www.garlock.com Garlock Sealing Technologies Garlock Rubber Technologies GPT Garlock PTY Garlock do Brasil Garlock de Canada, LTD Garlock China Garlock Singapore Garlock Germany Garlock India Private Limited KLZ 2:98

Garlock de Mexico, S.A. De C.V. Garlock New Zealand Garlock Great Britain Limited Garlock Middle East