GARLOCK

Buy Garlock

(A POEM)

by a

Poet Engineer



DISTRIBUTED BY

THE GARLOCK PACKING COMPANY

MANUFACTURERS OF

MECHANICAL PACKINGS

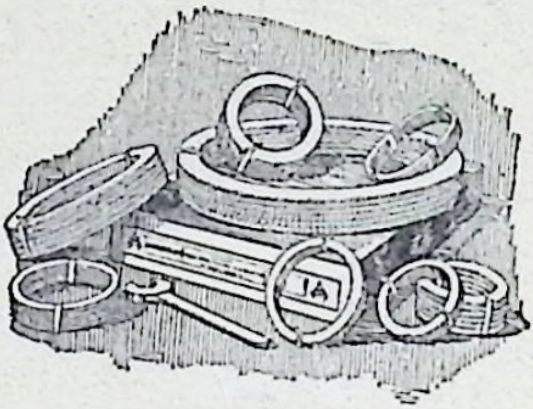
The Standard Packing of the World

GARLOCK

Parcel Post Service by Garlock

GARLOCK-604

High Pressure
Folded
Asbestos
Gaskets



Garlock Service can be rendered on certain commodities by Mail Order and Parcel Post Shipment the same as if the recommendation was made by a Garlock Service Man.

There is a stock of Garlock Standard Packings in a number of industrial centers and within forty-eight hour mail delivery to your plant. Shipments can be effected the same day the order is received on the following products provided the correct dimensions are given:

GARLOCK 22 Red Sheet Packing.

GARLOCK 900
Compressed Asbestos Fibre Sheet Packing.

GARLOCK 117
Braided and Twisted Valve Stem Packing.

GARLOCK 604
High Pressure Folded Asbestos Gaskets.

GARLOCK VALVE DISCS

GARLOCK GAUGE GLASS WASHERS

When you are in the need of any of the above, drop a Postal Card to the nearest Garlock District Office and obtain Quality Controlled Packings delivered to your door by return mail.

The Standard Packing of the World

GARLOCK

The Insignia of Service



The Emblem of Quality

The Garlock Packing Company

Manufacturers of

Asbestos Rubber **GARLOCK PACKINGS** Metal Fibrous

General Offices and Factories

PALMYRA, NEW YORK

Sales Offices and Warehouses

New York, N. Y., 114 Liberty Street.
Boston, Mass., 88 Broad Street.
Cleveland, Ohio, 1276 West Third Street.
*Denver, Colo., 1540 Cleveland Place.
Palmyra, N. Y., 50 Main Street.
Pittsburgh, Pa., Chamber of Commerce Bldg.
St. Louis, Mo., 1017 Olive Street.
*Los Angeles, Calif., 2469 Porter Street.
Philadelphia, Pa., 1211-17 Arch Street.
*Birmingham, Ala., 1922-24 Avenue B South.
Chicago, Ill., 600 West Jackson Blvd.
*San Francisco, Calif., 671 Mission Street.
Baltimore, Md., 102½ Gay Street, Stewart Bldg.
Cincinnati, Ohio, 512 Gwynne Bldg.
Detroit, Mich., 3-250 General Motors Bldg.
New Orleans, La., 326 Chartres Street.
Salt Lake City, Utah, 322-323 Dooly Bldg.
Portland, Ore., 230 Stark Street.
Seattle, Wash., 71 Marion Street.

Canadian General Sales Offices and Factory
Hamilton, Ont.

Export Department
Atlantic Coast Division
114 Liberty Street, New York, N. Y.

Pacific Coast Division
671 Mission Street, San Francisco, Calif.

*Branch Factories located at these points.

The Standard Packing of the World

FORM-100A-10M PRINTED IN U. S. A.

Buy Garlock

The shades of night were falling fast
As from the "Corliss" came a blast;
The packing blew from 'round the rod
And shouted like an angry God
"Get Garlock,"

The engineer worked two hours late
And what he said I dare not state;
Though packed with oaths still stayed the cause;
The brand upon his packing was
Not Garlock.

One day there came an agent man;
He talked as only agents can;
His speech condensed and trimmed and rolled
Was, "Garlock saves both time and gold,
Buy Garlock."

The engineer denied he should
When what he had was "just as good"—
This did not halt the agent's spiel
But set his teeth to close a deal
For Garlock.

The engineer had just said "no"
When once again that gland let go.
The agent quick with meaning nod
Said, "Can't deceive a piston rod,
Get Garlock."

Now fate was sure against the chief,
His engine room was filled with grief;
That agent quick to see his chance
Came forward with a grand advance
For Garlock.

"I'll send a box on ninety days
And if by then it wins your praise
You may the bill yourself O.K.
And if it fails you do not pay;
Test Garlock."

The outcome ceased to be a guess
When in awhile the chief said "yes"
That agent's speed was half-hour-scant
To land a package at the Plant
Marked "Garlock."

Now stories should have happy ends;
Thus, this one naturally tends.
The balance of my song is sweet,
The chief declares It's hard to beat
That Garlock.

The "Corliss" rod has shared its find
With stems and joints of every kind;
The things that used to squeal and weep
Have dried their tears and silent keep
With Garlock.

The boiler pump has ceased to sin;
It's "Garlock" packed outside and in.
The lighting engine now can hum
That happy tune, "I'm going some"
On Garlock.

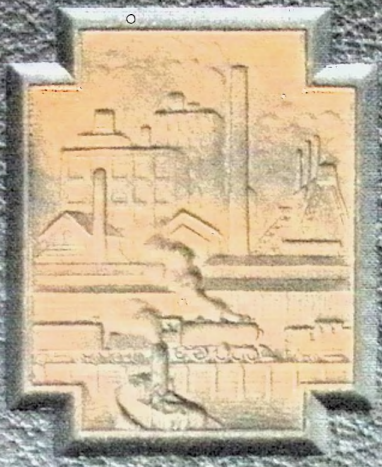
And now you think my story's done;
Say, friend, that's only chapter one:
A thousand plants their chapters send,
There really is no "story's end"
To Garlock.

By
R. Manley Orr
Vancouver, B. C.
Canada

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GARLOCK

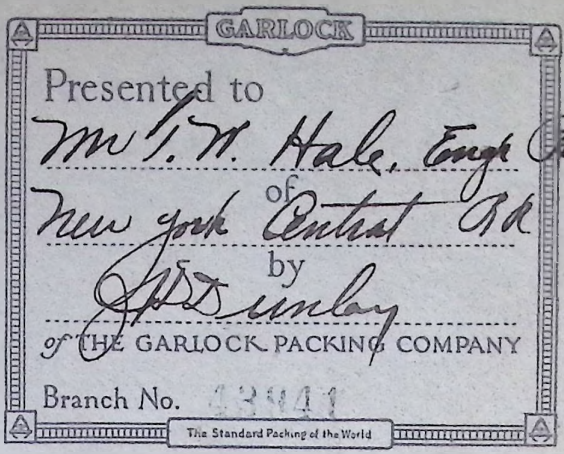
GARLOCK



PACKING SERVICE

The Standard Packing of the World

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Copyright 1925
THE GARLOCK PACKING COMPANY
Palmyra, New York, U. S. A.

CATALOG A-1925
Reprint 1927
Printed in U. S. A.

GARLOCK
TRADE MARK

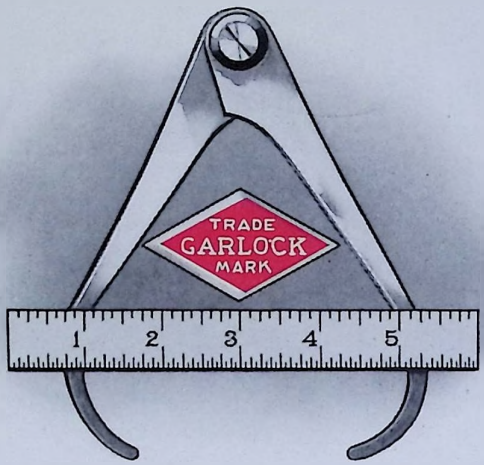
GARLOCK
Packing Service

TRADE MARK REG. U.S.A. AND FOREIGN COUNTRIES



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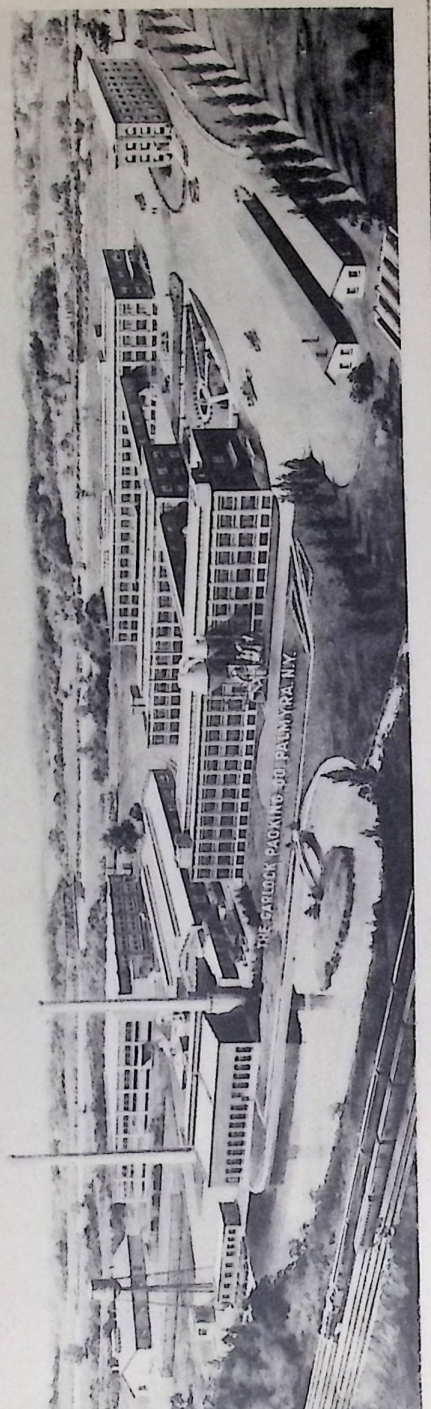
REGISTERED
U. S. Patent Office

GARLOCK

Trade Mark

Registered U. S. Patent Office
and
in foreign countries

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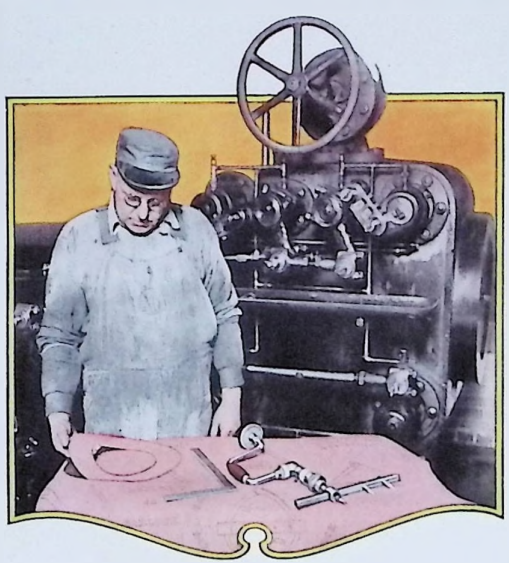


COMPOSITE GROUP
GENERAL OFFICES AND FACTORIES
THE GARLOCK PACKING COMPANY
Makers of GARLOCK PACKINGS Reg. U.S. Pat. Office
PALMYRA, NEW YORK, U. S. A.

GARLOCK

"The Standard Packing of the World"

Garlock Packing is known as "The Standard Packing of the World;" it is used as the basis of comparison for all other packing.



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THE GARLOCK PACKING COMPANY

General Offices and Factories
PALMYRA, NEW YORK

Canadian Factories and General Sales Offices
MONTREAL, QUEBEC

BRANCH FACTORIES

Denver, Colo.
Los Angeles, Cal.
Birmingham, Ala.
San Francisco, Cal.

SALES OFFICES AND WAREHOUSES

New York, N. Y.
Boston, Mass.
Cleveland, Ohio
Palmyra, New York
St. Louis, Mo.
Philadelphia, Pa.
Chicago, Ill.
Denver, Colo.
Pittsburgh, Pa.
Los Angeles, Cal.
Birmingham, Ala.
San Francisco, Cal.

EXPORT DEPARTMENT

ATLANTIC COAST DIVISION OFFICES
114 Liberty Street, New York City
for
Europe, Africa, Central and East Mexico,
Central America, South America and West Indies.

PACIFIC COAST DIVISION OFFICES
671 Mission Street, San Francisco
for
Hawaiian Islands, Philippine Islands, Australia,
New Zealand, and Asia.

2469 Porter Street, Los Angeles
for
Lower California and Western Mexico.



INTRODUCTION

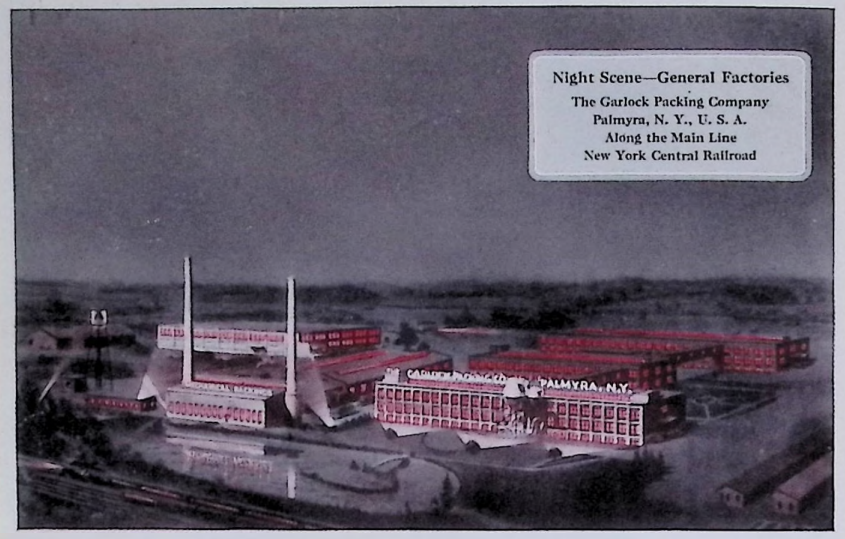
Garlock Service

IN this catalog we outline the features of GARLOCK Service and describe and illustrate our general line of packings—asbestos, rubber, metal and fibrous—gaskets, pump valves, valve discs, etc., which are a part of the service rendered.

In merchandising GARLOCK Service, The GARLOCK Packing Company gives the benefit of the knowledge obtained over a period starting with the year 1887, both from a manufacturing and sales engineering standpoint in the production of mechanical packings for every known type of mechanical equipment.

In order to market a practical and efficient packing service, we maintain a corps of technically trained packing representatives who are known as GARLOCK SERVICE MEN. They have headquarters in all parts of the United States and Canada as well as foreign industrial fields. If you have any packing problems on which you desire consultation, we will be glad to instruct a GARLOCK SERVICE MAN to call at your request.

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Night Scene—General Factories
The Garlock Packing Company
Palmyra, N. Y., U. S. A.
Along the Main Line
New York Central Railroad

Service Index

To enable the users of this catalog to locate the pages on which are illustrated and described the types or styles of commodities which we manufacture, we have prepared indexes. These indexes are paged as follows:

Section Index, page.....171
Style and Type Index, page....172
Service Index, page.....171

Features of Garlock Service

1. A corps of GARLOCK SERVICE MEN who may be called on by the customer for consultation on mechanical packing problems.
2. The maintenance of sales offices and warehouses in all parts of the United States and Canada where complete stocks of standard size packings are carried. This insures prompt delivery.
3. Service from mechanical packings that are manufactured complete from the crude to the finished commodity in our factories under one supervision. This means that the customer is furnished with a uniform product.
4. The operation of our own physical, chemical and experimental laboratories which are equipped for the investigation of packing problems. These laboratories also test crude materials to ascertain they comply with GARLOCK Standards before they are put into production.
5. The GARLOCK Packing Company does not consider a sale of its service complete unless the mechanical equipment is packed to the customer's satisfaction, provided the recommendation has been made by a GARLOCK SERVICE MAN.

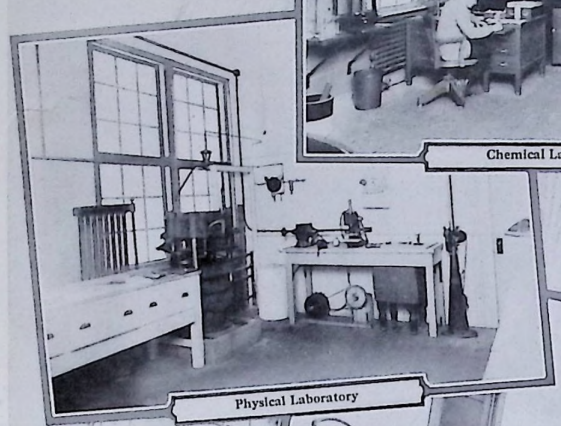
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U. S. Patent Office

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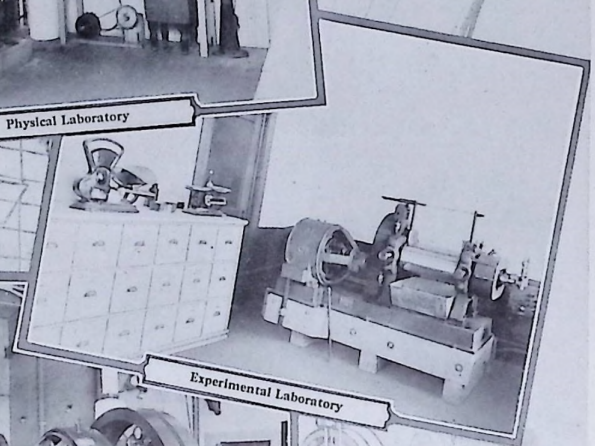
LABORATORIES AND POWER PLANT



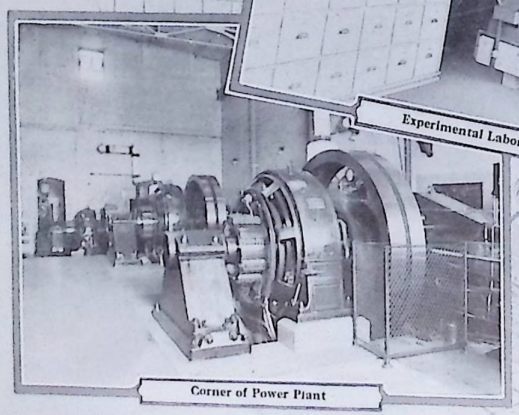
Chemical Laboratory



Physical Laboratory



Experimental Laboratory



Corner of Power Plant

Photographs taken in The Garlock Packing Co's Plant

Quality Controlled Packings

THAT the trade in general may become familiar with the term "Quality Controlled Packings," we are giving below a short writeup of its full meaning.

Quality Controlled Packings are those manufactured in their entirety from the crude to the finished commodity, in one plant under one supervision and inspection and to definite specifications, thus insuring a commodity invariable in quality and of dependable service structure.

The majority of mechanical packings on the market today are known as "Assembled Packings"; in other words, the assembler or marketer manufactures one or more of the component parts and purchases the balance on the open market. These are assembled or finished into a product which is sold under the assembler's brand name. Such packings are not Quality Controlled because the production of the various parts or units does not come under the direct supervision or inspection of the assembler.

All GARLOCK packings are Quality Controlled and are manufactured in our own factories "from the crude to your satisfaction." All raw materials are tested in our laboratories and have to meet GARLOCK Standards before acceptance. The building of GARLOCK products is the work of trained craftsmen. Each article is thoroughly inspected before shipment.

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The Application and Care of Garlock Packing

The most important factors in obtaining successful results from packing are the quality and construction of the product, and the selection of the proper packing and its correct application by the user.

The Garlock Packing Company consistently makes every effort to place in the hands of its clients packings that are standard in every way. Through the Company's "Quality Controlled" method of manufacture and rigid system of inspection, the finished products are right in quality of material and excellence of workmanship, correct in measurements, and in general conformity with the Company's established standards.

Best results from Garlock packing can be obtained by following the recommendations of the Company's representatives in making the selection of packing to be used for any given work. It is the particular business of these men to know which article will give the user the most satisfactory results.

The actual application and care of the packing are responsibilities that devolve entirely upon the user. The few simple suggestions which are set forth below will save the user much annoyance and trouble if followed out carefully.

ROD PACKINGS

Rod packings should only be applied to a clean stuffing box; each ring should be tamped into place and seated as it is applied. When the stuffing box is full the gland should be tightened with a wrench to make sure that the packing is properly seated; then slacken off and retighten by hand and after it is tightened by hand as far as possible a quarter turn with the wrench will lock the gland. In the case of stud bolt glands, inspection should be made after packing to make sure the gland is not cocked.

Proper lubrication is essential. Rods should be swabbed with oil at frequent intervals.

Observance of the above practice will eliminate friction, prevent scored rods and insure long life for the packing.

ROD PACKINGS FOR AMMONIA

Packings applied to ammonia compressors contract during a "freeze back," making it necessary sometimes to tighten the gland to stop leakage. The returning heat after the "freeze back" causes the packing to expand, and unless the gland is slackened off to compensate for the expansion, the packing will be ruined. Practically every failure of packing on ammonia compressors is caused by non-observance of this precaution.

ROD PACKINGS FOR HOT WATER

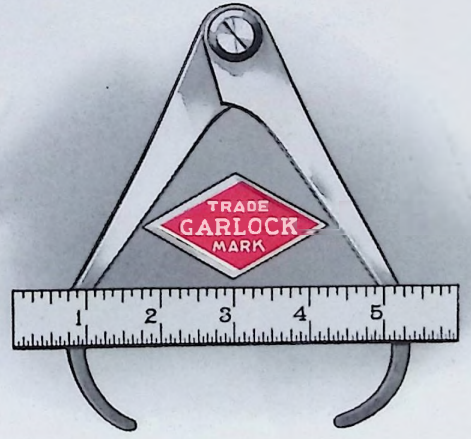
Packings applied to hot water pumps frequently give trouble because of the expansion of stock. Packing in this service should be watched carefully for a few days after application and the gland slackened off from time to time as may appear necessary to compensate for expansion and swelling in the packing.

GASKETS

In applying gaskets, care should be taken to have absolutely clean flanges. Each gasket should be cut and centered so that no portion of the gasket projects beyond the flange into the liquid or gas which the gasket is to pack.

The most important rule, however, is to make sure that the flanges are pulled up evenly and tightened all around. More gaskets fail because they are drawn up unevenly than for any other cause.

In the event of apparent failure of any packing at any time, The Garlock Packing Company will gladly have one of its competent representatives investigate all of a user's plant conditions as applying to packings and make recommendations for future packing usage, based on the Company's long experience in the field.



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and
in foreign countries

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General Views



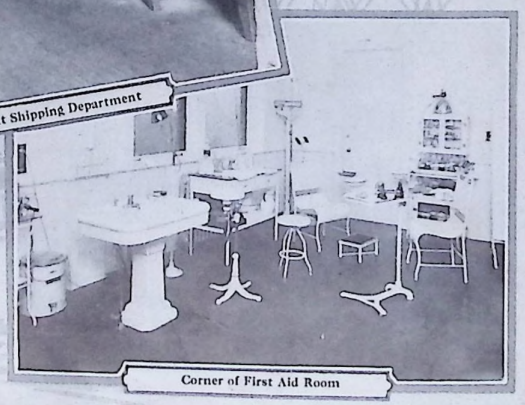
Partial View—West Side Factory Group



Shipping Department Parcel Post and Express



Freight Shipping Department



Corner of First Aid Room

Photographs taken in The Garlock Packing Co's Plant

METHOD OF PACKAGING



Ring Form

All Garlock ring packings are either enclosed in a pressboard tube or wrapped in oilproof paper which holds the rings in shape and protects them from dirt and dust which would be injurious to the rods.

They are placed in heavy cardboard boxes each bearing the Garlock label, trademark and type number as well as the name of the rod for which the packing is intended.

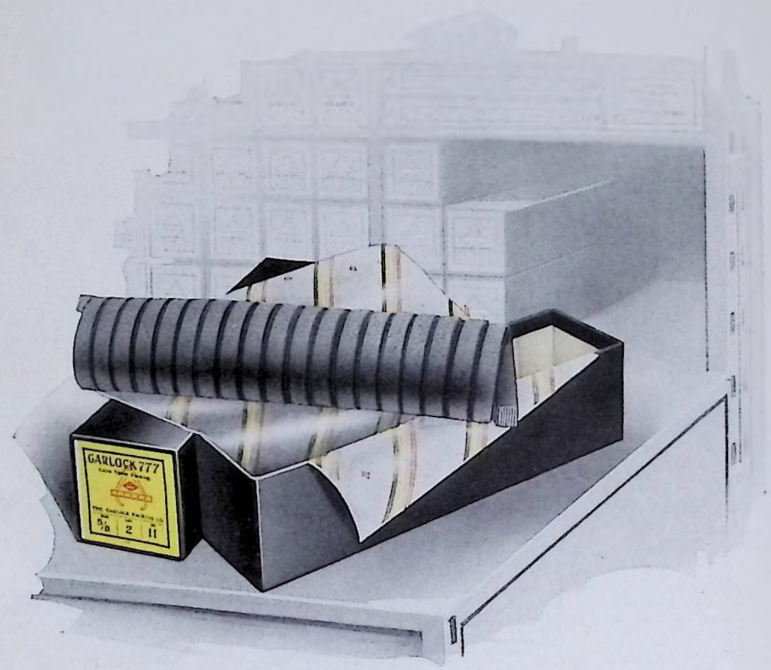
HOW TO ORDER

When ordering ring packing, specify the exact diameter of the rod and inside diameter of the stuffing box. If the order calls for a combination set, the depth of the stuffing box should also be furnished.

All Garlock packings are invoiced at net weights.
The customer does not pay for the weight of the packaging.

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METHOD OF PACKAGING



Spiral Form

Garlock packings are furnished in this form for the convenience of those who desire to cut their own rings. They conform to the sizes of the various rods and stuffing boxes, thus avoiding the necessity of bending or forming when the packing is applied.

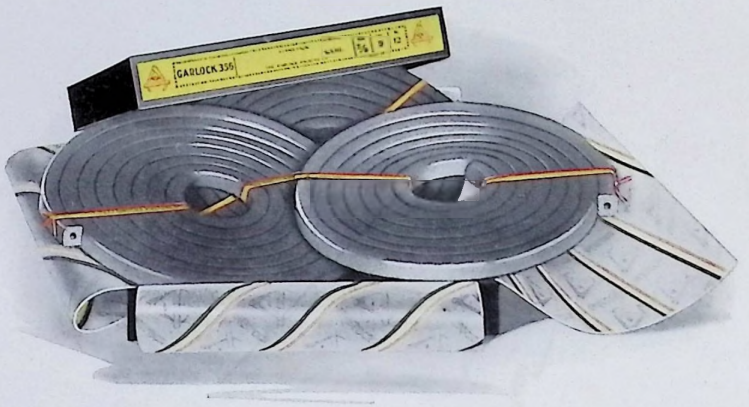
Garlock spiral packings are made in all sizes from ⅛ to 2 inches in sixteenths. They are put in special boxes to protect them from dust and grit. All boxes carry the Garlock label showing type number, size and weight.

HOW TO ORDER

When ordering specify the number of pounds or boxes desired; also the size of the packing required.

All Garlock *packings are invoiced at net weights.*
The customer does not pay for the weight of the packaging.

METHOD OF PACKAGING



Coil Form

Garlock coil packings are put up in this form for the convenience of the large consumers. The coils are packed in flat boxes lined with oilproof paper. All boxes carry the Garlock labels showing type number, size and weight.

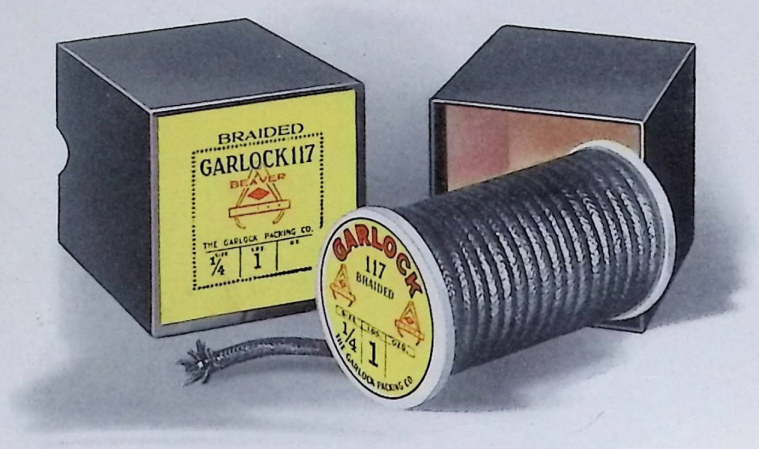
HOW TO ORDER

When ordering specify the number of pounds or boxes desired, also the size of packing required.

All Garlock *packings are invoiced at net weights.*
The customer does not pay for the weight of the packaging.

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METHOD OF PACKAGING



Spool Form

Certain types of Garlock packing, as designated in other parts of the catalog, are put up on spools for the convenience of the trade in general. These spools, as a rule, hold approximately 1, 2 or 5 pounds of the commodity.

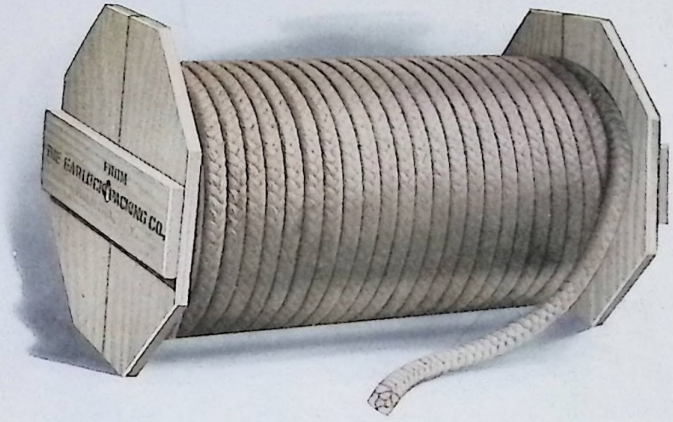
Each spool is packed in a cardboard box. The spool and the box carry the Garlock labels showing the type number, size and weight.

HOW TO ORDER

When ordering specify weight of spool required and size of packing desired.

All Garlock packings are invoiced at net weights.
The customer does not pay for the weight of the spool or packaging.

METHOD OF PACKAGING



Reel Form

For the convenience of large users of packing, we put up a number of different types in the reel form. This method has been found to be economical. The continuous lengths in which the packing is furnished tends to eliminate waste.

The weight and size of the packing are stenciled on the end of the reel.

HOW TO ORDER

When ordering, specify size of packing desired and whether 25, 50 or 100 pound reel is required.

All Garlock packings are invoiced at net weights.
The customer does not pay for the weight of the reel.

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METHOD OF PACKAGING



Sheet Form

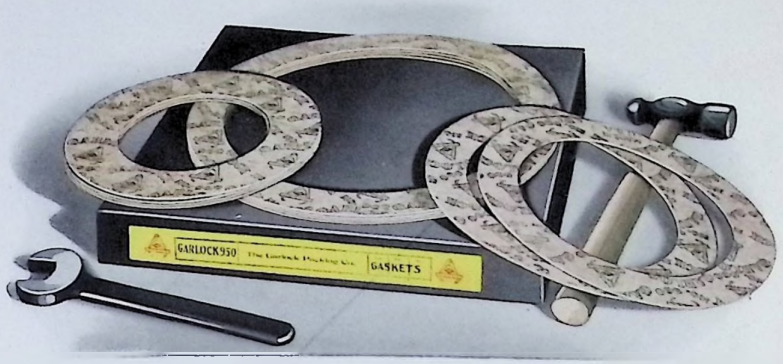
Sheet packings as a rule are either put up in roll lots or in sheets of specified dimensions in accordance with their flexibility. The width of the rolls and size of the sheets are given in the descriptions of the products in other parts of the catalog.

HOW TO ORDER

When ordering, specify the thickness and the quantity of the packing desired.

All GARLOCK *packings are invoiced at net weights.*
The customer does not pay for the weight of the packaging.

METHOD OF PACKAGING



Gasket Form

Our gaskets are cut from various types of sheet packing and are furnished to the sizes and shapes of the customer's requirements. As a rule they are taped together and packed in cardboard boxes. All boxes carry the GARLOCK labels showing the type number, size and weight.

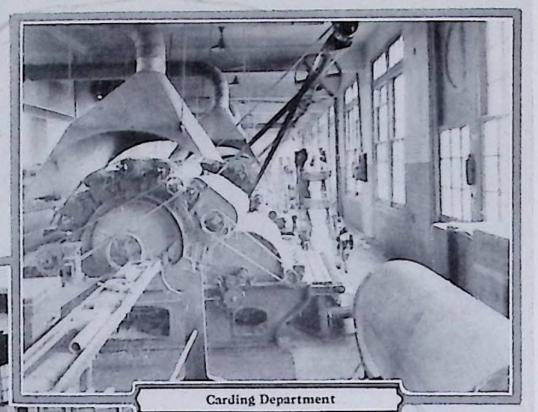
HOW TO ORDER

When ordering gaskets, be sure to specify the thickness desired, also whether the gaskets are round or oval and give inside dimensions and width of flange. If gaskets are odd or irregular in shape a sketch or template should be furnished showing shape and size, location of bolt holes, etc.

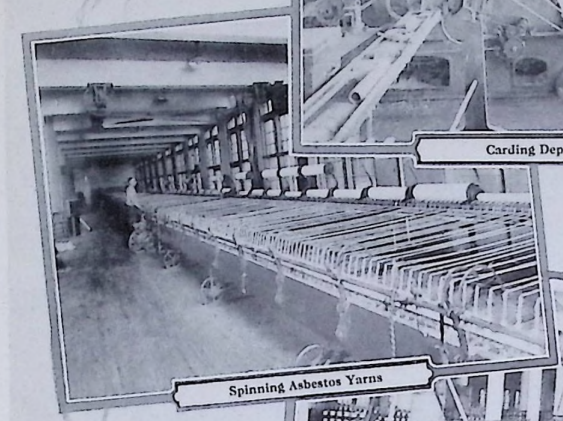
All GARLOCK *packings are invoiced at net weights.*
The customer does not pay for the weight of the packaging.

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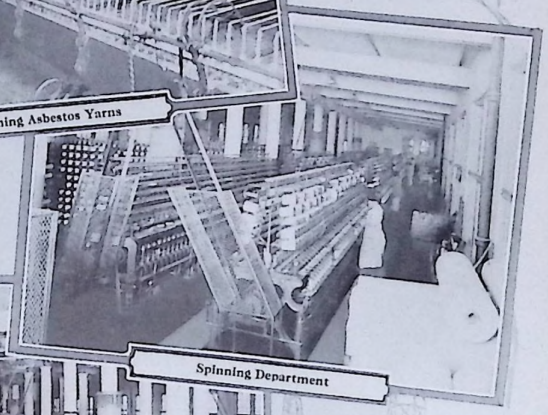
Asbestos Textile Department



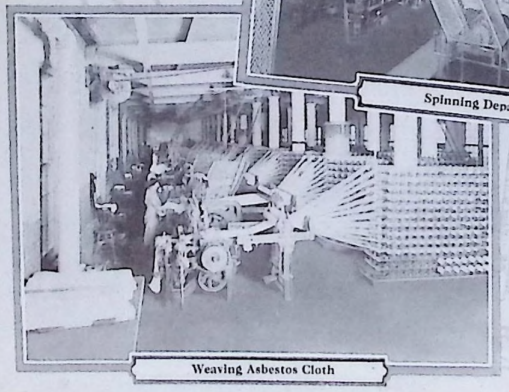
Carding Department



Spinning Asbestos Yarns



Spinning Department



Weaving Asbestos Cloth

Photographs taken in The Garlock Packing Co's Plant

ASBESTOS PACKING SERVICE



GARLOCK-200
High Pressure Ring Packing

Ring Form—Garlock-200
Spiral Form—Garlock-150
Coil Form—Garlock-125

Garlock-200 is the highest grade high pressure packing that can be produced. It is manufactured throughout from long fibre asbestos and other high grade materials. The fibrous core and cover are formed from specially woven asbestos cloth, treated with a heat resisting rubber friction and combined with a resilient rubber back or cushion. The packing is then treated with a high pressure and high temperature resisting lubricant which is compounded for this service in accordance with our specifications.

Garlock-200 is recommended for use on piston rods working against all steam pressures up to 300 pounds per square inch. Excellent results are obtained when it is used as a packing on expansion joints and it will give economical service on rods running in oil, grease or acids.

Garlock-150 *Spiral Form is described on page 26.*
Garlock-125 *Coil Form is described on page 27.*

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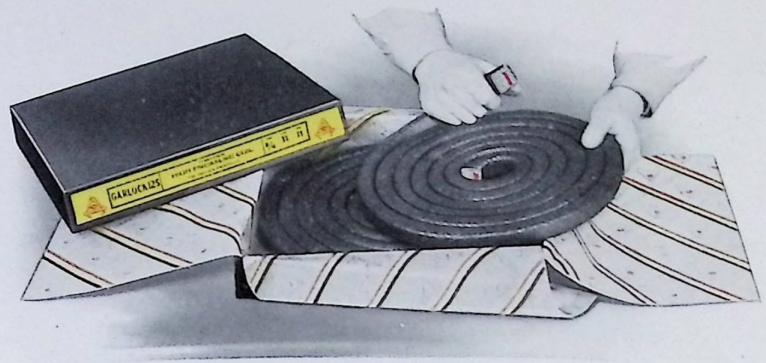
GARLOCK-150
High Pressure Spiral Packing

Spiral Form—Garlock-150
Ring Form—Garlock-200
Coil Form—Garlock-125

Garlock-150 is the same packing described on page 25 under Garlock-200 High Pressure Ring Packing. The type number Garlock-150 designates that the packing is in Spiral Form.

Garlock-150 High Pressure Spiral Packing is recommended for the type of service specified for Garlock-200 High Pressure Ring Packing.

Garlock-200 *Ring Form is described on page 25.*
Garlock-125 *Coil Form is described on page 27.*



GARLOCK-125
High Pressure Coil Packing

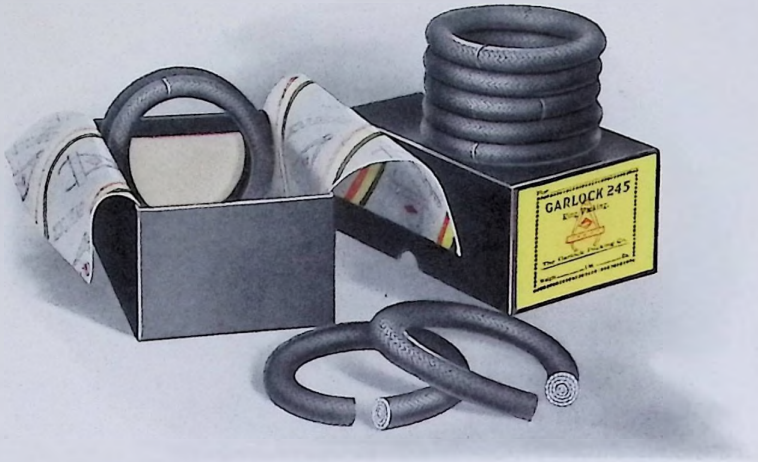
Coil Form—Garlock-125
Spiral Form—Garlock-150
Ring Form—Garlock-200

Garlock-125 is the same packing as Garlock-150 High Pressure Spiral Packing described on page 26. The type number Garlock-125 indicates the packing is in Coil Form.

Garlock-125 High Pressure Coil Packing is recommended for the type of service specified for Garlock-150.

Garlock-200 *Ring Form is described on page 25.*
Garlock-150 *Spiral Form is described on page 26.*

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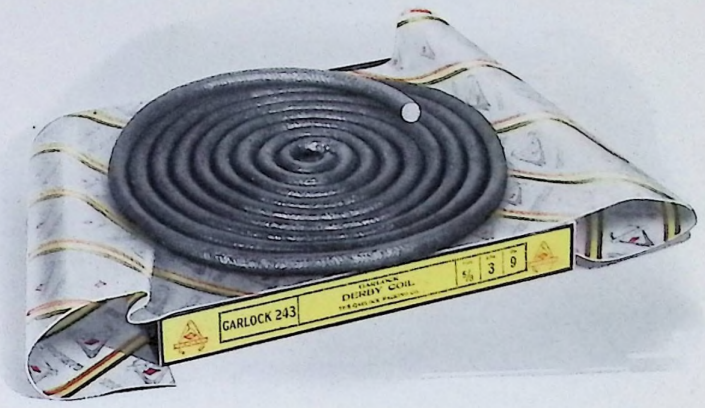
GARLOCK-245
Round Derby Ring Packing

Ring Form—Garlock-245
Coil Form—Garlock-243

Garlock-245 is manufactured from Canadian long fibre asbestos yarn by the braid over braid method. Our special process forces the lubrication into every strand making a very soft and pliable commodity.

Round Derby Ring Packing will give excellent service when used on steam piston rods of all descriptions. Satisfactory results are obtained when it is used as packing on piston rods of pumps handling acids, gas, lye or caustic soda.

Garlock-243 *Coil Form is described on page 29.*



GARLOCK-243
Round Derby Coil Packing

Coil Form—Garlock-243
Ring Form—Garlock-245

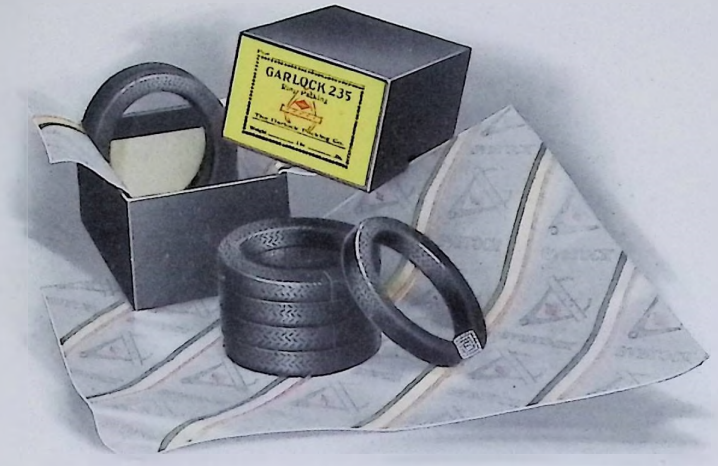
Garlock-243 is the same packing described on page 28 under Garlock-245 Round Derby Ring Packing. The type number Garlock-243 designates that the packing is in Coil Form.

Round Derby Coil Packing is recommended for the type of service specified for Garlock-245 Round Derby Ring Packing.

Garlock-245 *Ring Form is described on page 28.*

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ASBESTOS PACKING SERVICE



GARLOCK-235
Square Derby Ring Packing

Ring Form—Garlock-235
Coil Form—Garlock-233

The same process of manufacture which is employed in the production of GARLOCK-245 Round Derby Ring Packing which is described on page 28, is used in making GARLOCK-235 except that the material is formed square.

GARLOCK-235 is recommended for use on steam piston rods of all description, also piston rods of pumps handling acids, gas, lye and caustic soda.

GARLOCK-233 *Coil Form is described on page 31.*

ASBESTOS PACKING SERVICE



GARLOCK-233
Square Derby Coil Packing

Coil Form—Garlock-233
Ring Form—Garlock-235

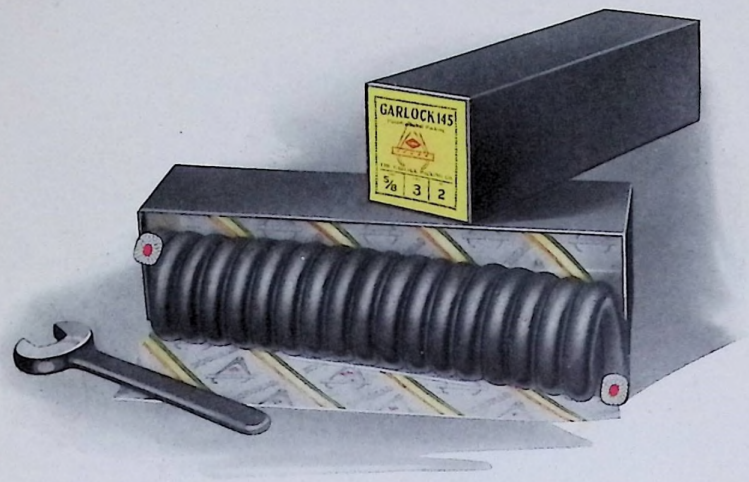
GARLOCK-233 is the same packing as GARLOCK-235 Square Derby Ring Packing described on page 30. The type number GARLOCK-233 indicates the packing is in Coil Form.

GARLOCK-233 Square Derby Coil Packing is recommended for the type of service specified for GARLOCK-235.

GARLOCK-235 *Ring Form is described on page 30*

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ASBESTOS PACKING SERVICE



GARLOCK-145
Palmyra Spiral Packing

Spiral Form—Garlock-145
Ring Form—Garlock-146
Coil Form—Garlock-144

Garlock-145 is manufactured from a high grade frictioned asbestos cloth formed around a center core of a heat resisting resilient red rubber. The packing is then treated with a lubricating compound so that it is flexible and durable and will withstand high temperatures and pressures.

It is designed for service against saturated steam pressures up to 300 pounds per square inch. It is also effective in stuffing boxes where condensation is present in large quantities.

Garlock-146 *Ring Form is described on page 33.*
Garlock-144 *Coil Form is described on page 34.*

ASBESTOS PACKING SERVICE



GARLOCK-146
Palmyra Ring Packing

Ring Form—Garlock-146
Coil Form—Garlock-144
Spiral Form—Garlock-145

Garlock-146 is the same packing described on page 32 under Garlock-145 Palmyra Spiral Packing. The type number Garlock-146 designates that the packing is in Ring Form.

Palmyra Ring Packing is recommended for the type of service specified for Garlock-145 Palmyra Spiral Packing.

Garlock-144 *Coil Form is described on page 34.*
Garlock-145 *Spiral Form is described on page 32.*

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ASBESTOS PACKING SERVICE



GARLOCK-144
Palmyra Coil Packing

Coil Form—Garlock-144
Ring Form—Garlock-146
Spiral Form—Garlock-145

Garlock-144 is the same packing described on page 32 under Garlock-145 Palmyra Spiral Packing. The type number Garlock-144 designates the packing is in Coil Form.

Palmyra Coil Packing is recommended for the type of service specified for Garlock-145 Palmyra Spiral Packing.

Garlock-146 *Ring Form is described on page* 33.
Garlock-145 *Spiral Form is described on page* 32.

ASBESTOS PACKING SERVICE



GARLOCK-234
Rotopac Rotary Pump Packing

Coil Form—Garlock-234
Ring Form—Garlock-239

Rotopac Packing is manufactured from long fibre asbestos, braided square by the same method used in producing flax packing. It is processed with a special lubricating compound so that every strand is thoroughly impregnated. The packing is then given a graphite treatment.

This product was developed to fill the demands for a high grade centrifugal or rotary pump packing. Service tests of long duration have proved that it is the best all around and most economical packing for the purpose. It will not cut the sleeve or shaft of the pump and is equally effective against hot or cold water, oil and most acids.

GARLOCK-244
Wire Inserted Rotopac Coil Packing

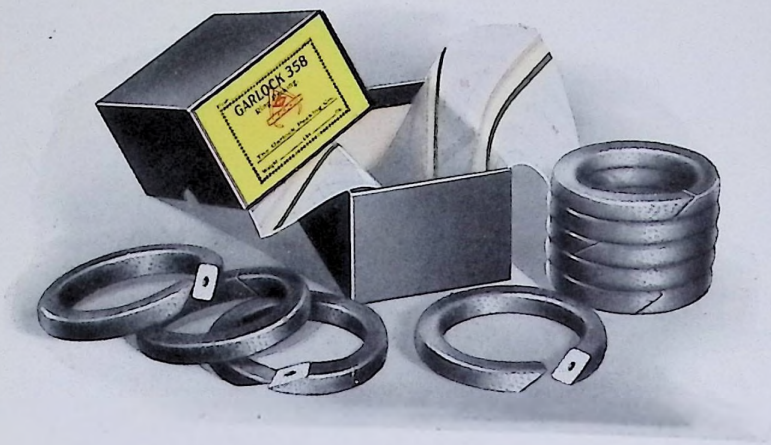
Coil Form—Garlock-244
Ring Form—Garlock-249

The construction of Garlock-244 is the same as described above for Garlock-234, except that a fine brass wire insertion is placed in each strand of the asbestos yarn.

For certain classes of service, this added strength is considered necessary.

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ASBESTOS PACKING SERVICE



GARLOCK-358

"O" Center Forge Ring Packing

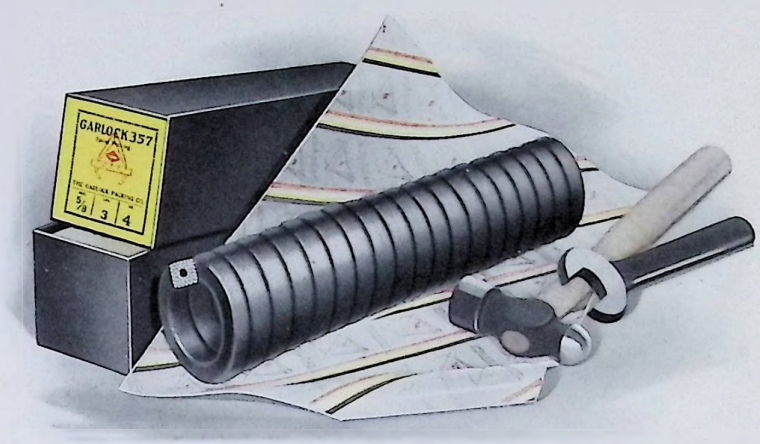
Ring Form—Garlock-358
Spiral Form—Garlock-357
Coil Form—Garlock-356

GARLOCK-358 is constructed of asbestos cloth frictioned with a tenacious rubber compound and formed with a hollow center. The packing is treated with a lubricant so that it will withstand the high steam pressures under which it has to work. The hollow center construction of the product enables it to compensate for any swell in the material and eliminates any tendency to bind on the rod.

"O" Center Forge Ring Packing will give excellent service where a resilient packing is required, as on the rods of steam hammers or other mechanical equipment where extreme vibration or lateral motion is encountered.

GARLOCK-357 *Spiral Form is described on page 37.*
GARLOCK-356 *Coil Form is described on page 38.*

ASBESTOS PACKING SERVICE



GARLOCK-357

"O" Center Forge Spiral Packing

Spiral Form—Garlock-357
Ring Form—Garlock-358
Coil Form—Garlock-356

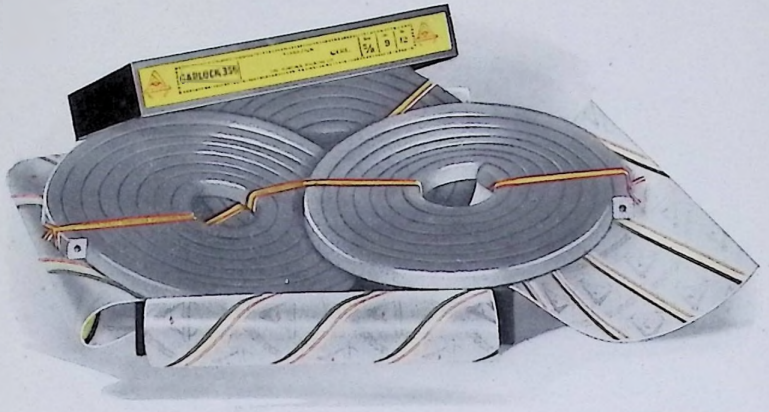
GARLOCK-357 is the same packing as GARLOCK-358 "O" Center Forge Ring Packing described on page 36.

GARLOCK-357 "O" Center Forge Spiral Packing is recommended for the type of service specified for GARLOCK-358 "O" Center Forge Ring Packing.

GARLOCK-358 *Ring Form is described on page 36.*
GARLOCK-356 *Coil Form is described on page 38.*

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ASBESTOS PACKING SERVICE



GARLOCK-356
"O" Center Forge Coil Packing

Coil Form—Garlock-356
Ring Form—Garlock-358
Spiral Form—Garlock-357

Garlock-356 is the same packing described on page 36 under Garlock-358 "O" Center Forge Ring Packing. The type number Garlock-356 designates that the packing is in Coil Form.

"O" Center Forge Coil Packing is recommended for the type of service specified for Garlock-358 "O" Center Forge Ring Packing.

Garlock-358 *Ring Form is described on page 36.*
Garlock-357 *Spiral Form is described on page 37.*

ASBESTOS PACKING SERVICE

GARLOCK-114
Wire Wound Coil Packing

Coil Form—Garlock-114
Ring Form—Garlock-116

Garlock-114 is a high grade asbestos packing with non-vulcanizing rubber core and a cover of braided copper wire.

It is used extensively in marine service on deck engines and is recommended for all engines exposed to the weather.

GARLOCK-222
Compressor Ring Packing

Ring Form—Garlock-222
Spiral Form—Garlock-221
Coil Form—Garlock-220

Garlock-222 is an asbestos packing especially constructed and lubricated for the severe service of air and gas compressor work.

GARLOCK-248
Mill Coil Packing

Coil Form—Garlock-248
Ring Form—Garlock-251

Garlock-248 is a braided asbestos packing with a brass wire insertion in each strand of the asbestos yarn.

It is especially adapted for steam and oil conditions carrying high temperatures and for the piston rods of gas engines.

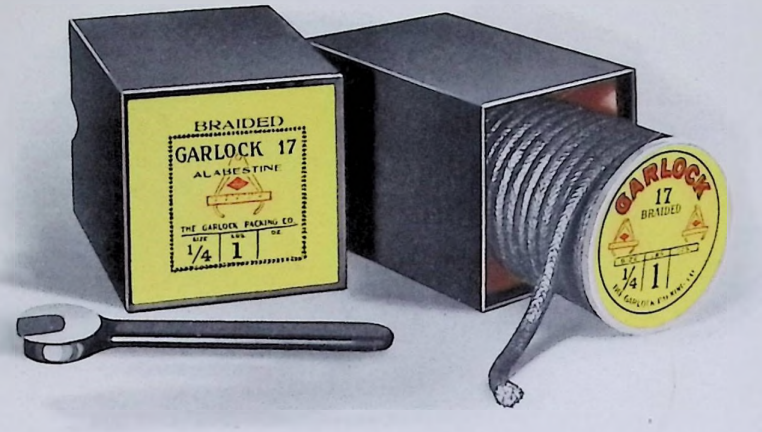
GARLOCK-247
Mill Wire Covered Coil Packing

Coil Form—Garlock-247
Ring Form—Garlock-250

The construction of this material is the same as described above for Garlock-248 except that a wire cover is applied.

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ASBESTOS PACKING SERVICE



GARLOCK-17

Alabestine Packing

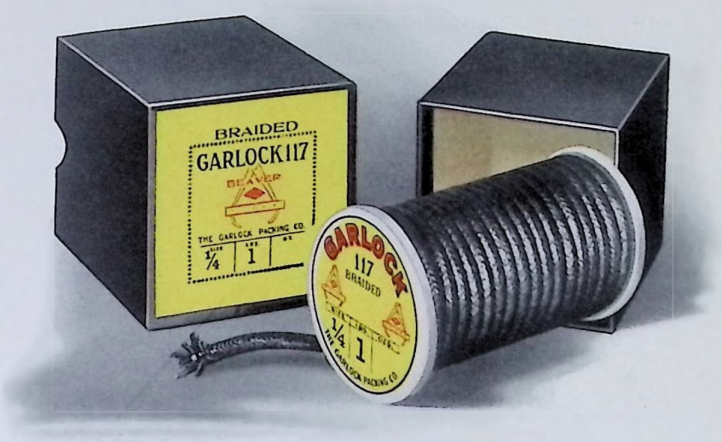
Spool Form—Garlock-17

Alabestine Packing is braided of Canadian long fibre asbestos yarn. It is treated or sized with a heat resisting compound and a surface lubrication of graphite.

It is recommended for use on small angle and globe valves or any mechanical equipment where the stuffing boxes are small and difficult to keep steam tight. It will work satisfactorily against almost any pressure and will give long service. It is made in round form and in sizes from 3/16 to 1/2" varying by sixteenths.

It is furnished on spools containing approximate net weights of 1, 2, or 5 pounds.

ASBESTOS PACKING SERVICE



GARLOCK-117

Beaver Packing

Spool Form—Garlock-117

Garlock-117 is braided or twisted from long fibre asbestos yarn, thoroughly lubricated with a heat resisting compound.

Beaver Packing recommended for use on stems of globe and angle valves handling high pressure steam, hot and cold oil.

It is furnished on spools containing approximate net weights of 1, 2 or 5 pounds.

Be sure to specify whether braided or twisted is desired

GARLOCK-115

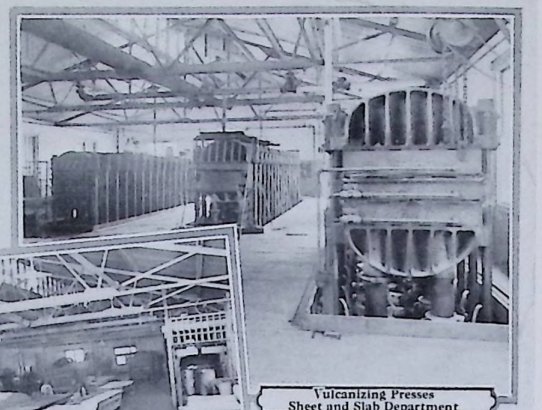
Beaver Packing

Spool Form—Garlock-115

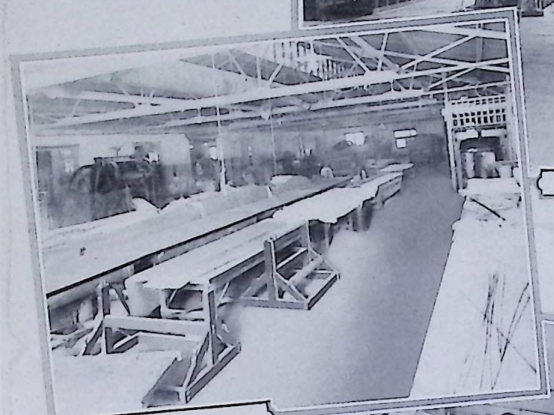
Garlock-115 is the same packing as Garlock-117 except that it is formed square and can be furnished only in the braided construction.

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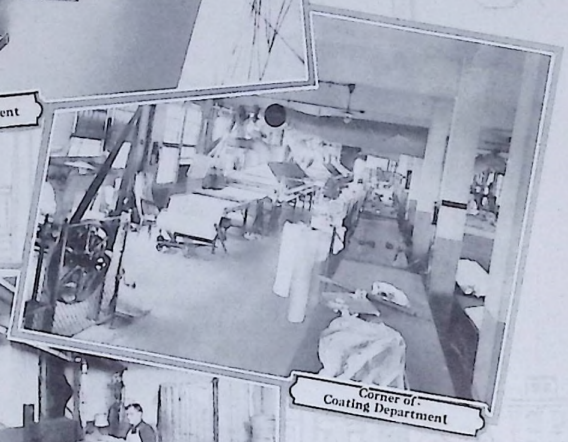
General Views of Factory



Vulcanizing Presses
Sheet and Slab Department



Slab Building Department



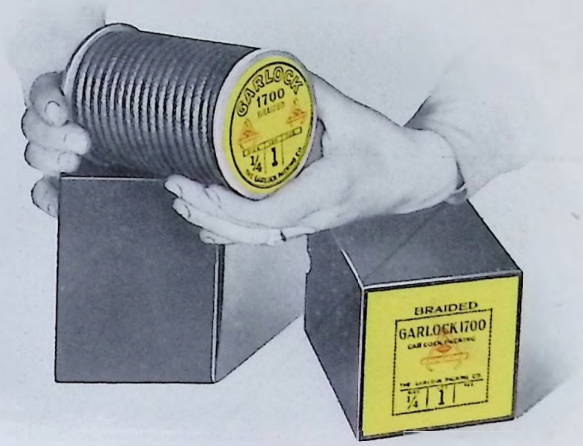
Corner of
Coating Department



Flax Lubricating Department

Photographs taken in The Garlock Packing Co's Plant

RAILROAD PACKING SERVICE



GARLOCK-1700
Locomotive Cab Cock Packing

Spool Form—Garlock-1700

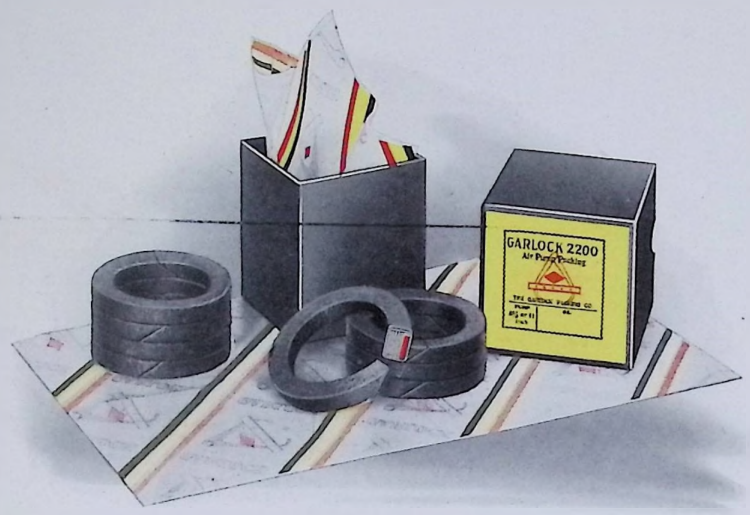
Garlock-1700 is braided from Canadian long fibre asbestos yarn which is specially treated with heat resisting compounds to withstand the highest temperatures.

It will give long and economical service on locomotive cab cocks and valve stems handling high temperatures and superheated steam, oils, etc. It is also recommended for use on stems of valves operating on acid lines.

It is furnished only in braided form, on spools weighing approximately 1, 2, and 5 pounds.

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RAILROAD PACKING SERVICE



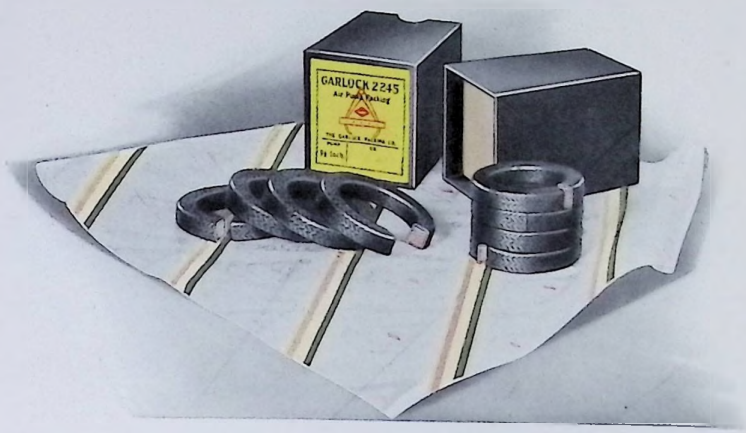
GARLOCK-2200
Locomotive Air Pump Packing

Ring Form—Garlock-2200

Garlock-2200 is composed of High Pressure Asbestos Rings put up in sets. The sets are designed for packing the stuffing boxes of both the air and steam ends of either a Westinghouse or New York Locomotive Air Pump.

Garlock-2200 is recommended for Westinghouse Equipment. It also will give excellent service on New York Air Pumps. In ordering for Westinghouse Equipment, give the size of the pump, and for New York Equipment, give the number of the pump.

RAILROAD PACKING SERVICE



GARLOCK-2245
Locomotive Air Pump Packing

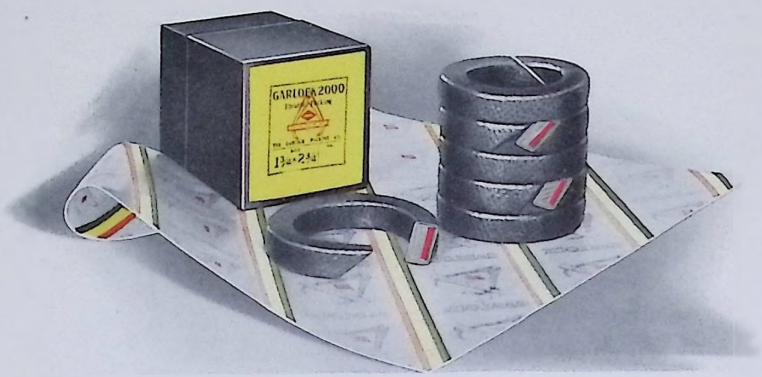
Ring Form—Garlock-2245

Garlock-2245 is manufactured by the braid over braid method. The inner braids are made up of a fine brass wire center asbestos yarn, while the outer braid is woven from pure asbestos yarn. The packing is then treated by a special process with a lubricating compound and graphited, giving a product that is flexible and durable. It will withstand high temperatures and works equally well on the air and steam ends.

Garlock-2245 was designed primarily for use on New York Air Pumps. It will also give excellent service on Westinghouse Equipment. In ordering for New York Air Pumps, give the number of the pump, and for Westinghouse Equipment, give the size of the pump.

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RAILROAD PACKING SERVICE



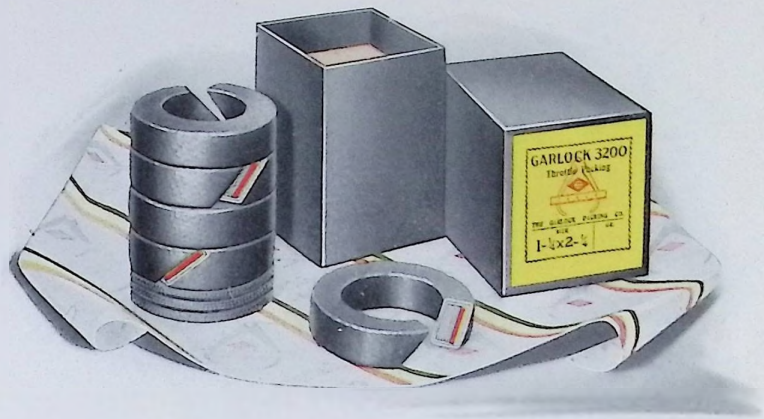
GARLOCK-2000
Locomotive Throttle Packing

Ring Form—Garlock-2000

GARLOCK-2000 is composed of rings of GARLOCK-200 High Pressure Asbestos packing, packaged in sets. The rings are formed to specified dimensions so that the set of GARLOCK-2000 will exactly fill the stuffing boxes of throttles on locomotives.

This particular type of packing has given excellent results on most of the large railroad systems. It is especially recommended for use on locomotive throttles that are located above the water line.

RAILROAD PACKING SERVICE



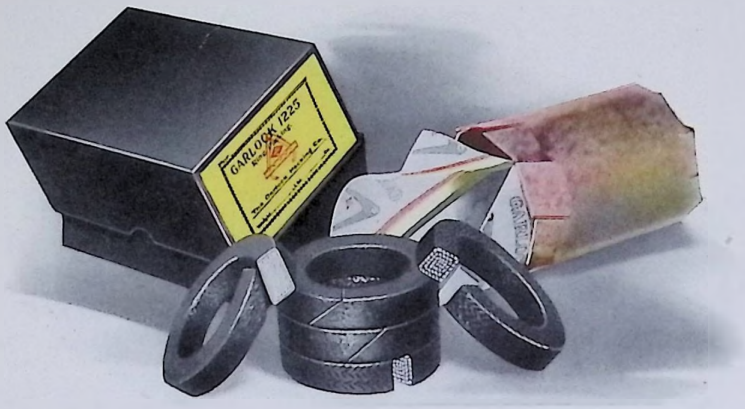
GARLOCK-3200
Locomotive Throttle Duo Packing

Ring Form—Garlock-3200

GARLOCK-3200 packing is a combination of GARLOCK-200 High Pressure Asbestos Ring Packing with a semi-metallic ring at the bottom of the set. This ring is composed of alternate layers of duck and rubber and soft metal. Each set contains enough packing to exactly fit the locomotive throttle valve stuffing box.

GARLOCK-3200 is especially designed for use on throttles whose locations are below the water line, but will give complete satisfaction in any throttle service.

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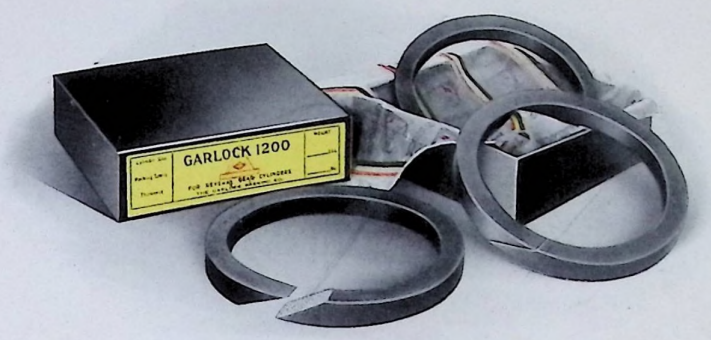
GARLOCK-1225

Power Reverse Gear Packing

Ring Form—Garlock-1225

Garlock-1225 is a combination packing made up of Garlock-222 Asbestos Compressor Ring Packing and Garlock-235 Asbestos Square Derby Packing, put up in sets. The rings are treated with special lubricating compounds so as to withstand high temperatures and pressures.

This packing has been especially designed for use on the piston rods of locomotive power reverse gears.



GARLOCK-1200

Power Reverse Gear Packing

Ring Form—Garlock-1200

Garlock-1200 is a braided asbestos ring packing molded into form and lubricated with a heat resisting compound. This packing will not burn out if for any reason it is necessary to operate the reverse gear with steam pressure.

Garlock-1200 is furnished in sets for pistons of locomotive power reverse gears.

GARLOCK-812

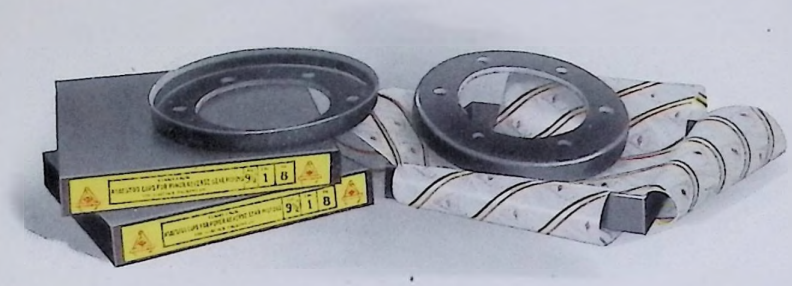
Power Reverse Gear Packing

Ring Form—Garlock-812

Garlock-812 is a duck and rubber packing having great expansive qualities as well as the necessary resiliency to keep it in close contact with the cylinder walls.

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RAILROAD PACKING SERVICE



GARLOCK ASBESTOS CUPS

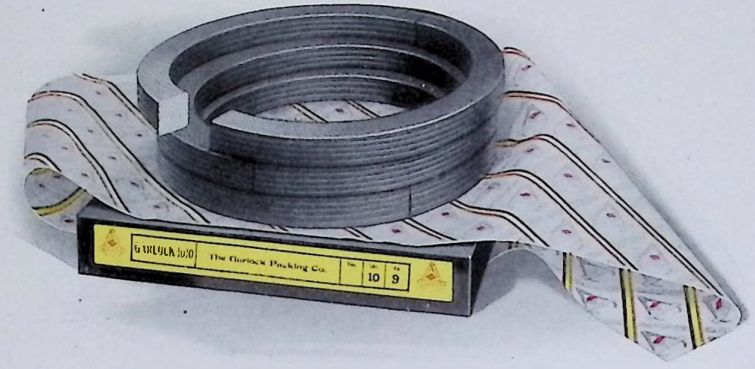
Garlock Asbestos Cups for the pistons of reverse gears are made from asbestos cloth molded to the desired shape and size. They are of the proper density to seat perfectly in a few strokes, and they will give exceptionally long service on any type of reverse gear.

In ordering, specify the size of the cylinder and the make of the reverse gear. We have the records and molds for furnishing these cups for all reverse gears including Ragonnett, Precision, Alco and Lewis.

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RAILROAD PACKING SERVICE



GARLOCK-1010

Locomotive Ball Joint Packing

Ring Form—Garlock-1010
Coil Form—Garlock-1020

Garlock-1010 is a special asbestos packing developed for use on mallet type locomotives utilizing the newer construction ball joints shown in the cut.

This packing is furnished in sets to fit the ball joints as shown by customers' drawings and is the only kind of packing that will give prolonged service on this type of joint. Garlock-1010 is giving phenomenal service on many railroads where this type of joint is utilized.

Garlock-1010 is also molded to size for use on the ball joints of locomotive booster engines.

Garlock-1020, coil form, is not suited for ball joint service, as the rings must be molded to size and shape in the factory. It is used, however, for piston rings in steam hammers and other general services.

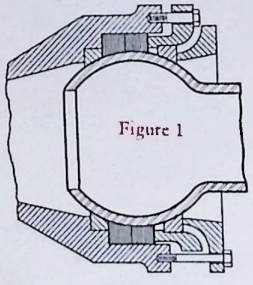


Figure 1

Garlock-1010 applied to Ball Joint on Locomotive Booster Engine.

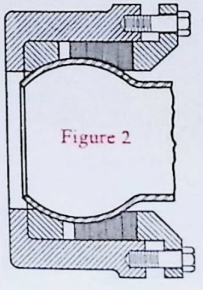


Figure 2

Garlock-1010 applied to New Type Ball Joint of Mallet Locomotive.

RAILROAD PACKING SERVICE



GARLOCK-1005

Locomotive Expansion Joint Packing

Ring Form—Garlock-1005
Coil Form—Garlock-1015

Garlock-1005 is a very hard wire inserted asbestos packing of square braided construction lubricated with a high heat resisting compound.

It was developed primarily for use in packing mallet type locomotive slip joints and the older type ball joints as illustrated in the cut. In addition to these services it is recommended for all slip type expansion joints and high temperature service against both steam and oils. When used on either locomotive or power plant slip joints, the length of service can be increased considerably by using one ring of Garlock-346 at the bottom of the stuffing box.

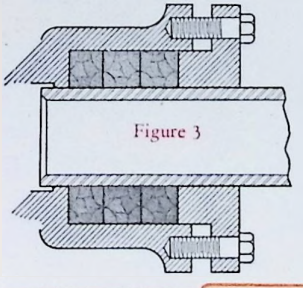


Figure 3

Garlock-1005 applied to Mallet Locomotive Expansion Joint.

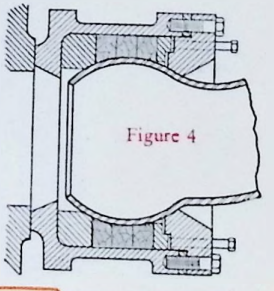
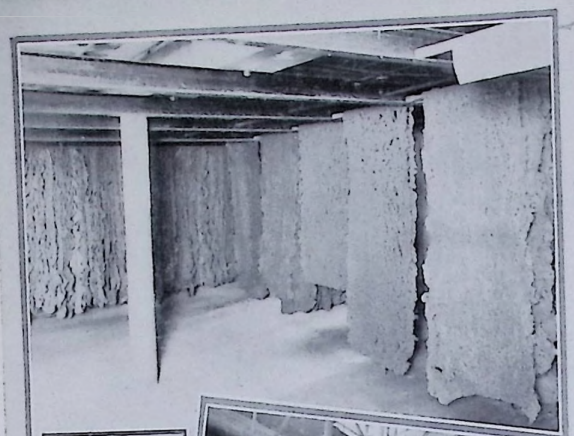


Figure 4

Garlock-1005 applied to Old Type Ball Joint Mallet Locomotive.

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Rubber Department



Rubber Drying Room



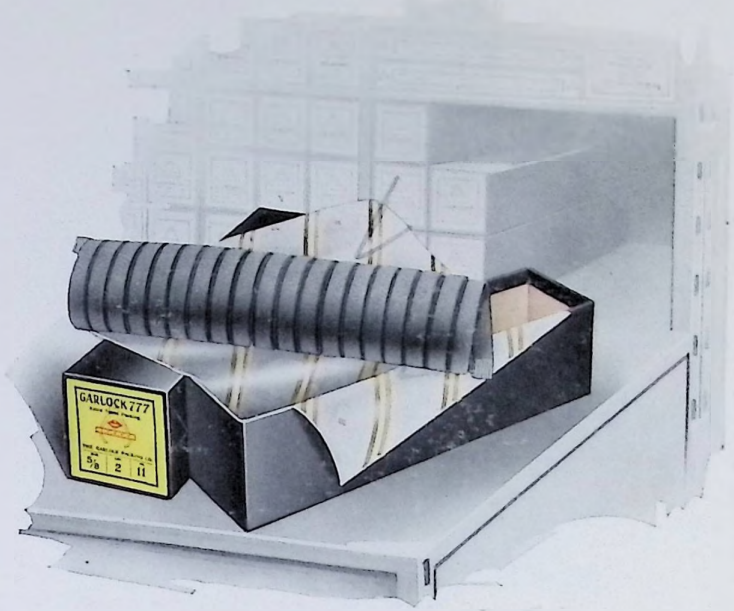
Mill and Calender Room



Vulcanizing Presses Valve Department

Photographs taken in The Garlock Packing Co's Plant

DUCK AND RUBBER PACKING SERVICE



GARLOCK-777

Extra Spiral Packing

Spiral Form—Garlock-777 for Steam
Spiral Form—Garlock-778 for Ammonia
Ring Form—Garlock-333 for Steam
Ring Form—Garlock-334 for Ammonia

Garlock-777 is manufactured of plies of close woven duck frictioned with a high grade rubber compound and a thick gauge rubber cover. It is treated with a special lubricant that prevents it from becoming hard.

Garlock Extra Spiral Packing gives complete satisfaction when working on the piston and valve rods of engines and pumps, against medium and low pressure steam up to 100 pounds per square inch. Garlock-778 is particularly adapted for use against ammonia.

Garlock-333 *Ring Form is described on page 56.*
Garlock-334 *Ring Form is described on page 56.*

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-333

Extra Ring Packing

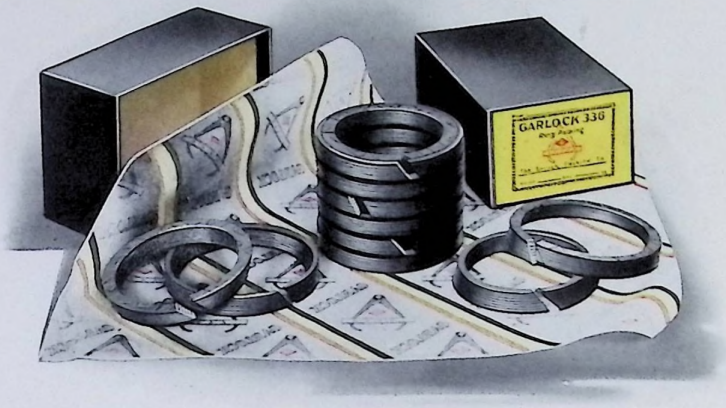
Ring Form—Garlock-333 for Steam
Ring Form—Garlock-334 for Ammonia
Spiral Form—Garlock-777 for Steam
Spiral Form—Garlock-778 for Ammonia

Garlock-333 is manufactured from the same materials and treated in the same way as Garlock-777 Extra spiral packing.

Garlock-333 is recommended for use on piston and valve rods of engines, and steam piston rods of pumps where the steam pressure is 100 pounds per square inch or less. Excellent results can also be obtained from its application on hot and cold water rods. It gives particularly good service when used in stuffing boxes where the packing space is relatively large as compared with the rod, making it impossible to form a spiral packing around the rod. Garlock-334 is specially treated for ammonia service. Rings either of Garlock-333 or Garlock-334 can be furnished cut out of center if desired.

Garlock-777 *Spiral Form is described on page 55.*
Garlock-778 *Spiral Form is described on page 55.*

DUCK AND RUBBER PACKING SERVICE



GARLOCK-336

Extra Sectional Ring Packing

Ring Form—Garlock-336 for Steam
Ring Form—Garlock-337 for Ammonia

Garlock-336 is manufactured from our Extra stock of high grade duck frictioned with a specially compounded rubber. All rings have a top and bottom cover of heavy gauge rubber. The design of the rings allows them to take up very readily the inequalities in a scored or worn rod. The advantage obtained from a sectionally cut ring is its expansion at the slightest pressure. These rings can be used with Garlock-333 rings or other forms of solid packings.

Garlock-336 is recommended for use on steam pressure up to 100 pounds per square inch, while Garlock-337 is particularly adapted for ammonia conditions. These packings will not be furnished for a packing space less than $\frac{3}{8}$".

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-339
Extra Odd Shape Ring Packing

Ring Form—Garlock-339

Garlock-339 rings are cut from the same high grade Extra stock which we use in the manufacture of Garlock-333 rings.

Garlock-339 rings can be furnished in any shape desired and will give excellent service on square, hexagonal, octagonal or flat sided rods. They are designed primarily for use on steam hammers having piston rods of other shape than round, but will work to advantage on any odd shaped rods.

GARLOCK-5
Regular Ring Packing

Regular Ring Packing—Garlock-5
Sectional Ring Form—Garlock-10
Spiral Form—Garlock-15

The design of Garlock-5 was originated a number of years ago and its use over a long period of time has given very favorable results. It is a duck and rubber packing intended for service against medium and low pressure steam.

DUCK AND RUBBER PACKING SERVICE



GARLOCK-550
Ring Packing

Ring Form—Garlock-550 for Steam
Ring Form—Garlock-556 for Ammonia

Garlock-550 is manufactured from high grade Extra stock duck frictioned with a specially compounded rubber. On account of its unique design the ring acts on the principle of the ball and socket joint. This feature makes it adapted for use on rods which are scored or out of line.

It is recommended for service in conjunction with various other types of our packing on the piston and valve rods of engines and steam piston rods of pumps up to 125 pounds pressure per square inch. It also gives excellent service on plungers of outside packed pumps and triplex pumps handling hot water. Garlock-556 is specially treated for service in ammonia conditions.

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DUCK AND RUBBER PACKING SERVICE

GARLOCK-216
Inner Wedge Ring Packing

Ring Form—Garlock-216

Garlock-216 is made up from high grade duck and rubber slab stock with a triangular soft metal wedge inserted in the wearing surface of the ring.

When this packing is used in combination with our other hydraulic packings, it proves very durable and efficient on hydraulic work of all kinds. It is primarily intended for use on outside packed plungers.

GARLOCK-217
Outer Wedge Ring Packing

Ring Form—Garlock-217

Garlock-217 is manufactured of the same material as Garlock-216 except the metal wedge is inserted on the outside of the ring.

Its service is also the same as Garlock-216, only it is designed for use on inside packed pistons.

GARLOCK-313
Metal Insertion Extra Ring Packing

Ring Form—Garlock-313 for Steam
Ring Form—Garlock-314 for Ammonia

This packing is constructed of plies of duck and rubber with a soft metal insertion. It is designed for use with our other packings for wet steam or ammonia.

GARLOCK-316
Metal Insertion Extra Sectional Ring Packing

Ring Form—Garlock-316 for Steam
Ring Form—Garlock-317 for Ammonia

This packing is made of the same material as Garlock-313 which is described above, only the ring is sectional cut.

DUCK AND RUBBER PACKING SERVICE

GARLOCK-285
Rubber Insertion Extra Ring Packing

Ring Form—Garlock-285

This product is made from a duck and rubber stock with one or more central cushions of resilient rubber.

When the above rings are used alternately with Garlock-286, they give excellent service on ammonia rods.

GARLOCK-286
Rubber Insertion Extra Sectional Ring Packing

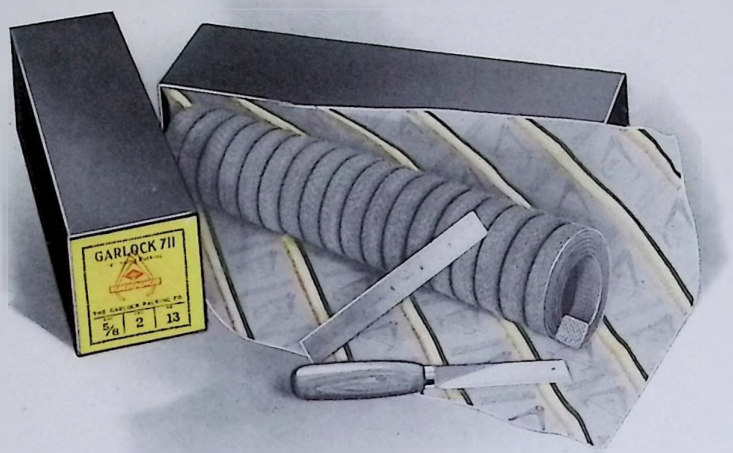
Ring Form—Garlock-286

Garlock-286 is the same material as described under Garlock-285 except the ring is sectionally cut.

When the above rings are used alternately with Garlock-285 they give excellent service on ammonia rods.

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-711
"Z" Spiral Packing

Spiral Form—Garlock-711
Ring Form—Garlock-712

GARLOCK-711 is manufactured of plies of first grade duck frictioned with a high grade rubber compound. Our method of laying up diagonally the plies of duck and rubber increases its expansive qualities at least three times over the type of packing in which the plies are horizontal. GARLOCK "Z" Spiral Packing is favored by customers who require a packing of an unusually expansive nature.

GARLOCK-711 renders unusual service when used against medium pressure steam, hot water, ammonia and where the rods or plungers are slightly out of line or subjected to a lateral motion.

GARLOCK-712 *Ring Form is described on page 63.*

DUCK AND RUBBER PACKING SERVICE



GARLOCK-712
"Z" Ring Packing

Ring Form—Garlock-712
Spiral Form—Garlock-711

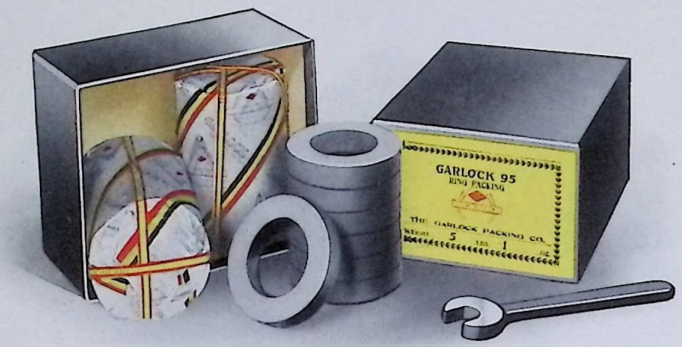
GARLOCK-712 is the same packing as GARLOCK-711 "Z" Spiral Packing described on page 62. The type number GARLOCK-712 designates that the packing is in Ring Form.

GARLOCK-712 "Z" Spiral Packing is recommended for the same type of service specified for GARLOCK-711.

GARLOCK-711 *Spiral Form is described on page 62.*

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-95

Square Rubber Ring Packing

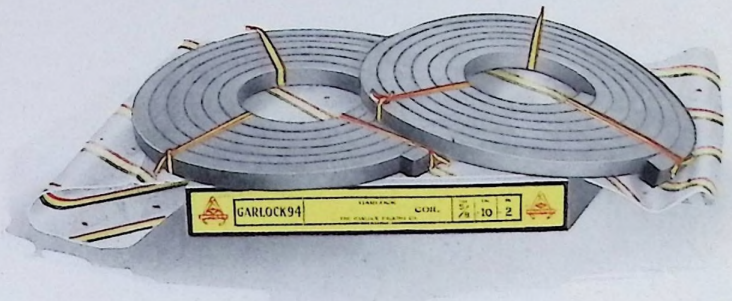
Ring Form—Garlock-95
Coil Form—Garlock-94

Garlock-95 is a medium soft rubber ring manufactured from new live rubber properly compounded to obtain a commodity which will give long service.

Garlock-95 makes an excellent wiper ring in a set of ammonia packing and can be utilized to advantage any place a rubber ring is required. It is also used extensively as a gasket on tongue and groove joints against ammonia.

Garlock-94 *Coil Form is described on page 65.*

DUCK AND RUBBER PACKING SERVICE



GARLOCK-94

Square Rubber Coil Packing

Coil Form—Garlock-94
Ring Form—Garlock-95

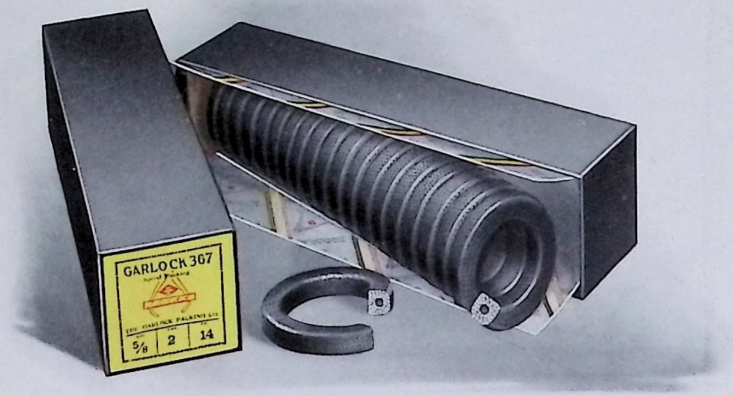
Garlock-94 is a high grade rubber strip produced from the same compound used in the manufacture of Garlock-95 square rubber ring packing.

It will give excellent service as a packing wherever a strip of medium soft square rubber is required. It is also used in the marine trade as a port hole rubber.

Garlock-95 *Ring Form is described on page 64.*

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-367

"O" Center Hydraulic Spiral Packing

Spiral Form—Garlock-367
Coil Form—Garlock-366
Ring Form—Garlock-368

GARLOCK-367 is made from a high grade special woven duck and frictioned with a strong tenacious rubber compound. The hollow center feature is particularly effective on services that have any tendency to cause packing to swell.

"O" Center Hydraulic Packing is recommended for use on round steam hammer pistons, elevator plungers, ammonia compressors and plungers of outside packed pumps, taking care of hot or cold water service. Alternating rings of "O" Center Hydraulic and our "Z" Packing as described on page 62 give splendid service on all conditions named above.

GARLOCK-366 *Coil Form is described on page 67.*

DUCK AND RUBBER PACKING SERVICE



GARLOCK-366

"O" Center Hydraulic Coil Packing

Coil Form—Garlock-366
Spiral Form—Garlock-367
Ring Form—Garlock-368

GARLOCK-366 is the same packing described on page 66 under GARLOCK-367 "O" Center Hydraulic Spiral Packing. The type number GARLOCK-366 designates that the packing is in Coil Form.

"O" Center Hydraulic Coil Packing is recommended for the same type of service specified for GARLOCK-367 "O" Center Hydraulic Spiral Packing.

GARLOCK-367 *Spiral Form is described on page 66.*

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-261

Special Hydraulic Ring Packing

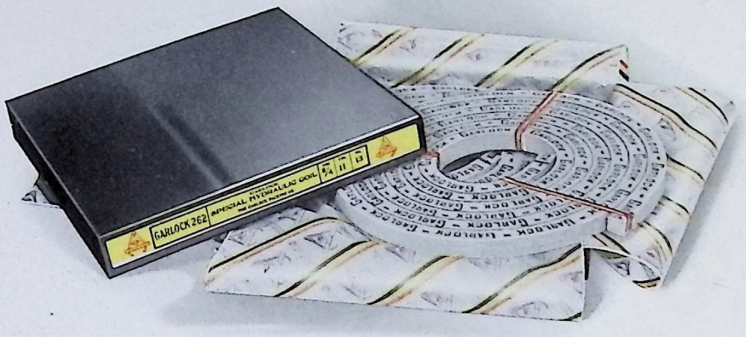
Ring Form (Cut)—Garlock-261
Ring Form (Solid)—Garlock-260
Coil Form—Garlock-262

Garlock-261 rings are made from special hydraulic stock. They are manufactured with step joints unless otherwise specified. This type of joint is recommended as it is more easily applied to the rod. If solid rings are desired, order Garlock-260.

Garlock Special Hydraulic rings are used in many cases as end rings in combinations of packing on the plungers of outside packed pumps handling hot or cold water, oil and also on elevator plungers. They may be applied in place of solid rings on the pistons of inside packed pumps conveying hot or cold water and hot or cold oils. They can be furnished either regular cure or rock hard.

Garlock-262 *Coil Form is described on page 69.*

DUCK AND RUBBER PACKING SERVICE



GARLOCK-262

Special Hydraulic Coil Packing

Coil Form—Garlock-262
Ring Form (Cut)—Garlock-261
Ring Form (Solid)—Garlock-260

Garlock-262 coil packing is manufactured from special hydraulic stock laid up with a high grade white friction.

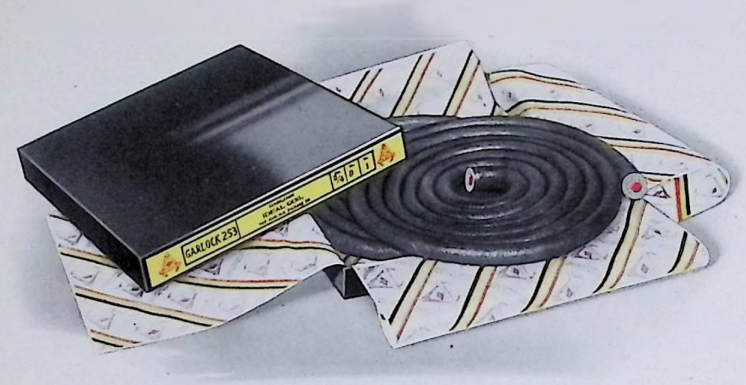
Garlock Special Hydraulic Packing will give excellent service when used for packing inside packed plungers handling either hot or cold water. It may also be used with perfect satisfaction working against boiling water and hot or cold oils.

It can be furnished either regular cure or rock hard.

Garlock-261 *Ring Form is described on page 68.*

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DUCK AND RUBBER PACKING SERVICE



GARLOCK-253
Ideal Coil Packing

Coil Form—Garlock-253
Ring Form—Garlock-255
Spiral Form—Garlock-254

Garlock-253 is a packing with a resilient non-vulcanizing rubber core wrapped with plies of frictioned duck. Its shape brings a round surface in contact with the piston rod forming a condensing chamber and making a tight joint.

It is unequaled for service on high speed engine piston and valve stem. It is also an excellent packing for use on oil or hot water pumps.

DUCK AND RUBBER PACKING SERVICE

GARLOCK-33
Regular Hydraulic Coil Packing

Coil Form—Garlock-33

Garlock-33 is a good grade of hydraulic packing manufactured especially for use on pistons of inside packed pumps handling hot or cold water.

GARLOCK-38
Black Friction Hydraulic Coil Packing

Coil Form—Garlock-38

Garlock-38 is made up of plies of good quality duck held together with a high grade black friction.

It is recommended for use against cold water on pistons of inside packed pumps.

GARLOCK-45
Special Cylinder Coil Packing

Coil Form—Garlock-45
Ring Form—Garlock-65

Garlock-45 is a high grade all rubber packing round in cross section designed for hydraulic service in conjunction with our other packings.

GARLOCK-54
Rubber Cushion Elevator Ring Packing

Ring Form—Garlock-54
Coil Form—Garlock-56

Garlock-54 is made up of plies of special canvas held together with a high grade friction and combined with a rubber back.

It is used extensively on hydraulic conditions of all kinds.

GARLOCK-273
Cushion Center Hydraulic Coil Packing

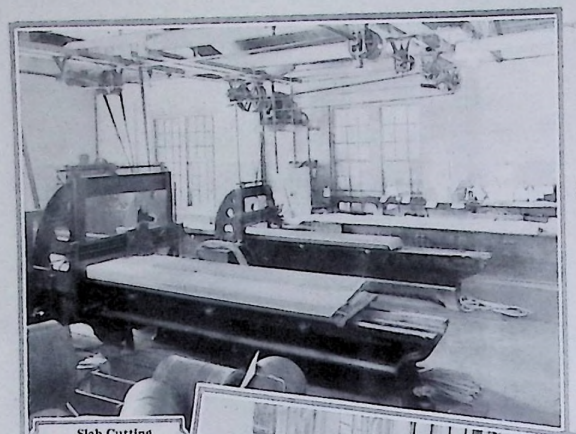
Coil Form—Garlock-273
Spiral Form—Garlock-274
Ring Form—Garlock-275

Garlock-273 is made with a central soft rubber cushion and outside plies of duck and rubber laid parallel with the rod. This construction insures great elasticity.

It is an excellent packing for plunger elevators or vertical hydraulic plungers having a lateral motion.

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Spiral Packing Department



Slab Cutting Department



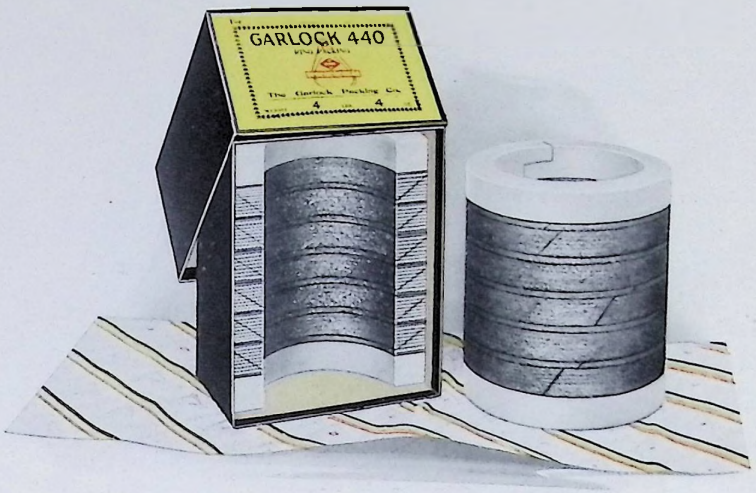
Spiral Department A



Spiral Department B

Photographs taken in The Garlock Packing Co's Plant

COMBINATION PACKING SERVICE



GARLOCK-440

Hot or Cold Water Duo Packing

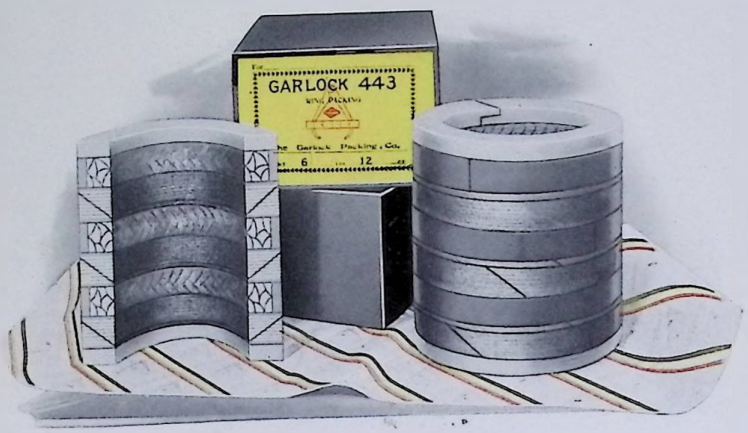
Garlock-440 is a combination packing with end rings of Garlock-261 special hydraulic stock and center rings of Garlock-550 diagonal cut duck and rubber steam packing.

From records of service, Garlock-440 is adaptable for use on outside packed plunger pumps and triplex pumps handling hot or cold water. Very good results have been obtained on worn or scored plungers on account of the construction of the Garlock-550 center rings.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

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COMBINATION PACKING SERVICE



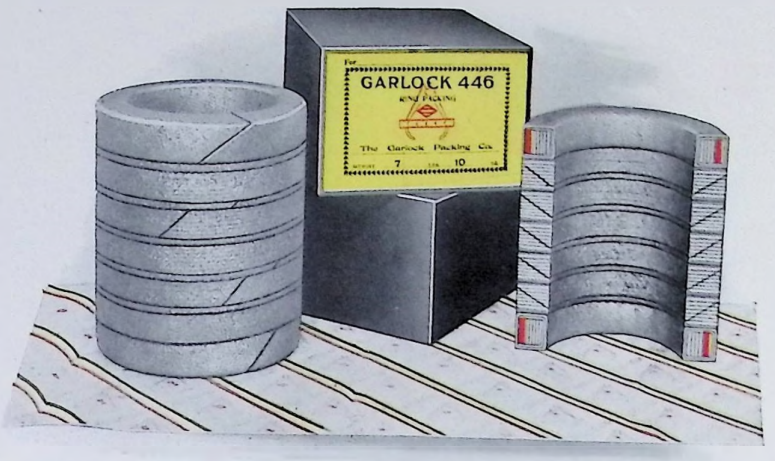
GARLOCK-443
Hot Water Duo Packing

Garlock-443 is a combination packing with end rings of Garlock-261 special hydraulic stock and alternating center rings of Garlock-193 rubber back waterproof hydraulic packing and Garlock-550 diagonal cut duck and rubber steam packing.

Garlock-443 is constructed for use on outside packed plunger pumps working under hot water conditions. The Garlock-193 rubber back flax rings compensate for the expansion of the packing generally encountered in hot water conditions. This hot water duo will not bind the plunger when used on boiler feed and other pumps handling hot water.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

COMBINATION PACKING SERVICE



GARLOCK-446
Steam Duo Packing

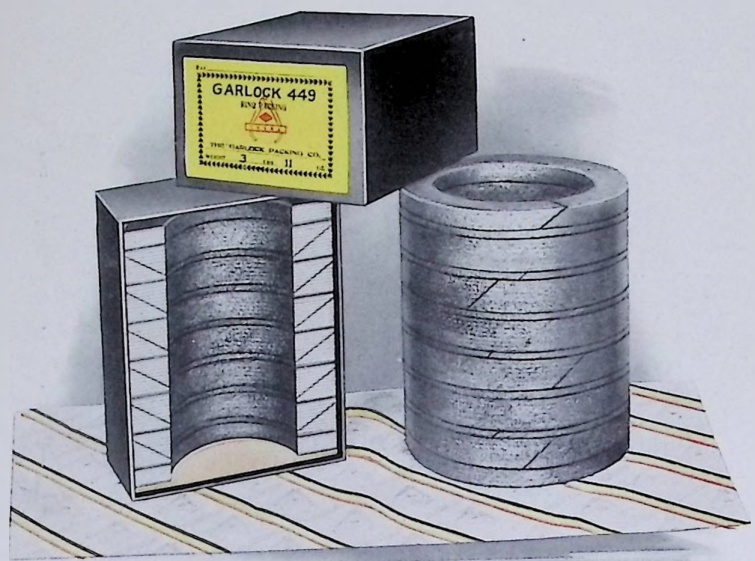
Garlock-446 is a combination packing with end rings of Garlock-200 high pressure asbestos packing and center rings of Garlock-550 diagonal cut duck and rubber steam packing.

Garlock-446 is built for service on piston rods of steam engines working against medium pressure steam up to 125 pounds per square inch. It is particularly adaptable for use on slightly worn rods as the automatic action of the Garlock-550 rings compensates for the inequalities on the rod. It is also recommended for the intermediate and low pressure piston rods of triple expansion marine engines.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

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COMBINATION PACKING SERVICE



GARLOCK-449

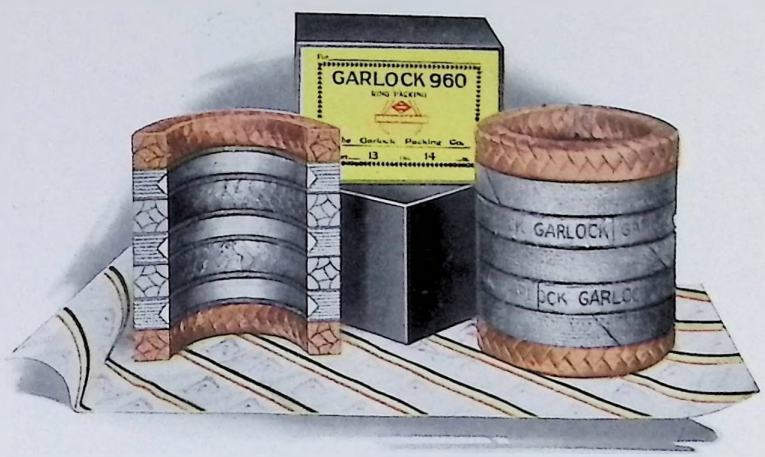
Steam Hammer Duo Packing

Garlock-449 is a combination packing with end rings of Garlock-333 duck and rubber steam packing and center rings of Garlock-550 diagonal cut duck and rubber steam packing.

Garlock-449 is designed for use on piston rods of steam hammers and will absorb the vibration usually found in such installations. It is also recommended for any steam rods having considerable jar or sway, as well as worn or scored rods working under steam pressure up to 100 pounds per square inch.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

COMBINATION PACKING SERVICE



GARLOCK-960

Hydraulic Duo Packing

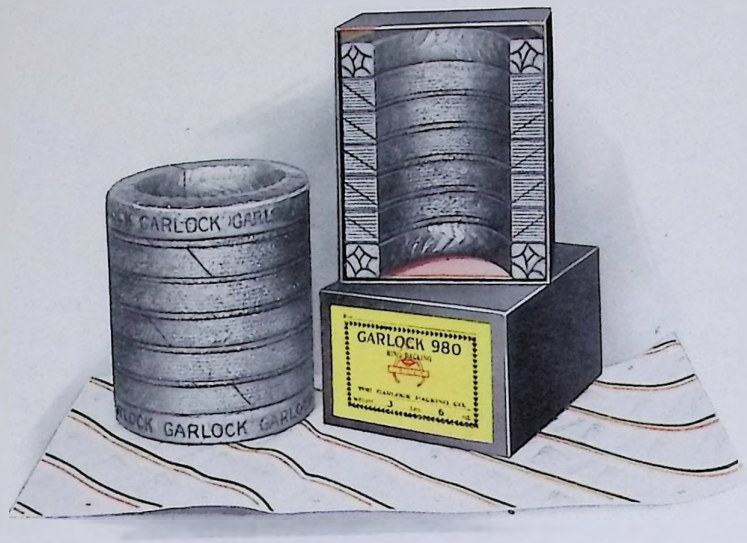
Garlock-960 is a combination packing with end rings of Garlock-346 braided copper wire packing and alternating center rings of Garlock-216 metal inner wedge duck and rubber packing and Garlock-99 waterproof hydraulic packing.

Garlock-960 is adaptable for service against extremely high pressure hydraulic conditions on hydraulic pumps, accumulators, rams, presses, etc. Excellent service records have been obtained upon steel mill installations where it works against pressures of 3,000 pounds per square inch and above.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

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COMBINATION PACKING SERVICE



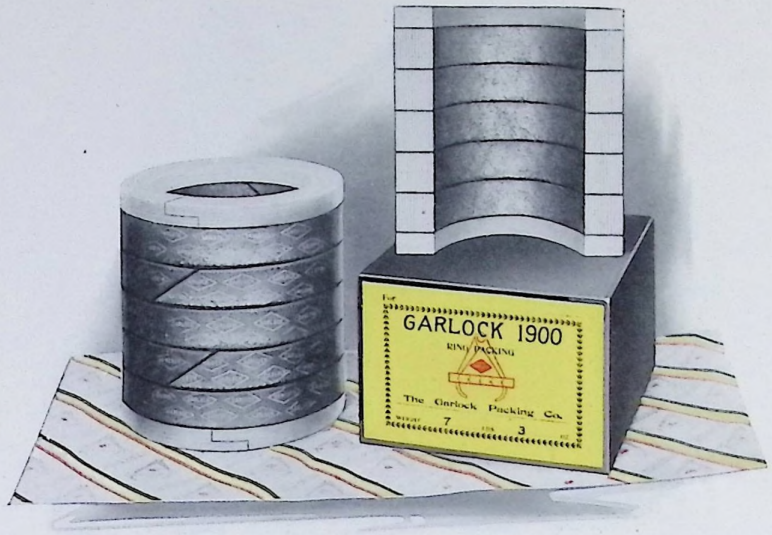
GARLOCK-980
Hydraulic Duo Packing

Garlock-980 is a combination packing with end rings of Garlock-99 waterproof hydraulic packing and center rings of Garlock-550 diagonal cut duck and rubber steam packing.

Garlock-980 is recommended for outside packed pump plungers and triplex pumps handling cold water. The construction and flexibility of the diagonally cut Garlock-550 rings enables this combination to work satisfactorily on worn plungers.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

COMBINATION PACKING SERVICE



GARLOCK-1900
Hot Water Duo Packing

Garlock-1900 is a combination packing with end rings of Garlock-261 hydraulic stock and center rings of specially constructed duck and rubber packing.

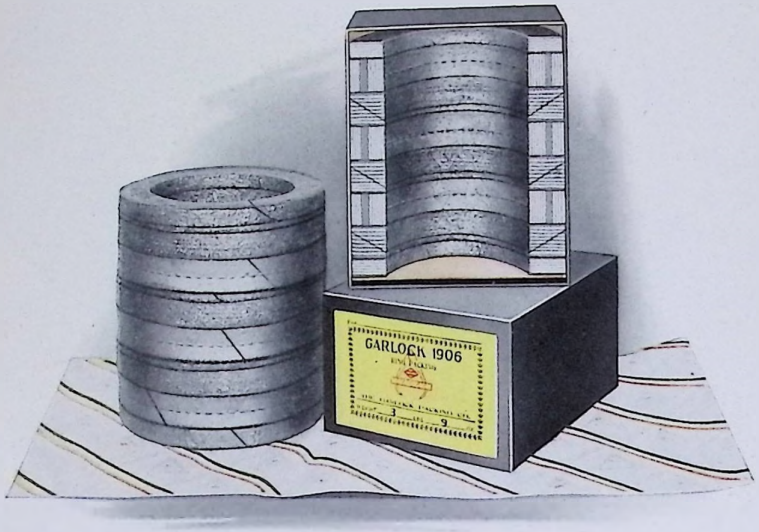
This packing is designed for pumps handling returns from buildings and is recommended for outside packed pumps conveying hot water.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

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GARLOCK

COMBINATION PACKING SERVICE



GARLOCK-1906
Hot Water Duo Packing

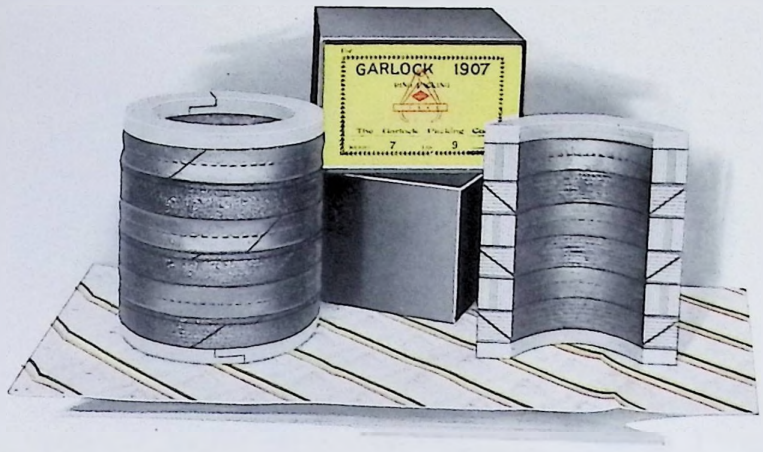
GARLOCK-1906 is a combination packing with end rings of GARLOCK-333 duck and rubber steam packing and alternating center rings of GARLOCK-275 rubber center duck and rubber packing and GARLOCK-550 diagonal cut duck and rubber steam packing.

GARLOCK-1906 is an excellent boiler feed pump packing and is designed for the plungers of outside packed pumps. It is especially adapted for use against hot water of extreme temperatures and medium pressures.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

GARLOCK

COMBINATION PACKING SERVICE



GARLOCK-1907
Hot Water Duo Packing

GARLOCK-1907 is a combination packing with end rings of GARLOCK-261 special hydraulic stock and alternating center rings of GARLOCK-275 rubber center duck and rubber packing and GARLOCK-550 diagonal cut duck and rubber steam packing.

GARLOCK-1907 gives excellent service on outside packed plunger pumps against extremely hot water and high pressures where severe boiler feed pump service is encountered.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

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COMBINATION PACKING SERVICE

GARLOCK-965
Hydrostatic Duo Packing

GARLOCK-965 is a combination packing made up of soft metal rings, GARLOCK-345 braided copper wire rings and GARLOCK-99 waterproof hydraulic rings.

GARLOCK-965 is designed to hold the heaviest hydraulic pressures and we recommend it for use on heavy duty rams, accumulators, presses and outside packed hydraulic pumps.

When ordering, specify diameter of the rod, inside diameter and depth of stuffing box.

Garlock Duo Packings

The foregoing pages describe our most popular combinations of packings known as duos.

In addition to these, we sell many other combinations of packing that have been found particularly effective for special conditions. It is impossible to describe them in this catalog or to list the services for which they are intended.

GARLOCK SERVICE MEN are prepared to give you full information concerning these combinations both as to assembly and the conditions for which they have been proved to be suitable.

Requests to our nearest district sales office will bring you full information either by mail or a personal call by our representative.

MISCELLANEOUS PACKING SERVICE



GARLOCK-107
High Pressure Diagonal Packing

Coil Form—Garlock-107

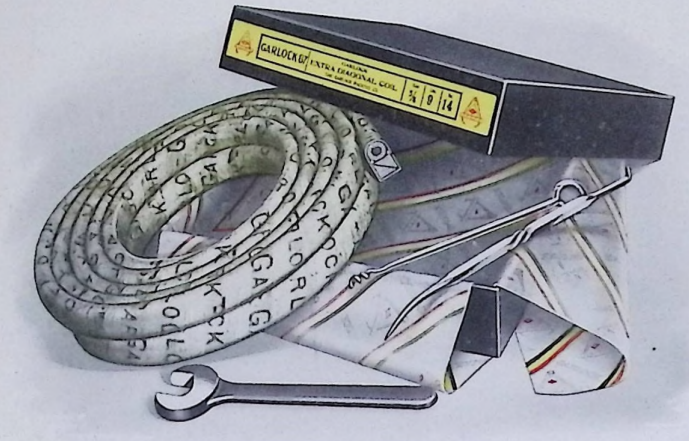
GARLOCK-107 is constructed with a cushion of twisted long fibre asbestos yarn combined with wedges of special quality duck and rubber. The parts are held in place by a braided cover and the packing is given a special lubrication treatment.

GARLOCK-107 is recommended for service against high pressure steam and is especially effective on rods out of round or not running in alignment.

GARLOCK *diagonal packings are shipped with a protective muslin cover which should be removed before placing in the stuffing box.*

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MISCELLANEOUS PACKING SERVICE



GARLOCK-87
Extra Diagonal Packing

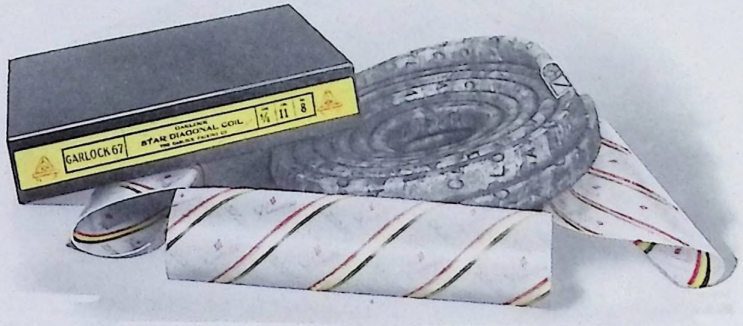
Coil Form—Garlock-87

Garlock-87 is constructed of a duck wrapped rubber centered cushion combined with diagonal wedges of first grade duck and rubber. The parts are held in place with a braided cotton jacket and the packing is processed with a special lubricant.

Extra Diagonal Packing will render efficient service when working against medium pressure steam, hot and cold water or on mechanical equipment having rods slightly worn or out of alignment.

Garlock diagonal packings are shipped with a protective muslin cover which should be removed before placing in the stuffing box.

MISCELLANEOUS PACKING SERVICE



GARLOCK-67
Star Diagonal Packing

Coil Form—Garlock-67

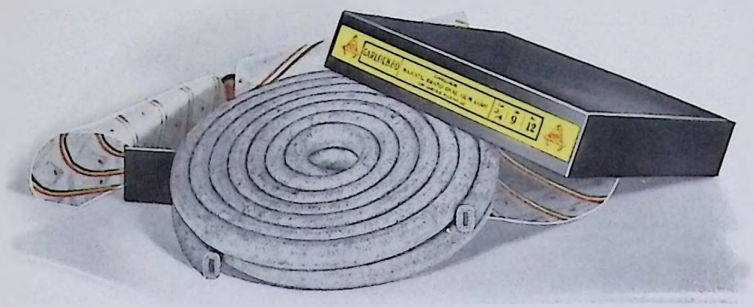
Garlock-67 is a diagonal packing having a fibrous cushion combined with a duck and rubber wedge. The component parts are held together with a braided cotton cover and the packing is thoroughly lubricated. This construction makes a very soft and durable product.

It is especially recommended for service on old equipment with worn rods working against cold water and low pressure steam.

Garlock diagonal packings are shipped with a protective muslin cover which should be removed before placing in stuffing box.

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MISCELLANEOUS PACKING SERVICE



GARLOCK-80
Majestic Gum Core Coil Packing

Oval Form—Garlock-80
Round Form—Garlock-81

Majestic Gum Core packing is manufactured either in oval or round form. The core is a high grade rubber stock that will not deteriorate. It is encased in a woven carcass and cover of specially processed and lubricated flax.

These types of packing find a large demand in mines and other operations for service on pumps working against low pressure steam and cold water.

GARLOCK-750
Oleum Ring Packing

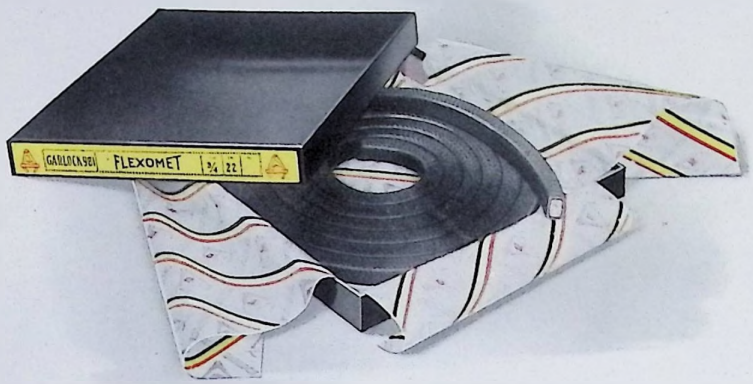
Ring Form (Solid)—Garlock-750
Ring Form (Sectional)—Garlock-756

Garlock-750 is manufactured from a leather compound and is furnished in ring form only, solid or sectional cut.

It is especially recommended for use against cold vegetable oil.

Sets of Garlock-750 and Garlock-756 rings alternating furnished on specification.

MISCELLANEOUS PACKING SERVICE



GARLOCK-981
Flexomet Packing

Coil Form—Garlock-981
Ring Form—Garlock-991

Garlock-981 is a soft metallic packing with a thin braided fibrous cover. The soft metal body of this product is our highest grade of shredded metallic material. The braided jacket serves to keep the packing in proper condition during shipment, handling and application. After application the cover wears away immediately, leaving the metal exposed to the rod.

Garlock-981 is intended for use on rotary rods. It will pack successfully against steam, water and many acid and chemical solutions. This product is also adapted for application to outside packed plungers of pumps.

GARLOCK-66
Braided Cotton Coil Packing

Coil Form—Garlock-66

This packing is manufactured of high grade cotton thoroughly impregnated with lubrication and graphite. It is particularly adaptable for use on centrifugal and reciprocating pumps handling cold oil or water.

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MISCELLANEOUS PACKING SERVICE



GARLOCK-346
Braided Copper Wire Ring Packing

Ring Form—Garlock-346
Coil Form—Garlock-344

Garlock-346 is constructed entirely of braided copper wire.

When used as an end ring in the bottom of a stuffing box it greatly adds to the life of the soft packing on heavy hydraulic duty. On heavy horizontal plungers where the packing has to bear a portion of the weight of the plunger, a ring of it should be used at both front and back of stuffing box. It also makes an excellent bushing ring for use when an enlarged opening exists between the bottom of the stuffing box and the rod.

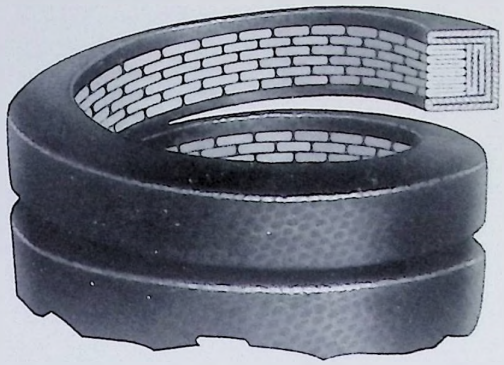
GARLOCK-644
Pacific Semi-Metallic Coil Packing

Coil Form—Garlock-644
Ring Form—Garlock-646

Garlock-644 is braided of soft metal strands and asbestos yarn, all thoroughly lubricated and graphited.

It is highly recommended for use on centrifugal pumps working under most all conditions. Its construction is such that it will not wear or cut the shaft.

MISCELLANEOUS PACKING SERVICE



GARLOCK-377
Metalmarine Spiral Packing

Coil Form—Garlock-377
Ring Form—Garlock-377R

Garlock-377 is a lubricated non-frictional metal packing with side walls, back and cushion of rubberized asbestos cloth.

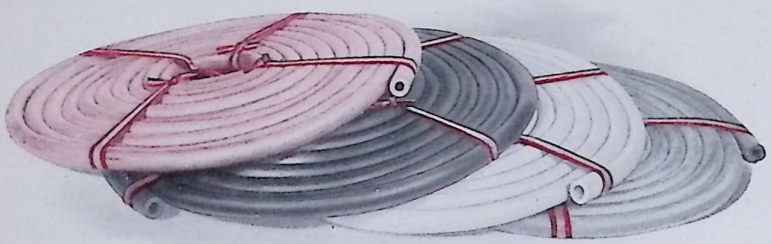
The metal wearing surface is manufactured from a solid piece of material. The special Garlock design provides a number of small metal surfaces so staggered as to give a pressure tight bearing on the rod. Apertures at the back of the metal wearing surface provide for the emission of lubricant from the cushion to the rod.

Garlock-377 is particularly recommended for service on the piston rods of main engines on steamships, deck engines, hoisting engines, steam shovels and dredges, steam hammers, kickers and steam niggers in the lumber trade and a general all around steam engine packing.



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MISCELLANEOUS PACKING SERVICE



Garlock Rubber Tubing

Garlock Rubber Tubing is manufactured from high grade stocks especially compounded to obtain long life and retain resiliency. Garlock Tubing is produced only with a smooth cover and special attention is given to the process of manufacture so that the thickness of the wall is uniform.

The different grades listed below are particularly recommended for ice plants, chemical and dye works, hospitals, etc.:

GARLOCK-1
Black Soft Rubber Tubing

This tubing is manufactured from a soft high grade strong stock.

GARLOCK-2
White Rubber Tubing

This is a high grade tubing produced from soft stock with high tensile strength.

GARLOCK-3
Black Rubber Tubing

This tubing is run from an oil resisting stock of rather a dense body.

GARLOCK-4
Red Rubber Tubing

This is a high grade soft and strong tubing of light density.

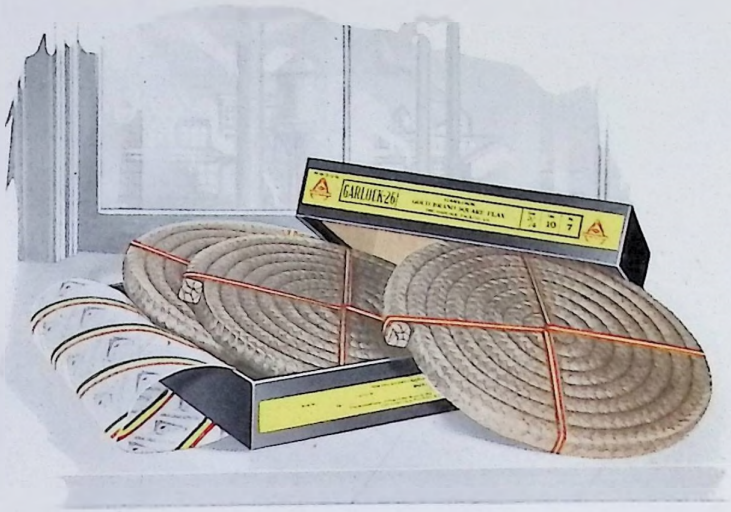
Garlock Gauge Glass Washers

Garlock Gauge Glass Washers are made from a tenacious resilient rubber that will not harden or show any appreciable deterioration in service.

These washers are easily applied on account of their design. They also eliminate breakage insuring long life to the glass and keep the connections from sputtering and leaking.

Furnished in standard sizes for ½, ⅝, ¾ and 1″ glasses.

FLAX PACKING SERVICE



GARLOCK-26
Gold Brand Flax Coil Packing

Regular—Garlock-26
Very Soft—Garlock-27

Garlock Gold Brand Flax Packing is the highest grade flax packing that can be produced. It is manufactured from the longest fibre imported flax sorted and graded by flax experts. This produces a roving of extremely fine grade free from tow, coarse or short fibres and foreign substances. It is braided with care so that an even and uniform commodity is produced. The impregnation is made with a high grade lubrication.

Garlock-26 will give satisfactory service for heavy hydraulic duty and all cold water conditions.

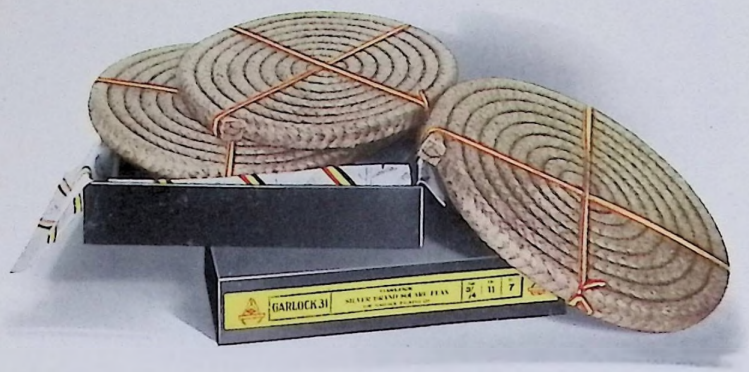
GARLOCK-36
Gold Brand Graphited Flax Coil Packing

Coil Form—Garlock-36

Garlock-36 is the same material as Garlock-26 except that it is given a special graphite treatment.

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FLAX PACKING SERVICE



GARLOCK-31
Silver Brand Flax Coil Packing

Regular—Garlock-31
Very Soft—Garlock-32

Garlock Silver Brand Packing is an all flax product made from long fibre rovings, carefully and uniformly braided and impregnated with our high grade flax lubricant.

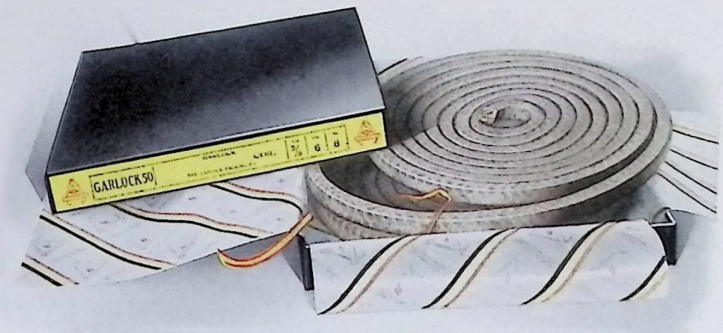
This commodity will give excellent service on hydraulic and cold water conditions.

GARLOCK-131
Silver Brand Graphited Flax Coil Packing

Coil Form—Garlock-131

Garlock-131 is the same material as Garlock-31 except that it is given a special graphite treatment.

FLAX PACKING SERVICE



GARLOCK-50
High Pressure Flax Coil Packing

Coil Form—Garlock-50

Garlock-50 is made from the first grade of flax roving. It is processed in ungraphited form with a special waterproof lubricant.

It is recommended for heavy hydraulic duty and all kinds of cold water conditions, but it is especially adapted for pumps handling any liquid that must be kept free of graphite or any foreign substance. This particular feature has been recognized by the paper mill trade which have standardized on Garlock-50 for white water pumps, stock pumps, and other similar conditions.

GARLOCK-43
Ocean Brand Blended Flax Coil Packing

Coil Form—Garlock-43

Garlock-43 is a good grade of flax packing designed for ordinary hydraulic conditions.

GARLOCK-53
Ocean Brand Blended Graphited Flax Coil Packing

Coil Form—Garlock-53

Garlock-53 is the same material as Garlock-43 except that it is given a special graphite treatment.

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FLAX PACKING SERVICE



GARLOCK-35
Lake Brand Square Jute Coil Packing

Coil Form (Regular)—Garlock-35
Coil Form (Very Soft)—Garlock-535

Garlock-35 is an all fine white India jute, which in our process of manufacture is sorted and graded carefully as to length of fibre and then braided by the same process as used in the manufacture of our flax products. It is treated with high grade lubricant which thoroughly impregnates every fibre. If very soft construction is desired, specify Garlock-535.

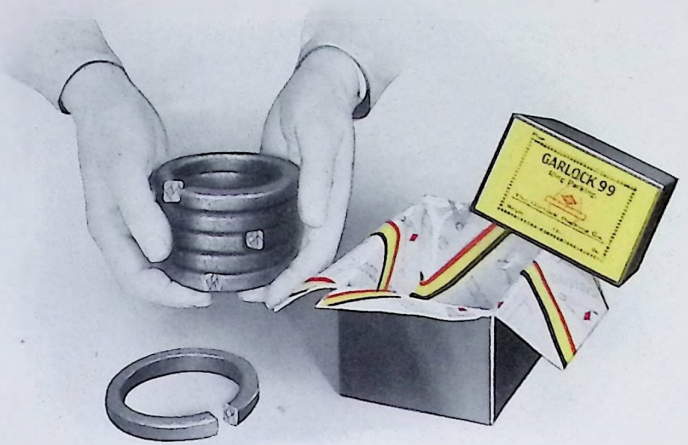
It is recommended for all hydraulic and cold water conditions where a jute packing is generally used.

GARLOCK-52
Lake Brand Graphited Jute Coil Packing

Coil Form—Garlock-52

Garlock-52 is the same material as Garlock-35 except that it is given a special graphite treatment.

FLAX PACKING SERVICE



GARLOCK-99
Waterproof Hydraulic Ring Packing

Regular—Garlock-99
Soft—Garlock-99S
Very Soft—Garlock-99VS

Garlock-99 Waterproof Hydraulic Ring Packing is the same packing described on page 97, under the name of Garlock-90 Waterproof Hydraulic Coil Packing. The recommendation made for Garlock-90 also applies to Garlock-99.

Garlock-90 *Coil Form is described on page 97.*
Garlock-92 *Spiral Form is described on page 96.*

GARLOCK-103
Crescent Hydraulic Coil Packing

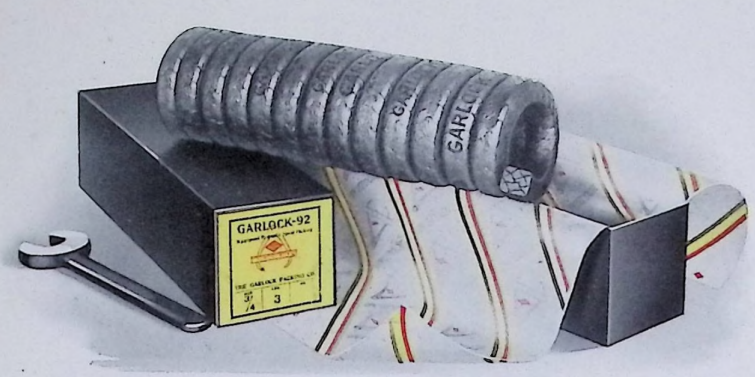
Coil Form—Garlock-103
Ring Form—Garlock-203

Garlock-103 is made up with a cushion of high grade flax imbedded in a soft square rubber of high tensile strength.

This packing will give excellent service on cold water pumps and elevators, also on ammonia rods when used in combination with our other packings.

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FLAX PACKING SERVICE



GARLOCK-92
Waterproof Hydraulic Spiral Packing

Regular—Garlock-92
Soft—Garlock-92S
Very Soft—Garlock-92VS

Garlock-92 Waterproof Hydraulic Spiral Packing is the same packing described on page 97, under the name of Garlock-90 Waterproof Hydraulic Coil Packing.

The recommendation made for Garlock-90 also applies to Garlock-92.

Garlock-90 *Coil Form is described on page 97.*
Garlock-99 *Ring Form is described on page 95.*

GARLOCK-93
Rubber Back Flax Untreated Coil Packing

Coil Form—Garlock-93
Ring Form—Garlock-193

This packing is the same material as Garlock-83 and Garlock-183 as described on page 97, except it is not treated with waterproof hydraulic compound.

The recommendations as made for Garlock-83 also apply to this packing.

FLAX PACKING SERVICE



GARLOCK-90
Waterproof Hydraulic Coil Packing

Regular—Garlock-90
Soft—Garlock-90S
Very Soft—Garlock-90VS

Garlock-90 is made from the first grade of flax roving and is thoroughly impregnated and treated with our graphited waterproof compound.

This type of packing is particularly recommended for use on heavy hydraulic duty such as rams, accumulators, hydraulic pumps, elevator plungers or outside packed pumps handling cold water and cold oil.

Garlock-99 *Ring Form is described on page 95.*
Garlock-92 *Spiral Form is described on page 96.*

GARLOCK-83
Rubber Back Waterproof Hydraulic Coil Packing

Coil Form—Garlock-83
Ring Form—Garlock-183

Garlock-83 is a rubber back flax packing. The flax is braided from highest grade roving and firmly vulcanized to the rubber cushion. The packing is then processed with waterproof hydraulic compound.

It is recommended for service on cold water rods out of line and is extensively used in combination with our other hydraulic packings.

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FLAX PACKING SERVICE



"Quality Controlled" Flax Packings

THE flax packings as listed in the foregoing pages represent the highest grades produced in their kind and type. The majority of users believe all flax packings are equal qualities, especially if an examination determines the packing is of long fibre and all flax.

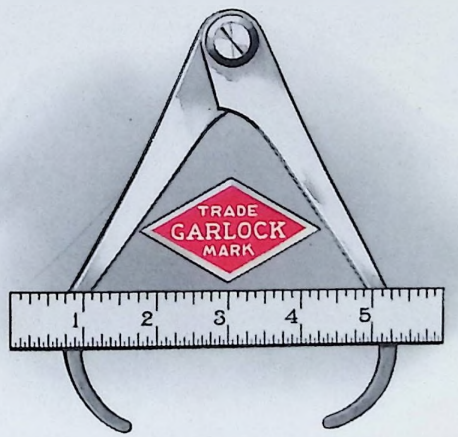
The engraving illustrates the difference between a long and short fibre product. However, in connection with this test the following deciding factors of quality should be taken into consideration:

FLAX PACKING SERVICE

1. Strength of fibre.
2. Point of origin of the fibre and the manner in which it is treated and handled up to the time it arrives at the braiding plant.
3. The care taken in braiding to insure uniform density.
4. The proper lubrication with scientifically blended compounds.

GARLOCK "Quality Controlled" flax packings are manufactured from long fibre European rovings tested as to strength and cured, treated and graded by approved methods. The fibres are of uniform length and color and are braided by special machinery so that the density of the product is always the same. All lubricants used in the treatment of our flax packings are compounded to given formulas which have been time tested and arrived at after years of experiments. The lubricants are forced into the packing by specially designed processes.

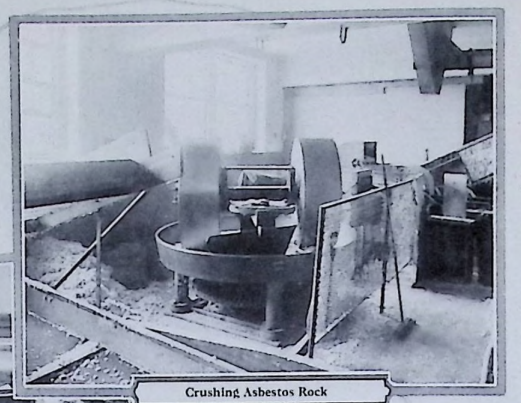
"Quality Controlled" flax packings are built to give service and not to sell at a price.



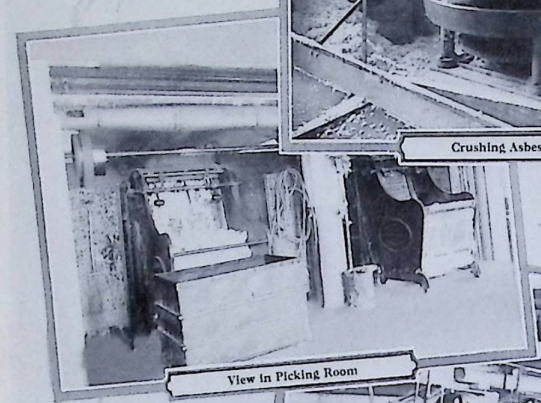
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U. S. Patent Office

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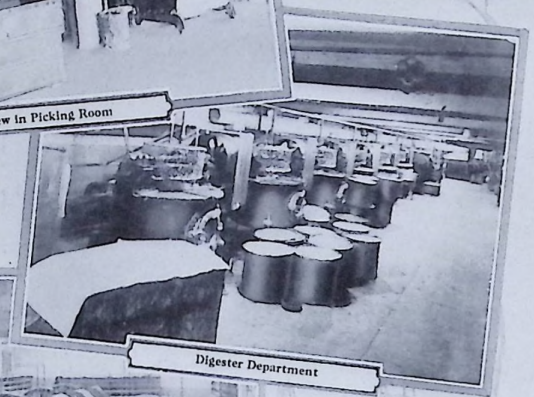
High Pressure Sheet Packing Department



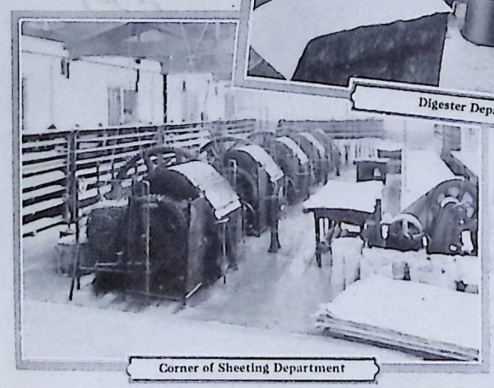
Crushing Asbestos Rock



View in Picking Room



Digester Department



Corner of Sheeting Department

Photographs taken in The Garlock Packing Co's Plant

SHEET PACKING SERVICE



GARLOCK-900
Compressed Asbestos Fibre Sheet Packing

Sheet Form—Garlock-900
Gasket Form—Garlock-950

See description on next page.

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SHEET PACKING SERVICE

GARLOCK-900

Compressed Asbestos Fibre Sheet Packing

Sheet Form—Garlock-900
Gasket Form—Garlock-950

Garlock-900, the perfected compressed asbestos fibrous packing, is made of Canadian asbestos fibre scientifically blended with superheat resisting compounds and bonded under an extreme pressure into sheet. This method of manufacture gives a sheet that is pliable and strong and one that has high tensile strength.

Garlock-900 will give satisfactory service when used against superheated or saturated steam, air, gas, ammonia, and most chemical solutions.

Manufactured in the following thicknesses: 1/64, 1/32, 3/10, 1/8, 3/16 and 1/4 inch.
Standard sizes of sheets: 40 x 40 inches and 40 x 120 inches.

Garlock-950 *Gasket Service is described on page 112.*

GARLOCK-902

Oil Resisting Compressed Asbestos Fibre Sheet Packing

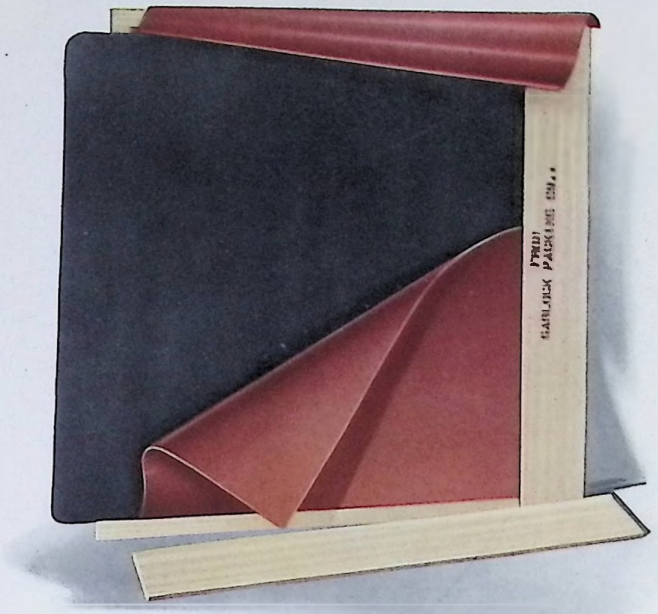
Sheet Form—Garlock-902
Gasket Form—Garlock-952

Garlock-902 is our compressed asbestos fibre sheet packing processed in a special manner for use against the most severe oil conditions. Regularly furnished ungraphited, but can be furnished graphited one side or both sides, if desired.

Manufactured in the following thicknesses: 1/64, 1/32, 3/10, 1/8, 3/16 and 1/4 inch.
Standard sizes of sheets: 40 x 40 inches and 40 x 120 inches.

Garlock-952 *Gasket Service is described on page 112.*

SHEET PACKING SERVICE



GARLOCK-901

Graphited Compressed Asbestos Fibre Sheet Packing

Sheet Form—Garlock-901
Gasket Form—Garlock-951

Garlock-901 is Garlock-900 compressed asbestos fibre packing graphited on both sides. The graphite treatment given Garlock-901 prevents it from sticking to flanges of joints that are frequently opened.

It will give satisfactory service when used against superheated or saturated steam, air, gas, ammonia and most chemical solutions.

Manufactured in the following thicknesses: 1/64, 1/32, 1/16, 1/8, 3/16 and 1/4 inch.
Standard sizes of sheets: 40 x 40 inches and 40 x 120 inches.

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SHEET PACKING SERVICE



GARLOCK-22
Red Sheet Packing

Sheet Form—Garlock-22
Gasket Form—Garlock-122

Garlock-22 is a Quality Controlled red rubber sheet packing scientifically compounded so that it remains soft and pliable in service. It can be carried in stock for a long period without deterioration.

Garlock-22 gives universal satisfaction in any service where a high quality rubber gasket is required. It is particularly recommended for use on hot or cold water and saturated steam joints at pressures up to 150 pounds per square inch.

Manufactured in the following thicknesses: 1/32, 1/16, 3/32, 1/8, 3/16 and 1/4 inch. The standard width is 40 inches.

Garlock-122 *Gasket Service is described on page 116.*

SHEET PACKING SERVICE



GARLOCK-24
Wire Insertion Red Rubber Sheet Packing

Sheet Form—Garlock-24
Gasket Form—Garlock-124

Garlock-24 is the same high grade red rubber compound which we use in the manufacture of Garlock-22, reinforced with woven brass wire. Wire inserted rubber sheet packing when the insertion is of iron, copper or untreated brass wire, has a tendency to oxidize. The brass wire as used in Garlock-24 is produced to our specifications and so treated as entirely to eliminate oxidization. Garlock-24 is recommended for use where extremely hard conditions are encountered, such as on vibrating pipe lines or where a gasket with a very narrow flange is required. It will give complete satisfaction against hot or cold water and steam.

Manufactured in the following thicknesses: 1/32, 1/16, 3/32, 1/8, 3/16 and 1/4 inch. The standard width is 40 inches.

Garlock-124 *Gasket Service is described on page 117.*

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SHEET PACKING SERVICE



GARLOCK-19

Special Duck Insertion Rubber Sheet Packing

Sheet Form—Garlock-19
Gasket Form—Garlock-219

Garlock-19 is manufactured from heavyweight high tensile strength duck, covered with a strong high grade rubber compound and vulcanized under hydraulic pressure. It will retain its life and resiliency both in service and in stock.

Garlock-19 is the highest quality duck inserted sheet packing it is possible for the Garlock factories to produce. It is recommended for use on heavy hydraulic work for the reason it will not creep in the flange. It also gives excellent service on doors of street cars.

Manufactured in the following thicknesses: 1/32, 1/16, 3/32, 1/8, 3/16 and 1/4 inch.
The standard width is 40 inches.

Garlock-219 *Gasket Service is described on page 120.*

SHEET PACKING SERVICE



GARLOCK-353

Oilblack Rubber Sheet Packing

Sheet Form—Garlock-353
Gasket Form—Garlock-953

Garlock-353 is a black rubber sheet packing made from a rubber compound especially developed by our laboratories to fill the demand for a sheet packing that will resist the deteriorating action of oils.

It is recommended for use against heavy or light oil, hot or cold water, steam, ammonia or alkali solutions.

Manufactured in the following thicknesses: 1/32, 1/16, 3/32, 1/8, 3/16 and 1/4 inch.
The standard width is 40 inches.

Garlock-953 *Gasket Service is described on page 120.*

GARLOCK-620

Oiline Sheet Packing

Sheet Form—Garlock-620

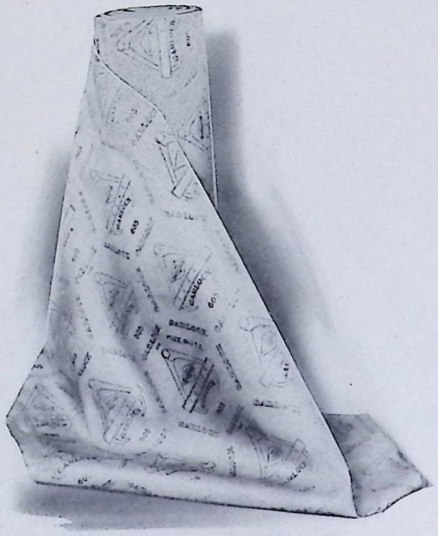
Garlock-620 is a white sheet packing, having several plies of fine closely woven cotton cloth vulcanized together with a white rubber friction.

It is recommended as a general all around packing and will give excellent results on low and medium pressure steam or hot and cold water joints. When the flanges are not opened frequently, it will give years of service on these conditions.

Manufactured in the following thicknesses: 1/32, 1/16, 3/32, 1/8, 3/16, 1/4 inch.
The standard width is 40 inches.

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SHEET PACKING SERVICE



GARLOCK-605
High Pressure Wire Insertion Asbestos Sheet Packing

Sheet Form—Garlock-605
Gasket Form—Garlock-607

Garlock-605 is a specially treated heat resisting asbestos cloth woven from fine brass wire inserted, long fibre asbestos yarn.

It is recommended particularly for service where a narrow flange gasket is required for high pressure steam and also on cylinder heads where the many ports and bolt holes would weaken an ordinary gasket.

Manufactured in the following thicknesses: 1/32, 1/16 and 1/8 inch.
The standard width is 48 inches.

Garlock-607 *Gasket Service is described on page 113.*

GARLOCK-625
Autoline Sheet Packing

Sheet Form—Garlock-625
Gasket Form—Garlock-627

Garlock-625 is a woven high pressure wire inserted asbestos sheet packing treated with a red compound on one side and a black on the other. It is recommended for use on internal combustion engines.

Manufactured in the following thicknesses: 1/32, 1/16, and 1/8 inch.
The standard width of sheet is 48 inches.

Garlock-627 *Gasket Service is described on page 113.*

SHEET PACKING SERVICE

GARLOCK-619
Diaphragm Sheet Packing

Sheet Form—Garlock-619

Garlock-619 is made up with an insertion of heavy duck between plies of first quality tenacious rubber. It is the highest grade diaphragm material on the market.

If specified, circular diaphragms and gaskets can be furnished cut from the sheet.

Manufactured in the following thicknesses: 1/16, 1/8, 3/16 and 1/4 inch.
The standard width of sheet is 40 inches.

GARLOCK-91
Gray Rubber Sheet

Sheet Form—Garlock-91
Gasket Form—Garlock-96

Garlock-91 is manufactured from a compound having a high percentage of rubber. This gives a soft tough rubber sheet which is especially adaptable for packing joints of all descriptions against cold water or other fluids. It gives excellent service on a joint when one or both of the flanges are glass, such as peep sights on tanks, etc.

Manufactured in the following thicknesses: 1/32, 1/16, 3/32, 1/8, 3/16 and 1/4 inch.
The standard width of sheet: 40 inches.

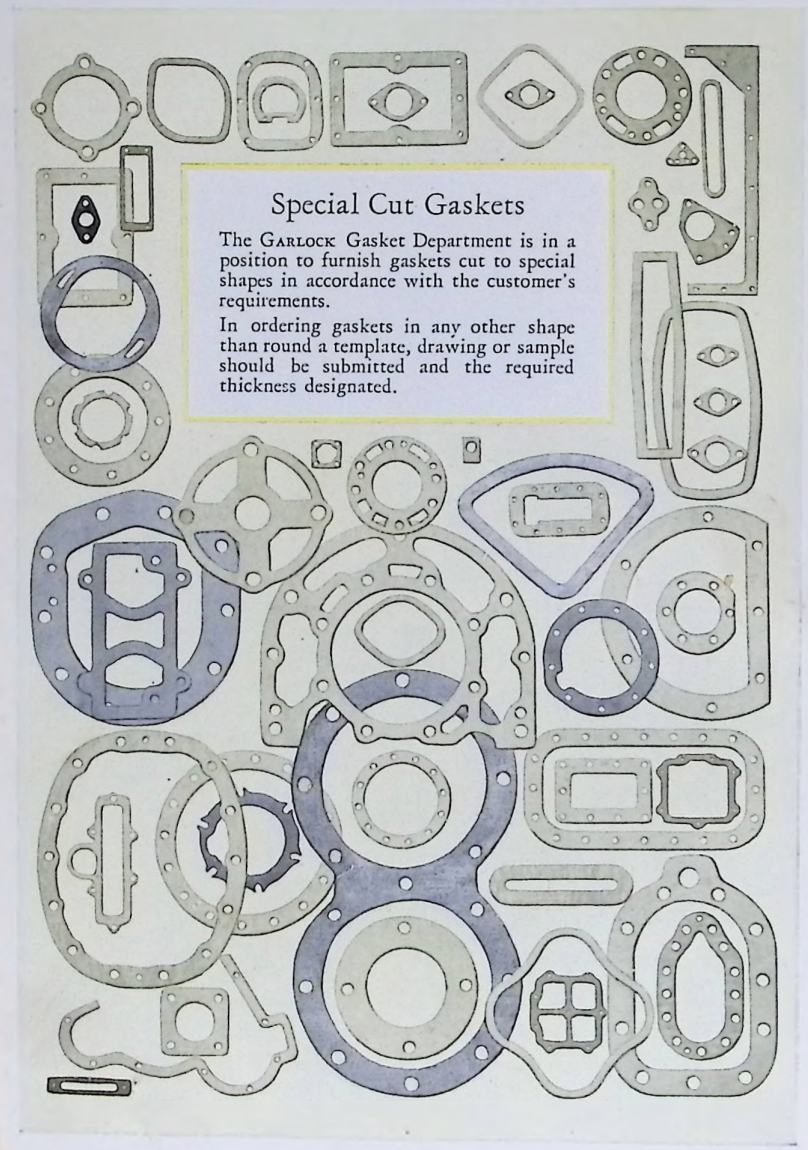
GARLOCK-681
Tan Fibre Sheet Packing

Sheet Form—Garlock-681
Gasket Form—Garlock-691

Garlock-681 is a special packing made entirely from a vegetable base impregnated with a compound which not only preserves the sheet, but makes it impervious to all cold oils and water. It is especially adapted for use against cold gasoline.

Manufactured in the following thicknesses: 1/64, 1/32, 1/16 and 1/8 inch.
The standard width of sheet is 40 inches.

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Special Cut Gaskets

The Garlock Gasket Department is in a position to furnish gaskets cut to special shapes in accordance with the customer's requirements.

In ordering gaskets in any other shape than round a template, drawing or sample should be submitted and the required thickness designated.

Gasket Information

On page 170, Engineering Data Section, are tables giving the dimensions for inside and outside diameters of ring and full face gaskets for the pipe sizes listed. These tables cover standard and low pressure flanges, and extra heavy and medium pressure flanges, all to A. S. M. E. standards.

Ring gaskets are recommended for use wherever their application is practical. They should always be used on all types of raised face flanges, Van Stone and Improved Van Stone joints.

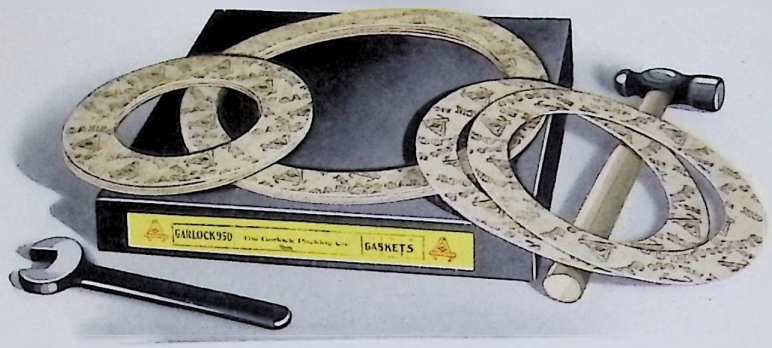
Full face gaskets are always furnished without bolt holes unless otherwise specified. If the order designates that gaskets are to be supplied with bolt holes, the holes will be punched $\frac{1}{8}$ inch larger than the nominal diameter of bolts.

We also have a record of the gasket sizes required for standard tongue and groove, male and female, hydraulic standard flanges and Boyle unions.

Gaskets for shrunk and peened flanges should have the same inside diameter as the flange at the point of contact with the gasket. Measurements for these particular gaskets must be specified by user.

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GASKET SERVICE



GARLOCK-950

Compressed Asbestos Fibre Gaskets

Gasket Form—Garlock-950
Sheet Form—Garlock-900

Garlock-950 gaskets are cut from Garlock-900 compressed asbestos fibre sheet packing. This sheet packing is manufactured from Canadian asbestos fibre, scientifically blended with a superheat resisting compound and bonded under an extreme pressure.

Garlock-950 gaskets will give complete and satisfactory service on pipe lines carrying high pressure and superheated steam, air, ammonia and acids.

Manufactured in the following thicknesses: 1/64, 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-900 *Sheet Service is described on page 101.*

GARLOCK-952

Oil Resisting Compressed Asbestos Fibre Gaskets

Gasket Form—Garlock-952
Sheet Form—Garlock-902

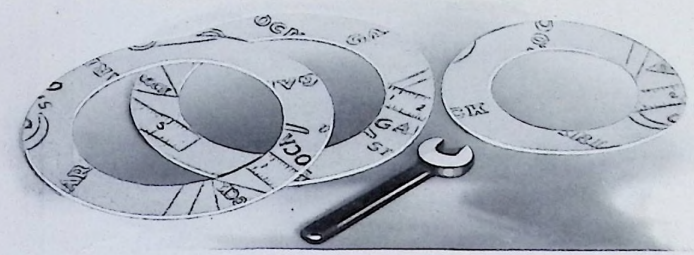
Garlock-952 gaskets are cut from Garlock-902 oil resisting compressed asbestos fibre sheet packing which is described on page 102. They are also recommended for the same service. Regularly furnished ungraphited, but can be furnished graphited one side or both sides, if desired.

Manufactured in the following thicknesses: 1/64, 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-902 *Sheet Service is described on page 102.*

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

GASKET SERVICE



GARLOCK-607

High Pressure Wire Inserted Asbestos Gasket

Gasket Form—Garlock-607
Sheet Form—Garlock-605

Garlock-607 gaskets are cut from Garlock-605 high pressure wire inserted asbestos sheet packing.

Garlock-607 gaskets are recommended for high pressure steam service where a narrow flange is required. They also make excellent gaskets for use on cylinder heads having many ports and bolt holes which would weaken an ordinary gasket.

Manufactured in the following thicknesses: 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-605 *Sheet Service is described on page 108.*

GARLOCK-627

Autoline Gaskets

Gasket Form—Garlock-627
Sheet Form—Garlock-625

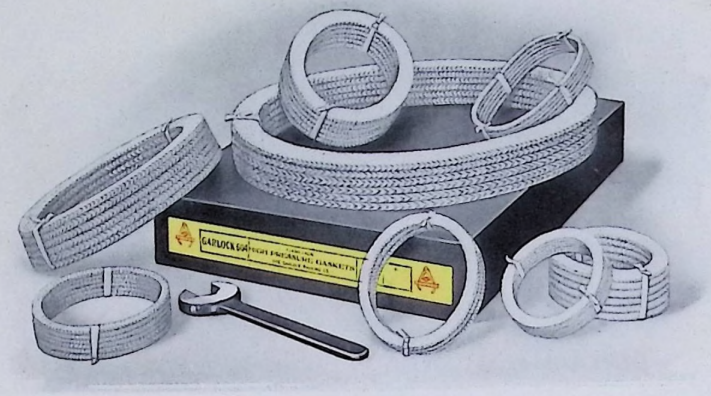
Autoline gaskets are cut from Autoline sheet packing which is described on page 108. They are also recommended for the same service.

Manufactured in the following thicknesses: 1/32, 1/16 and 1/8 inch.

Garlock-625 *Sheet Service is described on page 108.*

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

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GARLOCK-604

High Pressure Folded Asbestos Gaskets

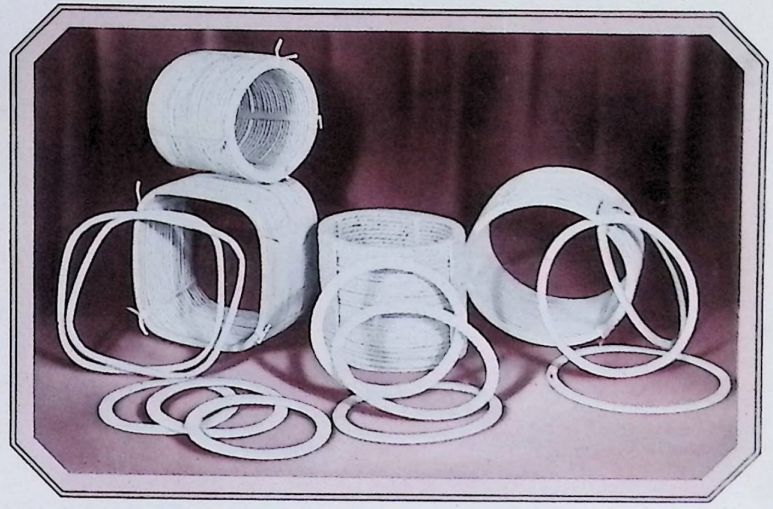
Garlock-604 gaskets are manufactured of asbestos cloth woven from fine wire center long fibre asbestos yarn. The cloth is treated with a heat resisting compound and folded and shaped to the required dimensions.

Garlock-604 gaskets will give satisfactory service against any pressure on boiler man holes and hand hole covers. These gaskets are furnished any shape or size that may be specified.

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

GARLOCK

GASKET SERVICE



Garlock High Pressure Folded Asbestos Gaskets for Water Tube Boilers

The construction of the gaskets listed below under the various type numbers is the same as described under Garlock-604.

Garlock-601 Round for Heine Tube Plate

Standard Sizes

3½ x 4¼ x ⅛" thick
3½ x 4¼ x 3/16" thick
3½ x 4¼ x ¼" thick

Garlock-601 Oval for Heine Tube Plate

Standard Sizes

3½ x 4⅝ x ⅜ x ⅛" thick

Garlock-602 Oval for B. & W. Tube Plate

Standard Sizes

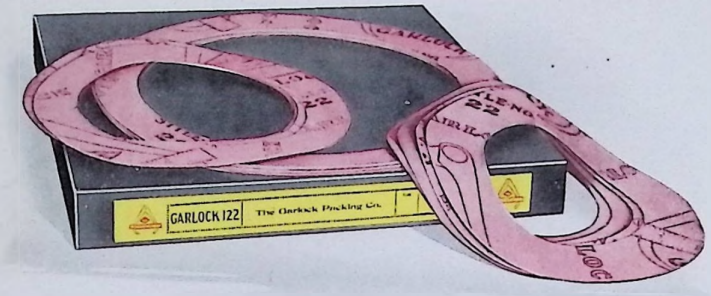
4⅜ x 5¾ x 5/16 x ⅛" thick

Garlock-602 Square for B. & W. Tube Plate

Standard Sizes

4¾ x 4⅞ x ¼ x ⅛" thick

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GARLOCK-122
Red Rubber Gaskets

Gasket Form—Garlock-122
Sheet Form—Garlock-22

Garlock-122 red rubber gaskets are cut from Garlock-22 red rubber sheet packing. They are of the proper firmness to hold in a joint and will not blow or squeeze out under pressure or temperature. These gaskets are pliable enough to fill up any little irregularities in the flange.

Garlock-122 gaskets are recommended for use on hot or cold water joints and saturated steam pressures up to 150 pounds per square inch. They will also give excellent service on any conditions for which a good red rubber gasket is required.

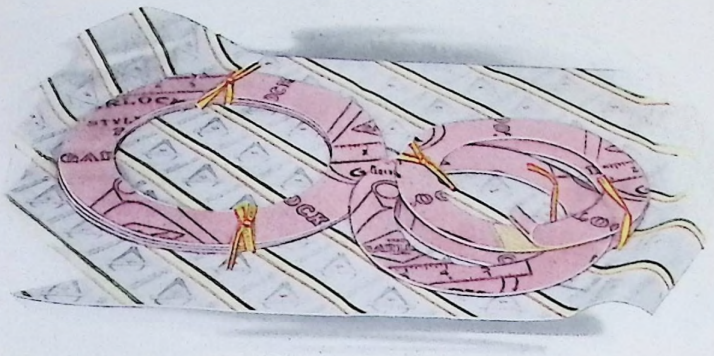
Manufactured in the following thicknesses: 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-22 *Sheet Service is described on page 104.*

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

GARLOCK

GASKET SERVICE



GARLOCK-124
Red Rubber Wire Inserted Gaskets

Gasket Form—Garlock-124
Sheet Form—Garlock-24

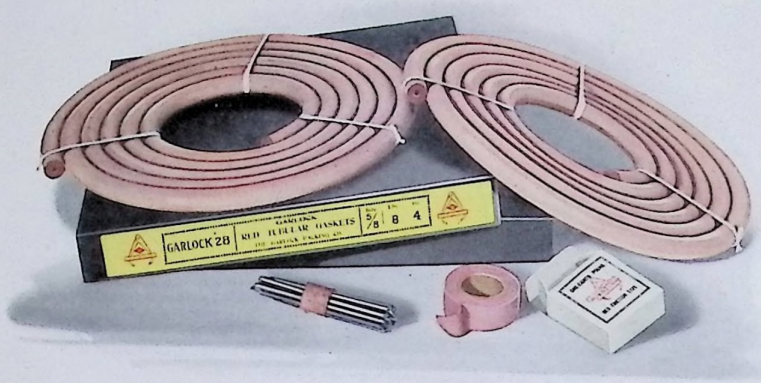
Garlock-124 gaskets are cut from Garlock-24 red rubber wire inserted sheet packing. Garlock-124 gaskets are recommended for service against either hot or cold water and steam, where the conditions are extremely hard, such as on vibrating pipe lines or where a gasket with a very narrow flange is required.

Manufactured in the following thicknesses: 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-24 *Sheet Service is described on page 105.*

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

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GARLOCK-28
Red Tubular Gasketing

Long Lengths—Garlock-28
Formed Gaskets—Garlock-281

Garlock-28 is manufactured in tubular form from a red resilient rubber compound and in commercial lengths. A ring or gasket of any size or shape can be formed by the customer by making use of the connecting lead tubes and friction tape which are furnished with each box of the material.

Garlock-28 is recommended for service against hot and cold water, steam and air. It makes excellent gasketing material for manholes and hand holes of boilers, heater doors and large tanks.

Manufactured in the following thicknesses: 3/8, 1/2, 5/8 and 3/4 inch.

GARLOCK-281
Red Tubular Formed Gaskets

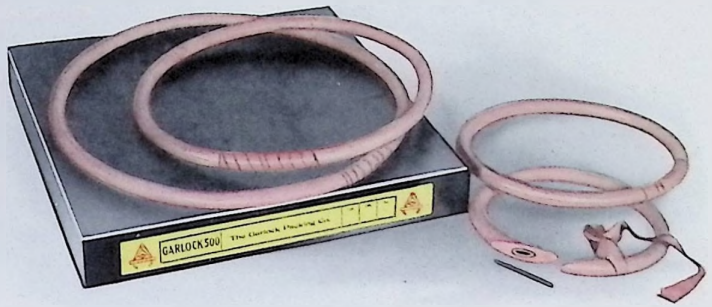
Formed Gaskets—Garlock-281
Long Lengths—Garlock-28

Garlock-281 is the same gasketing material as described above under Garlock-28 except that it is furnished formed into gaskets to sizes specified by the customer.

Garlock-281 is recommended for the same type of service specified for Garlock-28.

Manufactured in the following thicknesses: 3/8, 1/2, 5/8 and 3/4 inch.

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.



GARLOCK-501
Metal Insertion Red Tubular Gaskets

Formed Gaskets—Garlock-501
Long Lengths—Garlock-500

Garlock-501 is the same gasketing material described below under Garlock-500, except that it is made up into gaskets in accordance to sizes designated by the customer.

Garlock-501 is recommended for the same type of service specified for Garlock-500.

Manufactured in the following thicknesses: 3/8, 1/2, 5/8 and 3/4 inch.

GARLOCK-500
Metal Insertion Red Tubular Gasketing

Long Lengths—Garlock-500
Formed Gaskets—Garlock-501

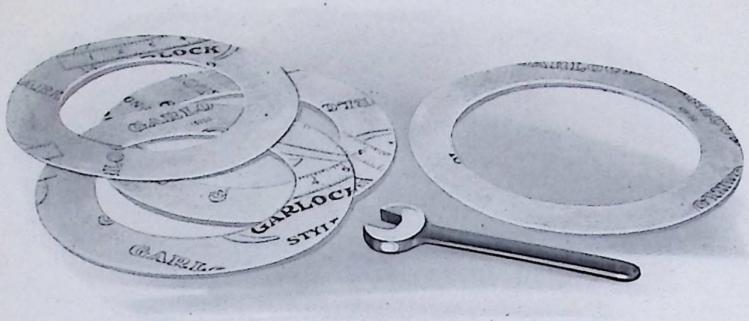
Garlock-500 is an improved red tubular gasketing material with a soft metal tube insertion. It is an economical and serviceable gasket for the reason it has all the features of an adjustable gasket.

The metal insertion in Garlock-500 makes it suitable for heavy duty. It is recommended for use on steam pressures up to 150 pounds per square inch.

Manufactured in the following thicknesses: 3/8, 1/2, 5/8 and 3/4 inch.

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

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GARLOCK-219
Special Duck Inserted Gaskets

Gasket Form—Garlock-219
Sheet Form—Garlock-19

Garlock-219 gaskets are cut from Garlock-19 special duck inserted sheet packing.

They are recommended for use on heavy hydraulic work. They will not creep in the flange.

Manufactured in the following thicknesses: 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-19 *Sheet Service is described on page 106.*

GARLOCK-953
Oilblack Rubber Gaskets

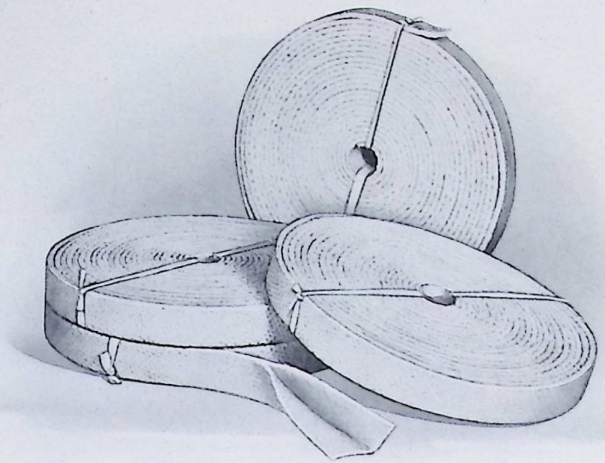
Gasket Form—Garlock-953
Sheet Form—Garlock-353

Garlock-953 gaskets are cut from Garlock-353 Oilblack rubber sheet packing which is described on page 107. They are also recommended for the same service.

Manufactured in the following thicknesses: 1/32, 1/16, 1/8, 3/16 and 1/4 inch.

Garlock-353 *Sheet Service is described on page 107.*

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.



GARLOCK-612
Asbestos Tape

Garlock-612 is a folded tape manufactured of asbestos cloth which is woven from fine wire center long fibre asbestos yarn. Before the cloth is folded into tape form, it is treated with a heat resisting compound.

Garlock-612 tape is recommended for use against all steam pressures on cylinder heads, heater doors, and other mechanical equipment, or wherever a heat insulating or heat resisting tape is required.

When ordering, specify the desired width and thickness.

GARLOCK-610
Asbestos Tubular Gasketing

Formed Gaskets—Garlock-611

Garlock-610 is a high pressure tubular gasketing material constructed of asbestos cloth wrapped upon itself and held by a heat resisting binding material.

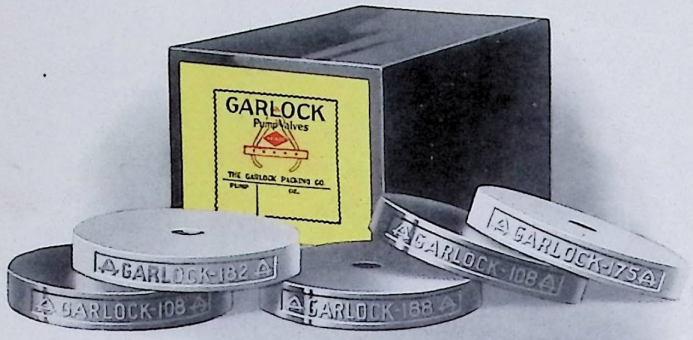
It is recommended for the most severe service on boilers, heater doors, etc.

Garlock-611 is the same material as described above, except that it is furnished formed into gaskets to specified sizes.

In ordering gaskets in any other shapes than round, a template, drawing or sample should be submitted and the required thickness designated.

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PUMP VALVE SERVICE



PUMP VALVE SERVICE

We manufacture a complete line of rubber and composition Pump Valves for service against practically any liquid that can be pumped. A few of the more common conditions are as follows:

Warm or cold water, clear or gritty

Hot Water	Alkalis
Hot Oils	Fruit Juices
Acids	Cane Juices

Service on Vacuum Pumps

Garlock Valves range in hardness from very soft to glassy hard. The higher temperatures and pressures call for hard valves, the lower temperatures and pressures call for softer valves. This is a general recommendation and is subject to variations in individual installations, due to the size and thickness of valve and the chemical properties of the liquids. The most accurate way to order pump valves is to answer the following questions and allow us to ship the best pump valve for the condition:

1. Diameter of the valve and hole?
2. Thickness of the valve?
3. Exact nature of the liquid?
4. Temperature of the liquid?
5. Pressure against the valve?
6. Is it a straight guard or a curved guard pump?

PUMP VALVE SERVICE



Description of Pump Valves

Hard Valves

Garlock-108. Glassy hard black valve. Recommended for use in hot water, hot oils, gasoline, syrups, alkali, lye, etc., at high pressures.

Garlock-188. Hard black valve. This valve is not as hard as Garlock-108. It is recommended for warm water and cold water up to 300 pounds per square inch.

Garlock-182. This valve is slightly softer than Garlock-188. Recommended for cold water pressures up to 125 pounds per square inch.

Medium Valves

Garlock-175. Medium soft valve. Recommended for cold water and brine at pressures between 75 and 100 pounds per square inch.

Garlock-139. Medium soft valve. Recommended for cold water and brine at pressures up to 75 pounds per square inch.

Garlock-189. Medium soft white valve. Recommended for the same duties as Garlock-175.

Soft Valves

Garlock-154.
Very Soft Red Valve.

Garlock-151.
Very Soft Gray Valve.

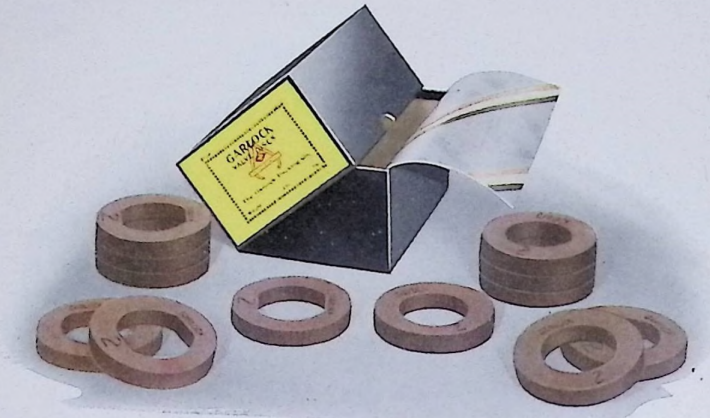
Garlock-152.
Very Soft Red Valve.

Garlock-197.
Very Soft White Valve.

The four valves listed in the left hand column are recommended for air and marine condenser service. They also will work satisfactorily on curved guard pumps. We have given special attention to marine condenser service and our valves for this work cannot be surpassed. We especially recommend Garlock-154 for lake and ocean marine condensers.

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VALVE DISC SERVICE



GARLOCK-111 VALVE DISCS

For all Globe and Angle Valves of the Standard Disc Type

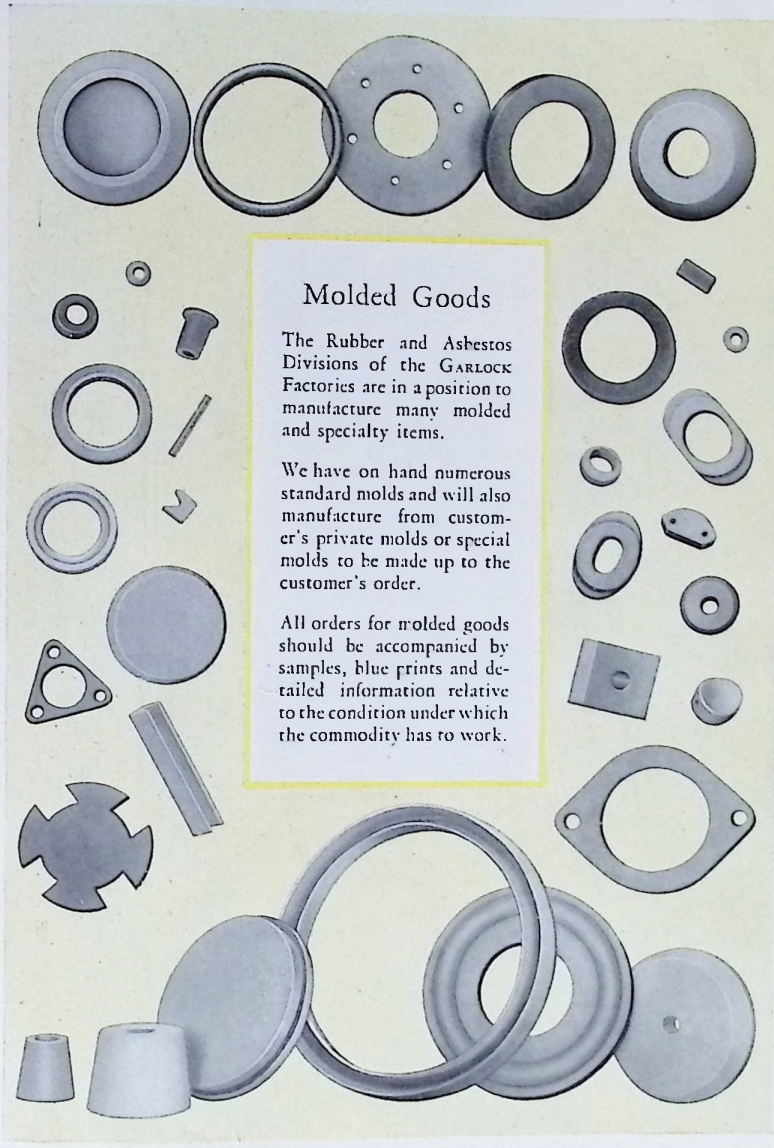
Garlock-111 Valve Discs are made from a heat-resisting compound, developed for use against particularly high steam pressures and temperatures. These discs will not swell, warp or crack. They are also recommended for hot oil, hot water and many acid conditions.

We also manufacture softer discs for work against cold water. Discs will also be furnished to meet the requirements of special conditions. In such cases the customer is to furnish all data relative to the condition and our laboratory will develop a special compound.

Garlock Valve Discs are manufactured in both the oval and round hole type and are of accurate dimensions. They also can be supplied in special shapes and sizes. The standard sizes are given in the price list below.

Size	Price Each	Size	Price Each	Size	Price Each
¼ inch	$0.03	2 inch	$0.18	6 inch	$1.00
⅜ inch	.04	2½ inch	.24	7 inch	1.20
½ inch	.04	3 inch	.40	8 inch	1.40
¾ inch	.05	3½ inch	.50	9 inch	1.80
1 inch	.06	4 inch	.60	10 inch	2.25
1¼ inch	.09	4½ inch	.70	12 inch	2.50
1½ inch	.12	5 inch	.80		

MOLDED SPECIALTY SERVICE



Molded Goods

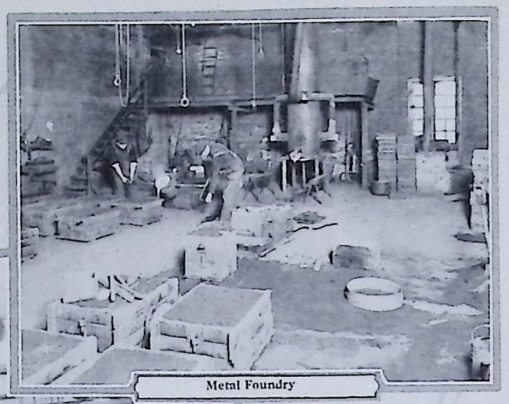
The Rubber and Asbestos Divisions of the Garlock Factories are in a position to manufacture many molded and specialty items.

We have on hand numerous standard molds and will also manufacture from customer's private molds or special molds to be made up to the customer's order.

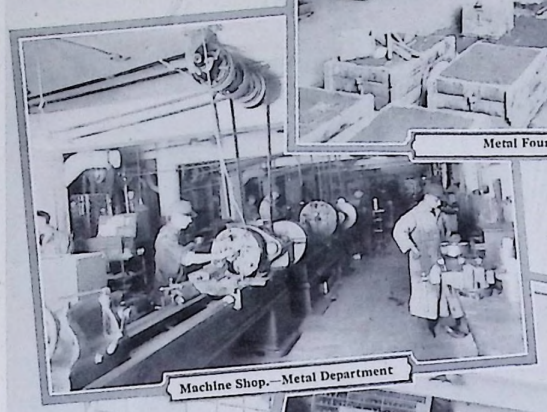
All orders for molded goods should be accompanied by samples, blue prints and detailed information relative to the condition under which the commodity has to work.

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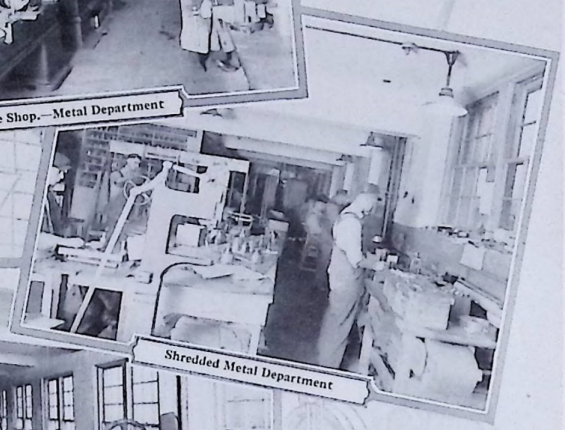
METAL PACKING DEPARTMENT



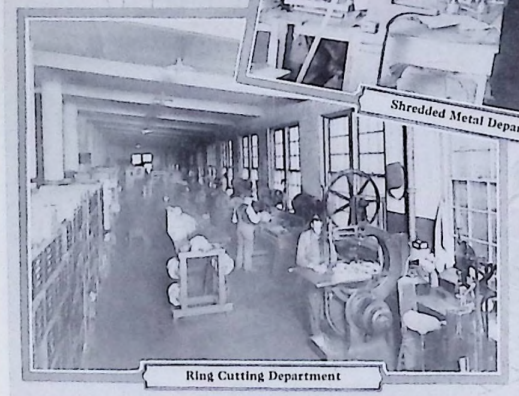
Metal Foundry



Machine Shop.—Metal Department



Shredded Metal Department



Ring Cutting Department

Photographs taken in The Garlock Packing Co's Plant

Garlock Metal Packing Service

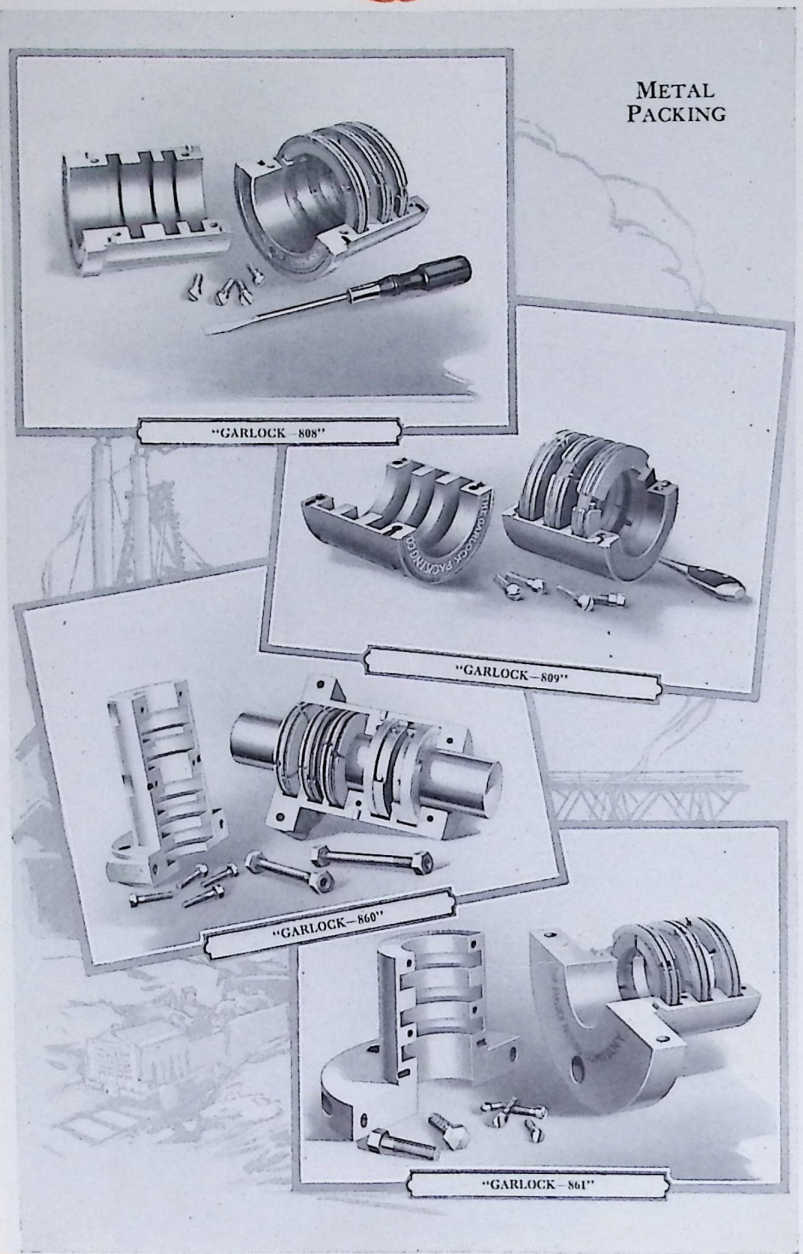
GARLOCK metal packings as placed on the market by THE GARLOCK PACKING COMPANY are mechanically right from the standpoint both of design and service. Their efficiency is the result of twenty-five years of manufacturing experience coupled with careful surveys made by our engineers to determine designs to work against the high temperatures and pressures of modern power units. The use of metal packing is not limited; it will give superior and economical service on certain classes of mechanical equipment when used on steam, air, gas, ammonia piston rods and valve stems.

Our Research Department gives special study to the mechanical details of the packings; we also maintain chemical and physical laboratories to determine different composition of alloyed metals in reference to their hardness and wearing qualities. It has been recognized that metal packing rings made from certain grades of cast iron will wear longer than rings of other suitable materials and for that reason our rings are made from a high grade iron which we know to be scientifically right.

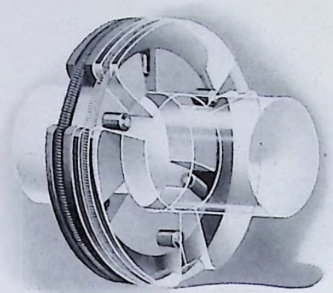
We are also in a position to furnish rings manufactured from bronze, babbitt and superheat metal all alloyed to our own specifications and to meet certain conditions for which iron rings are not adaptable.

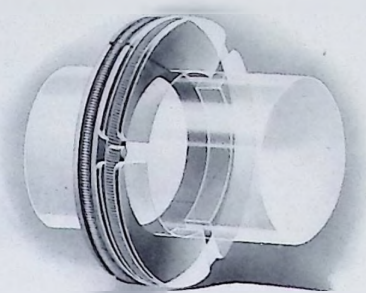
As a part of our metal packing service, we maintain a corps of Metal Packing Engineers who are at the call of our customers for consultation on special or difficult metal packing problems.

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METAL PACKING SERVICE


FLEXIBLE
RADIAL CUT RING


TANGENTIAL CUT RING

Flexible Metal Rings

GARLOCK metal packing rings of the flexible type cannot be equalled when long life, even distribution of wear and efficient holding qualities are considered.

The flexible type of ring is made up of several segments which are held to the rod with music wire garter springs placed in grooves on the outside circumference of the rings. These segments are designated as A, B and C rings. The A ring or segment is the wearing ring which bears on the rod. The B ring or segment is the brass cap ring resting on top of the A ring and the C ring or segment is the heavy ring on the outside toward the cylinder head.

As stated before, the A segments are the only parts which are subjected to wear, thus it is not always necessary or advisable to purchase an entire new set of rings when renewals are required. An additional set of A segments will generally add years of service to an old set of rings.

The B segments are made of bronze except when the application is to be made on a very large rod and then cast iron segments are furnished. The B rings do not come in contact with the rod and will not show appreciable wear after years of service.

The C segments as a rule are made of cast iron except for special conditions when the use of bronze or babbitt will give better service. They bear on the rod and break joints with the A segments. Under ordinary working conditions the C segments are, in a way, counter balanced by the pressure, thus enabling them to give many years of service with a minimum amount of wear.

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METAL PACKING SERVICE

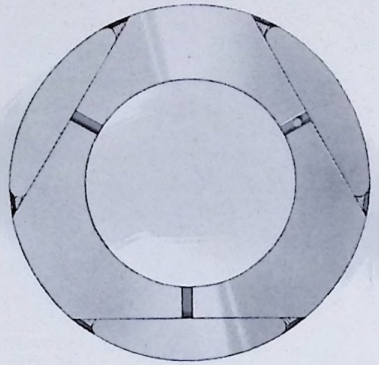
In order to obtain an equal distribution of wear on the rings, the ends of all segments are radial cut. The pressure joint is made between the B segments and the periphery of the A segments. This design gives a packing ring from which can be obtained long and satisfactory service and one that will not score the rod after becoming properly seated. The special design of the A, B and C segments and the method used in combining them is mechanically correct and so worked out that the friction on the rod is reduced to a minimum.

Tangential Cut Packing Rings

The flexible type is our standard metal packing ring, but we are also prepared to furnish the tangential cut ring. This type of ring is only used where limited stuffing box prohibits the use of the flexible ring or when it is specified by a customer.

Tangential cut rings of our manufacture are guaranteed to give complete satisfaction both as to wearing and holding qualities.

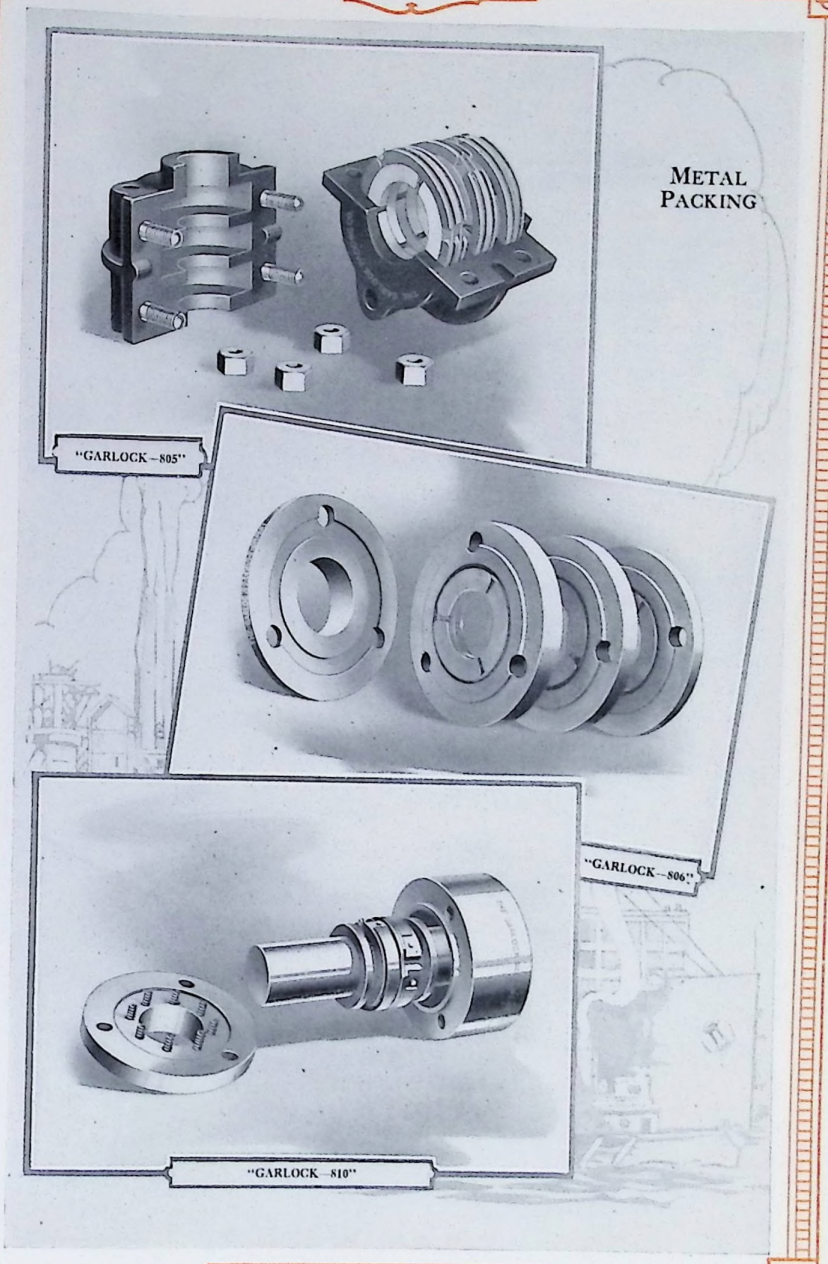
Triangular Cut Packing Rings



TRIANGULAR RING

Garlock Triangular Cut Rings will give the same good service as our Flexible Type Rings on like conditions. The design is that of a perfect equilateral triangle, which causes an equal distribution of wear on the rod bearing segments. These rings are furnished manufactured from cast iron to meet ordinary conditions, and if so specified can be produced from bronze or alloyed metals to handle special or unusual conditions.

The triangular cut ring can be used in any split or solid packing case designed for floating type ring.



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GARLOCK

METAL PACKING SERVICE

Instructions for Ordering Metal Packings

To manufacture satisfactorily an order of metal packing it is necessary to have numerous items of detailed information that ordinarily are not required in the production of fibrous packings.

On the opposite page is shown a typical specification blank applicable to orders for metal packing. In placing orders for the types listed in the left-hand column below, it is necessary that the specification blank questions referred to in the right hand column opposite the respective Garlock type numbers be answered in full.

Garlock-791	In ordering Garlock-791, answer questions 1 to 6 inclusive, 8, 19, 26 and 27.
Garlock-800	In ordering Garlock-800, answer questions 1 to 6 inclusive, 8, 16, 19, 20, 23 and 27.
Garlock-805 or Garlock-806	When ordering Garlock-805 or Garlock-806, answer questions 1 to 22 inclusive, and 26. When ordering Garlock-805 or Garlock-806, with screw gland, answer questions 1 to 6 inclusive, 8, 10, 14, 16 to 20 inclusive, 22 and 24 to 26 inclusive.
Garlock-808 or Garlock-809	In ordering Garlock-808 or Garlock-809, answer questions 1 to 6 inclusive, 8, 10, 15 to 20 inclusive, 26 and 27.
Garlock-810	In ordering Garlock-810, answer questions 1 to 22 inclusive, and 26.
Garlock-821	In ordering Garlock-821, answer questions 1 to 21 inclusive, 26 and 27.
Garlock-860	In ordering Garlock-860, answer questions 1 to 15 inclusive, and 20.
Garlock-861	In ordering Garlock-861, answer questions 1 to 20 inclusive, and 26.
Garlock-870	In ordering Garlock-870, answer questions 1 to 6 inclusive, 8, 19, 26 and 27.

GARLOCK

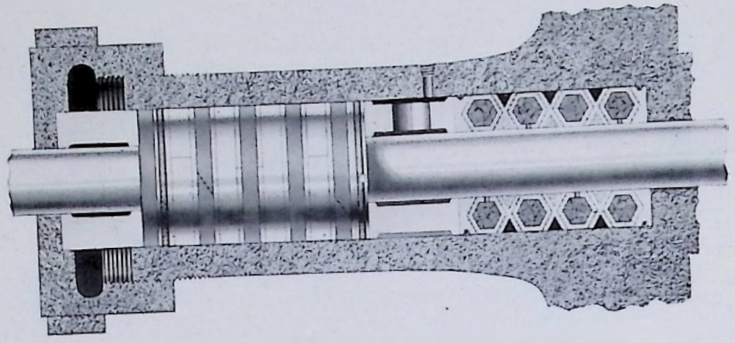
METAL PACKING SERVICE

Typical Specification Blank for Metal Packings

1. Name and Number of Engine
2. Name of Rod
3. Number of Sets
4. Style Number
5. Diameter of Rod
6. Diameter of Stuffing Box inside
7. Diameter of Stuffing Box or Flange of Gland outside
8. Depth of Stuffing Box measured along bore
9. Is Gland Round or Elliptical?
10. Diameter of Opening into Cylinder or Chest
11. Number and Size of Stud Bolts
12. Length of Stud Bolts
13. Diameter of Stud Circle
14. Clearance between Face of Stuffing Box and Cross Head
15. Is face of Stuffing Box or Cylinder Head Machined?
16. Is Engine Vertical or Horizontal?
17. If Vertical, does Piston come through Bottom or Top of Cylinder?
18. Does Water enter Cylinder in Large Quantities?
19. Give Pressure—Steam, Air, Gas or Ammonia
20. Piston Speed
21. Is Old Gland to be left on Engine?
22. What is Largest Diameter Case can be?
23. Single or Double Acting?
24. Outside Diameter of Threads on Stuffing Box
25. Number of Threads per 1 inch on Stuffing Box
26. If Superheated Steam give temperature
27. Is Bottom of Box Flat or Bevelled?

Garlock Packing Service: Catalog A-1925 (1927)
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METAL PACKING SERVICE



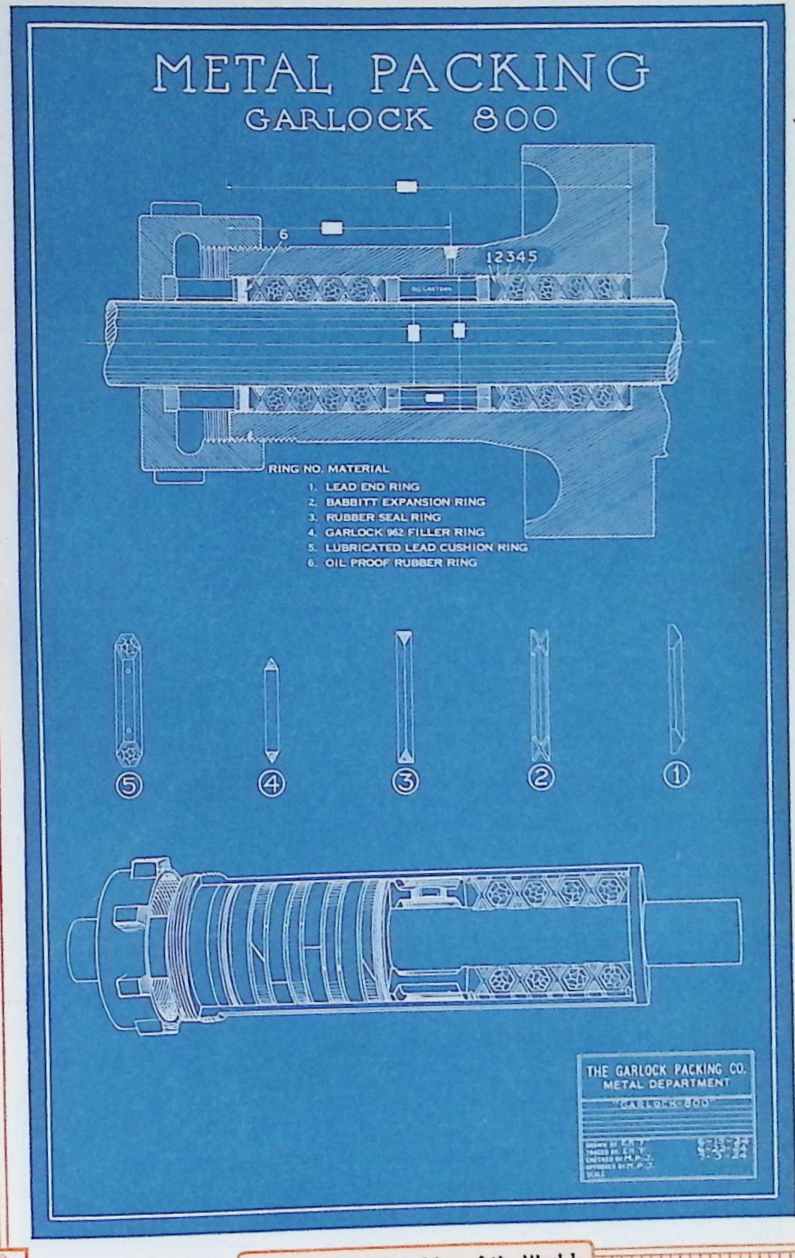
GARLOCK-800

Varitemp Metal Packing for Ammonia

Detailed Blue Print on page 135

Garlock-800 is one of our recent metal packing developments. From records obtained it gives exceptional service on ammonia compressors. Varitemp metal ammonia packing is built up in sections, each section consisting of one hexagonal ring and one X ring. It is applied in the stuffing box without a case. All parts are split which eliminates the necessity of disconnecting the rod. The hexagonal rings are hollow. They are filled with a fibre saturated with lubricant, which in service and under pressure flows on the rod through properly spaced emission holes. Rubber seal rings are held in place in the outer grooves of the X rings. These prevent the leakage of any oil or gas past the outside of the packing. The inner grooves of the X rings, which bear on the rod, are filled with moulded shredded metal thus obtaining an immediate and leak-proof bearing surface from the first stroke of the piston. The soft metal bearing surface will not cut or shoulder the rods. The scientific design of the packing and the method used in assembling, allow it to expand and contract with the varying degrees of temperature which prevail in ice and refrigerating machines.

Varitemp metal packing for ammonia is recommended for use on piston rods of single or double acting ammonia compressors that are not of the aqua ammonia type.



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METAL PACKING SERVICE

GARLOCK-791
Combination Metal Packing

Detailed Blue Print on page 137

GARLOCK-791 is a combination of metal and fibrous packing. It is furnished without a case and the entire set placed in the stuffing box. This type is made with all parts split. It can be applied without disconnecting the rod. A special grade of babbitt in either bronze or iron beveled cups is forced to the rod by means of gland pressure which is controlled by the operator. Between the metal rings are placed two or three rings of fibrous packing which act as a cushion and prevent the packing from being set up too tight.

GARLOCK-791 is recommended for use on outside packed plungers working against either hot or cold water.

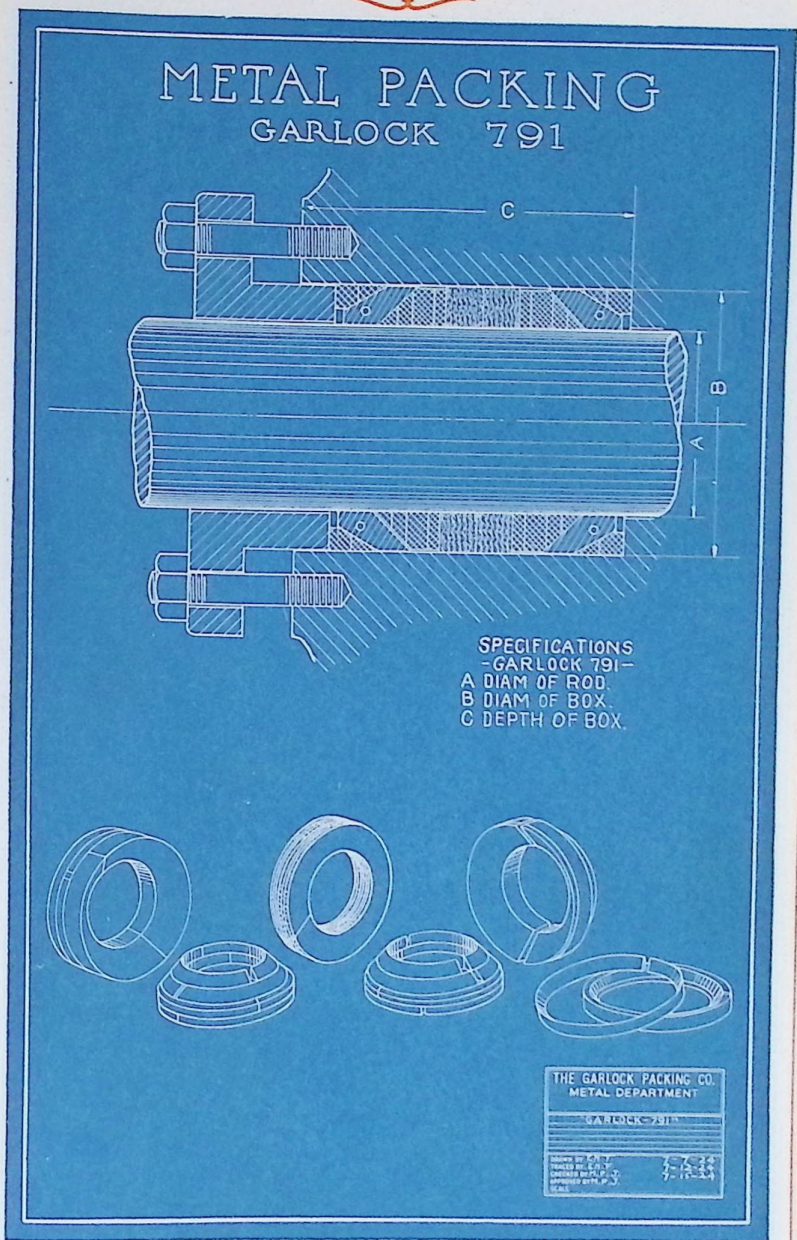
GARLOCK-870
Combination Metal Packing

Detailed Blue Print on page 138

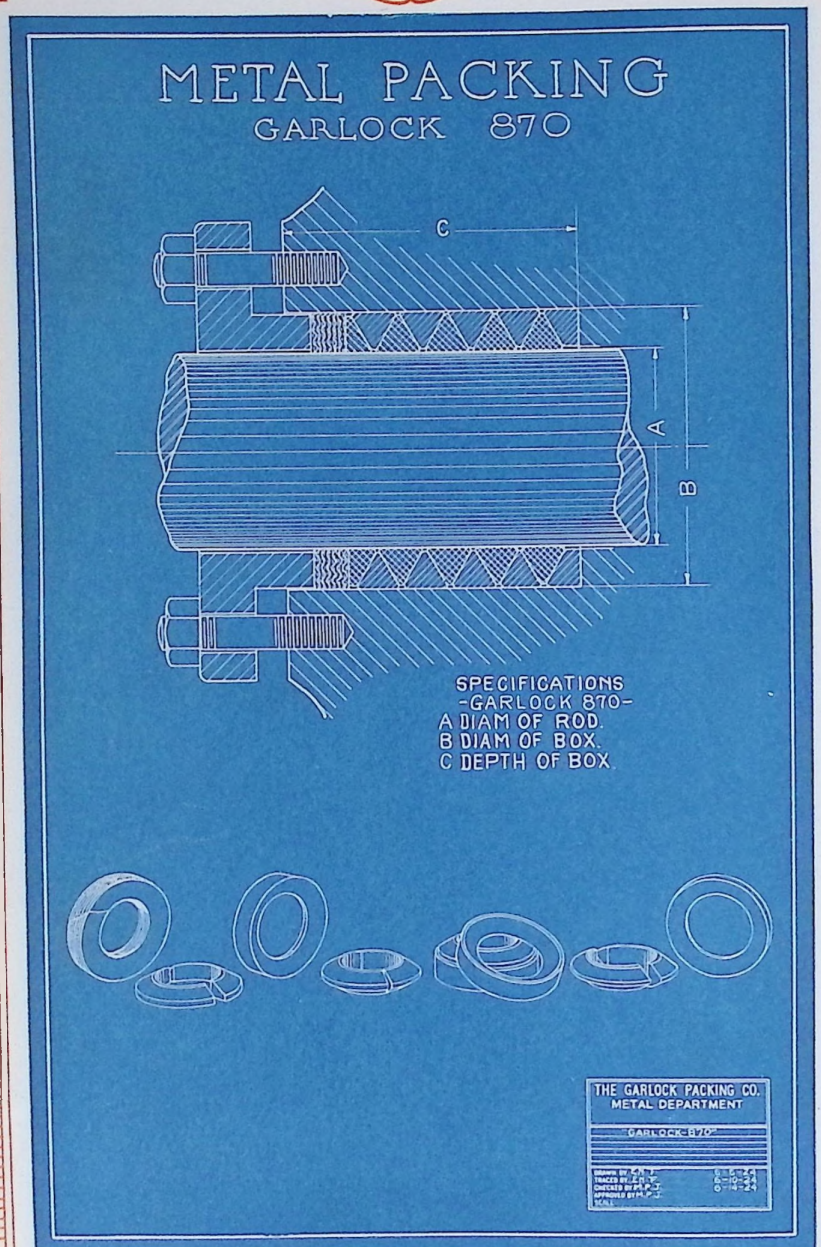
GARLOCK-870 is a combination metal packing put up in sets ready to be placed in the stuffing box without the use of a case. The wearing rings are made from babbitt either with iron, babbitt or rubber filler rings as the specific conditions may require. One or two rings of fibrous packing are furnished with each set. These rings act as a cushion and prevent setting up the packing too tight.

GARLOCK-870 is specially recommended for small piston rods and valve stems whose stuffing boxes do not provide sufficient space for the application of flexible type metal packing.

GARLOCK-870 gives excellent service in saw mill work and particularly on steam feed rods.



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METAL PACKING SERVICE

GARLOCK-805
Flexible Metal Packing

Detailed Blue Print on page 140
Illustrated on page 131

Garlock-805 is one of the most popular types of split case and flexible ring metal packing. In its application it is not necessary to disconnect the piston rod as it can be installed either by bolting the gland flange against the stuffing box or removing the gland entirely. In the first instance it is put in place against the gland head, but when the gland is removed a case is furnished with a turned hub, which enters the stuffing box approximately one inch. The hub type of case is centered around the rod and if emergency should require, the packing case can be used for a soft packing gland.

The general demand for Garlock-805 is due to the fact that cases can be furnished of different dimensions, shapes and designs to take care of each individual application. We have in stock hundreds of patterns of various dimensions for round, square and elliptical shaped cases split on either the long or short diameter. Provision for draining condensation from the case can be arranged when so ordered or specified; otherwise it will be supplied without drain connections.

Garlock-805 is recommended for service on piston rods and valve stems of steam engines, air or gas compressors and steam driven pumps.

GARLOCK-806
Flexible Metal Packing

Detailed Blue Print on page 141
Illustrated on page 131

Garlock-806 is an outside solid case packing which can be manufactured with any number of sections to take care of extremely high pressures. In installing this type of packing it is necessary to disconnect the rod, but renewal rings can be applied by backing off the stud bolts and separating the several sections comprising the case. A minimum clearance of three inches in front of the stuffing box is required for its application. It can be put in place either with or without the removal of the gland. When the gland is to be left on the engine the case will be furnished without the hub. Drain connection for removing condensation is provided when specified. The case for this type of packing can be furnished either round, square or elliptical in accordance with the customer's requirements.

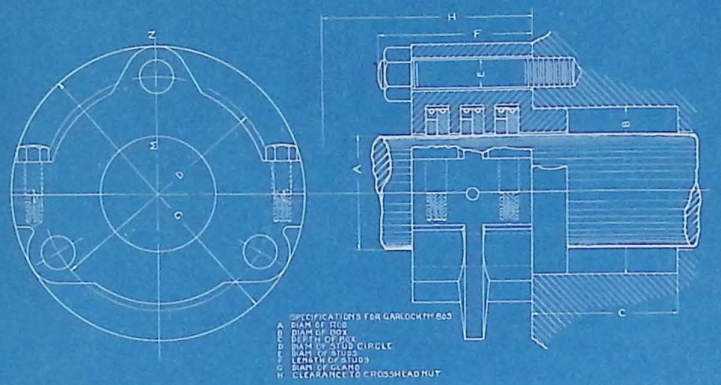
Garlock-806 is recommended for service on small rods and valve stems which ordinarily will permit the disconnection of the rods without a great deal of labor.

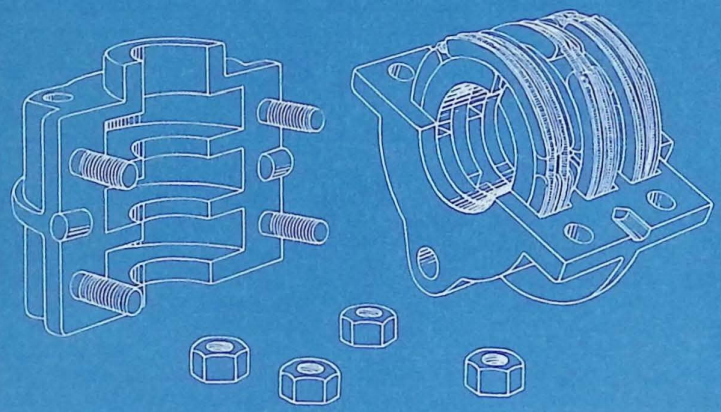
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GARLOCK

METAL PACKING

GARLOCK 805





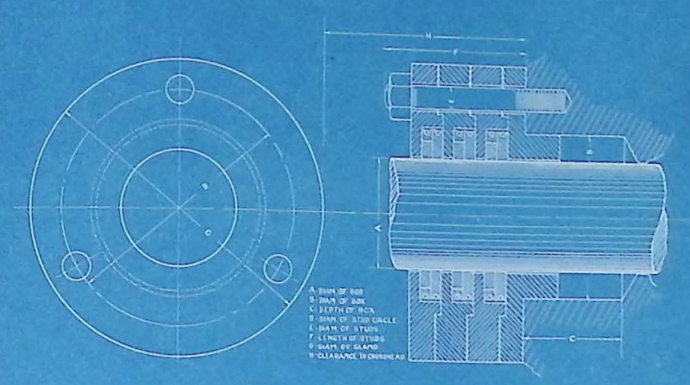
THE GARLOCK PACKING CO.
METAL DEPARTMENT

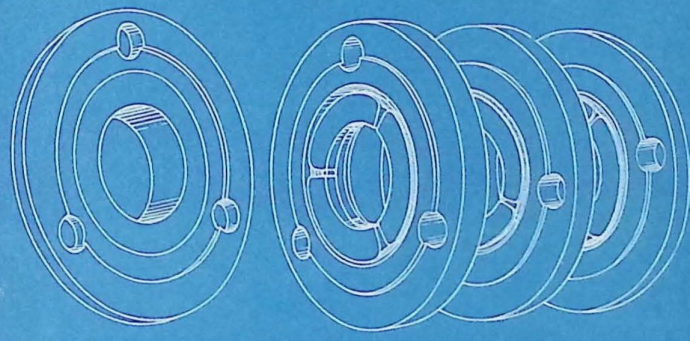
The Standard Packing of the World

GARLOCK

METAL PACKING

GARLOCK 806





THE GARLOCK PACKING CO.
METAL DEPARTMENT

The Standard Packing of the World

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METAL PACKING SERVICE

GARLOCK-808
Flexible Metal Packing

Detailed Blue Print on page 143
Illustrated on page 128

GARLOCK-808 is another of our split case types. It is usually furnished with three sections of flexible rings unless limited space necessitates the use of tangential cut rings. The number of rings that can be furnished in this style is governed entirely by the depth of the stuffing box. A copper wire gasket is imbedded in the flange of the case and comes in contact with the face of the stuffing box, forming a seal. A recess in the flange centers the packing gland around the rod. The case will take up approximately five-eighths of an inch in front of the stuffing box. Suitable drain pipe connections to take care of condensation are provided when specified.

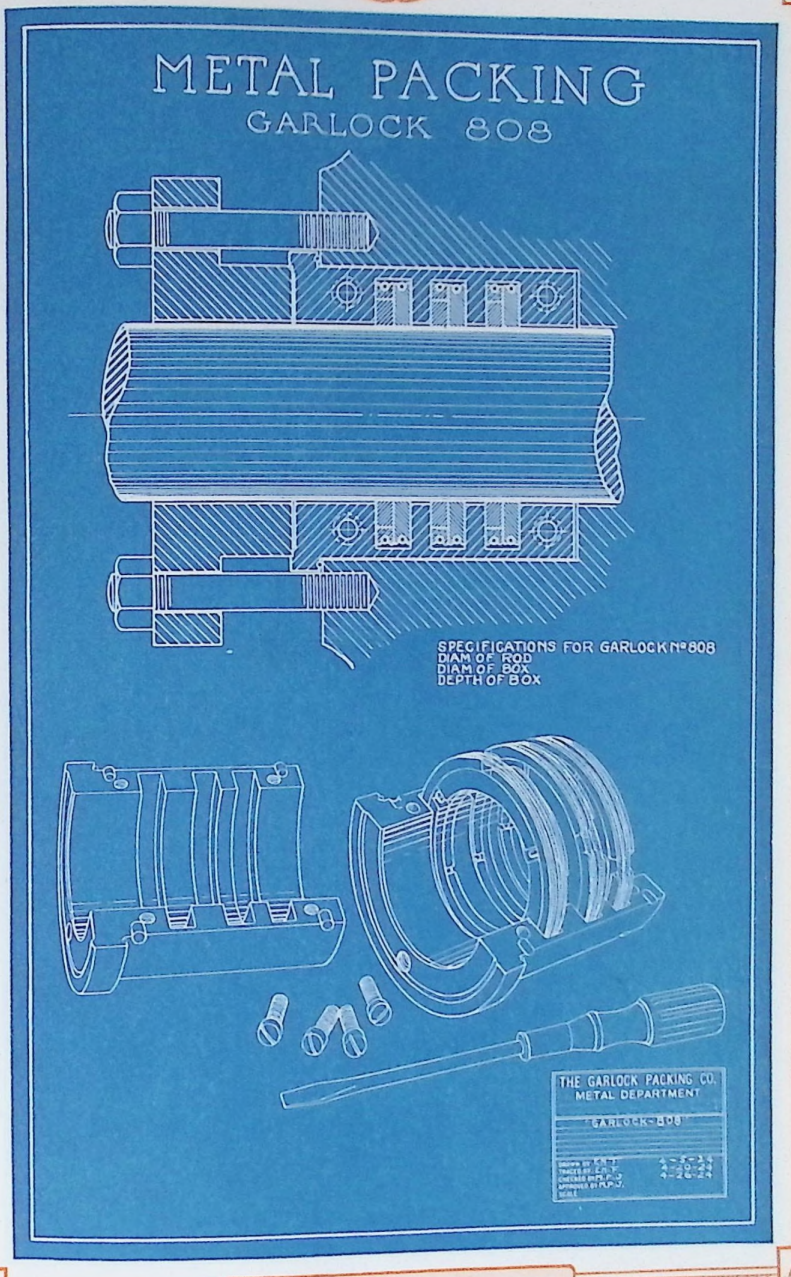
GARLOCK-808 is recommended for service on piston rods and valve stems of steam engines, air or gas compressors and steam driven pumps.

GARLOCK-809
Flexible Metal Packing

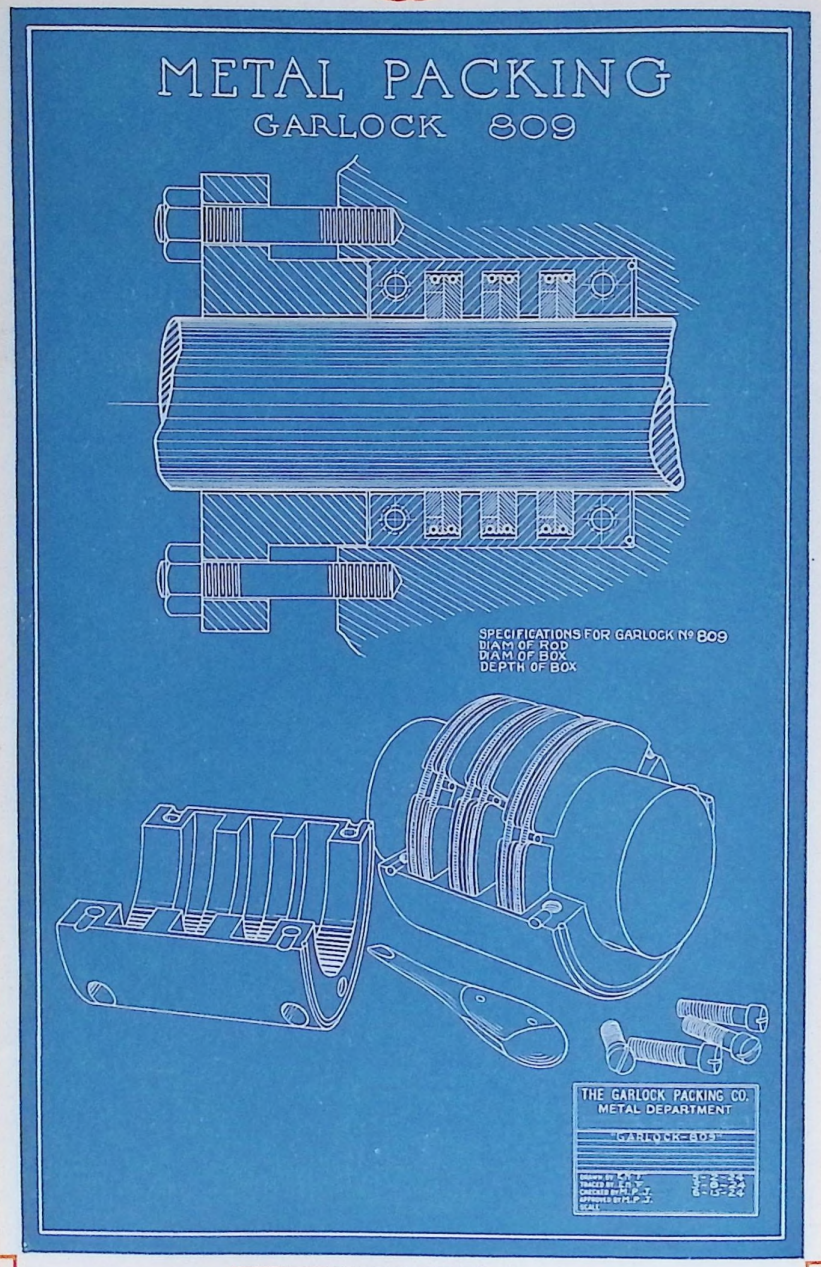
Detailed Blue Print on page 144
Illustrated on page 128

GARLOCK-809 is a split case type of metal packing so designed that the entire case is placed inside of the stuffing box. When packing space permits, flexible type wearing rings are furnished, but when the packing space is limited, the cases are equipped with tangential cut rings. So that economical service can be obtained from this type of packing, the packing space should be seven-eighths of an inch or over, as this allows for the furnishing of a substantial wearing ring. GARLOCK-809 can be furnished with additional ring sections to accommodate high pressures.

GARLOCK-809 is recommended for service on steam and air piston rods and valve stems where the working pressure will not exceed 150 pounds.



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METAL PACKING SERVICE

GARLOCK-810
Flexible Metal Packing

Detailed Blue Print on page 146
Illustrated on page 131

Garlock-810 is manufactured with either a split or solid case. All wearing parts are babbitt and bronze metal alloyed to our own specifications. A special design of the segments entirely eliminates any possibility of their breaking when operating under heavy loads. This feature makes Garlock-810 particularly desirable for use on large rods of reversing and blowing engines.

Garlock-810 will give excellent service on high and low pressure steam and air rods and also on valve stems.

GARLOCK-821
Flexible Metal Packing

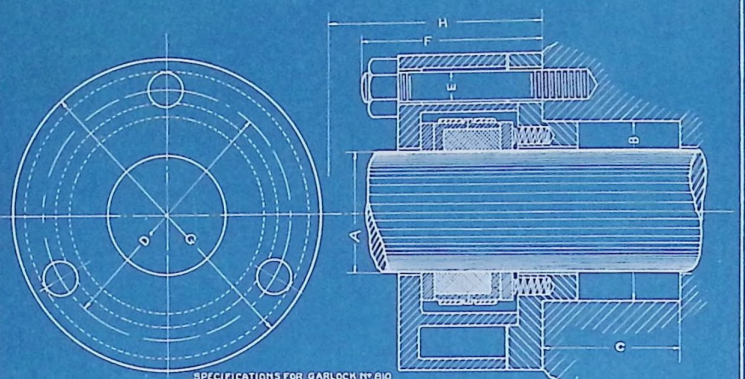
Detailed Blue Print on page 147

Garlock-821 is a solid sectional case type of metal packing made up of four or five sections of cups. These sections or cups enclose flexible metal packing rings. Garlock-821 is furnished so that the entire sectional case goes inside of the stuffing box. The first section is copper wire gasketed and makes contact in the bottom of the stuffing box. The balance of the sections have ground joints which become perfectly tight when drawn up by the means of the flange. When an unusual amount of water or condensation is present, the rings are made of a special grade of bronze. This packing can be furnished in any number of sections so as to render service on either high pressure or low pressure rods. A water connection is always provided to take care of condensation.

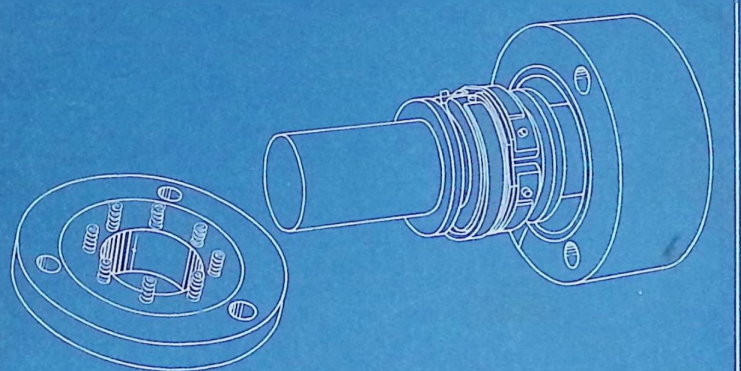
Garlock-821 is recommended for service on vertical and marine engines.

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METAL PACKING
GARLOCK 810

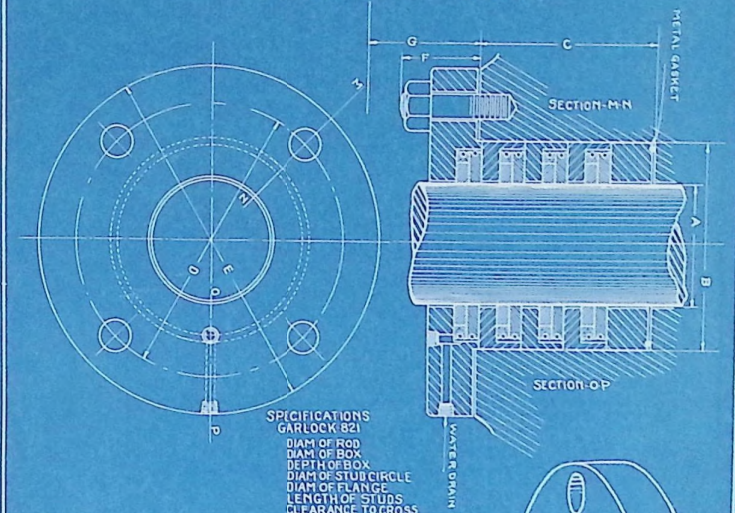


SPECIFICATIONS FOR GARLOCK Nº 810
A DIAM OF ROD
B DIAM OF BOX
C DEPTH OF BOX
D DIAM OF STUD CIRCLE
E DIAM OF STUDS
F LENGTH OF STUDS
G DIAM OF GLAND
H CLEARANCE TO CROSSHEAD NUT

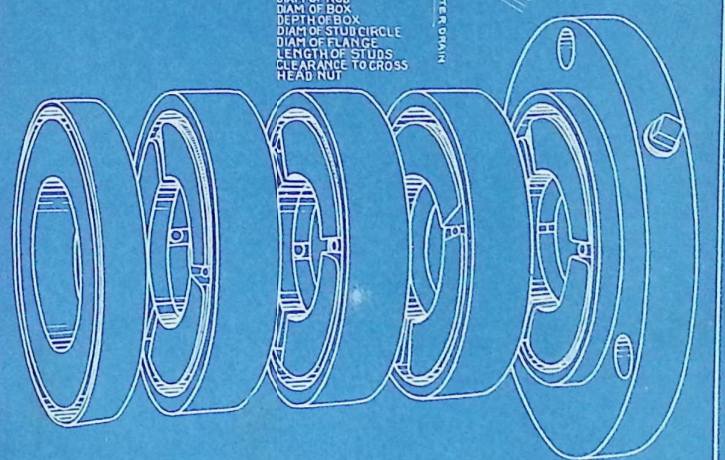


THE GARLOCK PACKING CO.
METAL DEPARTMENT
"GARLOCK 810"

METAL PACKING
GARLOCK 821



SPECIFICATIONS
GARLOCK 821
DIAM OF ROD
DIAM OF BOX
DEPTH OF BOX
DIAM OF STUD CIRCLE
DIAM OF FLANGE
LENGTH OF STUDS
CLEARANCE TO CROSS HEAD NUT



THE GARLOCK PACKING CO.
METAL DEPARTMENT

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METAL PACKING SERVICE

GARLOCK-860
Flexible Metal Packing

Detailed Blue Print on page 149
Illustrated on page 128

GARLOCK-860 is furnished either with a split or solid case; however, it is recommended that a split case be used whenever possible. The rings in this type of packing are made from specially alloyed cast iron and cut somewhat differently from our regular flexible rings. This cut reduces the clearance space to the minimum and gives a maximum amount of wear before the segments butt ends. Cast iron snap rings replace the steel garter springs in the breaker rings on this type of packing. Two breaker rings and three sections of iron packing rings are regularly furnished; however, the number of rings can be increased or reduced to meet specific conditions.

GARLOCK-860 is recommended for use on piston rods of explosive gas engines. It has been furnished for a period of over twenty years for this purpose. Our engineers have given careful study to its application and the conditions under which it has to work.

GARLOCK-861
Flexible Metal Packing

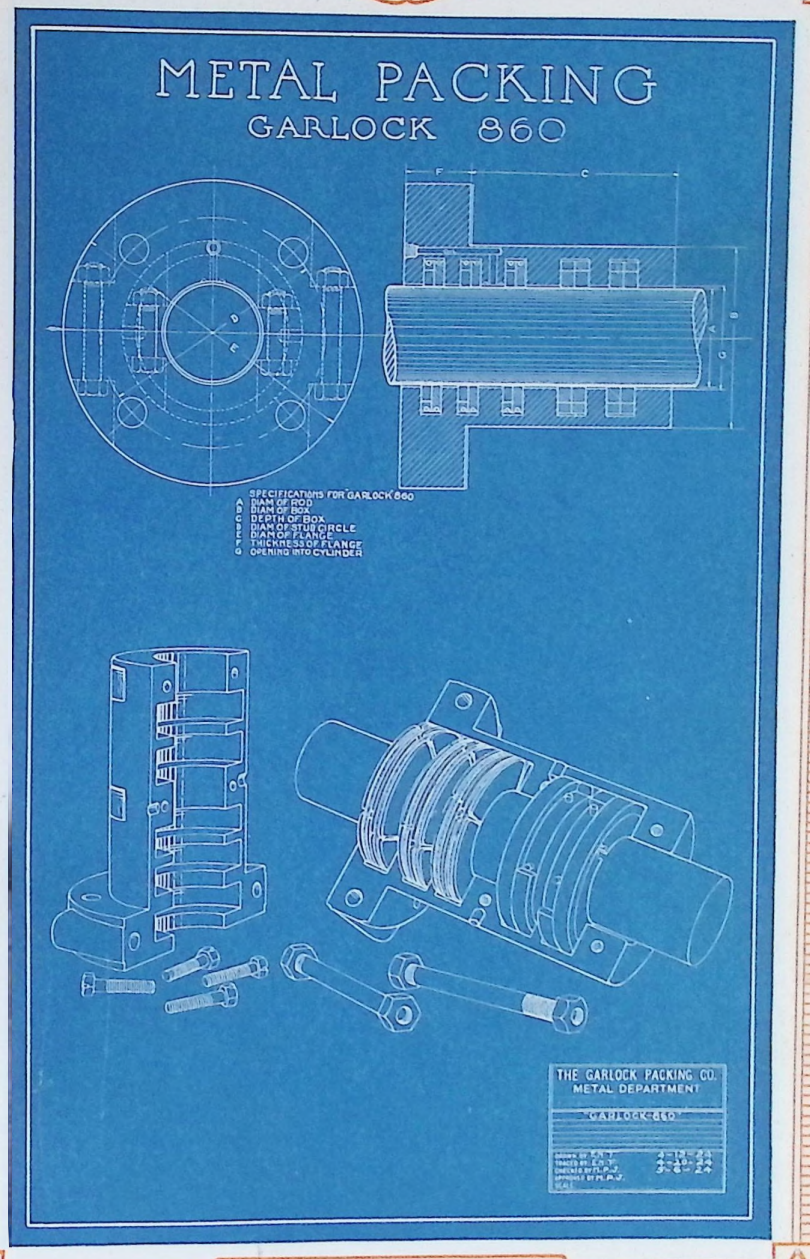
Detailed Blue Print on page 150
Illustrated on page 128

GARLOCK-861 is a split case type flexible metal packing with stud bolt flange. It is furnished with three sections of flexible metal rings, except where limited space necessitates the use of the tangential cut rings. Suitable oil ways and drain connections are provided when so specified. GARLOCK-861 can be furnished made up of four, five or six sections for use on high pressure air and steam rods.

It is particularly recommended for use of engine builders as this type eliminates the necessity of furnishing a stuffing box gland.

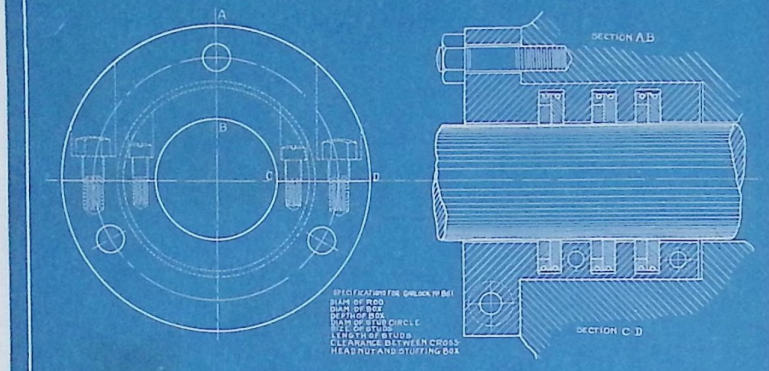
GARLOCK-271
Solid Metal Bushing Ring

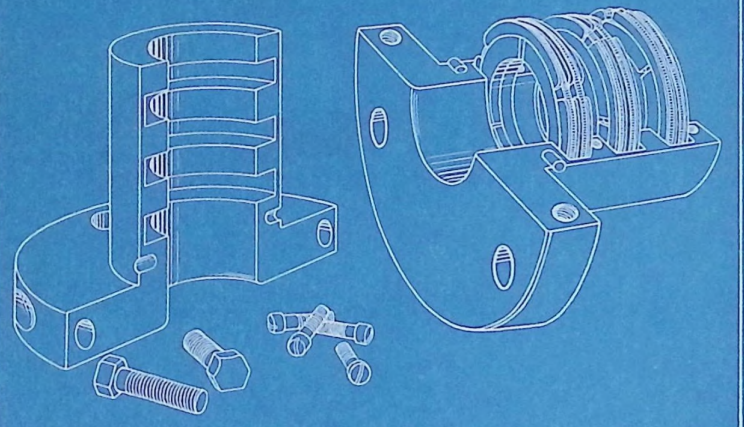
GARLOCK-271 is a solid metal bushing ring made to given dimensions. It is manufactured either of babbitt, cast iron or bronze as may be specified.



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METAL PACKING
GARLOCK 861





THE GARLOCK PACKING CO.
METAL DEPARTMENT
"GARLOCK 861"

DRAWN BY	8-8-24
TRACED BY	8-14-24
CHECKED BY	8-18-24
APPROVED BY	
SCALE	

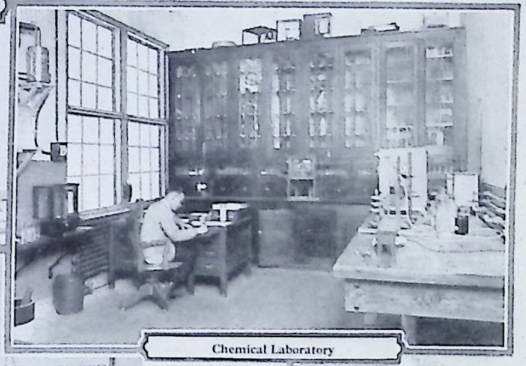


Inspection Before Shipment

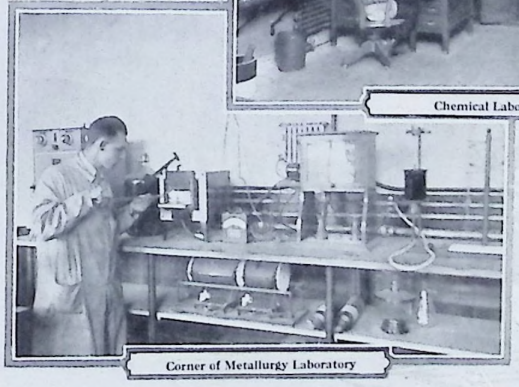


Testing Ring For Hardness

ANALYTICAL AND TESTING DEPARTMENT

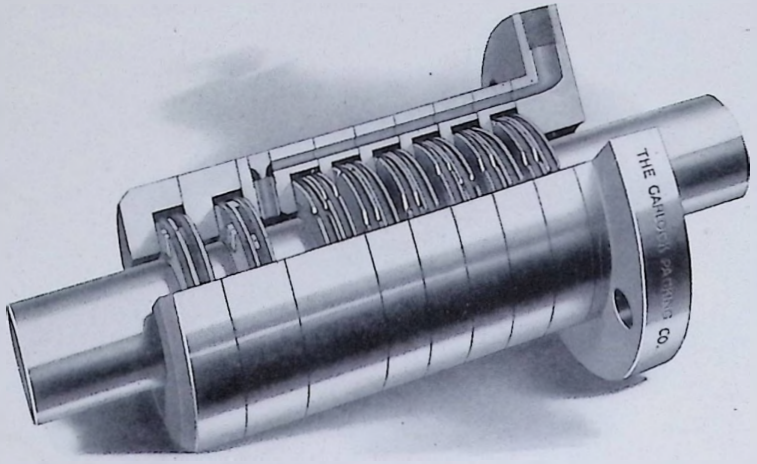


Chemical Laboratory



Corner of Metallurgy Laboratory

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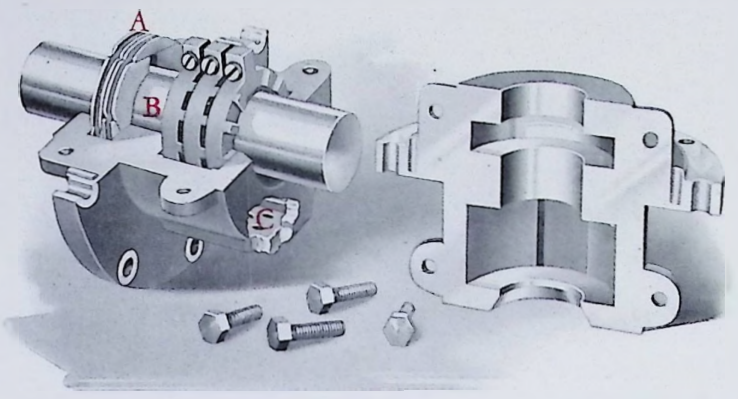


GARLOCK-875
Gas Compressor Metal Packing

GARLOCK-875 High Stage Gas Compressor Metal Packing (8 section) and GARLOCK-875 Low Stage Gas Compressor Metal Packing (5 section) were primarily designed for gas compressor service and placed on the market after a long period of engineering research and experimental work. This packing is easily applied, will not cut or score the rod and cannot blow out. When placed on piston rods in good condition, and kept well lubricated, it practically becomes a fixed part of the compressor.

High Stage Packing is made up with eight sections. Two sections nearest the bottom of the box are pressure scraper rings. The knife-like edge of the rings will remove the grit or sand from the rod and deposit it in ports or pockets provided for the purpose. These rings also help break down the pressure, preventing its full force from reaching the packing ring. Six sections of double acting packing rings complete the set. Each section of rings are held separately in solid ring retainer cups that can be remachined on the wide surface when they become worn.

The Low Stage Packing is practically the same as described above with the exception that it has fewer packing rings and the pressure scraper rings are eliminated when the compressor is working against clean gas.



Garlock Oil Return Wall Plate Metal Packing for Gas and Air Compressors

Replace the inefficient Oil Wiper Packing in your Wall Plate Stuffing Box with GARLOCK All Metal Oil Return Wall Plate Packing, or specify it to be placed on the next lot of gas and air compressors purchased. It absolutely eliminates oil waste and on many installations it has paid for itself in thirty days by the amount of oil saved.

It is positive in action, as it will wipe every drop of oil from the compressor piston rod and return it freely to the crank case. In addition to the oil wiper feature this packing is so designed that it will take care of the vacuum and low pressure on certain types of power cylinders. The whole assembly in either split or solid case is bolted to the partition wall plate after the stuffing box has been removed. The mechanical details of the packing as shown on the illustration are as follows:

A—Represents the pressure-vacuum ring which faces the cylinder side of the wall plate.

B—Represents three oil wiper rings of the improved type.

C—Represents holes in the bottom half of the split case through which the oil returns to the crank case.

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METAL PACKING SERVICE

Hints for Application of Metal Packings

Each individual set of GARLOCK metal packing is built to the exact measurements and specifications placed on the order. There is always a chance however, that measurements have been incorrectly taken or rod sizes have changed between the time of taking measurements and application of the packing. To guard against this remote possibility of error, it is always desirable that each set of rings be checked prior to final application.

This check can be made by the user by rubbing one of the A or C segments on the rod until it shows bearing marks. Examination of these marks will then indicate whether the ring may be expected to wear to a proper fit within a reasonable time. If the segments show bearing marks only on the ends, the rings are too small and if the bearing is only in the center, they are too large. If the test shows either of the above mentioned faults, the packing should not be placed in service until the rings are either corrected or replaced.

In the installation of metallic packing the following procedure should be followed:

1. Snap two springs around the rod.
2. Apply the B segments of a single section under one spring.
   Exception—On large rods where the number of segments comprising one section of rings is greater than for small rods, the application of two B segments followed by one A segment will provide the spring tension necessary to hold these three parts in place until the balance of the B segments is applied.
3. Place one A segment at a time under the B segments, with the dowel pin in each A segment pointing toward the stuffing box.
4. Place the three C segments in position under the second spring. These segments should be on the pressure side of the A and B segments.
5. Draw together the A and B segments and the C segments in such a way that the dowels in the A segments come in place between the ends of the C segments.
6. Assemble the remaining sections of the complete packing in the manner just described for the first section.
7. Space the several sections of rings in proper positions to match the grooves in the metallic packing case.
8. Fit one half of the case over the ring and if possible turn this half case entirely around the rod. This rotation will line up the rings so that the other half of the case can be placed over them without difficulty.
9. Make sure that the ground joint between the two halves of the case is free from dirt or foreign matter; then set up the screws or bolts which hold the parts of the case together.

METAL PACKING SERVICE

NOTES

GASKETS

Several types of GARLOCK metal packing cases are equipped with copper gaskets for forming a seal between the metal packing case and the stuffing box or cylinder head. All other styles must be provided with gaskets cut from a high grade heat resisting sheet packing, such as GARLOCK-900. The asbestos fibre gasket will be furnished when so specified on the order.

Descriptions of the various types of GARLOCK metal packings as given on other pages of the catalog, designate the cases that are furnished with copper gaskets.

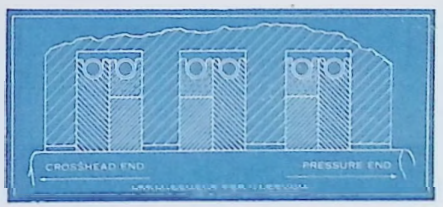
HIGH PRESSURE RODS

When applying GARLOCK flexible metal packing to high pressure rods or to rods on which no vacuum is to be held, all sections must be placed with the wide or C segments facing the pressure.



VACUUM

When rings are used in vacuum service, reverse the parts of the metallic packing sections nearest the cross head so that the wide or C segments will be on the cross head side.



TANGENTIAL RINGS

Tangential rings are applied by the method that has been described for the flexible type ring. Bear in mind that the tangential rings occupy the same relative position as the A and B rings in the flexible type. The C rings in both types are exactly the same in construction and in both instances perform the same functions.

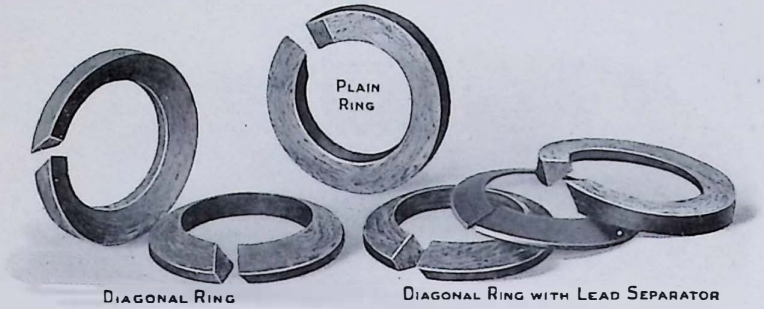
All tangential cut rings are lettered and have their ends numbered. It is absolutely necessary that they be assembled so that the letters and numbers at the adjacent ends of any two segments be identical.

LUBRICATION

Proper lubrication with a high grade of non-asphaltic lubricating oil is essential to the successful use of metal packing. No installation is complete until correct mechanical means has been provided to return or deliver the oil to the proper point on the rod.

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METAL PACKING SERVICE



SHREDDED METAL PACKING

The construction and design of GARLOCK Shredded Metal Packings have been given careful study. The commodity has a workmanlike finish. Only the best materials are used in its construction. The long strands are cut by a special process from sheets of babbitt metal. The strands are then treated with a binding compound and pure flake graphite which insures thorough and permanent lubrication. The material used in forming and lubricating the shredded metal gives a packing of good wearing qualities and one that will not cut or score steel, bronze or iron rods or plungers.

In addition to the loose, twisted and rolled coils GARLOCK Shredded Metal Packings are put up both in plain and diagonal ring form, also diagonal rings with a thin lead separator cone which gives greater compression value, and in coils of a minimum size of ¼ inch ranging upward by sixteenths. All rings are moulded in special dies and guaranteed to be the exact size specified.

GARLOCK Shredded Metal Packings are recommended for service on Corliss and reciprocating valve stems, steam and air piston rods, centrifugal pumps handling hot or cold water, steam turbine shafts, swing joints and outside packed cold water plungers. It is not recommended for use where temperatures prevail above 600 degrees F.

HIGH TEMPERATURE SHREDDED METAL PACKING



GARLOCK High Temperature Shredded Metal Packing is manufactured by the same process as described above except the shreds are special metal floss that will resist temperatures up to 1500 degrees Fahrenheit.



The packing is recommended for service on Valve Stems and Piston Rods where high temperatures are encountered. It will also give complete satisfaction working against hot petroleum products.

Type numbers listed on opposite page.

METAL PACKING SERVICE



SHREDDED METAL PACKING

FINE STRAND

GARLOCK-998	Straight coil, loose
GARLOCK-988	Twisted coil, rolled
GARLOCK-968	Plain ring
GARLOCK-948	Diagonal ring
GARLOCK-938	Diagonal ring, lead cone

GROOVED STRAND

GARLOCK-992	Straight coil
GARLOCK-982	Twisted coil
GARLOCK-962	Plain ring
GARLOCK-942	Diagonal ring
GARLOCK-932	Diagonal ring, lead cone

CRIMPED STRAND

GARLOCK-999 (lead wool)	Rolled coil
GARLOCK-969	Plain ring
GARLOCK-949	Diagonal ring
GARLOCK-939	Diagonal ring, lead cone

HIGH TEMPERATURE SHREDDED METAL PACKING

GARLOCK-934	Plain Ring
GARLOCK-935	Rings in Sets

See page 156 for description

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METAL PACKING SERVICE

GARLOCK Metal Bushing Rings

GARLOCK metal bushing rings are manufactured of cast iron, bronze or babbitt in any size or shape. Split babbitt rings held together with a steel garter spring are always furnished unless otherwise specified.

These rings are recommended for use in the bottom of stuffing boxes to close up the opening into the cylinder after rods have been worn or turned down.

The following plates illustrate the standard rings and the descriptive matter outlines the service each will render.



BUSHING RING—GARLOCK-72

For changing the contour of the bottom of a stuffing box from oval to bevelled.





BUSHING RING—GARLOCK-171

For bushing a flat bottom stuffing box.





BUSHING RING—GARLOCK-170

For changing the contour of the bottom of a stuffing box from bevel to flat.





BUSHING RING—GARLOCK-71

For changing the contour of the bottom of a stuffing box from flat to bevelled.





BUSHING RING—GARLOCK-172

For changing the contour of the bottom of a stuffing box from oval to flat.





BUSHING RING—GARLOCK-70

For bushing a bevelled bottom stuffing box and retaining the bevel.



When ordering GARLOCK bushing rings, give the diameters of the rod and stuthng box and also the bevel of the bottom of the box if this is necessary.

ENGINEERING DATA

Table of Decimal Equivalents of Millimeters and Fractions of Millimeters

1/100 B = .0003937 in.

mm.	Inches	mm.	Inches	mm.	Inches	mm.	Inches	mm.	Inches
1/50	= .00079	30/50	= .02362	10	= .39370	40	= 1.57480	69	= 2.71653
2/50	= .00157	31/50	= .02441	11	= .43307	41	= 1.61417	70	= 2.75590
3/50	= .00236	32/50	= .02520	12	= .47244	42	= 1.65354	71	= 2.79527
4/50	= .00315	33/50	= .02598	13	= .51181	43	= 1.69291	72	= 2.83464
5/50	= .00394	34/50	= .02677	14	= .55118	44	= 1.73228	73	= 2.87401
6/50	= .00472	35/50	= .02756	15	= .59055	45	= 1.77165	74	= 2.91338
7/50	= .00551	36/50	= .02835	16	= .62992	46	= 1.81102	75	= 2.95275
8/50	= .00630	37/50	= .02913	17	= .66929	47	= 1.85039	76	= 2.99212
9/50	= .00709	38/50	= .02992	18	= .70866	48	= 1.88976	77	= 3.03149
10/50	= .00787	39/50	= .03071	19	= .74803	49	= 1.92913	78	= 3.07086
11/50	= .00866	40/50	= .03150	20	= .78740	50	= 1.96850	79	= 3.11023
12/50	= .00945	41/50	= .03228	21	= .82677	51	= 2.00787	80	= 3.14960
13/50	= .01024	42/50	= .03307	22	= .86614	52	= 2.04724	81	= 3.18897
14/50	= .01102	43/50	= .03386	23	= .90551	53	= 2.08661	82	= 3.22834
15/50	= .01181	44/50	= .03465	24	= .94488	54	= 2.12598	83	= 3.26771
16/50	= .01260	45/50	= .03543	25	= .98425	55	= 2.16535	84	= 3.30708
17/50	= .01339	46/50	= .03622	26	= 1.02362	56	= 2.20472	85	= 3.34645
18/50	= .01417	47/50	= .03701	27	= 1.06299	57	= 2.24409	86	= 3.38582
19/50	= .01496	48/50	= .03780	28	= 1.10236	58	= 2.28346	87	= 3.42519
20/50	= .01575	49/50	= .03858	29	= 1.14173	59	= 2.32283	88	= 3.46456
21/50	= .01654	1	= .03937	30	= 1.18110	60	= 2.36220	89	= 3.50393
22/50	= .01732	2	= .07874	31	= 1.22047	61	= 2.40157	90	= 3.54330
23/50	= .01811	3	= .11811	32	= 1.25984	62	= 2.44094	91	= 3.58267
24/50	= .01890	4	= .15748	33	= 1.29921	63	= 2.48031	92	= 3.62204
25/50	= .01969	5	= .19685	34	= 1.33858	64	= 2.51968	93	= 3.66141
26/50	= .02047	6	= .23622	35	= 1.37795	65	= 2.55905	94	= 3.70078
27/50	= .02126	7	= .27559	36	= 1.41732	66	= 2.59842	95	= 3.74015
28/50	= .02205	8	= .31496	37	= 1.45669	67	= 2.63779	96	= 3.77952
29/50	= .02283	9	= .35433	38	= 1.49606	68	= 2.67716	97	= 3.81889
				39	= 1.53543			98	= 3.85826
								99	= 3.89763
								100	= 3.93700

10 mm. = 1 Centimeter = 0.3937 inches
10 cm. = 1 Decimeter = 3.937 inches

10 dm. = 1 Meter = 39.37 inches
25.4 mm. = 1 English inch

of 8ths, 16ths, 32ds, and 64ths of an inch

8ths		32ds		64ths	
1/8	= .125	1/32	= .03125	1/64	= .015625
1/4	= .250	3/32	= .09375	3/64	= .046875
3/8	= .375	5/32	= .15625	5/64	= .078125
1/2	= .500	7/32	= .21875	7/64	= .109375
5/8	= .625	9/32	= .28125	9/64	= .140625
3/4	= .750	11/32	= .34375	11/64	= .171875
7/8	= .875	13/32	= .40625	13/64	= .203125
		15/32	= .46875	15/64	= .234375
16ths		17/32	= .53125	17/64	= .265625
1/16	= .0625	19/32	= .59375	19/64	= .296875
3/16	= .1875	21/32	= .65625	21/64	= .328125
5/16	= .3125	23/32	= .71875	23/64	= .359375
7/16	= .4375	25/32	= .78125	25/64	= .390625
9/16	= .5625	27/32	= .84375	27/64	= .421875
11/16	= .6875	29/32	= .90625	29/64	= .453125
13/16	= .8125	31/32	= .96875	31/64	= .484375
15/16	= .9375			33/64	= .515625
				35/64	= .546875
				37/64	= .578125
				39/64	= .609375
				41/64	= .640625
				43/64	= .671875
				45/64	= .703125
				47/64	= .734375
				49/64	= .765625
				51/64	= .796875
				53/64	= .828125
				55/64	= .859375
				57/64	= .890625
				59/64	= .921875
				61/64	= .953125
				63/64	= .984375

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ENGINEERING DATA

Fahrenheit and Centigrade Conversion Table

Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.
0	32	260	500	520	968	780	1436	1040	1904
5	41	265	509	525	977	785	1445	1045	1913
10	50	270	518	530	986	790	1454	1050	1922
15	59	275	527	535	995	795	1463	1055	1931
20	68	280	536	540	1004	800	1472	1060	1940
25	77	285	545	545	1013	805	1481	1065	1949
30	86	290	554	550	1022	810	1490	1070	1958
35	95	295	563	555	1031	815	1499	1075	1967
40	104	300	572	560	1040	820	1508	1080	1976
45	113	305	581	565	1049	825	1517	1085	1985
50	122	310	590	570	1058	830	1526	1090	1994
55	131	315	599	575	1067	835	1535	1095	2003
60	140	320	608	580	1076	840	1544	1100	2012
65	149	325	617	585	1085	845	1553	1105	2021
70	158	330	626	590	1094	850	1562	1110	2030
75	167	335	635	595	1103	855	1571	1115	2039
80	176	340	644	600	1112	860	1580	1120	2048
85	185	345	653	605	1121	865	1589	1125	2057
90	194	350	662	610	1130	870	1598	1130	2066
95	203	355	671	615	1139	875	1607	1135	2075
100	212	360	680	620	1148	880	1616	1140	2084
105	221	365	689	625	1157	885	1625	1145	2093
110	230	370	698	630	1166	890	1634	1150	2102
115	239	375	707	635	1175	895	1643	1155	2111
120	248	380	716	640	1184	900	1652	1160	2120
125	257	385	725	645	1193	905	1661	1165	2129
130	266	390	734	650	1202	910	1670	1170	2138
135	275	395	743	655	1211	915	1679	1175	2147
140	284	400	752	660	1220	920	1688	1180	2156
145	293	405	761	665	1229	925	1697	1185	2165
150	302	410	770	670	1238	930	1706	1190	2174
155	311	415	779	675	1247	935	1715	1195	2183
160	320	420	788	680	1256	940	1724	1200	2192
165	329	425	797	685	1265	945	1733	1205	2201
170	338	430	806	690	1274	950	1742	1210	2210
175	347	435	815	695	1283	955	1751	1215	2219
180	356	440	824	700	1292	960	1760	1220	2228
185	365	445	833	705	1301	965	1769	1225	2237
190	374	450	842	710	1310	970	1778	1230	2246
195	383	455	851	715	1319	975	1787	1235	2255
200	392	460	860	720	1328	980	1796	1240	2264
205	401	465	869	725	1337	985	1805	1245	2273
210	410	470	878	730	1346	990	1814	1250	2282
215	419	475	887	735	1355	995	1823	1255	2291
220	428	480	896	740	1364	1000	1832	1260	2300
225	437	485	905	745	1373	1005	1841	1265	2309
230	446	490	914	750	1382	1010	1850	1270	2318
235	455	495	923	755	1391	1015	1859	1275	2327
240	464	500	932	760	1400	1020	1868	1280	2336
245	473	505	941	765	1409	1025	1877	1285	2345
250	482	510	950	770	1418	1030	1886	1290	2354
255	491	515	959	775	1427	1035	1895	1295	2363

(Continued on page 161)

ENGINEERING DATA

Fahrenheit and Centigrade Conversion Table—Continued

Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.
1300	2372	1365	2489	1430	2606	1495	2723	1560	2840
1305	2381	1370	2498	1435	2615	1500	2732	1565	2849
1310	2390	1375	2507	1440	2624	1505	2741	1570	2858
1315	2399	1380	2516	1445	2633	1510	2750	1575	2867
1320	2408	1385	2525	1450	2642	1515	2759	1580	2876
1325	2417	1390	2534	1455	2651	1520	2768	1585	2885
1330	2426	1395	2543	1460	2660	1525	2777	1590	2894
1335	2435	1400	2552	1465	2669	1530	2786	1595	2903
1340	2444	1405	2561	1470	2678	1535	2795	1600	2912
1345	2453	1410	2570	1475	2687	1540	2804		
1350	2462	1415	2579	1480	2696	1545	2813		
1355	2471	1420	2588	1485	2705	1550	2822		
1360	2480	1425	2597	1490	2714	1555	2831		

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ENGINEERING DATA

Volume of Water at Various Pressures

At Saturation Temperatures Corresponding to Pressures Given

Gauge Pressure Lbs. per Sq. In.	Absolute Pressure Lbs. per Sq. In.	Specific Volume, V' or O Cu. Ft. per Lb.	Density,[1] Lbs. Per Cu. Ft.	Energy of Expansion 144 Ap V'B.t.u.
.3	15	0.0167	59.8	0.05
25.3	40	0.0171	58.3	0.13
50.3	65	0.0174	57.4	0.21
75.3	90	0.0176	56.8	0.30
100.3	115	0.0178	56.0	0.38
125.3	140	0.0180	55.4	0.47
150.3	165	0.0182	54.9	0.56
175.3	190	0.0184	54.5	0.65
200.3	215	0.0185	54.0	0.74
225.3	240	0.0186	53.6	0.83
265.3	280	0.0189	53.0	0.98
435.3	450	0.0197	50.8	1.65

Metric Conversion Table

Millimetres × .03937 = inches.
Millimetres ÷ 25.4 = inches.
Centimetres × .3937 = inches.
Centimetres ÷ 2.54 = inches.
Metres × 39.37 = inches (Act of Congress).
Metres × 3.281 = feet.
Metres × 1.094 = yards.
Kilometres × .621 = miles.
Kilometres ÷ 1.6093 = miles.
Kilometres × 3280.8693 = feet.
Square Millimetres × .00155 = sq. inches.
Square Millimetres ÷ 645.1 = sq. inches.
Square Centimetres × .155 = sq. inches.
Square Centimetres ÷ 6.451 = sq. inches.
Square Metres × 10.764 = sq. feet.
Square Kilometres × 247.1 = acres.
Hectare × 2.471 = acres.
Cubic Centimetres ÷ 16.383 = cubic inches.
Cubic Centimetres ÷ 3.69 = fl. drams (U.S.P.).
Cubic Centimetres ÷29.57 = fluid ounce (U.S.P.).
Cubic Metres × 35.315 = cubic feet.
Cubic Metres × 1.308 = cubic yards.
Cubic Metres × 264.2 = gallons (231. cubic inches).
Litres × 61.022 = cu. in. (Act of Congress).
Litres × 33.84 = fluid ounces (U.S.P.).
Litres × .2642 = gallons (231. cu. in.)
Litres ÷ 3.78 = gallons (231. cu. in.)
Litres ÷ 28.316 = cubic feet.

Hectolitres × 3.531 = cubic feet.
Hectolitres × 2.84 = bushels (2150.42 cu. inches)
Hectolitres × .131 = cubic yards.
Hectolitres ÷ 26.42 = gallons (231. cu. in.)
Grammes × 15.432 = grains. (Act of Congress.)
Grammes ÷ 981. = dynes.
Grammes (water) ÷ 29.57 = fluid ounces.
Grammes ÷ 28.35 = ounces avoirdupois.
Grammes per cu. cent. ÷ 27.7 = lbs. per cubic inches.
Joule × .7373 = foot pounds.
Kilo-grammes × 2.2046 = pounds.
Kilo-grammes × 35.3 = oz. avoirdupois.
Kilo-grammes ÷ 907.2 = tons (2,000 lbs.).
Kilo-grammes per sq. cent. × 14.223 = lbs. per sq. in.
Kilo-gram-metres × 7.233 = foot lbs.
Kilo-gr. per Metre × .672 = lbs. per foot.
Kilo-gr. per Cu. Metre × .062 = lbs. per cubic feet.
Tonneau × 1.1023 = tons (2,000 lbs.).
Kilo-Watts × 1.34 = Horse Power.
Watts ÷ 746. = Horse Power.
Watts × .7373 = foot pounds per second.
Calorie × 3.968 = B. t. u.
Cheval vapeur ÷ .9863 = Horse Power.
(Centigrade × 1.8) + 32 = degree Fahr.
Gravity Paris = 980.94 centimetres per sec.

ENGINEERING DATA

Circumferences and Areas of Circles

Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area
1/16	.0981	.00076	7	21.90	38.484	15	47.12	176.71	23	72.25	415.47
1/8	.1963	.00306	1/8	22.38	39.871	1/8	47.51	179.67	1/8	72.64	420.00
3/16	.3926	.01227	1/4	22.77	41.282	1/4	47.90	182.72	1/4	73.04	424.55
1/4	.5890	.02761	3/8	23.16	42.718	3/8	48.30	185.66	3/8	73.43	429.13
5/16	.7854	.04908	1/2	23.56	44.178	1/2	48.69	188.69	1/2	73.82	433.73
3/8	.9817	.07669	5/8	23.95	45.663	5/8	49.08	191.74	5/8	74.21	438.30
7/16	1.178	.1104	3/4	24.34	47.173	3/4	49.48	194.82	3/4	74.61	443.01
1/2	1.374	.1503	7/8	24.74	48.707	7/8	49.87	197.73	7/8	75.00	447.69
9/16	1.570	.1963	8	25.13	50.265	16	50.26	201.06	24	75.39	452.39
5/8	1.767	.2485	1/8	25.52	51.848	1/8	50.65	204.21	1/8	75.79	457.11
11/16	1.963	.3097	1/4	25.91	53.456	1/4	51.05	207.39	1/4	76.18	461.86
3/4	2.159	.3712	3/8	26.31	55.088	3/8	51.44	210.59	3/8	76.57	466.63
13/16	2.356	.4417	1/2	26.70	56.745	1/2	51.83	213.82	1/2	76.96	471.43
7/8	2.552	.5184	5/8	27.09	58.426	5/8	52.22	217.07	5/8	77.36	476.25
15/16	2.748	.6013	3/4	27.47	60.132	3/4	52.62	220.35	3/4	77.75	481.10
	2.945	.6902	7/8	27.88	61.862	7/8	53.01	223.65	7/8	78.14	485.97
1	3.141	.7854	9	28.27	63.617	17	53.40	226.98	25	78.54	490.87
1/8	3.534	.9940	1/8	28.66	65.396	1/8	53.79	230.33	1/8	78.93	495.79
1/4	3.927	1.227	1/4	29.05	67.200	1/4	54.19	233.70	1/4	79.32	500.74
3/8	4.319	1.484	3/8	29.45	69.029	3/8	54.58	237.10	3/8	79.71	505.71
1/2	4.712	1.767	1/2	29.84	70.882	1/2	54.97	240.52	1/2	80.10	510.70
5/8	5.105	2.073	5/8	30.23	72.759	5/8	55.37	243.97	5/8	80.50	515.72
3/4	5.497	2.405	3/4	30.63	74.662	3/4	55.76	247.45	3/4	80.89	520.70
7/8	5.890	2.761	7/8	31.02	76.588	7/8	56.16	250.94	7/8	81.28	525.83
2	6.283	3.141	10	31.41	78.539	18	56.54	254.46	26	81.68	530.93
1/8	6.675	3.546	1/8	31.80	80.515	1/8	56.94	258.01	1/8	82.07	536.04
1/4	7.068	3.976	1/4	32.20	82.516	1/4	57.33	261.58	1/4	82.46	541.18
3/8	7.461	4.430	3/8	32.59	84.540	3/8	57.72	265.18	3/8	82.85	546.35
1/2	7.854	4.908	1/2	32.98	86.590	1/2	58.11	268.80	1/2	83.25	551.54
5/8	8.246	5.411	5/8	33.37	88.664	5/8	58.51	272.44	5/8	83.64	556.76
3/4	8.639	5.939	3/4	33.77	90.762	3/4	58.90	276.11	3/4	84.03	562.00
7/8	9.032	6.491	7/8	34.16	92.885	7/8	59.29	279.81	7/8	84.43	567.26
3	9.424	7.068	11	34.55	95.033	19	59.69	283.52	27	84.82	572.55
1/8	9.817	7.669	1/8	34.95	97.205	1/8	60.08	287.27	1/8	85.21	577.87
1/4	10.21	8.295	1/4	35.34	99.402	1/4	60.47	291.03	1/4	85.60	583.20
3/8	10.60	8.946	3/8	35.73	101.62	3/8	60.86	294.83	3/8	86.00	588.57
1/2	10.99	9.621	1/2	36.12	103.86	1/2	61.26	298.64	1/2	86.39	593.95
5/8	11.38	10.320	5/8	36.52	106.13	5/8	61.65	302.48	5/8	86.78	599.37
3/4	11.78	11.044	3/4	36.91	108.43	3/4	62.04	306.35	3/4	87.17	604.80
7/8	12.17	11.793	7/8	37.30	110.75	7/8	62.43	310.24	7/8	87.57	610.26
4	12.65	12.566	12	37.69	113.00	20	62.83	314.16	28	87.96	615.75
1/8	12.95	13.364	1/8	38.09	115.46	1/8	63.22	318.09	1/8	88.35	621.26
1/4	13.35	14.186	1/4	38.48	117.85	1/4	63.61	322.06	1/4	88.75	626.79
3/8	13.74	15.033	3/8	38.87	120.27	3/8	64.01	326.05	3/8	89.14	632.35
1/2	14.12	15.904	1/2	39.27	122.71	1/2	64.40	330.06	1/2	89.53	637.94
5/8	14.52	16.800	5/8	39.66	125.18	5/8	64.79	334.10	5/8	89.92	643.54
3/4	14.92	17.720	3/4	40.05	127.67	3/4	65.18	338.16	3/4	90.32	649.18
7/8	15.31	18.665	7/8	40.44	130.19	7/8	65.58	342.25	7/8	90.71	654.83
5	15.70	19.635	13	40.84	132.73	21	65.97	346.36	29	91.10	660.52
1/8	16.10	20.629	1/8	41.23	135.29	1/8	66.36	350.49	1/8	91.49	666.22
1/4	16.49	21.647	1/4	41.62	137.88	1/4	66.75	354.65	1/4	91.89	671.95
3/8	16.88	22.690	3/8	42.01	140.50	3/8	67.15	358.84	3/8	92.28	677.71
1/2	17.27	23.758	1/2	42.41	143.13	1/2	67.54	363.05	1/2	92.67	683.49
5/8	17.67	24.850	5/8	42.80	145.80	5/8	67.93	367.28	5/8	93.06	689.29
3/4	18.06	25.967	3/4	43.19	148.48	3/4	68.32	371.54	3/4	93.46	695.12
7/8	18.45	27.108	7/8	43.58	151.20	7/8	68.72	375.82	7/8	93.85	700.98
6	18.84	28.274	14	43.98	153.93	22	69.11	380.13	30	94.24	706.86
1/8	19.24	29.464	1/8	44.37	156.69	1/8	69.50	384.46	1/8	94.64	712.76
1/4	19.63	30.679	1/4	44.76	159.48	1/4	69.90	388.82	1/4	95.03	718.69
3/8	20.02	31.919	3/8	45.16	162.29	3/8	70.29	393.20	3/8	95.42	724.64
1/2	20.42	33.183	1/2	45.55	165.13	1/2	70.68	397.60	1/2	95.81	730.61
5/8	20.81	34.471	5/8	45.94	167.98	5/8	71.07	402.03	5/8	96.21	736.61
3/4	21.20	35.784	3/4	46.33	170.87	3/4	71.47	406.49	3/4	96.60	742.64
7/8	21.57	37.122	7/8	46.73	173.78	7/8	71.86	410.97	7/8	96.99	748.69

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Circumferences and Areas of Circles—Continued

Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area
31	97.38	754.76	39	122.5	1194.5	47	147.6	1734.9	55	172.7	2375.8
1/8	97.78	760.86	1/8	122.9	1202.2	1/8	148.0	1744.1	1/8	173.1	2386.6
1/4	98.17	766.99	1/4	123.3	1209.9	1/4	148.4	1753.4	1/4	173.5	2397.4
3/8	98.56	773.14	3/8	123.7	1217.6	3/8	148.8	1762.7	3/8	173.9	2408.3
1/2	98.96	779.31	1/2	124.0	1225.4	1/2	149.2	1772.0	1/2	174.3	2419.2
5/8	99.35	785.51	5/8	124.4	1233.1	5/8	149.6	1781.3	5/8	174.7	2430.1
3/4	99.74	791.73	3/4	124.8	1240.9	3/4	150.0	1790.7	3/4	175.1	2441.0
7/8	100.1	797.97	7/8	125.2	1248.7	7/8	150.4	1800.1	7/8	175.5	2452.0
32	100.5	804.24	40	125.6	1256.6	48	150.7	1809.5	56	175.9	2463.0
1/8	100.9	810.45	1/8	126.0	1264.5	1/8	151.1	1818.9	1/8	176.3	2474.0
1/4	101.3	816.86	1/4	126.4	1272.3	1/4	151.5	1828.4	1/4	176.7	2485.0
3/8	101.7	823.21	3/8	126.8	1280.3	3/8	151.9	1837.9	3/8	177.1	2496.1
1/2	102.1	829.57	1/2	127.2	1288.2	1/2	152.3	1847.4	1/2	177.5	2507.1
5/8	102.4	835.97	5/8	127.6	1291.2	5/8	152.7	1856.9	5/8	177.8	2518.2
3/4	102.8	842.39	3/4	128.0	1304.2	3/4	153.1	1866.5	3/4	178.2	2529.4
7/8	103.2	848.83	7/8	128.4	1312.2	7/8	153.5	1876.1	7/8	178.6	2540.5
33	103.6	855.30	41	128.8	1320.2	49	153.9	1885.7	57	179.0	2551.7
1/8	104.0	861.79	1/8	129.1	1328.3	1/8	154.3	1895.3	1/8	179.4	2562.9
1/4	104.4	868.30	1/4	129.5	1336.4	1/4	154.7	1905.0	1/4	179.8	2574.1
3/8	104.8	874.88	3/8	129.9	1344.5	3/8	155.1	1914.7	3/8	180.2	2585.4
1/2	105.2	881.41	1/2	130.3	1352.6	1/2	155.5	1924.4	1/2	180.6	2596.7
5/8	105.6	888.00	5/8	130.7	1360.8	5/8	155.9	1934.1	5/8	181.0	2608.0
3/4	106.0	894.61	3/4	131.1	1369.0	3/4	156.2	1943.9	3/4	181.4	2619.3
7/8	106.4	901.25	7/8	131.5	1377.2	7/8	156.6	1953.6	7/8	181.8	2630.7
34	106.8	907.92	42	131.9	1385.4	50	157.0	1963.5	58	182.2	2642.0
1/8	107.2	914.61	1/8	132.3	1393.7	1/8	157.4	1973.3	1/8	182.6	2653.4
1/4	107.5	921.32	1/4	132.7	1401.9	1/4	157.8	1983.1	1/4	182.9	2664.9
3/8	107.9	928.06	3/8	133.1	1410.2	3/8	158.2	1993.0	3/8	183.3	2676.3
1/2	108.3	934.82	1/2	133.5	1418.6	1/2	158.6	2002.9	1/2	183.7	2687.8
5/8	108.7	941.60	5/8	133.9	1426.9	5/8	159.0	2012.8	5/8	184.1	2690.3
3/4	109.1	948.41	3/4	134.3	1435.3	3/4	159.4	2022.8	3/4	184.5	2710.8
7/8	109.5	955.25	7/8	134.6	1443.7	7/8	159.8	2032.8	7/8	184.9	2722.4
35	109.9	962.11	43	135.0	1452.2	51	160.2	2042.8	59	185.3	2733.9
1/8	110.3	968.99	1/8	135.4	1460.6	1/8	160.6	2052.8	1/8	185.7	2745.5
1/4	110.7	975.90	1/4	135.8	1469.1	1/4	161.0	2062.9	1/4	186.1	2757.1
3/8	111.1	982.84	3/8	136.2	1477.6	3/8	161.3	2072.9	3/8	186.5	2768.8
1/2	111.5	989.80	1/2	136.6	1486.1	1/2	161.7	2083.0	1/2	186.9	2780.5
5/8	111.9	996.78	5/8	137.0	1494.7	5/8	162.1	2093.2	5/8	187.3	2792.2
3/4	112.3	1003.7	3/4	137.4	1503.3	3/4	162.5	2103.3	3/4	187.7	2803.9
7/8	112.7	1010.8	7/8	137.8	1511.9	7/8	162.9	2113.5	7/8	188.1	2815.6
36	113.0	1017.8	44	138.2	1520.5	52	163.3	2123.7	60	188.4	2827.4
1/8	113.4	1024.9	1/8	138.6	1529.1	1/8	163.7	2133.9	1/8	188.8	2839.2
1/4	113.8	1032.0	1/4	139.0	1537.8	1/4	164.1	2144.1	1/4	189.2	2851.0
3/8	114.2	1039.1	3/8	139.4	1546.5	3/8	164.5	2154.4	3/8	189.6	2862.8
1/2	114.6	1049.3	1/2	139.8	1555.2	1/2	164.9	2164.7	1/2	190.0	2874.7
5/8	115.0	1053.5	5/8	140.1	1564.0	5/8	165.3	2175.0	5/8	190.4	2886.2
3/4	115.4	1060.7	3/4	140.5	1572.8	3/4	165.7	2185.4	3/4	190.8	2898.5
7/8	115.8	1067.9	7/8	140.9	1581.6	7/8	166.1	2195.7	7/8	191.2	2910.5
37	116.2	1075.2	45	141.3	1590.4	53	166.5	2206.1	61	191.6	2922.4
1/8	116.6	1082.4	1/8	141.7	1599.2	1/8	166.8	2216.6	1/8	192.0	2934.4
1/4	117.0	1089.7	1/4	142.1	1608.1	1/4	167.2	2227.0	1/4	192.4	2946.4
3/8	117.4	1097.1	3/8	142.5	1617.0	3/8	167.6	2237.5	3/8	192.8	2958.5
1/2	117.8	1104.4	1/2	142.9	1625.9	1/2	168.0	2248.0	1/2	193.2	2970.5
5/8	118.2	1111.8	5/8	143.3	1634.9	5/8	168.4	2258.5	5/8	193.6	2982.6
3/4	118.6	1119.2	3/4	143.7	1643.8	3/4	168.8	2269.0	3/4	193.9	2994.6
7/8	118.9	1126.6	7/8	144.1	1652.8	7/8	169.2	2279.6	7/8	194.3	3006.9
38	119.3	1134.1	46	144.5	1661.9	54	169.6	2290.2	62	194.7	3019.0
1/8	119.7	1141.5	1/8	144.9	1670.9	1/8	170.0	2300.8	1/8	195.1	3031.2
1/4	120.1	1149.0	1/4	145.2	1680.0	1/4	170.4	2311.4	1/4	195.5	3043.4
3/8	120.5	1156.6	3/8	145.6	1689.1	3/8	170.8	2322.1	3/8	195.9	3055.7
1/2	120.9	1164.1	1/2	146.0	1698.2	1/2	171.2	2332.8	1/2	196.3	3067.9
5/8	121.3	1171.7	5/8	146.4	1707.3	5/8	171.6	2343.5	5/8	196.7	3080.2
3/4	121.7	1179.3	3/4	146.8	1716.5	3/4	172.0	2354.2	3/4	197.1	3092.5
7/8	122.1	1186.9	7/8	147.2	1725.7	7/8	172.3	2365.0	7/8	197.5	3104.8

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Circumferences and Areas of Circles—Continued

Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area
63	197.9	3117.2	70	219.9	3848.4	78	245.0	4778.3	90	282.7	6361.7
1/8	198.3	3129.6	1/8	220.3	3862.2	1/4	245.8	4809.0	1/4	283.5	6397.1
1/4	198.7	3142.0	1/4	220.6	3875.9	1/2	246.6	4839.8	1/2	284.3	6432.6
3/8	199.0	3144.4	3/8	221.0	3889.8	3/4	247.4	4870.7	3/4	285.1	6468.2
1/2	199.4	3166.9	1/2	221.4	3903.6						
5/8	199.8	3179.4	5/8	221.8	3917.4	79	248.1	4901.6	91	285.8	6503.8
3/4	200.2	3191.9	3/4	222.2	3931.3	1/4	248.9	4932.7	1/4	286.6	6539.6
7/8	200.6	3204.4	7/8	222.6	3945.2	1/2	249.7	4963.9	1/2	287.4	6575.5
64	201.0	3216.9	71	223.0	3959.2	3/4	250.5	4995.1	3/4	288.2	6611.5
1/8	201.4	3229.5	1/8	223.4	3973.1	80	251.3	5026.5	92	289.0	6647.6
1/4	201.8	3242.1	1/4	223.8	3987.1	1/4	252.1	5058.0	1/4	289.8	6683.8
3/8	202.2	3254.8	3/8	224.2	4001.1	1/2	252.8	5089.5	1/2	290.5	6720.0
1/2	202.6	3267.4	1/2	224.6	4015.1	3/4	253.6	5121.2	3/4	291.3	6756.4
5/8	203.0	3280.1	5/8	225.0	4029.2						
3/4	203.4	3292.8	3/4	225.4	4043.2	81	254.4	5153.0	93	292.1	6792.0
7/8	203.8	3305.5	7/8	225.8	4067.3	1/4	255.2	5184.8	1/4	292.9	6829.4
65	204.2	3318.3	72	226.1	4071.5	1/2	256.0	5216.8	1/2	293.7	6866.1
1/4	204.5	3331.0	1/8	226.5	4085.6	3/4	256.8	5248.8	3/4	294.5	6902.9
1/4	204.9	3343.8	1/4	226.9	4099.8						
3/8	205.3	3356.7	3/8	227.3	4114.0	82	257.6	5281.0	94	295.3	6939.7
1/2	205.7	3369.5	1/2	227.7	4128.2	1/4	258.3	5313.2	1/4	296.0	6976.7
5/8	206.1	3382.4	5/8	228.1	4142.5	1/2	259.1	5345.6	1/2	296.8	7013.8
3/4	206.5	3395.3	3/4	228.5	4156.7	3/4	259.9	5378.0	3/4	297.6	7050.9
7/8	206.9	3408.2	7/8	228.9	4171.0						
66	207.3	3421.2	73	229.3	4185.3	83	260.7	5410.6	95	298.4	7088.2
1/8	207.7	3434.1	1/8	229.7	4199.7	1/4	261.5	5443.2	1/4	299.2	7125.5
1/4	208.1	3447.1	1/4	230.1	4214.1	1/2	262.3	5476.0	1/2	300.0	7163.0
3/8	208.5	3460.1	3/8	230.5	4228.5	3/4	263.1	5508.8	3/4	300.8	7200.5
1/2	208.9	3473.2	1/2	230.9	4242.9						
5/8	209.3	3486.3	5/8	231.3	4257.3	84	263.8	5541.7	96	301.5	7238.2
3/4	209.7	3499.3	3/4	231.6	4271.8	1/4	264.6	5574.8	1/4	302.3	7275.9
7/8	210.0	3512.5	7/8	232.0	4286.3	1/2	265.4	5607.9	1/2	303.1	7313.8
67	210.4	3525.6				3/4	266.2	5641.1	3/4	303.9	7341.7
1/8	210.9	3538.8	74	232.4	4300.8	85	267.0	5674.5	97	304.7	7389.8
1/4	211.2	3552.0	1/8	232.8	4315.3	1/4	267.8	5707.9	1/4	305.5	7427.9
3/8	211.6	3565.2	1/4	233.2	4329.9	1/2	268.6	5741.4	1/2	306.3	7466.2
1/2	212.0	3578.4	3/8	233.6	4344.5	3/4	269.3	5775.0	3/4	307.0	7504.4
5/8	212.4	3591.7	1/2	234.0	4359.1						
3/4	212.8	3605.0	5/8	234.4	4373.8	86	270.1	5808.8	98	307.8	7542.9
7/8	213.2	3618.3	3/4	234.8	4388.4	1/4	270.9	5842.6	1/4	308.6	7581.5
68	213.6	3631.6	7/8	235.2	4403.1	1/2	271.7	5876.5	1/2	309.4	7620.1
1/8	214.0	3645.0	75	235.6	4417.8	3/4	272.5	5910.5	3/4	310.2	7658.8
1/4	214.4	3658.4	1/4	236.4	4447.3	87	273.3	5944.6	99	311.0	7697.7
3/8	214.8	3671.8	1/2	237.1	4476.9	1/4	274.1	5978.9	1/4	311.8	7736.6
1/2	215.1	3685.2	3/4	237.9	4506.6	1/2	274.8	6013.2	1/2	312.5	7775.6
5/8	215.5	3698.7				3/4	275.6	6047.6	3/4	313.3	7814.7
3/4	215.9	3712.2	76	238.7	4536.4	88	276.4	6082.1	100	314.1	7853.0
7/8	216.3	3725.7	1/4	239.5	4566.3	1/4	277.2	6116.7	1/4	314.9	7893.3
69	216.7	3739.2	1/2	240.3	4596.3	1/2	278.0	6151.4	1/2	315.7	7932.7
1/8	217.1	3752.8	3/4	241.1	4626.4	3/4	278.8	6186.2	3/4	316.4	7972.2
1/4	217.5	3766.4									
3/8	217.9	3780.0	77	241.9	4656.6	89	279.6	6221.1			
1/2	218.3	3793.6	1/4	242.6	4686.9	1/4	280.3	6256.1			
5/8	218.7	3807.3	1/2	243.4	4717.3	1/2	281.1	6291.2			
3/4	219.1	3821.0	3/4	244.2	4747.7	3/4	281.9	6326.4			
7/8	219.5	3834.7									

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ENGINEERING DATA

Steam Table

Gauge Press. lbs.	Absol. Press. lbs. p	Temp. Deg. F. t	Press. Atmos* —	Sp. Vol. cu. ft. per lb. v or s	Density lbs. per cu. ft. 1/v	Heat of the liquid h or q	Latent heat of evap. L or r	Total heat of steam H	Internal Energy B. t. u. Evap. I or p	Internal Energy B. t. u. Steam E
----	1	101.83	0.068	333.0	0.00300	69.8	1034.6	1104.4	972.9	1042.7
----	2	126.15	0.136	173.5	0.00576	94.0	1021.0	1115.0	956.7	1050.7
----	3	141.52	0.204	118.5	0.00845	109.4	1012.3	1121.6	946.4	1055.8
----	4	153.01	0.272	90.5	0.01107	120.9	1005.7	1126.5	938.6	1059.5
----	5	162.28	0.340	73.33	0.01364	130.1	1000.3	1130.5	932.4	1062.5
----	6	170.06	0.408	61.89	0.01616	137.9	995.8	1133.7	927.0	1064.9
----	7	176.85	0.476	53.56	0.01867	144.7	991.8	1136.5	922.4	1067.1
----	8	182.86	0.544	47.27	0.02115	150.8	988.2	1139.0	918.2	1069.0
----	9	188.27	0.612	42.36	0.02361	156.2	985.0	1141.1	914.4	1070.5
----	10	193.22	0.680	38.38	0.02606	161.1	982.0	1143.1	910.9	1072.0
----	11	197.75	0.748	35.10	0.02849	165.7	979.2	1144.9	907.8	1073.4
----	12	201.96	0.816	32.36	0.03090	169.9	976.6	1146.5	904.8	1074.7
----	13	205.87	0.885	30.03	0.03330	173.8	974.2	1148.0	902.0	1075.8
----	14	209.55	0.953	28.02	0.03569	177.5	971.9	1149.4	899.3	1076.8
.0	14.7	212.00	1.000	26.79	0.03732	180.0	970.4	1150.4	897.6	1077.5
.3	15	213.0	1.021	26.27	0.03806	181.0	969.7	1150.7	896.8	1077.8
1.3	16	216.3	1.089	24.79	0.04042	184.4	967.6	1152.0	894.4	1078.7
2.3	17	219.4	1.157	23.38	0.04277	187.5	965.6	1153.1	892.1	1079.6
3.3	18	222.4	1.225	22.16	0.04512	190.5	963.7	1154.2	889.9	1080.4
4.3	19	225.2	1.293	21.07	0.04746	193.4	961.8	1155.2	887.8	1081.1
5.3	20	228.0	1.361	20.08	0.04980	196.1	960.0	1156.2	885.8	1081.9
6.3	21	230.6	1.429	19.18	0.05213	198.8	958.3	1157.1	883.9	1082.6
7.3	22	233.1	1.497	18.37	0.05445	201.3	956.7	1158.0	882.0	1083.2
8.3	23	235.5	1.565	17.62	0.05676	203.8	955.1	1158.8	880.2	1083.9
9.3	24	237.8	1.633	16.93	0.05907	206.1	953.5	1159.6	878.5	1084.5
10.3	25	240.1	1.701	16.30	0.0614	208.4	952.0	1160.4	876.8	1085.1
11.3	26	242.2	1.769	15.72	0.0636	210.6	950.6	1161.2	875.1	1085.6
12.3	27	244.4	1.837	15.18	0.0659	212.7	949.2	1161.9	873.5	1086.2
13.3	28	246.4	1.905	14.67	0.0682	214.8	947.8	1162.6	872.0	1086.7
14.3	29	248.4	1.973	14.19	0.0705	216.8	946.4	1163.2	870.5	1087.2
15.3	30	250.3	2.041	13.74	0.0728	218.8	945.1	1163.9	869.0	1087.7
16.3	31	252.2	2.109	13.32	0.0751	220.7	943.8	1164.5	867.6	1088.2
17.3	32	254.1	2.178	12.93	0.0773	222.6	942.5	1165.1	866.2	1088.6
18.3	33	255.8	2.246	12.57	0.0795	224.4	941.3	1165.7	864.8	1089.1
19.3	34	257.6	2.314	12.22	0.0818	226.2	940.1	1166.3	863.4	1089.5
20.3	35	259.3	2.382	11.89	0.0841	227.9	938.9	1166.8	862.1	1089.9
21.3	36	261.0	2.450	11.58	0.0863	229.6	937.7	1167.3	860.8	1090.3
22.3	37	262.6	2.518	11.29	0.0886	231.3	936.6	1167.8	859.5	1090.7
23.3	38	264.2	2.586	11.01	0.0908	232.9	935.5	1168.4	858.3	1091.0
24.3	39	265.8	2.654	10.74	0.0931	234.5	934.4	1168.9	857.1	1091.4
25.3	40	267.3	2.722	10.49	0.0953	236.1	933.3	1169.4	855.9	1091.8
26.3	41	268.7	2.790	10.25	0.0976	237.6	932.2	1169.8	854.7	1092.2
27.3	42	270.2	2.858	10.02	0.0998	239.1	931.2	1170.3	853.6	1092.5
28.3	43	271.7	2.926	9.80	0.1020	240.5	930.2	1170.7	852.4	1092.8
29.3	44	273.1	2.994	9.59	0.1043	242.0	929.2	1171.2	851.3	1093.2
30.3	45	274.5	3.062	9.39	0.1065	243.4	928.2	1171.6	850.3	1093.5
31.3	46	275.8	3.130	9.20	0.1087	244.8	927.2	1172.0	849.2	1093.8
32.3	47	277.2	3.198	9.02	0.1109	246.1	926.3	1172.4	848.1	1094.1
33.3	48	278.5	3.266	8.84	0.1131	247.5	925.3	1172.8	847.1	1094.4
34.3	49	279.8	3.334	8.67	0.1153	248.8	924.4	1173.2	846.1	1094.7
35.3	50	281.0	3.402	8.51	0.1175	250.1	923.5	1173.6	845.0	1095.0
36.3	51	282.3	3.470	8.35	0.1197	251.4	922.6	1174.0	844.0	1095.3
37.3	52	283.5	3.538	8.20	0.1219	252.6	921.7	1174.3	843.1	1095.5
38.3	53	284.7	3.606	8.05	0.1241	253.9	920.8	1174.7	842.1	1095.8
39.3	54	285.9	3.674	7.91	0.1263	255.1	919.9	1175.0	841.1	1096.1

ENGINEERING DATA

Steam Table—Continued

Gauge Press. lbs.	Absol. Press. lbs. p	Temp. Deg. F. t	Press. Atmos* —	Sp. Vol. cu. ft. per lb. v or s	Density lbs. per cu. ft. 1/v	Heat of the liquid h or q	Latent heat of evap. L or r	Total heat of steam H	Internal Energy B. t. u. Evap. I or p	Internal Energy B. t. u. Steam E
40.3	55	287.1	3.742	7.78	0.1285	256.3	919.0	1175.4	840.2	1096.3
41.3	56	288.2	3.810	7.65	0.1307	257.5	918.2	1175.7	839.2	1096.6
42.3	57	289.4	3.878	7.52	0.1329	258.7	917.4	1176.0	838.3	1096.8
43.3	58	290.5	3.947	7.40	0.1350	259.8	916.5	1176.4	837.4	1097.1
44.3	59	291.6	4.015	7.28	0.1372	261.0	915.7	1176.7	836.5	1097.3
45.3	60	292.7	4.083	7.17	0.1394	262.1	914.9	1177.0	835.6	1097.6
46.3	61	293.8	4.151	7.06	0.1416	263.2	914.1	1177.3	834.8	1097.8
47.3	62	294.9	4.219	6.95	0.1438	264.3	913.3	1177.6	833.9	1098.0
48.3	63	295.9	4.287	6.85	0.1460	265.4	912.5	1177.9	833.1	1098.2
49.3	64	297.0	4.355	6.75	0.1482	266.4	911.8	1178.2	832.2	1098.4
50.3	65	298.0	4.423	6.65	0.1503	267.5	911.0	1178.8	831.4	1098.7
51.3	66	299.0	4.491	6.56	0.1525	268.5	910.2	1178.0	830.5	1098.9
52.3	67	300.0	4.559	6.47	0.1547	269.6	909.5	1179.9	829.7	1099.1
53.3	68	301.0	4.627	6.38	0.1569	270.6	908.7	1179.3	828.9	1099.3
54.3	69	302.0	4.695	6.29	0.1590	271.6	908.0	1179.6	828.1	1099.5
55.3	70	302.9	4.763	6.20	0.1612	272.6	907.2	1179.8	827.3	1099.7
56.3	71	303.9	4.831	6.12	0.1634	273.6	906.5	1180.1	826.5	1099.9
57.3	72	304.8	4.899	6.04	0.1656	274.5	905.8	1180.4	825.8	1100.1
58.3	73	305.8	4.967	5.96	0.1678	275.5	905.1	1180.6	825.0	1100.3
59.3	74	306.7	5.035	5.89	0.1699	276.5	904.4	1180.9	824.2	1100.5
60.3	75	307.6	5.103	5.81	0.1721	277.4	903.7	1181.1	823.5	1100.6
61.3	76	308.5	5.171	5.74	0.1743	278.3	903.0	1181.4	822.7	1100.8
62.3	77	309.4	5.239	5.67	0.1764	279.3	902.3	1181.6	822.0	1101.0
63.3	78	310.3	5.307	5.60	0.1786	280.2	901.7	1181.8	821.3	1101.2
64.3	79	311.2	5.375	5.54	0.1808	281.1	901.0	1182.1	820.6	1101.4
65.3	80	312.0	5.444	5.47	0.1829	282.0	900.3	1182.3	819.8	1101.6
66.3	81	312.9	5.512	5.41	0.1851	282.9	899.7	1182.5	819.1	1101.7
67.3	82	313.8	5.580	5.34	0.1873	283.8	899.0	1182.8	818.4	1101.9
68.3	83	314.6	5.648	5.28	0.1894	284.6	898.4	1183.0	817.7	1102.1
69.3	84	315.4	5.716	5.22	0.1915	285.5	897.7	1183.2	817.0	1102.2
70.3	85	316.3	5.784	5.16	0.1937	286.3	897.1	1183.4	816.3	1102.4
71.3	86	317.1	5.852	5.10	0.1959	287.2	896.4	1183.6	815.6	1102.6
72.3	87	317.9	5.920	5.05	0.1980	288.0	895.8	1183.8	815.0	1102.7
73.3	88	318.7	5.988	5.00	0.2001	288.9	895.2	1184.0	814.3	1102.9
74.3	89	319.5	6.056	4.94	0.2023	289.7	894.6	1184.2	813.6	1103.0
75.3	90	320.3	6.124	4.89	0.2044	290.5	893.9	1184.4	813.0	1103.2
76.3	91	321.1	6.192	4.84	0.2065	291.3	893.3	1184.6	812.3	1103.3
77.3	92	321.8	6.260	4.79	0.2087	292.1	892.7	1184.8	811.7	1103.5
78.3	93	322.6	6.328	4.74	0.2109	292.9	892.1	1185.0	811.0	1103.6
79.3	94	323.4	6.396	4.69	0.2130	293.7	891.5	1185.2	810.4	1103.8
80.3	95	324.1	6.464	4.65	0.2151	294.5	890.9	1185.4	809.7	1103.9
81.3	96	324.9	6.532	4.60	0.2172	295.3	890.3	1185.6	809.1	1104.1
82.3	97	325.6	6.600	4.56	0.2193	296.1	889.7	1185.8	808.5	1104.2
83.3	98	326.4	6.668	4.51	0.2215	296.8	889.2	1186.0	807.9	1104.4
84.3	99	327.1	6.736	4.47	0.2237	297.6	886.6	1186.2	807.2	1104.5
85.3	100	327.8	6.80	4.429	0.2258	298.3	888.0	1186.3	806.6	1104.6
86.3	101	328.6	6.87	4.388	0.2279	299.1	887.4	1186.5	806.0	1104.8
87.3	102	329.3	6.94	4.347	0.2300	299.8	886.9	1186.7	805.4	1104.9
88.3	103	330.0	7.01	4.307	0.2322	300.6	886.3	1186.9	804.8	1105.0
89.3	104	330.7	7.08	4.268	0.2343	301.3	885.8	1187.0	804.2	1105.1
90.3	105	331.4	7.14	4.230	0.2365	302.0	885.2	1187.2	803.6	1105.3
91.3	106	332.0	7.21	4.192	0.2386	302.7	884.7	1187.4	803.0	1105.4
92.3	107	332.7	7.28	4.155	0.2408	303.4	884.1	1187.5	802.5	1105.5
93.3	108	333.4	7.35	4.118	0.2429	304.1	883.6	1187.7	801.9	1105.7
94.3	109	334.1	7.42	4.082	0.2450	304.8	883.0	1187.9	801.3	1105.8

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ENGINEERING DATA

Steam Table—Continued

Gauge Press. lbs.	Absol. Press. lbs. p	Temp. Deg. F. t	Press. Atmos* —	Sp. Vol. cu. ft. per lb. v or s	Density lbs. per cu. ft. 1/v	Heat of the liquid h or q	Latent heat of evap. L or r	Total heat of steam H	Internal Energy B. t. u.	
									Evap. l or p	Steam E
95.3	110	334.8	7.49	4.047	0.2472	305.5	882.5	1188.0	800.7	1105.9
96.3	111	335.4	7.55	4.012	0.2493	306.2	881.9	1188.2	800.2	1106.0
97.3	112	336.1	7.62	3.978	0.2514	306.9	881.4	1188.4	799.6	1106.2
98.3	113	336.8	7.69	3.945	0.2535	307.6	880.9	1188.5	799.0	1106.3
99.3	114	337.4	7.76	3.912	0.2556	308.3	880.4	1188.7	798.5	1106.4
100.3	115	338.1	7.83	3.880	0.2577	309.0	879.8	1188.8	797.9	1106.5
102.3	117	339.4	7.96	3.817	0.2620	310.3	878.8	1189.1	796.8	1106.8
104.3	119	340.6	8.10	3.756	0.2662	311.6	877.8	1189.4	795.7	1107.0
106.3	121	341.9	8.23	3.697	0.2705	313.0	876.7	1189.7	794.7	1107.2
108.3	123	343.2	8.37	3.639	0.2748	314.3	875.7	1190.0	793.6	1107.4
110.3	125	344.4	8.50	3.583	0.2791	315.5	874.7	1190.3	792.6	1107.7
112.3	127	345.6	8.64	3.530	0.2833	316.8	873.8	1190.5	791.5	1107.9
114.3	129	346.8	8.78	3.478	0.2875	318.0	872.8	1190.8	790.5	1108.1
116.3	131	348.0	8.91	3.427	0.2918	319.3	871.8	1191.1	789.5	1108.3
118.3	133	349.1	9.05	3.378	0.2960	320.5	870.9	1191.3	788.5	1108.5
120.3	135	350.3	9.19	3.331	0.3002	321.7	869.9	1191.6	787.5	1108.7
122.3	137	351.4	9.32	3.285	0.3044	322.8	869.0	1191.8	786.5	1108.9
124.3	139	352.5	9.46	3.241	0.3086	324.0	868.1	1192.1	785.5	1109.1
126.3	141	353.6	9.59	3.197	0.3129	325.2	867.2	1192.3	784.6	1109.3
128.3	143	354.7	9.73	3.154	0.3171	326.3	866.3	1192.6	783.6	1109.5
130.3	145	355.8	9.87	3.112	0.3213	327.4	865.4	1192.8	782.7	1109.6
132.3	147	356.9	10.00	3.072	0.3255	328.6	864.5	1193.0	781.7	1109.8
134.3	149	357.9	10.14	3.033	0.3297	329.7	863.6	1193.3	780.8	1110.0
136.3	151	359.0	10.28	2.993	0.3341	330.8	862.7	1193.5	779.9	1110.2
138.3	153	360.0	10.41	2.956	0.3383	331.9	861.8	1193.7	779.0	1110.4
140.3	155	361.0	10.55	2.920	0.3425	332.9	861.0	1194.0	778.1	1110.5
142.3	157	362.1	10.68	2.885	0.3467	334.0	860.1	1194.2	777.2	1110.7
144.3	159	363.1	10.82	2.861	0.3508	335.1	859.3	1194.4	776.3	1110.8
146.3	161	364.1	10.96	2.818	0.3549	336.2	858.4	1194.6	775.4	1111.0
148.3	163	365.1	11.09	2.785	0.3591	337.2	857.6	1194.8	774.5	1111.2
150.3	165	366.0	11.23	2.753	0.3633	338.2	856.8	1195.0	773.6	1111.3
152.3	167	367.0	11.36	2.721	0.3675	339.2	855.9	1195.2	772.8	1111.4
154.3	169	368.0	11.50	2.690	0.3717	340.2	855.1	1195.4	771.9	1111.6
156.3	171	368.9	11.64	2.660	0.3759	341.2	854.3	1195.5	771.1	1111.7
158.3	173	369.9	11.77	2.631	0.3801	342.2	853.5	1195.7	770.2	1111.9
160.3	175	370.8	11.91	2.602	0.3843	343.2	852.7	1195.9	769.4	1112.0
162.3	177	371.7	12.04	2.574	0.3885	344.2	851.9	1196.1	768.6	1112.2
164.3	179	372.7	12.18	2.547	0.3927	345.2	851.2	1196.3	767.8	1112.4
166.3	181	373.6	12.32	2.520	0.3969	346.1	850.4	1196.5	767.0	1112.5
168.3	183	374.5	12.45	2.494	0.4010	347.1	849.6	1196.7	766.2	1112.6
170.3	185	375.4	12.59	2.468	0.4052	348.0	848.8	1196.8	765.4	1112.8
172.3	187	376.3	12.72	2.443	0.4094	349.0	848.0	1197.0	764.6	1112.9
174.3	189	377.2	12.86	2.418	0.4136	349.9	847.3	1197.2	763.8	1113.0
176.3	191	378.0	13.00	2.393	0.4178	350.8	846.5	1197.3	763.0	1113.2
178.3	193	378.9	13.13	2.369	0.4220	351.7	845.8	1197.5	762.2	1113.3
180.3	195	379.8	13.27	2.346	0.4262	352.7	845.0	1197.7	761.4	1113.4
182.3	197	380.6	13.40	2.323	0.4304	353.6	844.3	1197.8	760.7	1113.6
184.3	199	381.4	13.54	2.301	0.4346	354.4	843.6	1198.0	759.9	1113.7
186.3	201	382.3	13.68	2.279	0.439	355.3	842.8	1198.2	759.2	1113.8
188.3	203	383.1	13.81	2.258	0.443	356.2	842.1	1198.3	758.4	1113.9
190.3	205	384.0	13.95	2.237	0.447	357.1	841.4	1198.5	757.6	1114.0
192.3	207	384.8	14.08	2.217	0.451	358.0	840.6	1198.6	756.9	1114.2
194.3	209	385.6	14.22	2.197	0.455	358.8	839.9	1198.8	756.2	1114.3
196.3	211	386.4	14.36	2.177	0.459	359.6	839.3	1198.9	755.5	1114.4
198.3	213	387.2	14.49	2.158	0.463	360.5	838.6	1199.1	754.7	1114.5
200.3	215	388.0	14.63	2.138	0.468	361.4	837.9	1199.2	754.0	1114.6
202.3	217	388.8	14.77	2.118	0.472	362.2	837.2	1199.4	753.3	1114.7
204.3	219	389.5	14.90	2.100	0.476	363.0	836.6	1199.5	752.6	1114.8

ENGINEERING DATA

Steam Table—Continued

Gauge Press. lbs.	Absol. Press. lbs. p	Temp. Deg. F. t	Press. Atmos* —	Sp. Vol. cu. ft. per lb. v or s	Density lbs. per cu. ft. 1/v	Heat of the liquid h or q	Latent heat of evap. L or r	Total heat of steam H	Internal Energy B. t. u.	
									Evap. l or p	Steam E
206.3	221	390.3	15.04	2.082	0.480	363.8	835.8	1199.6	751.9	1115.0
208.3	223	391.1	15.17	2.064	0.485	364.6	835.1	1199.8	751.2	1115.1
210.3	225	391.9	15.31	2.046	0.489	365.5	834.4	1199.9	750.5	1115.2
212.3	227	392.6	15.45	2.030	0.493	366.3	833.8	1200.0	749.8	1115.3
214.3	229	393.4	15.58	2.013	0.497	367.1	833.1	1200.2	749.1	1115.4
216.3	231	394.1	15.72	1.996	0.501	367.9	832.4	1200.3	748.4	1115.5
218.3	233	394.9	15.86	1.980	0.505	368.7	831.8	1200.4	747.7	1115.6
220.3	235	395.6	15.99	1.964	0.509	369.4	831.1	1200.6	747.0	1115.7
222.3	237	396.4	16.13	1.948	0.513	370.2	830.4	1200.7	746.4	1115.8
224.3	239	397.1	16.26	1.932	0.518	371.0	829.8	1200.8	745.7	1115.9
226.3	241	397.8	16.40	1.917	0.522	371.8	829.2	1200.9	745.0	1116.0
228.3	243	398.5	16.53	1.902	0.526	372.6	828.5	1201.1	744.4	1116.1
230.3	245	399.3	16.67	1.887	0.530	373.3	827.9	1201.2	743.7	1116.2
232.3	247	400.0	16.81	1.872	0.534	374.1	827.2	1201.3	743.0	1116.3
234.3	249	400.7	16.94	1.857	0.538	374.8	826.6	1201.4	742.4	1116.4
235.3	250	401.1	17.01	1.850	0.541	375.2	826.3	1201.5	742.0	1116.4
237.3	252	401.8	17.15	1.836	0.545	376.0	825.6	1201.6	741.4	1116.5
239.3	254	402.4	17.28	1.822	0.549	376.7	825.0	1201.7	740.8	1116.6
241.3	256	403.1	17.42	1.809	0.553	377.5	824.4	1201.8	740.1	1116.7
243.3	258	403.8	17.56	1.795	0.557	378.2	823.7	1201.9	739.5	1116.8
245.3	260	404.5	17.69	1,782	0.561	378.9	823.1	1202.1	738.9	1116.9
247.3	262	405.2	17.83	1.769	0.565	379.6	822.5	1202.2	738.2	1117.0
249.3	264	405.9	17.96	1.756	0.569	380.4	821.9	1202.3	737.6	1117.1
251.3	266	406.6	18.10	1.743	0.574	381.1	821.3	1202.4	737.0	1117.2
253.3	268	407.2	18.24	1.731	0.578	381.8	820.7	1202.5	736.4	1117.2
255.3	270	407.9	18.37	1.718	0.582	382.5	820.1	1202.6	735.8	1117.3
257.3	272	408.6	18.51	1.705	0.587	383.2	819.5	1202.7	735.1	1117.4
259.3	274	409.2	18.64	1.693	0.591	383.9	818.9	1202.8	734.5	1117.5
261.3	276	409.9	18.78	1.681	0.595	384.6	818.3	1202.9	733.9	1117.6
263.3	278	410.5	18.92	1.669	0.599	385.3	817.7	1203.0	733.3	1117.6
265.3	280	411.2	19.05	1.658	0.603	386.0	817.1	1203.1	732.7	1117.7
267.3	282	411.8	19.19	1.646	0.608	386.7	816.5	1203.2	732.1	1117.8
269.3	284	412.4	19.32	1.635	0.612	387.4	815.9	1203.3	731.5	1117.9
271.3	286	413.1	19.46	1.624	0.616	388.1	815.4	1203.4	730.9	1118.0
273.3	288	413.7	19.60	1.613	0.620	388.7	814.8	1203.5	730.3	1118.1
275.3	290	414.4	19.73	1.602	0.624	389.4	814.2	1203.6	729.7	1118.1
277.3	292	415.0	19.87	1.591	0.629	390.1	813.6	1203.7	729.2	1118.2
279.3	294	415.6	20.01	1.581	0.633	390.8	813.0	1203.8	728.5	1118.3
281.3	296	416.2	20.14	1.571	0.637	391.4	812.5	1203.9	728.0	1118.4
283.3	298	416.8	20.28	1.561	0.641	392.1	811.9	1204.0	727.4	1118.4
285.3	300	417.5	20.41	1.551	0.645	392.7	811.3	1204.1	726.7	1118.5
295.3	310	420.5	21.09	1.502	0.666	395.9	808.5	1204.5	724.0	1118.9
305.3	320	423.4	21.78	1.456	0.687	399.1	805.8	1204.9	721.2	1119.2
355.3	370	437.2	25.18	1.264	0.791	414.0	792.8	1206.8	708.2	1120.8
375.3	390	442.3	26.54	1.200	0.833	419.5	787.9	1207.4	703.3	1121.4
385.3	400	444.7	27.22	1.17	0.86	422.	786.	1208.	701.	1122.
405.3	420	449.6	28.58	1.11	0.90	427.	780.	1208.	696.	1122.
455.3	470	460.9	31.98	0.99	1.01	440.	769.	1209.	685.	1123.
510.3	525	472.3	35.72	0.89	1.12	453.	757.	1210.	673.	1124.
560.3	575	481.9	39.13	0.81	1.24	464.	747.	1211.	663.	1125.
585.3	600	486.4	40.83	0.78	1.28	469.	742.	1211.	658.	1125.

*1 atmo (standard atmosphere) =760 mms. of Hg. by definition =29.921 ins. of Hg. =14.696 lbs. per sq. in.

$T^\circ = t^\circ + 459.6$; J =777.5 ft. lbs. per B.t.u. (log =2.89 071); $A = 1/J = 1.286 \times 10^{-3}$; 144 A = 0.1852 (log =1.26 704).

NOTE—The gauge pressures are put in only for your guidance in making quick estimates of conditions. Wherever very accurate computations are to be made, find out the atmospheric pressure at your altitude and add this to the gauge pressure and use the resulting absolute pressure in the table.

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ENGINEERING DATA

Dimensions of Gaskets for Standard and Low Pressure Flanges
A. S. M. E. Standard

Size of Pipe	Ring Gaskets		Full Face Gaskets		Size of Pipe	Ring Gaskets		Full Face Gaskets	
	I. D.	O. D.	I. D.	O. D.		I. D.	O. D.	I. D.	O. D.
¾ in.	¾ in.	2⅛ in.	¾ in.	3½ in.	40 in.	40 in.	45⅝ in.	40 in.	50¾ in.
1 in.	1 in.	2 9/16 in.	1 in.	4 in.	42 in.	42 in.	47⅞ in.	42 in.	53 in.
1¼ in.	1¼ in.	2 15/16 in.	1¼ in.	4½ in.	44 in.	44 in.	50⅛ in.	44 in.	55¼ in.
1½ in.	1½ in.	3⅜ in.	1½ in.	5 in.	46 in.	46 in.	52⅜ in.	46 in.	57¼ in.
2 in.	2 in.	4⅛ in.	2 in.	6 in.	48 in.	48 in.	54⅝ in.	48 in.	59½ in.
2½ in.	2½ in.	4⅞ in.	2½ in.	7 in.	50 in.	50 in.	56⅛ in.	50 in.	61¾ in.
3 in.	3 in.	5⅝ in.	3 in.	7½ in.	52 in.	52 in.	58¾ in.	52 in.	64 in.
3½ in.	3½ in.	6⅜ in.	3½ in.	8½ in.	54 in.	54 in.	61 in.	54 in.	66¼ in.
4 in.	4 in.	6⅞ in.	4 in.	9 in.	56 in.	56 in.	63¼ in.	56 in.	68¾ in.
4½ in.	4½ in.	7 in.	4½ in.	9¼ in.	58 in.	58 in.	65½ in.	58 in.	71 in.
5 in.	5 in.	7¾ in.	5 in.	10 in.	60 in.	60 in.	67½ in.	60 in.	73 in.
6 in.	6 in.	8¾ in.	6 in.	11 in.	62 in.	62 in.	69⅞ in.	62 in.	75¾ in.
7 in.	7 in.	10 in.	7 in.	12⅛ in.	64 in.	64 in.	72⅛ in.	64 in.	78 in.
8 in.	8 in.	11 in.	8 in.	13½ in.	66 in.	66 in.	74⅜ in.	66 in.	80 in.
9 in.	9 in.	12½ in.	9 in.	15 in.	68 in.	68 in.	76⅝ in.	68 in.	82¼ in.
10 in.	10 in.	13⅝ in.	10 in.	16 in.	70 in.	70 in.	78⅝ in.	70 in.	84½ in.
12 in.	12 in.	16⅛ in.	12 in.	19 in.	72 in.	72 in.	80⅝ in.	72 in.	86½ in.
14 in.	14 in.	17¾ in.	14 in.	21 in.	74 in.	74 in.	82⅝ in.	74 in.	88½ in.
15 in.	15 in.	19 in.	15 in.	22¼ in.	76 in.	76 in.	84⅝ in.	76 in.	90¾ in.
16 in.	16 in.	20¼ in.	16 in.	23½ in.	78 in.	78 in.	86¾ in.	78 in.	93 in.
18 in.	18 in.	21⅝ in.	18 in.	25 in.	80 in.	80 in.	89 in.	80 in.	95¼ in.
20 in.	20 in.	23⅞ in.	20 in.	27½ in.	82 in.	82 in.	91¼ in.	82 in.	97½ in.
22 in.	22 in.	26 in.	22 in.	29½ in.	84 in.	84 in.	93½ in.	84 in.	99¾ in.
24 in.	24 in.	28¼ in.	24 in.	32 in.	86 in.	86 in.	95¾ in.	86 in.	102 in.
26 in.	26 in.	30½ in.	26 in.	34¼ in.	88 in.	88 in.	98 in.	88 in.	104¼ in.
28 in.	28 in.	32¾ in.	28 in.	36½ in.	90 in.	90 in.	100⅛ in.	90 in.	106½ in.
30 in.	30 in.	34⅝ in.	30 in.	38¾ in.	92 in.	92 in.	102⅜ in.	92 in.	108¾ in.
32 in.	32 in.	38 in.	32 in.	41¾ in.	94 in.	94 in.	104⅛ in.	94 in.	111 in.
34 in.	34 in.	39 in.	34 in.	43¾ in.	96 in.	96 in.	106¼ in.	96 in.	113¼ in.
36 in.	36 in.	41¼ in.	36 in.	46 in.	98 in.	98 in.	108½ in.	98 in.	115½ in.
38 in.	38 in.	43⅝ in.	38 in.	48¾ in.	100 in.	100 in.	110¾ in.	100 in.	117¾ in.

Dimensions of Gaskets for Extra Heavy and Medium Flanges
A. S. M. E. Standard

Size of Pipe	Ring Gaskets		Full Face Gaskets		Size of Pipe	Ring Gaskets		Full Face Gaskets	
	I. D.	O. D.	I. D.	O. D.		I. D.	O. D.	I. D.	O. D.
1 in.	1 in.	2¾ in.	1 in.	4½ in.	16 in.	16 in.	21¼ in.	16 in.	25½ in.
1¼ in.	1¼ in.	3¼ in.	1¼ in.	5 in.	18 in.	18 in.	23½ in.	18 in.	28 in.
1½ in.	1½ in.	3⅞ in.	1½ in.	6 in.	20 in.	20 in.	25⅞ in.	20 in.	30½ in.
2 in.	2 in.	4⅜ in.	2 in.	6½ in.	22 in.	22 in.	27¼ in.	22 in.	33 in.
2½ in.	2½ in.	5⅛ in.	2½ in.	7½ in.	24 in.	24 in.	30⅜ in.	24 in.	36 in.
3 in.	3 in.	5⅞ in.	3 in.	8¼ in.	26 in.	26 in.	32⅞ in.	26 in.	38¼ in.
3½ in.	3½ in.	6½ in.	3½ in.	9 in.	28 in.	28 in.	35⅜ in.	28 in.	40¾ in.
4 in.	4 in.	7⅛ in.	4 in.	10 in.	30 in.	30 in.	37½ in.	30 in.	43 in.
4½ in.	4½ in.	7⅝ in.	4½ in.	10½ in.	32 in.	32 in.	39⅝ in.	32 in.	45¼ in.
5 in.	5 in.	8½ in.	5 in.	11 in.	34 in.	34 in.	41⅝ in.	34 in.	47½ in.
6 in.	6 in.	9⅝ in.	6 in.	12½ in.	36 in.	36 in.	44⅛ in.	36 in.	50 in.
7 in.	7 in.	11 in.	7 in.	14 in.	38 in.	38 in.	46⅛ in.	38 in.	52¼ in.
8 in.	8 in.	12⅛ in.	8 in.	15 in.	40 in.	40 in.	48⅜ in.	40 in.	54½ in.
9 in.	9 in.	13 in.	9 in.	16¼ in.	42 in.	42 in.	50⅞ in.	42 in.	57 in.
10 in.	10 in.	14¼ in.	10 in.	17½ in.	44 in.	44 in.	53 in.	44 in.	59¼ in.
12 in.	12 in.	16⅝ in.	12 in.	20½ in.	46 in.	46 in.	55¼ in.	46 in.	61½ in.
14 in.	14 in.	19⅛ in.	14 in.	23 in.	48 in.	48 in.	58¾ in.	48 in.	65 in.
15 in.	15 in.	20¼ in.	15 in.	24½ in.					

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Printed by the
BERGWALL PRINTING COMPANY
Jamestown, N. Y.

Art Work and Engravings by
The Hurst Engraving Company
Rochester, N. Y.

Published by AsbestosClaims.Law
asbestosclaims.law/library/21281/95