

The science of sealing™

COMMERCIAL MARINE INDUSTRY & US NAVY

PRODUCT RECOMMENDATION GUIDE



Garlock

SEALING TECHNOLOGIES

Product Recommendation Guide

Garlock Sealing Technologies has been serving the military and commercial marine industries for the past 114 years. We offer mil-spec packings, gaskets, seals, and American Bureau of Ships approved products. Please contact your local distributor for more information and how we can solve your sealing challenges.



Compression Packing Recommended Products

Application	Compression Packing Recommended Products	
	Pumps	Valves
Rotary	1333-G	
Helical		1333-G

Expansion Joint Recommended Products

Application	Expansion Joint Recommended Products	
	Vibration Dampers	
High Pressure	204HP, 206	
Vacuum	204HP, 208	
General Service	206, 8100	

* Garlock Expansion Joints can meet ASTM F1123 or Coast Guard Specification 46CFR56.60-25E if requested.

Gasketing Recommended Products

Application	Gasketing Recommended Products		
	Casing Pumps	Compressors	Flanges
Steam (Low Pressure >300psi)	ST-706	ST-706	3125SS
Hot water	3200	3200	
Oil (Lube)	3750	3300	3750
Oil (Hydraulic)	3750	3300	3750
Sea Water	3200	3300	9200
High Pressure	ST-706	SW	
Steam		SW	
Gear Boxes (Greaser Oil)	3750	3750	

Hydraulic Components Recommended Products

Application	Hydraulic Components Recommended Products	
	Piston	Rod Packing
Cylinders	9220	432

KLOZURE Dynamic Seals Recommended Products

Application	KLOZURE Dynamic Seals Recommended Products	
	Pumps	Gear Box
Bearing Protection	GUARD*	GUARD*

* For GUARDIAN sizes, please consult www.klozure.com

KLOZURE Mechanical Seals Recommended Products

Application	KLOZURE Mechanical Seals Recommended Products	
	Vibration Dampers	
Pumps	GMP I, II PS®-I, II	

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.

GARLOCK is a registered trademark for packings, seals, gaskets, and other products of Garlock.

BLUE-GARD, CHEVRON, EZ-FLO, GARFLEX, GARTHANE, GYLON, ISO-GARD, KLOZURE, P/S, SLUDGE-PAK and STRESS SAVER are registered trademarks of Garlock Inc. GUARDIAN is a trademark of Garlock Inc.

Compression Packing



1333-G

Pure exfoliated graphite material handles extreme temperatures, resists nearly all non-oxidizing chemicals, and offers excellent compressibility and low creep relaxation. Available in homogeneous material, or with metallic or non-metallic inserts.

Non-Metallic Gaskets



GRAPH-LOCK® (3125SS)

Fire-safe, pure exfoliated graphite gasketing excels in extreme conditions, withstanding high temperatures, pressures and aggressive chemicals.



Style 3200, 3300

Gasketing material made from a unique blend of fibers, fillers, and a choice of several elastomeric binders. Excels in a wide range of industrial applications.

*Style 5500 can be used as an upgrade and is compatible with all services listed.



Style 3750

Proprietary compound virtually eliminates oil and hydrocarbon leaks even under low bolt load, and avoids “weep-through” common to vegetable fiber gasketing. Recommended for light-weight gear box covers and fuel pumps, as well as standard ASME raised face flanges.



ST-706

Inorganic fiber gasketing with nitrile binder, results in superior performance in saturated and super-heated steam environments. Excellent in many heat transfer fluids, and is ABS type approved.



Style 9200

Premium grade rubber sheet that combines elasticity and extensibility of rubber with strength of fabric insert.

Hydraulic Seals



Style 432 CHEVRON®

Vee-ring packing with unique multiple lip design automatically responds to changes in system pressure; exceptionally reliable seal for rods, rams, pistons and plungers.



Style 9220 GARTHANE® U-Seal

Have high-tensile strength and tear resistance to withstand a wide range of temperatures, pressures and chemicals.

Metallic Gaskets



FLEXSEAL® Spiral Wound Gasket (SW)

Spiral wound gaskets excel in high temperature areas, especially heat exchangers, boiler manways and handholes.

Expansion Joints



Styles 204HP

Spool-type expansion joints with single or multiple arch configurations withstand full vacuum, high pressure, and excessive movement.



Style 206 EZ-FLO®

Unique self-flushing arch is designed to eliminate media buildup and reduce fluid turbulence; excellent choice for difficult slurry applications.



Style 208

U-type expansion joints, used as flexible connectors between turbine and condenser or to reduce vibration and noise on lightweight piping.

KLOZURE® Mechanical Seals



GMP-I , GMP-II

GMP-I and II single and double cartridge seals fit all standard ANSI pumps; easy to install and repair on-site.



P/S®-II

Unique self-flushing arch is designed to eliminate media buildup and reduce fluid turbulence; excellent choice for difficult slurry applications.

KLOZURE® Oil Seals & Bearing Isolators



GUARDIAN™

GUARDIAN™ metallic bearing isolator's internal PTFE ring prevents internal metal-to-metal contact; isolator installs without an arbor press, and has the highest tolerance for misalignment and axial motion.



P/S®-I

P/S-I general purpose assembled seal is designed for high-pressure applications; GYLON® element offers excellent chemical resistance; dry running to 700 fpm (3.5 m/s).

Training

Worldwide, Garlock customer training programs are available at your location or ours. They range in scope from public field seminars to programs that are tailored to meet the specific needs of your on-site contractors or plant maintenance personnel.

Garlock customers also benefit from the extensive factory training programs that our own sales, marketing and technical personnel must undergo. This rigorous training provides them with the product knowledge and hands on experience required to service your fluid sealing needs.

Testing Capabilities

Our testing capabilities enable us to provide Garlock customers with comprehensive performance data and ensure that the products we manufacture are not only of the finest quality, but

that they also are safe. Garlock testing facilities are the most comprehensive and most sophisticated in the industry. As a result, our products are thoroughly tested to worldwide standards such as API, DIN, JIS, ASTM, and more, and are proven for the widest range of applications, temperatures, pressures and chemicals.

Environmental Awareness

Through our global network, we stay informed of environmental standards and laws so that our sealing technologies and products will always meet or exceed your needs. We make every effort to keep our customers fully informed of changing standards and regulations.

Our products help customers remain good neighbors by conserving water and other natural resources, reducing noise pollution and increasing safety in the workplace.

Technical Support Engineering Capabilities:

Our engineering staff will work with your maintenance and technical people to design and recommend products to meet your specific application needs.

Research and Development:

Using some of the most technologically advanced equipment available, our research and development teams explore new opportunities presented by new materials, constructions and applications.

Problem-solving Assistance:

Garlock team technicians are available for problem solving when and where you need them. This includes being available to monitor or assist in the installation of products in critical applications to ensure that products are properly installed, and to offer application recommendations and trouble-shooting tips.

AUTHORIZED REPRESENTATIVE



ISO 9001:2000
Cert. #001762

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