

CRANE

Valves • Fittings

Pipe

Fabricated Piping

Catalog No. 41

Founded by R. T. Crane • 1855

CRANE CO.

836 S. Michigan Avenue, Chicago, Illinois

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CR-158

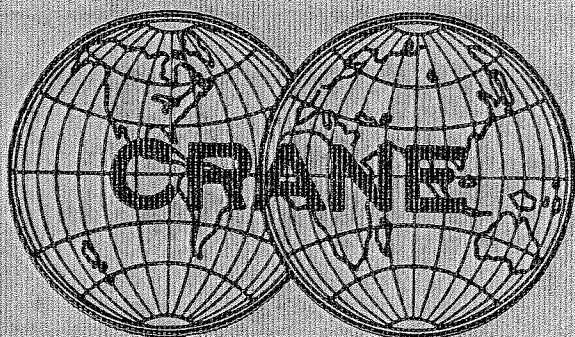
CRANE

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===== PIPE AND =====
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№ 41

Terms—Conditions

This catalog supersedes all previous issues.

Net Terms—30 days.

Remittances should be made to the office from which our invoice is issued, in funds free of exchange or collection charges.

Prices and Designs: Subject to change without notice.

Contracts: Subject to strikes, accidents, or other causes beyond our control.

No claims allowed unless made within ten days of receipt of goods.

We guarantee Crane goods to the extent that we will replace those having manufacturing defects when used in the service for which we recommend them. No charges for labor or expense required to repair defective goods, or occasioned by them, will be allowed. If the goods are defective, the measure of the damage is the price of the defective goods only.

Goods must not be returned to us unless our consent has first been obtained.

Orders covering special goods are not subject to cancellation, except upon agreement to make payment for the special work which has been performed.

All special goods made to specification, where the buyer is to inspect them, must be inspected and accepted before shipment is made. After shipment is made, our responsibility ceases.

The illustrations in this catalog are an actual representation of a certain size of each line of products, but do not necessarily represent all sizes in all details; we reserve the right to make minor alterations in designs to suit manufacturing convenience.

CRANE CO.

GENERAL OFFICE

836 S. Michigan Avenue, Chicago • Cable Address, *Craneccy—Chicago*

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New York, 4730 Twenty-ninth St., Long Island City

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PARIS, FRANCE, Cable Address, *Ciecrane*—
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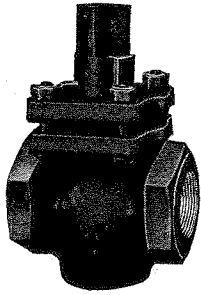
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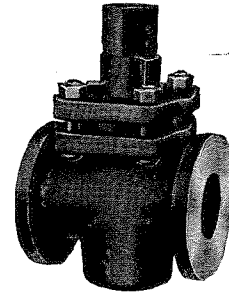


Asbestos Packed Iron Cocks



WORKING PRESSURES

Standard U-Packed Cocks — 150 pounds steam
 Standard Bushing-Packed Cocks — 100 pounds steam
 Extra Heavy U-Packed Cocks — 250 pounds steam



List prices of Standard and Extra Heavy Flanged Cocks include facing and drilling to the American Cast Iron Flange Standards—125-Pound for the Standard Cocks and 250-Pound for the Extra Heavy Cocks. No deduction is made if the flanged cocks are ordered faced only.

Standard — Asbestos Packed Iron Cocks — List Prices and Dimensions

Size	Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
Screwed — U-Packed	Each	1.60	2.10	2.50	3.50	4.75	7.00	12.00	18.00	27.00	30.00	45.00	60.00
Flanged — U-Packed	Each			2.50	3.50	4.75	7.00	12.00	18.00	27.00	30.00	45.00	60.00
Screwed — Bushing-Packed	Each	1.75	2.30	2.75	3.85	5.25	7.75	13.25	20.00	30.00	35.00		
Flanged — Bushing-Packed	Each			2.75	3.85	5.25	7.75	13.25	20.00	30.00	35.00		
Screwed — U-Packed, Three-Way	Each	2.85	3.15	4.40	5.95	8.75	15.00	22.50	33.75	37.50	56.25	75.00	
End to end, Screwed	Inches	3 1/4	3 5/16	4 1/4	4 5/8	5 3/16	6	7 1/8	8 1/16	8 1/16	10 1/16	14 5/16	16 3/8
Face to face, Flanged	Inches			5 1/2	5 3/4	6	7 1/2	8 3/4	9 3/4	11 5/8	13 1/2	16 1/8	
C. to E., Screwed, Three-Way	Inches	1 11/16	2 3/16	2 3/16	3 1/4	3 3/4	3 9/16	4	4 7/8				
Diameter of end flange	Inches			4 1/4	4 5/8	5	6	7	7 1/2	8 1/2	9	10	11
Thickness of end flange	Inches			7/16	1/2	9/16	5/8	1 1/16	3/4	13/16	15/16	15/16	1

Extra Heavy — Asbestos Packed Iron Cocks — List Prices and Dimensions

Size	Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
Screwed — U-Packed	Each	2.40	3.00	3.50	5.00	6.75	10.00	17.00	26.00	38.00	42.00	60.00	80.00
Flanged — U-Packed	Each						10.00	17.00	26.00	38.00	42.00	60.00	80.00
End to end, Screwed	Inches	3 1/16	3 3/4	4 3/4	5 1/8	6	6 5/8	8 1/4	9 1/4	9 1/4	13 1/8		
Face to face, Flanged	Inches						7 3/4	9 3/8	10 1/2	10 1/2	13 5/8	13 3/8	17
Diameter of end flange	Inches						6 1/2	7 1/2	8 1/4	9	10	11	12 1/2
Thickness of end flange	Inches						7/8	1	1 1/8	1 3/16	1 1/4	1 3/8	1 7/16

Replacement Bushings and Rings for Standard Asbestos Bushing-Packed Iron Cocks — List Prices

Size	Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Bushings	Each	1.00	1.00	1.30	1.85	2.50	3.15	3.80	4.55	6.25	7.80
Top Rings	Each	.35	.35	.35	.35	.40	.55	.65	1.30	1.70	1.95

Iron Wrenches for Asbestos Packed Cocks — List Prices

Size of Cock	Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
List price of Wrench	Each	.55	.55	.55	.75	.75	1.50	2.10	2.10	2.10	2.50	3.75	5.00

Service recommendations: Asbestos Packed Iron Cocks are recommended for use in steam, water, or oil lines; they are also suitable for tar, ammonia, acids, etc. Standard U-Packed Cocks are constructed for a maximum steam working pressure of 150 pounds; Extra Heavy U-Packed Cocks, for 250-pounds maximum pressure; and Standard Bushing-Packed Cocks for 100 pounds maximum pressure.

Construction: As the name implies, these cocks are made of cast iron and they are packed with asbestos. U-Packed Cocks (sometimes referred to as "Channel-Packed Cocks") have a wide and deep groove around the two sides and the bottom of each port opening in the body. This groove is filled with an asbestos composition which is vulcanized in place. When the plug is installed, it seats upon the asbestos packings, and it does not touch the body metal. The open ends of the "U" at the top of the plug are closed

with the top ring which makes the seal complete.

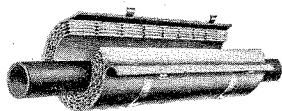
Bushing-Packed Cocks are equipped with a vulcanized one-piece asbestos bushing of the same contour and pattern as the plug. This bushing fits into the body of the cock and separates the plug from the body so that direct contact between the two major parts of the cock is impossible. The upper end is sealed with a top ring similar to that used in U-Packed Cocks. This type of cock can be readily serviced in the field without removing the body from the line; the old worn bushing and ring are simply replaced with the new parts.

Asbestos Packed Iron Cocks can also be furnished Angle types or Ammonia patterns. Asbestos Packed Brass Cocks can also be furnished in Standard, Extra Heavy, Angle, or Three-Way patterns. Inquiries for special services or sizes not shown are solicited and prices are furnished on application.

Insulating Materials

Pre-Shrunk Asbestocel Pipe Insulation

For temperatures to 300° F.

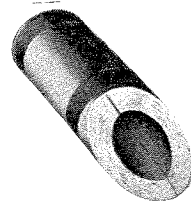


Pre-Shrunk Asbestocel, made of alternate layers of plain and corrugated asbestos felts, is an improved cellular type of insulation, ideal for use on low pressure steam and hot water lines. The specially-treated asbestos paper composition effectively resists moisture and prevents "breathing", thus removing the cause of objectionable shrinkage cracks.

***Sizes and finishes:** For standard pipe sizes. Furnished in 3-foot sections, and in thicknesses of 2 to 8 plies; each ply is approximately 1/4-inch thick. Canvas, asbestos, or aluminum finish.

Pre-Shrunk Wool Felt Pipe Insulation

For hot and cold water service.

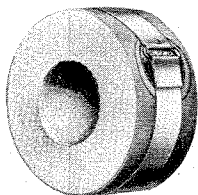


Pre-Shrunk Wool Felt Insulation is composed of moisture-resistant felt, a material which minimizes drying shrinkage and pulling apart at the joints after application. Dual service liners, a water-proof, asphalt saturated felt makes this type of insulation ideal for cold water lines or hot water lines subject to temperatures as high as 225° F.

***Sizes and finishes:** For standard pipe sizes. Furnished in 3-foot sections, and in thicknesses of 1/2, 3/4, 1, Double 1/2, and Double 3/4-inch. Canvas or aluminum finish.

85% Magnesia Pipe Insulation

For temperatures to 600° F.

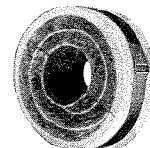


85% Magnesia Pipe Insulation combines the high insulating qualities of basic carbonate of magnesia and asbestos. The insulation is composed of a maximum number of voids or minute dead-air cells, a feature which increases its natural resistance to heat transmission and reduces its weight. Actual service conditions have proved 85% Magnesia to be the most durable, as well as the most efficient, of moulded insulations.

***Sizes and finish:** For standard pipe sizes. Furnished in 3-foot sections or in segments, and in Standard, 1 1/2-inch, 2-inch, 2 1/2-inch, Double Standard, and 3-inch thicknesses. Canvas finish.

Zero Pipe Insulation

For cold water service.

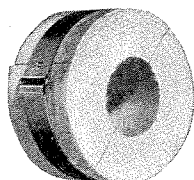


Zero Pipe Insulation is ideally used to prevent cold water pipes from freezing under ordinary conditions or for insulating lines where the surrounding air is subject to below freezing temperatures for only a short time. The insulation is not recommended for use where extremely low temperatures prevail. The insulation is composed of hair felt, one of the best of insulating materials. When applied to pipes running out of doors, special provision should be made for a separate jacket of Double Coated Flexstone.

***Sizes and finish:** For standard pipe sizes. Furnished in 3-foot sections, and in one thickness, approximately 1 1/4-inch. Canvas finish.

Asbestos-Sponge Felted Pipe Insulation

For temperatures to 700° F.

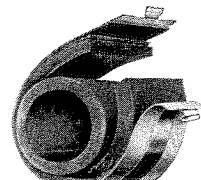


Asbestos-Sponge Felted Insulation is especially designed to withstand, permanently and without disintegration, the high temperatures, severe wear, and vibrations encountered in modern steam and fluid pipe lines. Fabricated of felts composed of asbestos fibres and small particles of spongy cellular material, the insulation maintains its high efficiency indefinitely. Its efficiency is not impaired by exposure to water.

***Sizes and finish:** For standard pipe sizes. Furnished in 3-foot sections, and in thicknesses of 1 to 3-inch. Also available in sheet or block form. Canvas finish.

Anti-Sweat Pipe Insulation

For cold water service.



Anti-Sweat, a cold water pipe insulation, is recommended to keep water cold and to prevent condensation and damage due to dripping. The insulation is unusually well suited for use in textile and paper mills, packing plants, etc. Made of pre-shrunk insulating felts and waterproofing felts, the material is ideal for use on lines subject to impact or shock. When used in the proper thickness, the insulation is suitable for the entire range of cold and ice water service.

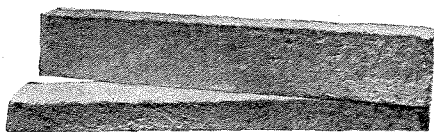
***Sizes:** For standard pipe sizes. Furnished in 3-foot sections, and in thicknesses of 1/2 to 2-inch. Double layer construction on larger sizes.

*The insulations shown on this page can also be furnished in sizes to fit straight runs of copper pipe or tubing having outside diameters of 3/8-inch or larger.

Prices and additional information will be furnished on application.

Insulating Materials

85% Magnesia Blocks

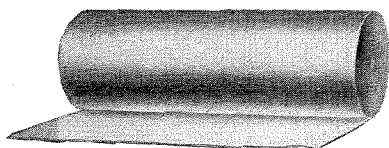


85% Magnesia Blocks are recommended for the insulation of flat, curved, or irregular surfaces where the temperature does not exceed 600° F. The material is particularly adaptable where high insulating value and light weight are necessary, or where an extremely irregular surface necessitates the use of an easily cut insulation.

Composed of hydrated basic carbonate of magnesia bonded with asbestos fibre, the material is moulded and machined into block form.

Sizes: 85% Magnesia Blocks are furnished in flat blocks of 3, 6, 9, and 12 inches in width and either 18 or 36 inches in length. Other sizes and curved blocks can be furnished to order. The blocks are made in thicknesses of 1 to 4-inch.

Asbestos Paper and Roll Board



Asbestos Paper and Roll Board are recommended for use where an insulating material of minimum thickness is required.

Asbestos Paper is used principally in the manufacture of corrugated insulation in various forms. It is also used in locations where little room is available, serving as a protection against heat or as a fire retardant between walls, floors, and ceilings. Special grades are supplied for use in filtration of chemicals and in electrolytic and allied processes.

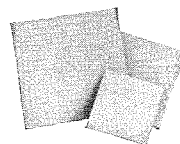
Asbestos Roll Board is similar to Asbestos Paper but is used where a heavier material is required.

Sizes: Asbestos Paper is regularly furnished in 18, 24, and 36-inch widths and in 50 or 100 pound rolls.

Asbestos Roll Board is furnished in standard rolls, 18 and 36-inch wide, weighing 50 or 100 pounds.

Other sizes will be furnished to order.

Asbestos Sheet Millboard



Asbestos Sheet Millboard is recommended for protection against fire, heat, acid fumes, etc. It is frequently used as a fireproof lining for floors, partitions, ceilings, elevator shafts, ranges, stoves, grates, and for various other industrial uses.

Millboard is made in a number of grades of varying densities, resiliency, and fire-resistant properties and can be furnished in grades to withstand effectively temperatures ranging as high as 1800° F.

Millboard can be cut with shears to any size desired and fastened with nails or screws.

Sizes: The size of a standard sheet of millboard is 42 x 48 inches, but the material can also be furnished in cut pieces.

Insulating Cements



Insulating cements provide excellent coverage, durable finish, and good insulating value. They are made in various grades and forms of asbestos, vermiculite, mineral wool, and magnesia.

Insulating cements are well suited for insulation of irregular surfaces where it would be difficult to apply sectional insulation, sheets, or blocks.

Asbestos insulating cements are generally used as a surface finish over block or sheet forms of insulation to seal all joints between the blocks and to provide a smooth, attractive finish or a surface to which canvas may be applied, if desired.

Several of the many types of cements available are:

No. 352 Asbestos and No. 0352 Asbestos. Suitable for temperatures as high as 1000° F. Furnished in 100 pound bags. Covering capacity is 19 square feet and 1-inch thick per bag of cement, applied and dried. No. 352 also furnished in 50 pound bags.

No. 400, Asbestos. Furnished in 100 pound bags. Covering capacity is 25 square feet and 1-inch thick per bag of cement, applied and dried.

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CRANE

Rings for Ring Joints

Oval Ring
Types A and BOctagonal Ring
Types A, B, and C

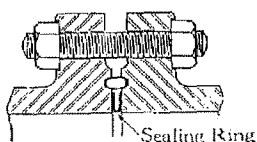
Crane Oval and Octagonal Rings are made in a variety of high grade materials, suitable for use in 150, 300, 400, 600, 900, 1500, and 2500-Pound ring joints. The shape of the ring regularly furnished for various sizes and pressure classes of joints is indicated in the table at the right.

Ordering: Orders for rings should specify the Ring Number and the Type: "A", "B", or "C". When Type is not specified, Type A Rings will regularly be supplied.

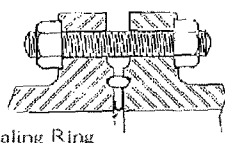
Type A Rings are made of Armco Iron (90 Brinell maximum hardness), in oval or octagonal shape; see table above.

Type B Rings, made of 4 to 6% Chrome with 1/2% Molybdenum (130 Brinell maximum hardness), are recommended for corrosive services, as in oil refinery work, and for use with Chrome-Molybdenum Steel products. They have the same shape as Type A Rings, being distinguished by a square bead (or fin) on the outer periphery.

Type C Rings are made octagonal shape only, of Soft Steel (130 Brinell maximum hardness) and are recommended for use in all steam or water installations.



Sealing Ring



Sealing Ring

For unusually corrosive fluids, **Corrosion Sealing Rings** are recommended for protection of rings. Prices on application.

Shape of Ring Regularly Furnished
For Various Size Ring Joints

Pressure Class	Oval Rings Type A or B	Octagonal Rings Type A or B	Type C
150-Pound	All sizes		
300-Pound			
400-Pound	18" and smaller	*20 and 24"	All sizes
600-Pound			
900-Pound	12" and smaller	*14" and larger	
1500-Pound	5" and smaller	*6" and larger	
2500-Pound	Information furnished on request		

*Oval-shaped rings can be furnished for these sizes when so ordered; prices on application.

List Prices, Each

Class	Size Inches	Ring Number	Type A Rings	Type B Rings	Type C Rings	Class	Size Inches	Ring Number	Type A Rings	Type B Rings	Type C Rings
For 150 Pound Ring Joints	1	R 15	.75	2.60	.82	For 900 Pound Ring Joints	For sizes 2 1/4-inch and smaller, use 1500-Pound Rings.				
	1 1/4	R 17	.80	2.90	.88		3	R 31	1.60	4.90	1.76
	1 1/2	R 19	1.00	3.55	1.10		3 1/2	R 34	1.70	4.90	1.87
	2	R 22	1.20	4.15	1.32		4	R 37	1.90	5.40	2.09
	2 1/2	R 25	1.30	4.15	1.43		5	R 41	2.30	6.50	2.53
	3	R 29	1.45	4.35	1.59		6	R 45	2.65	7.30	2.91
	3 1/2	R 33	1.65	4.90	1.81		8	R 49	5.00	13.00	5.50
	4	R 36	1.85	5.40	2.03		10	R 53	6.60	16.80	7.26
	5	R 40	2.25	6.30	2.47		12	R 57	11.40	22.40	12.54
	6	R 43	2.40	6.70	2.64		14	R 62	18.04	36.08	18.04
	8	R 48	4.20	10.45	4.62		16	R 66	22.77	40.48	22.77
	10	R 52	6.00	16.00	6.60		18	R 70	27.50	66.55	27.50
	12	R 56	11.00	20.40	12.10		20	R 74	34.10	75.02	34.10
	14	R 59	11.40	22.40	12.54		24	R 78	70.40	135.52	70.40
	16	R 64	12.80	29.00	14.08	For 1500 Pound Ring Joints	1/2	R 12	.70	2.40	.77
For 300, 400, and 600 Pound Ring Joints	18	R 68	15.40	38.50	16.94		3/4	R 14	.70	2.60	.77
	20	R 72	15.90	45.00	17.49		1	R 16	.75	2.60	.82
	24	R 76	27.50	57.60	30.25		1 1/4	R 18	.85	3.20	.93
	1/2	R 11	.70	2.40	.77		1 1/2	R 20	1.05	3.55	1.15
	3/4	R 13	.70	2.40	.77		2	R 24	1.30	4.15	1.43
	1	R 16	.75	2.60	.82		2 1/2	R 27	1.35	4.35	1.48
	1 1/4	R 18	.85	3.20	.93		3	R 35	1.70	5.25	1.87
	1 1/2	R 20	1.05	3.55	1.15		3 1/2	R 37	1.90	5.40	2.09
	2	R 23	1.30	4.15	1.43		4	R 39	2.05	5.95	2.25
	2 1/2	R 26	1.30	4.15	1.43		5	R 44	2.45	6.75	2.69
	3	R 31	1.60	4.90	1.76		6	R 46	3.96	11.88	3.96
	3 1/2	R 34	1.70	4.90	1.87		8	R 50	8.58	16.83	8.58
	4	R 37	1.90	5.40	2.09		10	R 54	10.67	25.08	10.67
	5	R 41	2.30	6.50	2.53		12	R 58	18.37	48.40	18.37
	6	R 45	2.65	7.30	2.91		14	R 63	27.28	54.23	27.28
For 2500 Pound Ring Joints	8	R 49	5.00	13.00	5.50		16	R 67	36.74	64.02	36.74
	10	R 53	6.60	16.80	7.26		18	R 71	41.80	90.75	41.80
	12	R 57	11.40	22.40	12.54		20	R 75	66.00	121.00	66.00
	14	R 61	12.80	27.00	14.08		24	R 79	108.90	181.59	108.90
	16	R 65	14.10	31.60	15.51	Prices are furnished on application. Sizes, ring numbers, and dimensions are shown on page 561.					
	18	R 69	16.00	40.00	17.60						
	20	R 73	26.07	57.20	26.07						
	24	R 77	36.85	73.70	36.85						

Ring R 30 in Types A, B, and C is for 300 or 600-Pound Ring Joints only, use when one of both halves of the joint are Cranelap.

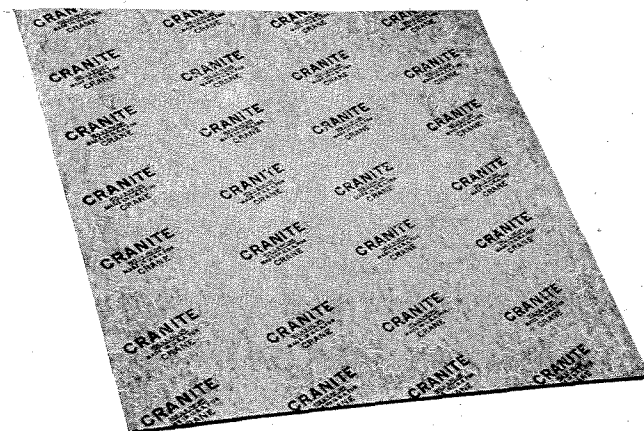
Dimensions of Rings and Ring Joints pages 562 and 563
Flanged joint assembly and maintenance page 624

Cranite Sheet Packing

An Asbestos Composition Manufactured Solely for Crane Co.

CRANITE is the highest grade of sheet packing obtainable.

The name "CRANITE" is registered in the United States Patent Office.



*The list price of
Cranite Sheet Packing
is \$1.00 per pound.*

*The 1/16-inch thickness
averages .62 pound
to the square foot.*

Cranite Sheet Packing: Cranite Sheet Packing is made of an asbestos composition, using only selected long fiber asbestos, cross laminated to provide unusual tensile strength. It offers a very uniform and high resistance to compression, is exceptionally strong and rugged, and will not deteriorate with age.

This packing is unhesitatingly recommended for a multitude of services, such as steam, water, oil, dry air, acids, ammonia, alkali, gases, etc., and for temperatures up to 750° F.

Because of the great number of services for which Cranite Sheet Packing can be used, its unusually

high quality, and its ability to withstand deterioration, users will find it economical to purchase the packing in quantities and to carry it in stock.

For best results, gaskets cut from Cranite Sheet Packing should be coated with Crane Thread Lubricant when being installed. See page 548 for Crane Thread Lubricants.

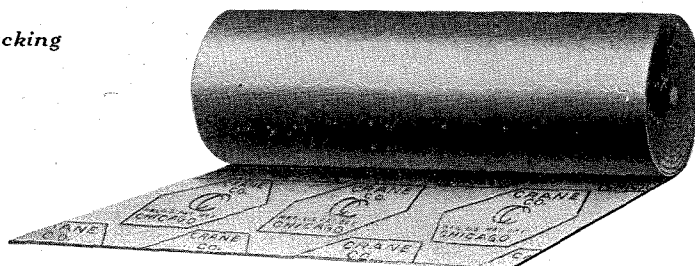
Sizes: Cranite Sheet Packing in the 1/16-inch thickness is regularly furnished in sheets 36 or 48 inches square. Other thicknesses from 1/64 to 1/4-inch, or other sizes up to 120 inches square can be made to order; prices on application.

Cranite Packing has been inspected and is listed by the Underwriters' Laboratories (National Board of Fire Underwriters), Chicago, for use on hazardous liquids.

"CC" Rubber Sheet Packing

Manufactured Solely for Crane Co.

*The list price of
"CC" Rubber Sheet Packing
is \$.50 per pound.*



*The 1/16-inch thickness
averages .61 pound
to the square foot.*

"CC" Rubber Sheet Packing, manufactured solely for Crane Co., is especially well adapted for high or low pressure service on saturated steam, hot and cold water, air, gases, etc. It is made up in rolls 36

inches wide, weighing approximately 200 pounds each, and in thicknesses of 1/16-inch and 1/8-inch. "CC" Rubber Sheet Packing can be furnished in rolls up to 72 inches wide.