



**LGG INDUSTRIAL**

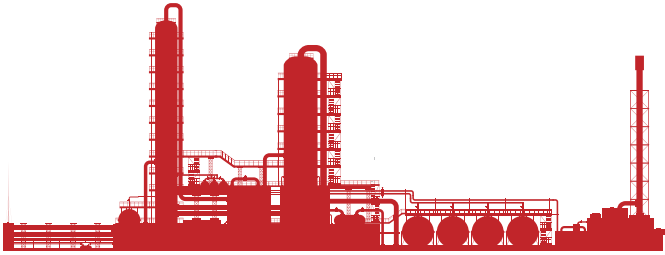
**Solutions for:**

**The Refining Industry**

## WHY

# LGG Industrial?

Some Of The World's Largest Refineries Trust Our Decades Of Industry Experience,



Their Confidence is Rooted in Our Ability to: Deliver System Engineered Solutions from the Most Reputable Manufacturers, Provide High-Performance Alternatives, Repair and Reclamation Services.



In-Depth Knowledge of Our Products,



And Their Applications to Provide Them with Unique Market Advantages.



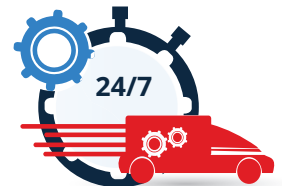
We Have Documented a Savings to Our Refinery Customers of \$10.3 Million Dollars (Or \$645k Per Customer) in the Last Five Years.

You can view specific refinery industry savings examples by visiting our industry page on our [www.lggindustrial.com](http://www.lggindustrial.com) website.

Our Commitment to Product Safety and Sustainability That Reduces Our Customers Total Cost of Ownership by Increasing the Products Lifespan.



Our Proactive Service Which is Backed by Our North American Geographic Footprint of Nearly 90 Locations Allows Us to Provide Immediate 24/7 On-Site Diagnostic and Preventative Service, Local Emergency Response and Faster Delivery Times.



The Long Time Tenure of Our Specialists We Have on Staff Have Proven That They Can Solve Their Problems Before They Become Emergencies.



**One of the Largest Refineries  
in the U.S. Wrote to Thank Us  
for a Massive Turnaround  
and Capital Project That  
We Were Involved in.  
The Note Read As Follows:**



*“ I just wanted to take the time to thank all of your personnel for the ‘great service’ that we received during this fall turnaround. Everyone gave their all (110%) to supply the needed material and service requested.*

*I personally and truly appreciate all of your efforts. It makes my job so much better/easier. Once again... thank you! ”*

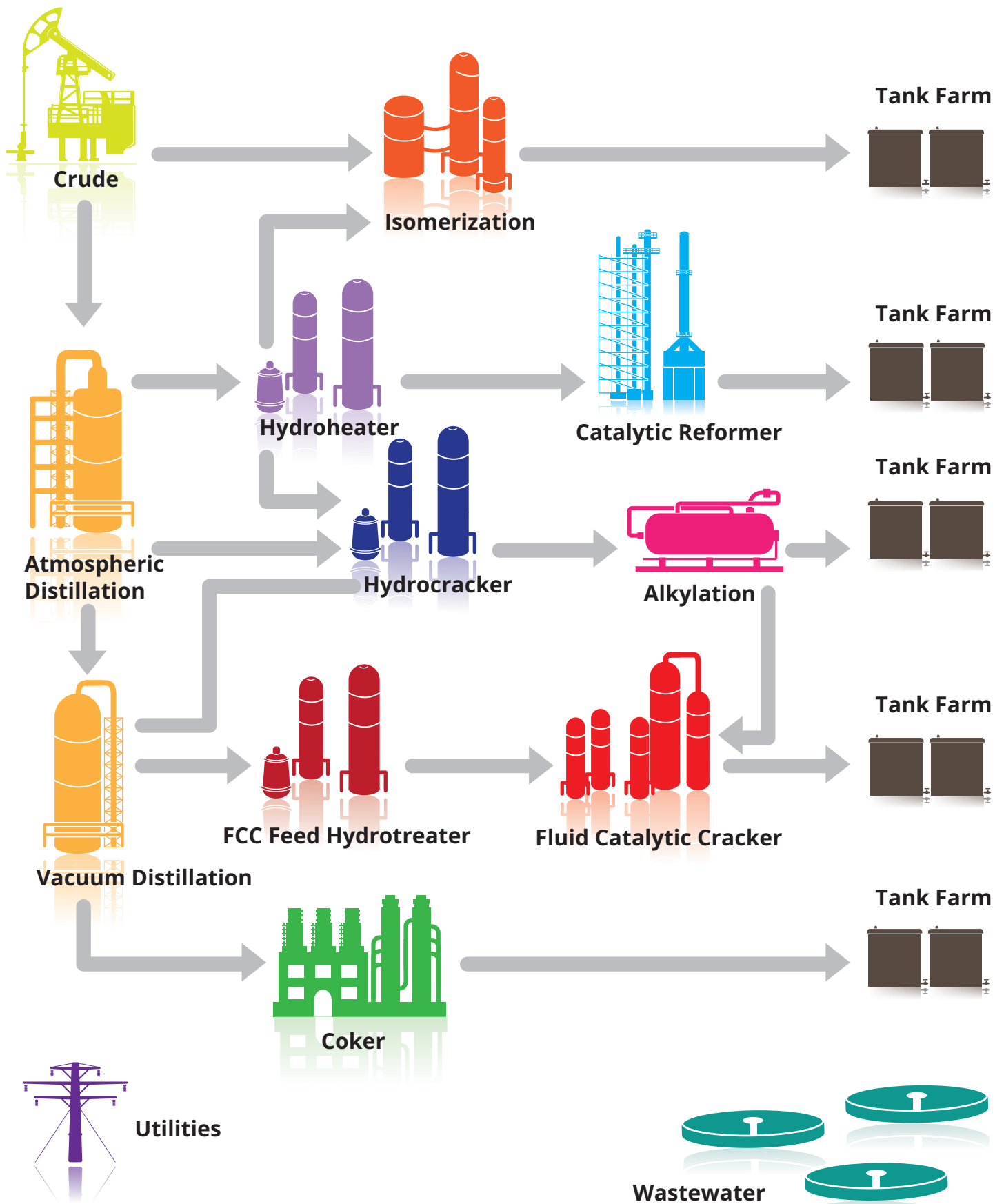
We Are Active  
Members of  
Top Accredited  
Associations



We Are Also Ranked As A Market Leader  
In Modern Distribution Management:



# Refinery Overview: Bringing the parts together.





# Products

## Gasketing Selection

Refinery Unit	KAG™	CGG™	ALKY-ONE	Spiral-wound	HDLE	Double Jacketed	Flexible Graphite	PTFE w/ Glass	PTFE w/ Barium Sulfate	NBR/ Carbon Fiber	NBR/ Aramid/ Inorganic*	NBR/ Aramid Fiber*
Atmospheric Distillation	■	■		■	■	■	■					
Vacuum Distillation	■	■		■	■	■	■					
Hydrocracker	■	■		■	■	■	■					
Hydrotreater	■	■		■	■	■	■					
Coker	■	■					■					
Alkylation	■	■	■	■	■			■	■			
Isomerization	■	■		■	■	■	■					
FCC Feed Hydrotreater	■	■		■	■	■						
Fluid Catalytic Cracker	■	■		■	■	■	■					
Catalytic Reformer	■	■		■	■	■						
Tank Farm							■			■	■	■
Wastewater							■				■	■
Utilities		■		■			■			■	■	■

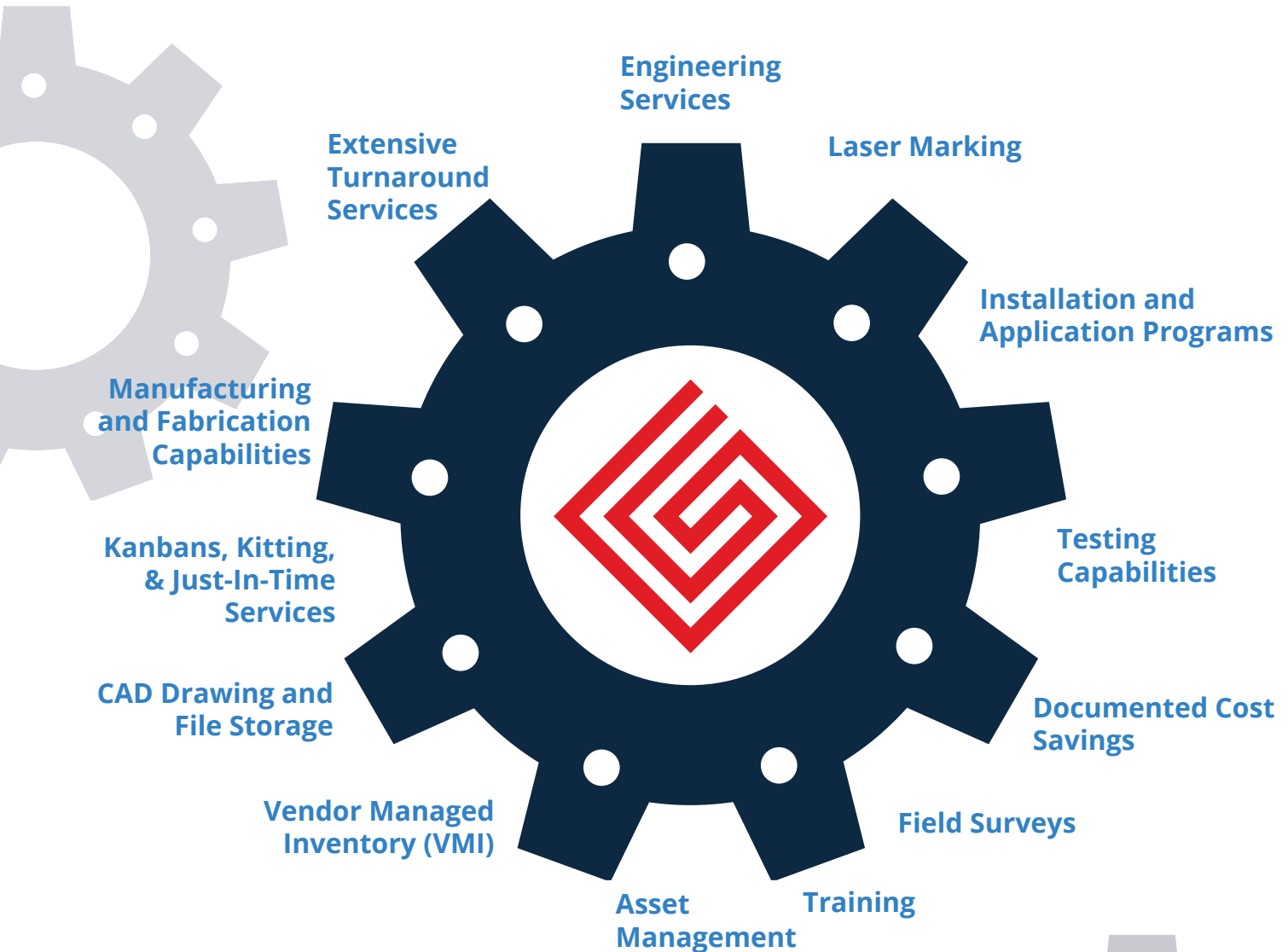
\*Temperature/Media/Pressure Dependent

## Hose Selection

Refinery Unit	Air Hose	Multi-Purpose Hose	Nitrogen Hose	Hydrocarbon Drain Hose	Steam Hose	Chemical Hose	Tank Truck Hose	Water Hose	LPG Hose	Decoking Hose	Metal Hose
Atmospheric Distillation	■	■	■	■	■	■	■	■			■
Vacuum Distillation	■	■	■	■	■	■	■	■			■
Hydrocracker	■	■	■	■	■		■	■			■
Hydrotreater	■	■	■	■	■	■	■				■
Coker	■	■	■	■	■	■	■	■		■	■
Alkylation	■	■	■	■	■	■	■	■			■
Isomerization	■	■	■	■	■	■	■	■			■
FCC Feed Hydrotreater	■	■	■	■	■	■	■	■			■
Fluid Catalytic Cracker	■	■	■	■	■	■	■	■			■
Catalytic Reformer	■	■	■	■	■	■	■	■			■
Tank Farm	■	■			■		■	■	■		
Wastewater	■	■			■	■	■	■			■
Utilities	■	■	■		■	■	■	■			■

\*Temperature/Media/Pressure Dependent

# LGG Industrial Offers an Unmatched Suite of Value Added Services



**Our product service portfolio is designed to significantly reduce our customers' total cost of ownership.**

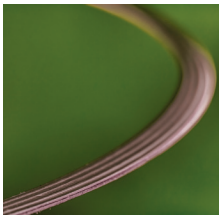
# Metal Gaskets



## Camprofile Gaskets

Style: KAG™

Camprofile Gaskets are high-performance gaskets used in a variety of flange applications including heat exchangers. The high purity graphite facing molds in place filling in flange irregularities creating a superior seal at lower stress levels. It maintains the seal even in the harshest environments, including hydrocarbons and steam applications. A machined metal gasket using a thicker metal core substrate provides a solid sealing solution especially in smaller cross-sectional spaces. They are designed for the most difficult sealing environments where performance is mission critical. Camprofile gaskets offer a high-quality sealing alternative solution for emission control.



## Corrugated Metal Graphite Gaskets

Style: CGG™

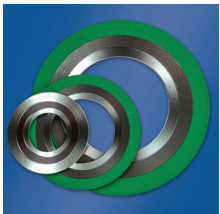
Corrugated Metal Graphite Gaskets are a more economical engineered gasket used in a variety of flange applications including heat exchangers. The high purity graphite facing molds in place filling in flange irregularities creating a superior seal at lower stress levels. It maintains the seal even in the harshest environments, including hydrocarbons and steam applications. The corrugated core results in superior recovery as well as crush resistance in the most demanding applications. Used in heat exchangers with cross-sections 1/2" or wider and where difficult sealing environments and mission critical performance is expected. Corrugated metal gaskets offer a high-quality sealing alternative solution for emission control.



## Alky Gaskets

Style: ALKY-ONE

The most advanced gasket for Hydrofluoric Acid Service. Five times as much deformation of the barrier pillow, giving better conformance to the flanges to eliminate flange corrosion. Seals with half the bolt load required by other gaskets and nearly three times as much gasket seating stress at full bolt loads. Proven Fire-Safe to API 6FB by Yarmouth Research Lab.



## Spiral-wound Gaskets

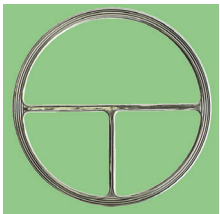
Spiral-wound Gaskets were developed specifically to handle the severe temperatures and pressures found in a refinery. These gaskets are engineered to be flexible and to recover when confronted with pressure, temperature fluctuations, bolt stress, relaxation and creep. These gaskets can be used with almost every known corrosive and toxic media. Spiral-wound Gaskets with an inner ring prevent inward buckling of the winding from entering the process stream.



## HDLE Gasket

Style: High Density Low Emission Spiral Wound Gasket

Style SRI Spiral-wound gasket constructed with high density >98% purity inhibited grade graphite that extends slightly above the metal windings and wound with metal filler to a specific pressure setting on the windings to ensure uniform compression under high load creating a low emission seal without crushing the sealing element.



## Double Jacketed Gaskets

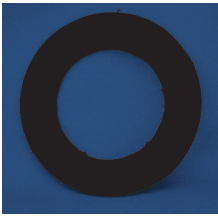
Double Jacketed Gaskets offer greater compressibility and resilience than a solid metal gasket due to the enclosed soft filler. The two piece metal construction also provides extra rigidity allowing for large diameters. Double Jacketed Gaskets are used on boiler and heat exchanger applications when ample bolting is available to correctly seat the gasket. They are designed for high pressure and temperature applications.



**Advanced Sealing**

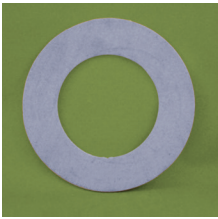
**LeaderGasket**

# Soft Gaskets



## Flexible Graphite

From precision pipe threads to large valves and flanges, GRAFOIL® Flexible Graphite create a superior seal. GRAFOIL® products fill pits, gouges and microscopic irregularities under only moderate bolt loads, leaving no open spaces – or voids for leak path improvement. Even the most demanding industrial, chemical and petrochemical sealing applications can benefit from GRAFOIL® products.



## Biaxially Oriented PTFE Sheet with Hollow Glass Microspheres

Modified PTFE gasket material manufactured with biaxial orientated chains to obtain a tight seal for demanding applications. Produced with Modified PTFE and hollow glass micro spheres, this material has rather high compressibility characteristics and low minimum seating stress value. It is typically recommended for low torque applications, plastic pipe systems and flanges, as well as glass and ceramic lined equipment.



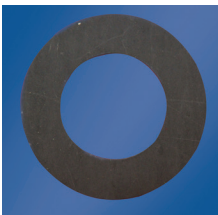
## Biaxially Oriented PTFE Sheet with Barium Sulfate Filler

Modified PTFE gasket material manufactured with biaxial orientated chains to obtain a tight seal for demanding applications. A very dense material with low compressibility, high recovery and low creep properties. Off-white in color and produced with Modified PTFE and barium sulfate filler, it is particularly suitable for use with hydrofluoric acid and chlorine applications and a wide variety of different media across the whole pH-range.



## Compressed NBR/Carbon Fiber Sheet

Compressed NBR/Carbon Fiber Sheet Gaskets possess excellent creep resistance and are suitable for use with oils, fuels and refrigerants. They are a universal grade especially suitable for use under alkaline conditions, with good steam resistance and can also be used for general service gaskets on all machinery, process piping and equipment.



## Compressed NBR/Aramid/Inorganic Fiber Sheet

Made of good quality material based on a blend of aramid and inorganic fibers bonded with high quality nitrile rubber. General purpose material suitable for use in a wide range of applications, including hot and cold water, steam, oils, fuels, gases and a wide range of general chemicals.



## Compressed NBR/Aramid Fiber Sheet

NBR/Aramid fiber is compressed gasket sheet made with all the great features of premium gasket materials without the cost. Nothing is left out, only the best raw materials are used, without compromise. It exhibits excellent cutability and flexibility characteristics and is recommended for general service gaskets in process piping, blinding and equipment.



**Advanced Sealing**





# Fasteners & Kitting



In order to provide customers with all of the components that create a leak free environment, LGG Industrial stocks and fabricates a wide range of fasteners for process industries. We stock Grades 5, 8, B7, B7M, B8, B8M and B16 studs. These can be assembled along with 2H, 8F, 8M, 4H and Grade 7 nuts and threaded bar. Our production facilities will cut bar to specified lengths to meet all our customers requirements.

## Exchanger and Bolted Joint Kitting

- Complete “point of use” packaging of all components and supplies required for exchanger assemblies, including gaskets, custom fasteners, anti-seize and assembly instructions. All components tagged to specific flanges for trouble-free assembly.
- Kits include all bolting and installation specifications in one unit
- System simplifies warehouse logistics and storage, reduces the risk for errors and improves efficiencies in managing employees by providing all of the items they need to properly and safely assemble the bolted joint - all in one place



## Standard ANSI Flange Kitting

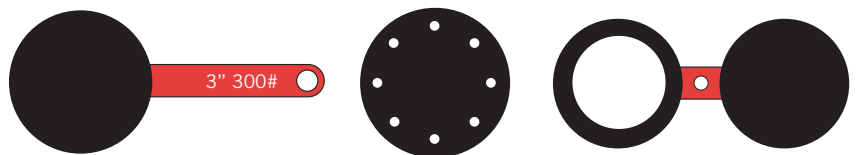
- Gaskets, fasteners and washers per flange size and pound class all in one place
- Easy to store
- Greater inventory control
- Reduced waste by eliminating loose parts for job requirements

**Our kitting capabilities allow us to provide the right gasket, eliminate torque misapplication and create time efficiencies providing one thing - total peace of mind.**

## Blinds

Style: Paddle and Spectacle

For all your isolation and hydro requirements (isolation blinds are not intended for pressurized services or hydrotest). Unless specified, isolation blinds are 1/4" to 3/8" carbon steel. Blinds for hydrotest are available with thickness per ASME and API.



# Tube/Coker/Reformer Seals/Conveyor Solutions

## Tube/Coker/Reformer Seals

Keeps cold air out and hot air in your furnaces. Full top-to-bottom zipper prevents gapping throughout thermal cycle. Inner and outer flaps overlap to protect the zipper and D-Ring Buckle keeps outer flap closed. Abrasion-resistant Silica tape protects the top and bottom hems.



**Tube Seal**



**Coker Seals**



**Reformer Seals**

## Conveyor Solutions

We have a variety of conveyor system components and management programs to meet the needs of your plant. Our primary product offering to the refinery industry is comprised of heavyweight and lightweight belt (grade I & II as well as specialty compounds), bucket elevator belt and a variety of accessories including impact rollers, impact beds, belt cleaners, pulleys, idlers, lagging and chute lining.

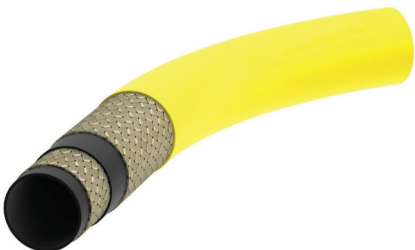
We also have conveyor-system service teams throughout the U.S. and Canada that provide a variety of installation, troubleshooting and preventative maintenance services. These crews are fully equipped to mobilize and respond to your conveyor systems needs 24/7.



**Coker belt at a Refinery**

# Hoses

## Air Hose



### High Pressure Utility Air Hose

<b>Applications:</b>	Compressed air transfer service
<b>Tube:</b>	Wrapped SBR Tube
<b>Reinforcement:</b>	Textile braid
<b>Cover:</b>	Wrapped EPDM rubber compound, yellow cover
<b>Temperature Ranges:</b>	-40°F to 180°F (-40°C to 82°C)
<b>Working Pressure:</b>	500 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1/2" to 2"

# Hoses

## Air Hose



### Hi-Temp Compressed Air Hose

<b>Applications:</b>	Compressed air transfer service
<b>Tube:</b>	Wrapped CPE Tube
<b>Reinforcement:</b>	Multiple layers of wrapped tensile steel wire
<b>Cover:</b>	Wrapped EPDM rubber compound, yellow cover
<b>Temperature Ranges:</b>	-40 °F to 300 °F (-40°C to 148°C)
<b>Working Pressure:</b>	600 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1" through 4"

## Multi-Purpose Hose



### GOODALL® Saxon 300 PSI Nitrile Multi-Purpose Hose

<b>Advantages:</b>	Extremely flexible, kink resistant and crush proof for harsh, demanding applications
<b>Applications:</b>	Premium multi-purpose heavy-duty hose handling air, water, oil, diesel and other petroleum based products (not recommended for unleaded gasoline)
<b>Tube:</b>	Extruded smooth NBR tube compound
<b>Reinforcement:</b>	High tensile strength 4 spiral polyester yarn reinforcement
<b>Cover:</b>	Extruded, smooth NBR/PVC abrasion, oil and ozone resistant rubber compound, red cover
<b>Temperature Ranges:</b>	-20 °F to 180 °F (-29°C to 82°C)
<b>Working Pressure:</b>	300 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1/4" through 1"



### GOODALL® Air Hammer & Titon 300 PSI EPDM Multi-Purpose Hose

<b>Advantages:</b>	Heat, abrasion, weather and ozone resistant
<b>Applications:</b>	Multi-Purpose applications in Petrochemical and Chemical refineries
<b>Tube:</b>	Extruded smooth EPDM tube compound
<b>Reinforcement:</b>	High tensile strength 4 spiral polyester yarn
<b>Cover:</b>	Extruded EPDM rubber compound: red, black, yellow, blue and green*
<b>Temperature Ranges:</b>	-40 °F to 203 °F (-40°C to 95°C)
<b>Working Pressure:</b>	300 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1/4" through 1"

\*Colors red and black kept in stock, minimum run required for all other colors

## Nitrogen Service Hose



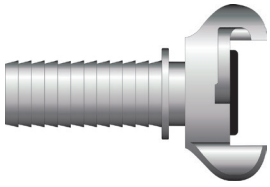
### 300 PSI Nitrogen Service Hose

<b>Applications:</b>	For use in nitrogen service to purge lines in refineries, petrochemical, and general industries
<b>Tube:</b>	Black thermoplastic PVC/NBR compound
<b>Reinforcement:</b>	Multiple spiral high tensile polyester
<b>Cover:</b>	Abrasion and weather resistant.
<b>Temperature Ranges:</b>	-20 °F to 150 °F (-29°C to 65°C)
<b>Working Pressure:</b>	300 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1/2" through 1"

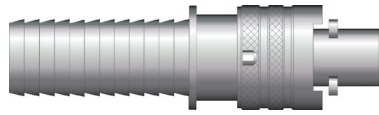


# Hoses

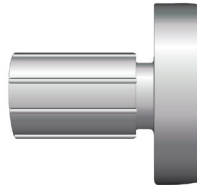
## Multi-Purpose and Nitrogen Connections



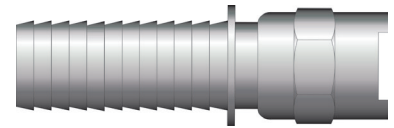
Chicago/Crows Foot



Male Bowes Coupling



Ground Joint Coupling

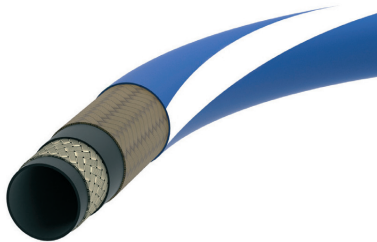


Female Bowes Coupling



Male NPT Threads

## Hydrocarbon Drain Hose



### 500 PSI High Temp Hydrocarbon Drain Hose

**Advantages:**

For uses where temperature exceeds 250°F

**Applications:**

To drain hydrocarbons from the operation of vessels and piping systems in chemical and petrochemical industries

**Tube:**

Extruded, smooth nitrile (NBR) compound with superior heat-resistant properties

**Reinforcement:**

High tensile wire braid and textile breaker yarn; braided with brass plated wire for corrosion resistance and improved adhesion

**Cover:**

Chlorosulfonated polyethylene blue abrasion and ozone resistant cover

**Temperature Ranges:**

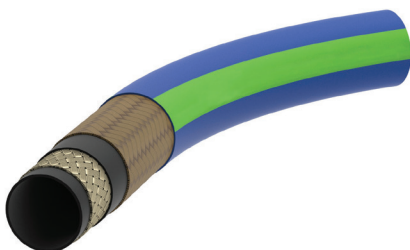
-40°F to 350°F (-40°C to 121°C)

**Working Pressure:**

500 psi, Burst Pressure Minimum 5:1

**Available Sizes:**

1/2" through 2"



### 300 PSI Hydrocarbon Drain Hose

**Applications:**

To drain hydrocarbons from the operation of vessels and piping systems in chemical and petrochemical industries.

**Tube:**

Extruded, smooth nitrile (NBR) compound with superior heat-resistant properties.

**Reinforcement:**

High tensile wire braid and textile breaker yarn; braided with brass plated wire for corrosion resistance and improved adhesion

**Cover:**

Chlorosulfonated polyethylene blue abrasion and weatherresistant cover

**Temperature Ranges:**

-40°F to +275°F  
-40°C to +135°C

**Working Pressure:**

300 psi, Burst Pressure Minimum 5:1

**Available Sizes:**

3/4" through 2"



# Hoses

## Steam Hose



### 250 PSI EPDM Steam Hose

<b>Applications:</b>	Steam application in Petrochemical and Chemical refineries
<b>Tube:</b>	Extruded smooth EPDM tube compound
<b>Reinforcement:</b>	Multiple braids of high tensile steel wire; braided with brass plated wire for corrosion resistance and improved adhesion
<b>Cover:</b>	Smooth EPDM rubber compound, pin-pricked black cover
<b>Temperature Ranges:</b>	-40°F to 450°F (-40°C to 232°C)
<b>Working Pressure:</b>	250 psi, Burst Pressure Minimum 10:1
<b>Available Sizes:</b>	1/2" through 2"



### GOODALL® Super Inferno 250 PSI Chlorobutyl Steam Hose

<b>Advantages:</b>	Heavy-duty construction with a 20:1 burst pressure for increased safety. Specifically designed to resist pop-corning and blistering.
<b>Applications:</b>	High-pressure steam hose for applications in Petrochemical and Chemical refineries
<b>Tube:</b>	Extruded smooth Chlorobutyl tube compound
<b>Reinforcement:</b>	Multiple braids of high tensile steel wire; braided with brass plated wire for corrosion resistance and improved adhesion
<b>Cover:</b>	Smooth EPDM rubber compound, pin-pricked red cover
<b>Temperature Ranges:</b>	-40°F to 450°F (-40°C to 232°C)
<b>Working Pressure:</b>	250 psi, Burst Pressure Minimum 20:1
<b>Available Sizes:</b>	3/4" through 1"

## Steam and Hydrocarbon Drain Couplings



**A Total Solution**

Crimping System  
+  
Steam and  
Hydrocarbon drain Hose  
=  
Reliable Solution for Your Steam and  
Hydrocarbon Drain Hose Application

Female Ground Joint, Male Pipe Thread,  
and Flanged fittings available

# Hoses

## Chemical Hose



### Chemical Transfer Hose 200 PSI Modified XLPE

<b>Advantages:</b>	Handles a broad range of chemicals
<b>Applications:</b>	Chemical application in Petrochemical and Chemical refineries
<b>Tube:</b>	Tan Modified XLPE Liner
<b>Reinforcement:</b>	Spiral-plyed synthetic fabric with steel wire helix
<b>Cover:</b>	Corrugated EPDM rubber compound, black
<b>Temperature Ranges:</b>	-40°F to 250°F* (-40°C to 121°C). Can be open end steam cleaned up to 50 psi (3.5 bar) at 212°F/100°C.
<b>Working Pressure:</b>	200 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1" through 4"

*\*Consult your LGG Industrial representative for more information*



### 200 PSI UHMW Chemical Hose

<b>Advantages:</b>	Handles a broad range of chemicals
<b>Applications:</b>	Chemical application in Petrochemical and Chemical refineries
<b>Tube:</b>	Natural UHMW Liner
<b>Reinforcement:</b>	High tensile spiral-plyed textile cords with embedded steel helix wires
<b>Cover:</b>	Corrugated EPDM rubber compound, green
<b>Temperature Ranges:</b>	-40°F to 250°F* (-40°C to 121°C)
<b>Working Pressure:</b>	200 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	3/4" through 4"

*\*Consult your LGG Industrial representative for more information*

## Tank Truck Hose



### 150 PSI Tank Truck Hose

<b>Applications:</b>	Very flexible and lightweight suction and delivery hose for hydrocarbon fuels and minerals oils having an aromatic content of maximum 50% by volume
<b>Tube:</b>	Black NBR rubber compound
<b>Reinforcement:</b>	High tensile spiral-plyed textile cords with embedded steel helix wires
<b>Cover:</b>	Corrugated CR rubber compound, black
<b>Temperature Ranges:</b>	-22°F to 176°F (-30°C to 80°C)
<b>Working Pressure:</b>	150 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	2" through 6"

# Hoses

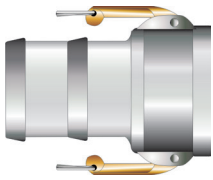
## Water Hose



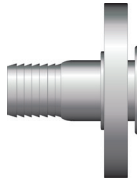
### 150 PSI Water Suction and Discharge Hose

<b>Applications:</b>	Chemical application in Petrochemical and Chemical refineries
<b>Tube:</b>	Tan Modified XLPE Liner
<b>Reinforcement:</b>	Spiral-plyed synthetic fabric with steel wire helix
<b>Cover:</b>	Corrugated EPDM rubber compound, black
<b>Temperature Ranges:</b>	-40°F to 250°F (-40°C to 121°C). Can be open end steam cleaned up to 50 psi (3.5 bar) at 212°F/100°C.
<b>Working Pressure:</b>	200 psi, Burst Pressure Minimum 4:1
<b>Available Sizes:</b>	1" through 4"

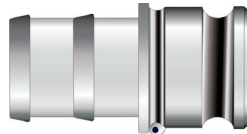
## Large Bore Hose Connections



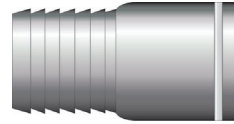
**Female Cam & Groove**



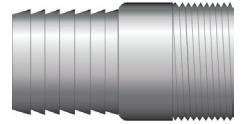
**Fixed & Floating Flanges**



**Male Cam & Groove**



**Victaulic Groove**



**Male NPT Threads**

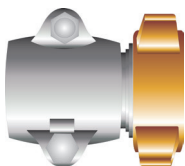
## LPG Hose



### 350 PSI NBR LP Gas Delivery Hose

<b>Applications:</b>	Premium LPG Transfer hose
<b>Tube:</b>	Smooth extruded nitrile (NBR) tube developed specifically to resist tube cracking caused by the transfer of LPG
<b>Reinforcement:</b>	Multiple braids of high tensile textile reinforcement
<b>Cover:</b>	Superior abrasion resistant neoprene, pin-pricked black cover
<b>Temperature Ranges:</b>	-40°F to 180°F (-40°C to 82°C)
<b>Working Pressure:</b>	350 psi, Burst Pressure Minimum 5:1
<b>Available Sizes:</b>	1" through 2"

## LPG Hose Connections



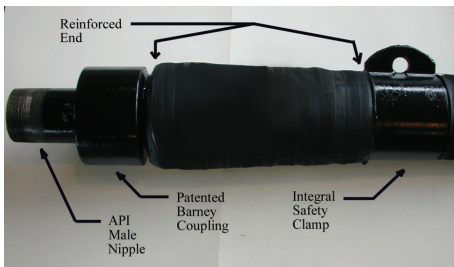
**Female ACME Coupling**



**Male NPT Threads**

# Hoses

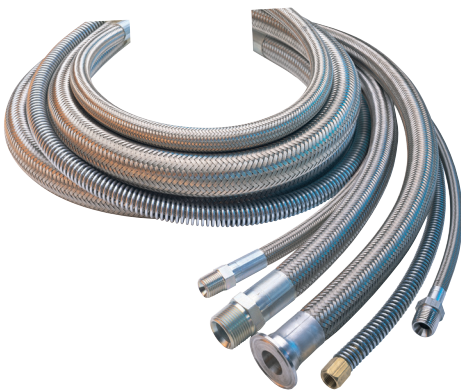
## Decoking Hose



## High Pressure Decoking Hose

- Tube:** Nitrile Copolymer – highly oil resistant
- Reinforcement:** Multiple plies of high tensile brass coated steel cables. The textile carcass is made of multiple plies of high tensile synthetic fabric. The cushion layers are made of Synthetic Copolymer designed to add body and provide uniform separation of hose elements to control twist.
- Cover:** Neoprene Copolymer designed to resist external environmental elements and effects of abrasion and cutting commonly found in decoking operations
- Suggested Fittings:** Flanges are RTJ ANSI Series 1500# or 2500# (or per customer requirements). All couplings and flanges are full flow without restrictions (3 ½" I.D.).
- Temperature Ranges:** -40°F to 176°F (-40°C to 80°C)

## Metal Hose



## One Wire and Two Wire SS Metal Flex Hose

- Advantages:** Sustainable hose solution with universal chemical resistance. Non gas permeable and vibration resistant.
- Applications:** Corrugated stainless steel metal hose with braided stainless steel overbraid hose for extreme temperature and chemical resistance. Good for high pressure applications.
- Tube:** Formed corrugated tube, 321 or 316L, specialty materials available upon request
- Cover:** Single or Double Braid Stainless Steel 304 overbraid
- Temperature Ranges:** High temperatures (550°C / 1022°F max)
- Fittings:** Multiple Coupling Connections. Male pipe, Female pipe fixed and swivel, JIC Male and Female, ANSI Flanges Fixed and Floating
- Available Sizes:** ½" through 10"



# Loading Arms and Other Products

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**Marine Arms**



**Gangways**



**Rail Arms**



**Swivel Joints**



**Truck Arms**



**Couplers & Other Accessories**

LGG Industrial provides expertise, service, and accessories for all Loading Arm Products.

# Hoses

## Gate Valves



### 1 In. Gate Valve

Stainless  
Flanged End  
Class 150



### 2 In. Gate Valve 600RF12SH

Flanged End  
Class 600



### 3 In. Gate Valve 301RF8

Flanged End  
Class 300



### Forge Steel Gate Valves

Sizes Available: 0.25-2 in.  
Conventional Port  
Class 800

## Globe Valves



### Forge Steel OS&Y Globe Valves

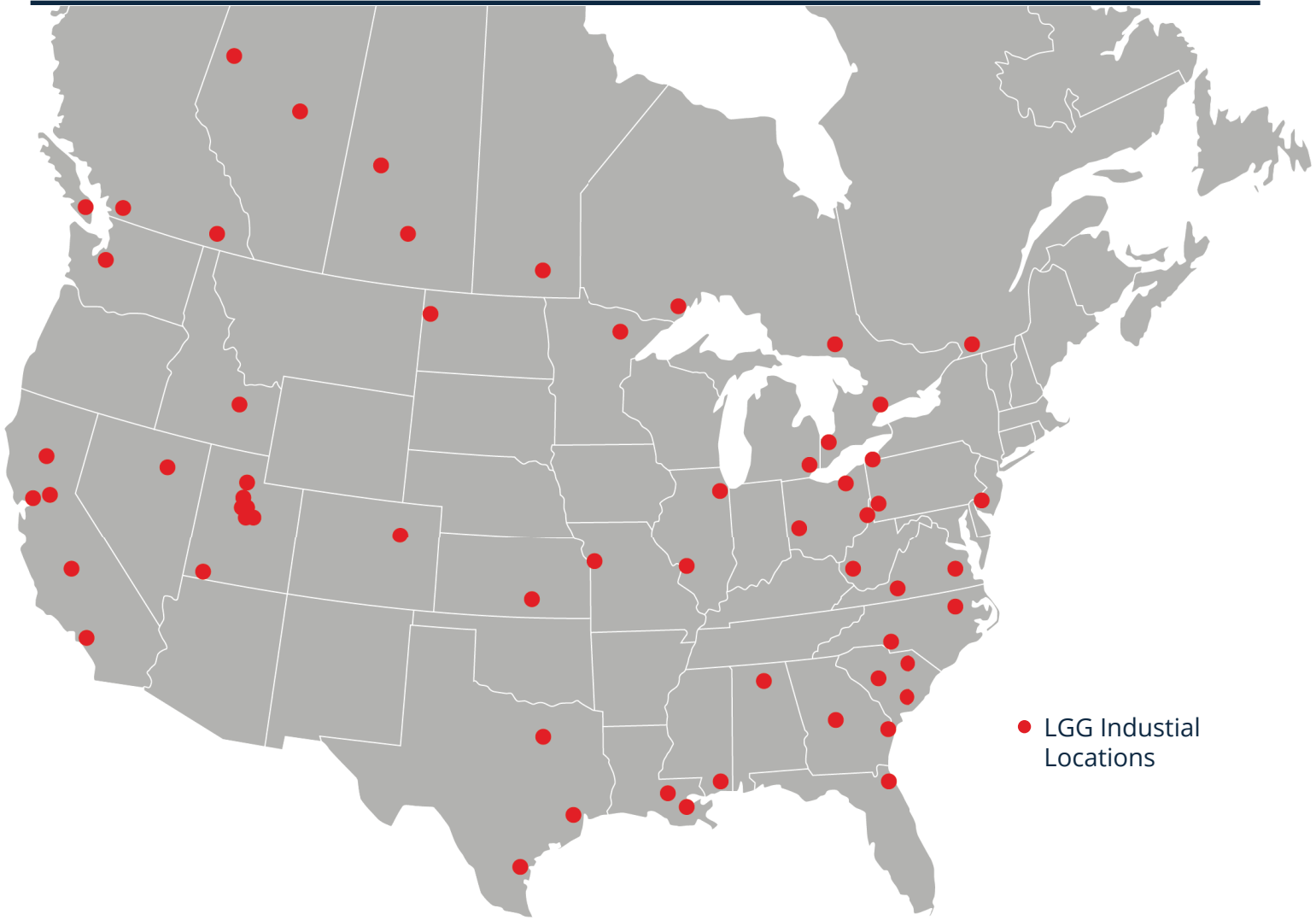
Sizes Available: 0.25-2 in.  
Class 800

## Check Valves



### 4 In. Check Valve 152RF8

Flanged End  
Class 150



**LGG Industrial offers a complete line of products including:**

- Fluid Transfer Solutions
- Fluid Power Hose Solutions
- Material Handling Solutions

**LGG Industrial Industries Served:**

- |                   |                    |                            |
|-------------------|--------------------|----------------------------|
| • Aggregate       | • Mining           | • Pulp & Paper             |
| • Agriculture     | • OEM              | • Refining & Petrochemical |
| • Chemical        | • Oil & Gas        | • Rental                   |
| • Food & Beverage | • Power Generation | • Tire                     |
| • Grain           | • Primary Metals   |                            |





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