

*Advancing the Science of Sealing™*

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# CHEMICAL PROCESSING INDUSTRY

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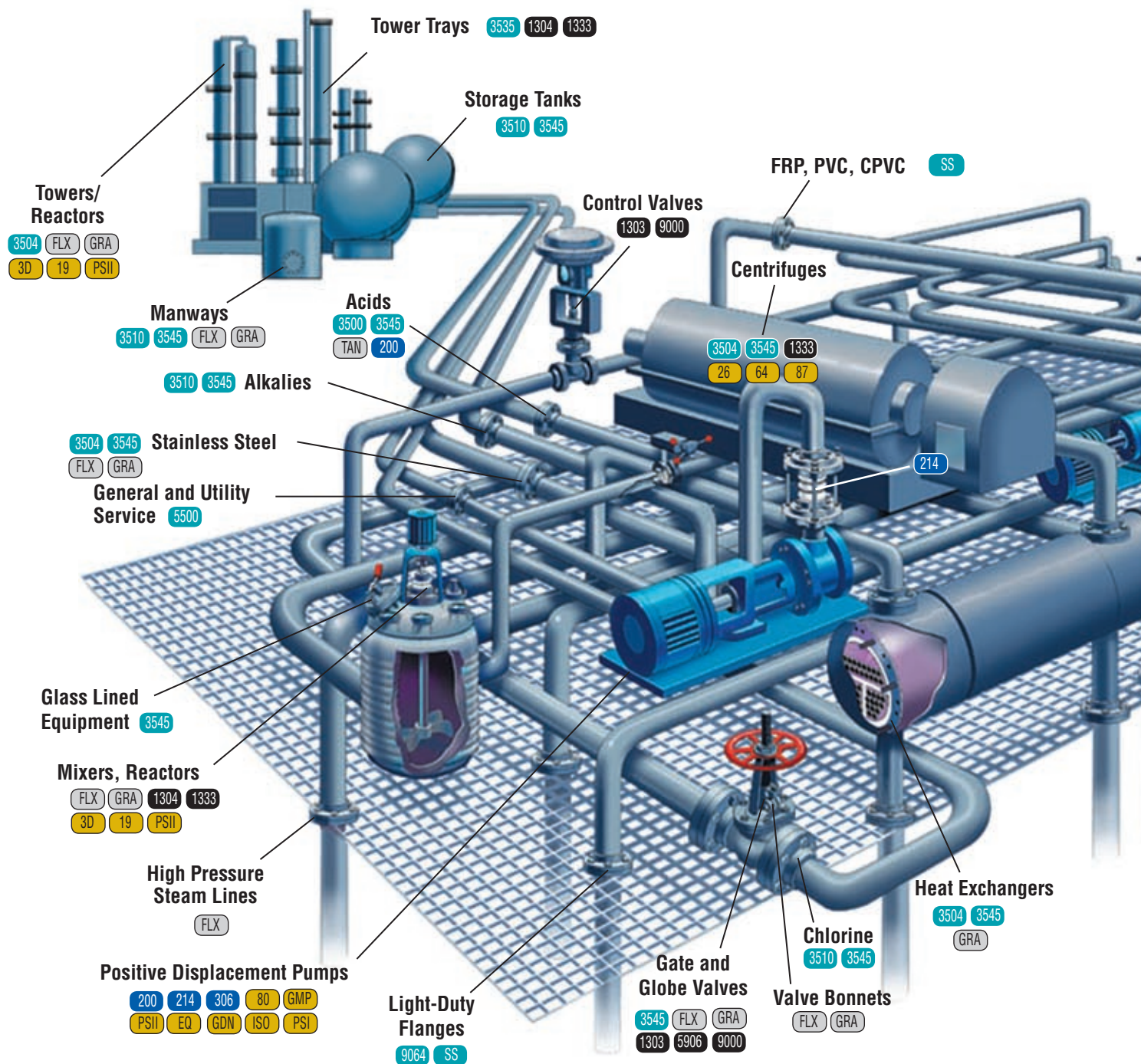
*PRODUCT RECOMMENDATION GUIDE*



**Garlock**  
SEALING TECHNOLOGIES®

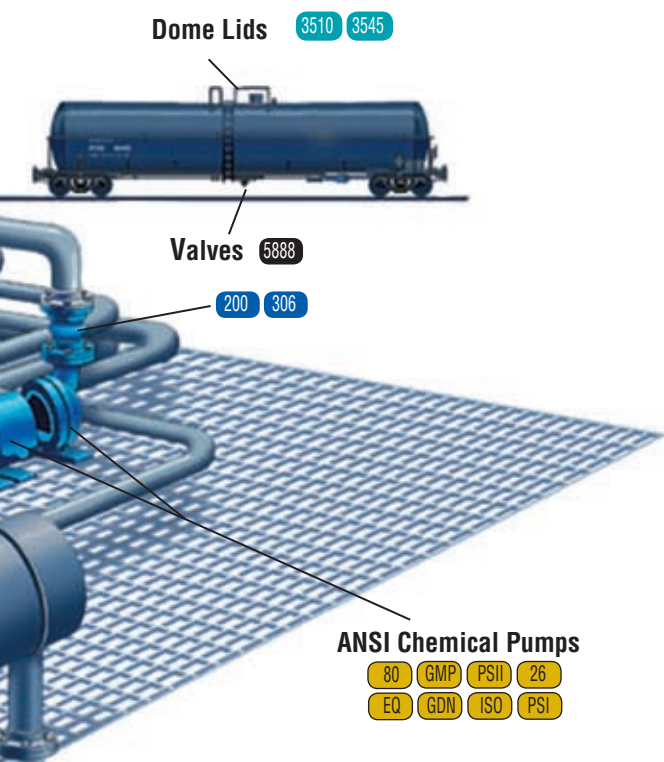
an EnPro Industries company

# Chemical Processing Product Recommendation Guide



## Compressed Gasketing

- 3500** GYLON® 3500 PTFE gasketing for strong acids
- 3504** GYLON® 3504 PTFE gasketing for stainless steel flanges, heat exchangers, towers/reactors and centrifuges
- 3510** GYLON® 3510 PTFE gasketing for strong alkalies and acids; listed on Chlorine Institute Pamphlet 95
- 3535** Style 3535 PTFE joint sealant for plate exchangers and tower trays
- 3545** GYLON® 3545 100% pure, compressible PTFE gasketing for all types of flanges, especially glass-lined equipment and rail cars
- 5500** IFG® 5500 gaskets for saturated steam, oils, refrigerants, mild chemicals, aliphatic hydrocarbons, gasoline, inert gases and water
- 9064** Style 9064 white neoprene gasketing, 60 durometer, conforms to FDA 21CFR177.2600
- SS** STRESS SAVER® gaskets for FRP, PVC, CPVC, and other types of nonmetallic flanges



Dome Lids 3510 3545

Valves 5888

200 306

ANSI Chemical Pumps

80 GMP PSII 26  
EQ GDN ISO PSI

**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.

**Metallic Gaskets**

- FLX** FLEXSEAL® spiral wound gaskets
- GRA** GRAPHONIC®, Kammprofile, and double-jacketed gaskets for shell and tube heat exchangers
- TAN** TANDEM SEAL™ fire-safe, chemically inert, spiral wound gaskets

\* Patent #4,328,974

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**Compression Packing**

- 1303** Style 1303-FEP\* braided graphite spool packing for all types of valves
- 1304** Style 1304 or 1333-G braided graphite spool packing for rotating equipment, tower trays and centrifuges
- 1333**
- 5888** Style 5888 for acid and chlorine valves on rail cars
- 5906** Style 5906 braided PTFE packing for food and pharmaceutical applications
- 9000** 9000-S EVSP\* cup-and-cone packing for all emission control valves subject to EPA regulations, especially high-pressure ethylene crackers

**Expansion Joints**

- 200** GUARDIAN® 200/200HP FEP-lined joints with abrupt arch configuration
- 214** Style 214/215 flexible PTFE pipe couplings, available in 1" to 8" sizes
- 306** GUARDIAN® 306 FEP-lined joints with wide flowing arch configuration

**KLOZURE® Mechanical Seals**

- 3D** 3-D mixer/agitator seals compensate for extreme shaft movement. Up to 1" total indicated runout (TIR)
- 19** Type 19 mixer seal designed for vertical mixers, and other equipment with excessive radial shaft movement
- 80** Type 80 balanced rotary seal for ANSI chemical pumps
- GMP** GMP-I and GMP-II single or double cartridge seals for positive displacement and ANSI chemical pumps
- PSII** P/S®-II multi-lip cartridge seals for positive displacement and progressive cavity pumps, ANSI chemical pumps, and mixers/reactors

**KLOZURE® Oil Seals & Bearing Isolators**

- 26** Model 26 lip seals for centrifuges, positive displacement and ANSI chemical pumps
- 64** MODEL 64® and Model 87 severe service lip seals for centrifuges; available in fluoroelastomer, nitrile and MILL-RIGHT®
- 87**
- EQ** EQUALIZER™ bearing isolators for high-speed centrifuge applications, ANSI pumps, and rotating equipment
- GDN** GUARDIAN™ metallic bearing isolators for positive displacement and ANSI chemical pumps; available in bronze and stainless steel
- ISO** ISO-GARD® bearing isolators for positive displacement and ANSI pumps
- PSI** P/S®-I lip seals for positive displacement and ANSI chemical pumps

## Food and Pharmaceutical Applications - Typical Equipment

- Agitators
- Conveyors
- Dryers
- Mixers
- Pumps/motors
- Autoclaves
- Cookers
- Filter systems (screens)
- Non-metallic piping
- Storage tanks
- Blenders
- Cooling vessels
- Homogenizers
- Packaging/bottling

## Sealing Components for FDA Compatibility (Examples only, not a complete list)

### Gasketing

- Style 8316 EPDM gasketing
- Style 9064 neoprene gasketing
- STRESS SAVER® PTFE/EPDM gasketing
- GYLON® restructured PTFE gasketing, in various styles and fillers
- FLEXSEAL® spiral wound gaskets with 304 SS and PTFE filler

### Expansion Joints

- GUARDIAN® 306 EZ-FLO™ expansion joints with FEP lining
- Style 206 EZ-FLO™ expansion joints with EPDM liner
- Styles 214/215 PTFE flexible couplings

### Stuffing Box Sealing

- PTFE compression packing Styles 5904 and 5906
- GMP-I and II cartridge mechanical seals
- P/S®-II cartridge mechanical seals with white GYLON® lips
- 3D mixer/agitator seals with white GYLON® lips

### Radial Lip Sealing/Exclusion

- Model 23/53/63 lip seals with FDA-compliant silicone
- P/S®-I (Model 61) radial lip seals with FDA-compliant GYLON®
- ISO-GARD® bearing isolators with FDA-compliant filled PTFE

### Hydraulic Sealing

- Style 7500 CHEVRON® packing
- FDA urethane U-seals

*Garlock offers the most complete line of FDA-compliant materials in the industry.*

*Please consult Garlock for details on FDA-compliant gasketing, packing, expansion joints, hydraulic components, etc., and KLOZURE® Dynamic Seals for oil seals, bearing isolators and mechanical seals.*

## AUTHORIZED REPRESENTATIVE

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