

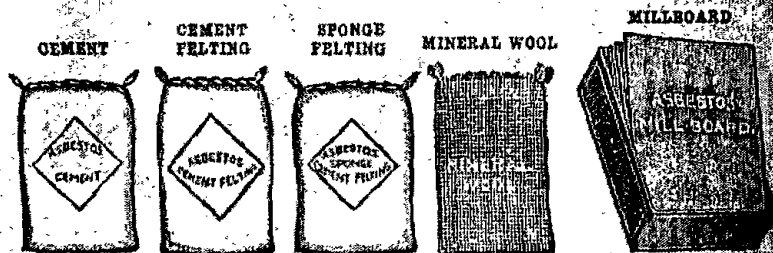
FILE NAME: John Crane (JC)

DATE: 1945-1969

DOC#: JC010

DOCUMENT DESCRIPTION: Industry Sales Literature

ASBESTOS CEMENTS, ETC.



Asbestos Cement, 100-pound Bag	per bag	3.00
Felting, 100-pound Bag	"	3.00
Sponge Cement Felting, 80-pound Bag	"	3.00
Hot Blast Cement Felting, 110-pound Bag	"	3.00
85% Carbonate of Magnesia Cement, 60	"	2.50
Sheep Wool Cement, Sticking Coat, 90-pound Bag	"	3.00
Finishing, 125-pound Bag	"	3.00

A bag of cement will cover surfaces as follows: Asbestos Cement, 25 square feet, 1 inch thick. Asbestos Cement Felting, 35 to 40 square feet, 1 inch thick. Asbestos Sponge Cement Felting, 40 square feet, 1 inch thick. Asbestos Hot Blast Cement Felting is applied according to degree of heat. 85% Carbonate of Magnesia Cement, 40 square feet, 1 inch thick. Sheep Wool Cement is adapted for surfaces exposed to the weather.

ASBESTOS FURNACE AND RETORT CEMENT

Style Packages	Cans	Pails	Kegs	Barrels
Package Weight, pounds	1, 2, 5, 10	25 to 50	100 to 300	400 to 600
Price, per pound	.25, .17½, .12, .10	.08	.06	.04½

FIREPROOF GLUE

Packages	½ pint	1 pint	1 quart	1 gallon	2 gallons	5 gallons
Price, each	.15	.25	.35	1.00	1.85	3.50

MINERAL WOOL

Price, in Sacks	per pound	1.00
Sacks, Extra	per ton	1.00

The amount charged for sacks will be refunded on their return, freight charges prepaid. Mineral Wool weighs from 8 to 9 pounds per cubic foot; ½ pound will cover 1 square foot, 1 inch thick.

ASBESTOS MILLBOARD—Sheets 40x40 inches

Thickness, inches	¼	½	¾	1	1½	2	2½	3	4
Weight, per Sheet, pounds	4	8	12	16	24	32	40	48	64

Price, per pound, 10 cents. Millboard is furnished in hard, medium and soft grades. Cases weigh about 250 pounds.

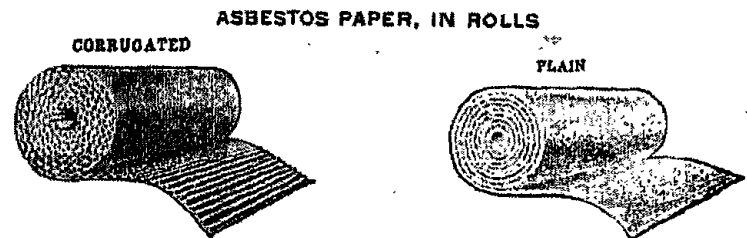
ASBESTOS FIBRE

Price, per pound, 20, 40, 50 and 60 cents, according to grade.

FIRE BRICK AND FIRE CLAY

We are prepared to furnish fire brick and fire clay in any quantities. Prices on application.

ASBESTOS PAPER



CORRUGATED

Adapted especially for lining furnace casings, and such other locations where fire-proof insulation is desired. Rolls contain about 250 square feet.

Price, 50-pound Rolls	per roll	7.00
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PLAIN

All single furnace pipe should be covered with asbestos paper.

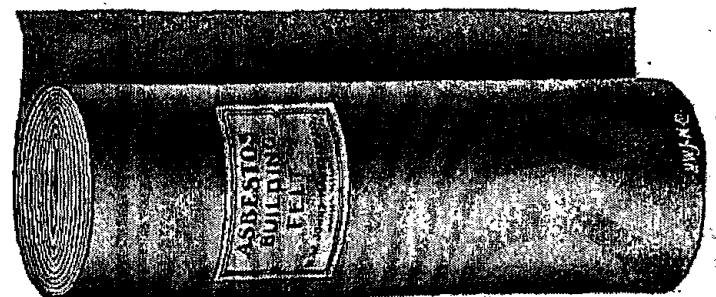
Price, 50-pound Rolls	per pound	.07½
100	"	.07

For covering furnace pipes we recommend 12-pound weight.

Supplied in 10, 12, 14 or 16-pound weights per 100 square feet.

We are headquarters for everything in the asbestos and wool felt line—complete stock of all insulating and fireproofing products.

ASBESTOS PAPER OR BUILDING FELT



Made in rolls 36 inches in width, weighing about 100 lbs. per roll. Comes in various weights from 6, 8, 10, 12 and 14 lbs., up to 16 lbs. to the 100 square feet.

List price per pound, 6 cents. Discounts on Application.

PENGAD 800-631-6989

EXHIBIT

22
7/28/64 NLL

Profit by Crane's concept of fluids handling

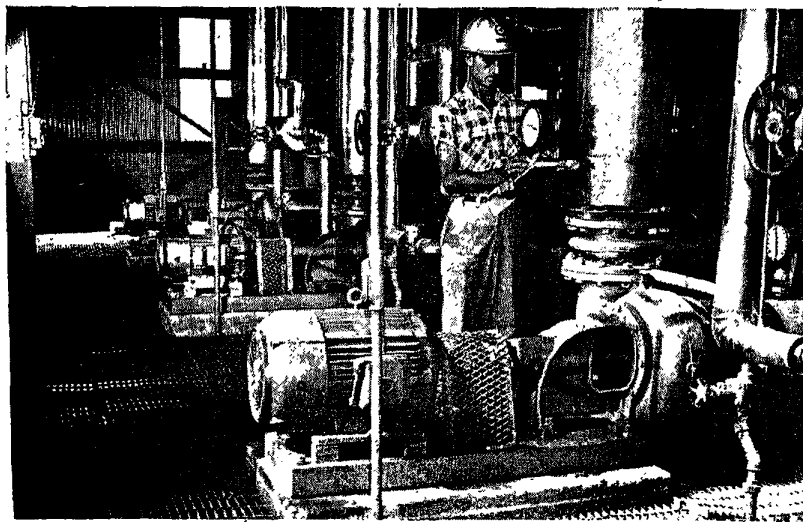
... when you buy valves, pumps, meters, controls or water treatment equipment for world-wide operations.

Let Crane — maker of the broadest line of fluids handling equipment — help you bring fluids handling into your profit picture as a *creative* function, in *all* its aspects.

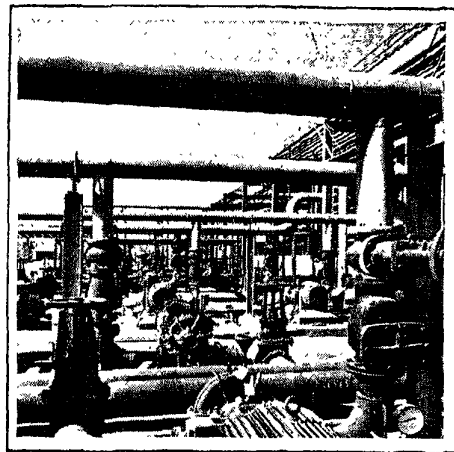
Design. Selection. Purchase from a single source of supply and responsibility. World-wide logistics. Payment in any

currency. Performance. Service. Economy. Most profitable application. This new approach is the Crane concept of complete fluids handling.

Putting this concept to work, we help you coordinate all these factors for maximum profit. For prompt action, telephone the International Sales Division, Crane Co., World Headquarters, (212) 752-3600.



* Along with these centrifugal pumps, 27 Crane chemical pumps handle acids, caustics, oil and water in a chemical processing plant.



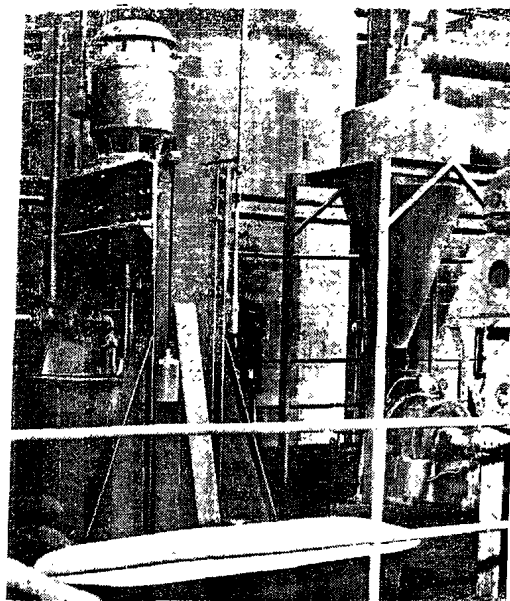
A large continuous casting plant in South Africa installed Crane valves in its water-cooling pump station.

CRANE®

COORDINATED COMPANIES OF CRANE: Crane Co., World Headquarters, 300 Park Ave., New York, U.S.A. Crane Australia Pty. Ltd., Sydney. Crane Canada, Ltd., Montreal. Crane Ltd., London. Crane A., Paris. Crane G.m.b.H., Dusseldorf. Crane Nederland, N.V., Deventer. Crane-Deming de Mexico, Monterrey. N.L. Crane Glenfield (South Africa) (Pty.) Ltd., Benoni. Crane-Fisa, S.A., Bilbao.



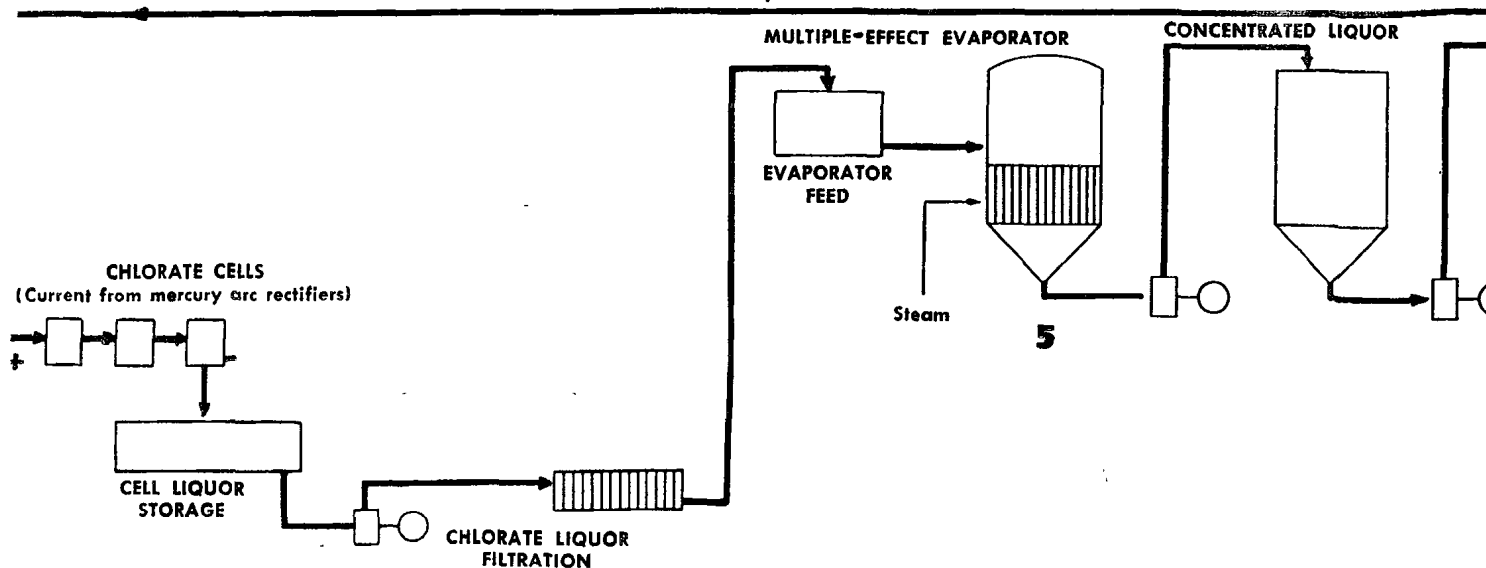
feed liquor is adjusted with HCl to get optimum
mromate is added to inhibit corrosion



6 Centrifuges where crystallized sodium
chlorate is separated from mother liquor
Mother liquor returned



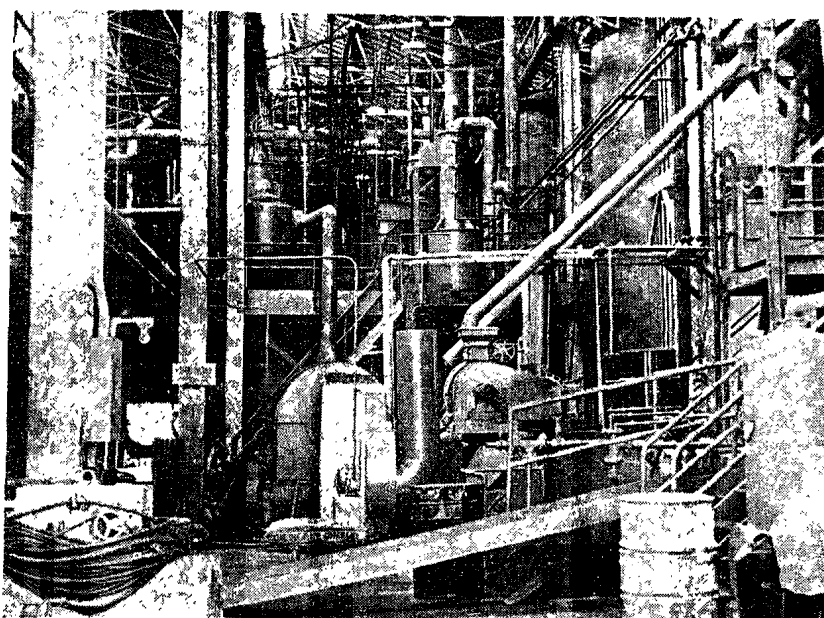
8 Over-all view sh
trusses are reflected



ystals are dried by
n foreground

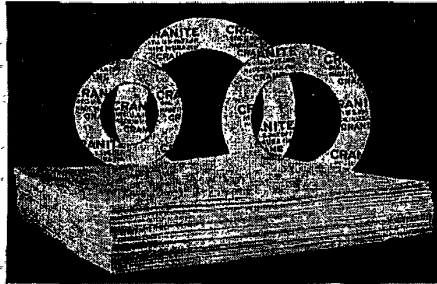
9 Labyrinth of equipment seen in this end view emphasizes compact-
ness which can be engineered into chemical process installations

11 Sodium chlorate
while it awaits shi



CRANITE

ASBESTOS COMPOSITION SHEET PACKING



CODE: MUTUANTUM

CRANITE IS THE HIGHEST GRADE OF SHEET PACKING OBTAINABLE

CRANITE is a packing for severe service, such as superheated steam, dry air, acids, oils, ammonia, alkali, gases, etc.

CRANITE gaskets are used on all CRANE valves for high-pressure, saturated or superheated steam.

CRANITE is an asbestos packing, and only selected long fiber is used in its manufacture, giving it added strength.

As CRANITE does not deteriorate with age, it will be found economical to purchase it in quantities.

Regularly, the packing comes in sheets $\frac{1}{16}$ -inch thick, size 36 x 36 inches, also 48x48 inches.

If sufficient time is allowed this packing will be made to order in any thickness from $\frac{1}{32}$ to $\frac{1}{8}$ -inch.

CRANITE Packing is listed as approved by the Underwriters' Laboratories for use on hazardous liquids, such as gasoline, etc.

LIST PRICES, IN SHEETS

$\frac{1}{16}$ -inch and thicker	1.90 per lb.
Less than $\frac{1}{16}$ -inch	2.35 per lb.

The $\frac{1}{16}$ -inch sheets weigh a little over a half pound to the square foot.

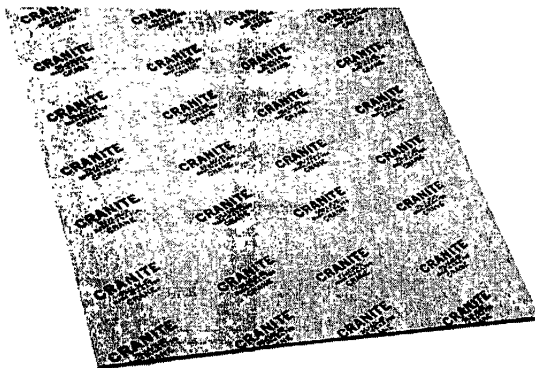
FOR PRICES AND DIMENSION TABLES OF CRANITE GASKETS, SEE PAGES 492 TO 496.

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.

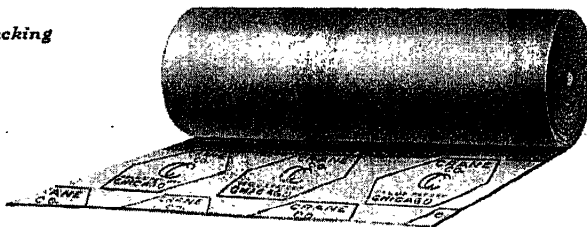
Sizes: Cranite Sheet Packing in the 1/16-inch thickness is regularly furnished in sheets 36 or 48 inches square. Other thicknesses from 1/64 to 1/4-inch, or other sizes up to 120 inches square can be made to order; prices on application.

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 .81 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.

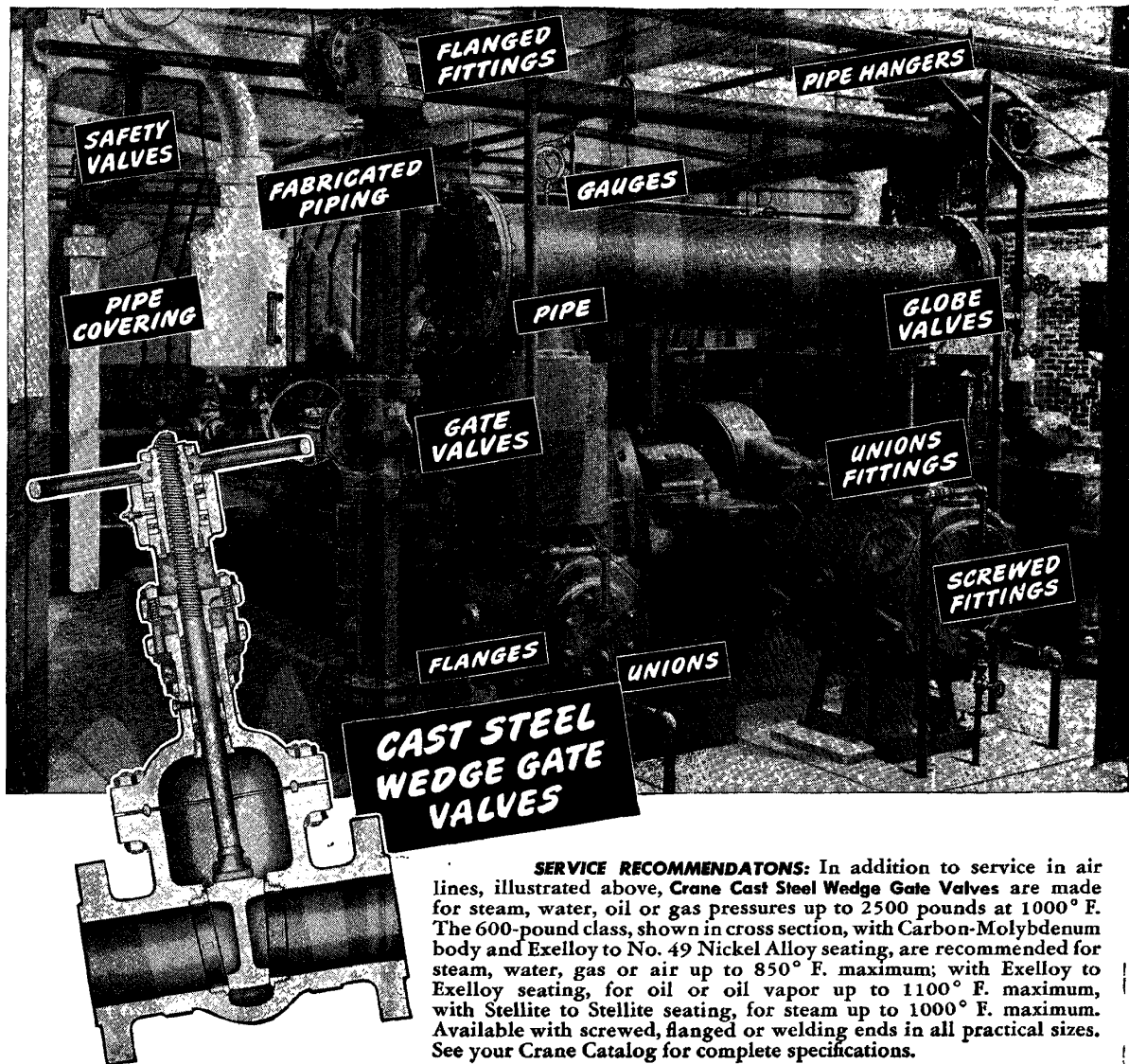
Wherever You Need Piping Materials ...RELY ON CRANE

ONE SOURCE OF SUPPLY • ONE RESPONSIBILITY • ONE STANDARD OF QUALITY

Supplying everything necessary for any piping system is the job of your Crane Branch or Wholesaler. This single source offers the world's greatest selection of piping materials—in brass, iron and steel. Uniform quality in all materials—backed by single responsi-

bility—helps assure the best installation. By using Crane *complete* piping materials service, you speed deferred replacements—keep piping performance at its best. Below is an example of the completeness of the Crane line—in Cast Steel Wedge Gate Valves.

Steam-Driven Air Compressor



SERVICE RECOMMENDATIONS: In addition to service in air lines, illustrated above, Crane Cast Steel Wedge Gate Valves are made for steam, water, oil or gas pressures up to 2500 pounds at 1000° F. The 600-pound class, shown in cross section, with Carbon-Molybdenum body and Exelloy to No. 49 Nickel Alloy seating, are recommended for steam, water, gas or air up to 850° F. maximum; with Exelloy to Exelloy seating, for oil or oil vapor up to 1100° F. maximum, with Stellite to Stellite seating, for steam up to 1000° F. maximum. Available with screwed, flanged or welding ends in all practical sizes. See your Crane Catalog for complete specifications.

CRANE CO., General Offices: 836 S. Michigan Ave., Chicago 5, Ill. • Branches and Wholesalers Serving All Industrial Areas

CRANE



VALVES • FITTINGS • PIPE
PLUMBING • HEATING • PUMPS

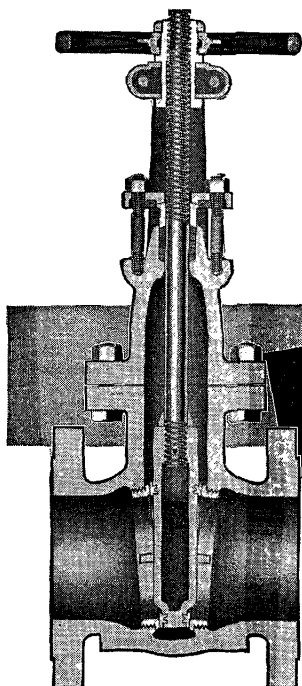
CALL ON CRANE...

Headquarters for ALL Piping Materials

ONE SOURCE OF SUPPLY
ONE RESPONSIBILITY FOR ALL PARTS
ONE STANDARD OF QUALITY

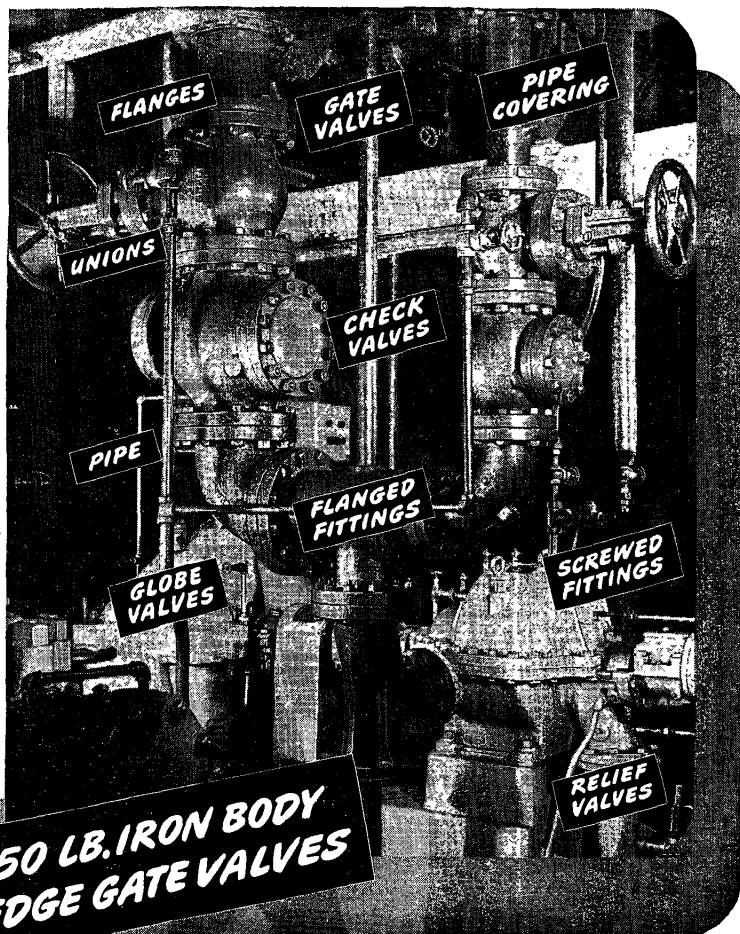
Look at the advantages you get when you depend on Crane for all your piping material needs. You choose from the world's greatest line—in brass, iron and steel. One source—your Crane Branch or Wholesaler—supplies all your requirements for any job. Undivided responsibility protects the quality and craftsmanship of every part. Thus, while speeding deferred replacements and keeping piping at peak efficiency, you are benefiting by Crane Co.'s 90-year experience in the field of piping equipment.

EVERY
PV1193



Pump discharge piping in industrial plant.

**250 LB. IRON BODY
WEDGE GATE VALVES**



SERVICE RECOMMENDATIONS: Crane 250-lb. Iron Body Wedge Gate Valves are recommended for services too severe for Standard valves but where the use of steel valves is not justified. Available in all-iron or brass-trimmed; in O. S. & Y. or Non-Rising Stem patterns. With screwed ends up to 4 in.; flanged ends up to 12 in. See your Crane Catalog for complete specifications.

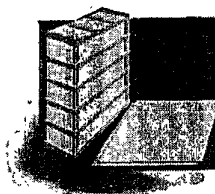
CRANE CO., General Offices: 836 S. Michigan Ave., Chicago 5, Ill. • Branches and Wholesalers Serving All Industrial Areas

CRANE



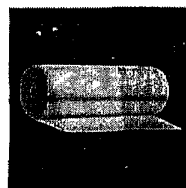
**VALVES • FITTINGS • F
PLUMBING • HEATING • P'**

ASBESTOS SHEET MILLBOARD



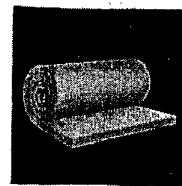
CODE: MYODOCHA

ASBESTOS PAPER



CODE: MYONNESOS

HAIR FELT



CODE: MYOPHONI

ASBESTOS SHEET MILLBOARD

STANDARD SHEETS 40x40 OR 42x44 INCHES

For general use where sheet or board is desired for protection against fire, heat, acid fumes, etc. Made of asbestos fibre and suitable binders.

Approx. Thickness.....Inches	1/32	3/64	1/16	3/32	1/8	3/16	1/4	5/16	1/2
Approx. Weight, per sheet, Pounds	2	3	4	6	8	12	16	24	32
Price, All Sizes.....	Per Pound .30								

ASBESTOS PAPER

Approx. Thickness.....Inches	.015	.018	.02	.025	.028	1/32	1/16
Approx. Weight, 100 sq. ft.....Pounds	6	8	10	12	14	16	38
Price, All Sizes.....	Per Pound .25						

HAIR FELT

Put up in bales 6 feet wide containing 300 square feet.

Hair Felt is used extensively for the protection of cold water pipes against freezing; for lining refrigerators, etc. It is also used, in connection with insulation for hot water pipes.

Thickness.....Inches	1/4	1/2	3/4	1	1 1/2	2
Price Per Square foot.....	.05 1/2	.06 1/2	.08 1/2	.10	.15	.19

ASBESTOS CEMENT

Asbestos Cement, 100 pound bag.....	Per Bag	2.50
Asbestos Cement Felting, 100-pound bag.....	Per Bag	5.00
Asbestos Hot-Blast Cement Felting, 100-pound bag. . .	Per Bag	7.00
85% Carbonate of Magnesia Cement, 60-pound bag.....	Per Bag	7.50

A bag of cement will cover surfaces as follows:

Asbestos Cement 20 to 25 square feet, 1-inch thick.

Asbestos Cement Felting, 25 to 30 square feet, 1-inch thick.

Asbestos Sponge Cement Felting, 40 square feet, 1-inch thick.

Asbestos Hot-blast Cement Felting is applied according to the degree of heat.

85% Carbonate of Magnesia Cement, 35 square feet, 1-inch thick.

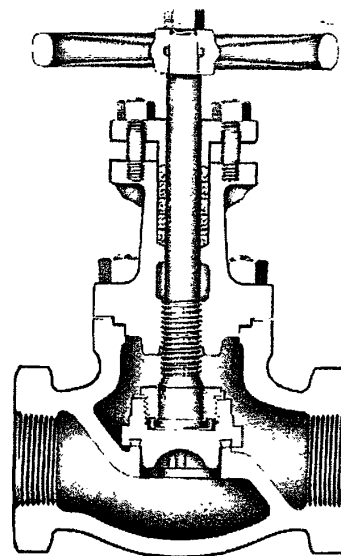


ALL PIPING EQUIPMENT YOU NEED ... FROM ONE SOURCE OF SUPPLY

SAFER CONTROL FOR MANY SERVICES, Crane Ferro-steel Globe and Angle Valves—especially designed for high pressure ammonia refrigeration service—also find wide application on air, gas, oil and chemical lines where heavy, all-iron construction is desired. Special Crane seating design, rugged construction, and precise manufacture combine to make these valves safer, more efficient on all heavy duty services.

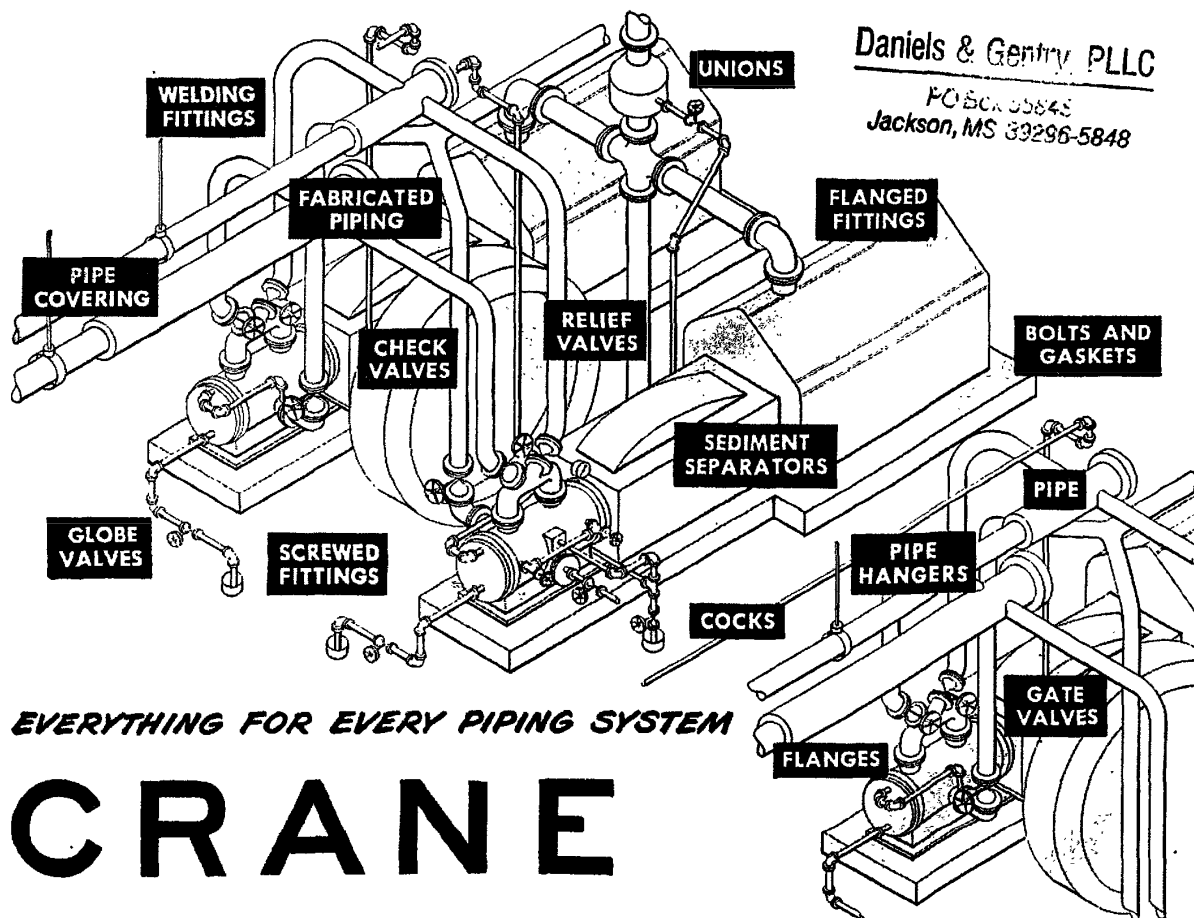
For volatile and hazardous fluids, these valves are supplied with a lead face disc specially designed for tight seating. For high temperatures and certain corrosive conditions, a case-hardened steel disc and seat can be supplied. Available with tongue and groove flanged ends, or screwed ends with extra long threads, and recessed for soldering. See your new No. 49 Crane Catalog, p. 394-5.

CRANE CO., 836 S. Michigan Ave., Chicago 5, Ill.
Branches and Wholesalers Serving All Industrial Areas



WORKING PRESSURES:
300 pounds ammonia;
500 pounds oil, gas, or air up to 100° F.
Sizes: 1/4 to 3 in.; Screwed or flanged ends.

**THIS AMMONIA COMPRESSOR INSTALLATION, FOR EXAMPLE,
CAN BE COMPLETELY EQUIPPED BY CRANE**



Daniels & Gentry, PLLC
PO BOX 55845
Jackson, MS 39296-5848

EVERYTHING FOR EVERY PIPING SYSTEM

CRANE

VALVES • FITTINGS • PIPE • PLUMBING AND HEATING

One Order to CRANE

covers all the Piping Materials

... And that goes whether you're installing a boiler or a compressor, a process piping system or a washdown water line. You can get everything from Crane.

It's the *complete* Crane line that saves time in writing specifications... in ordering materials... and on the installation. It's the line that simplifies piping procedures from design to erection to maintenance. Because it permits standardization on the widest scale... and because standardizing on Crane equipment gives you this 3-way advantage:

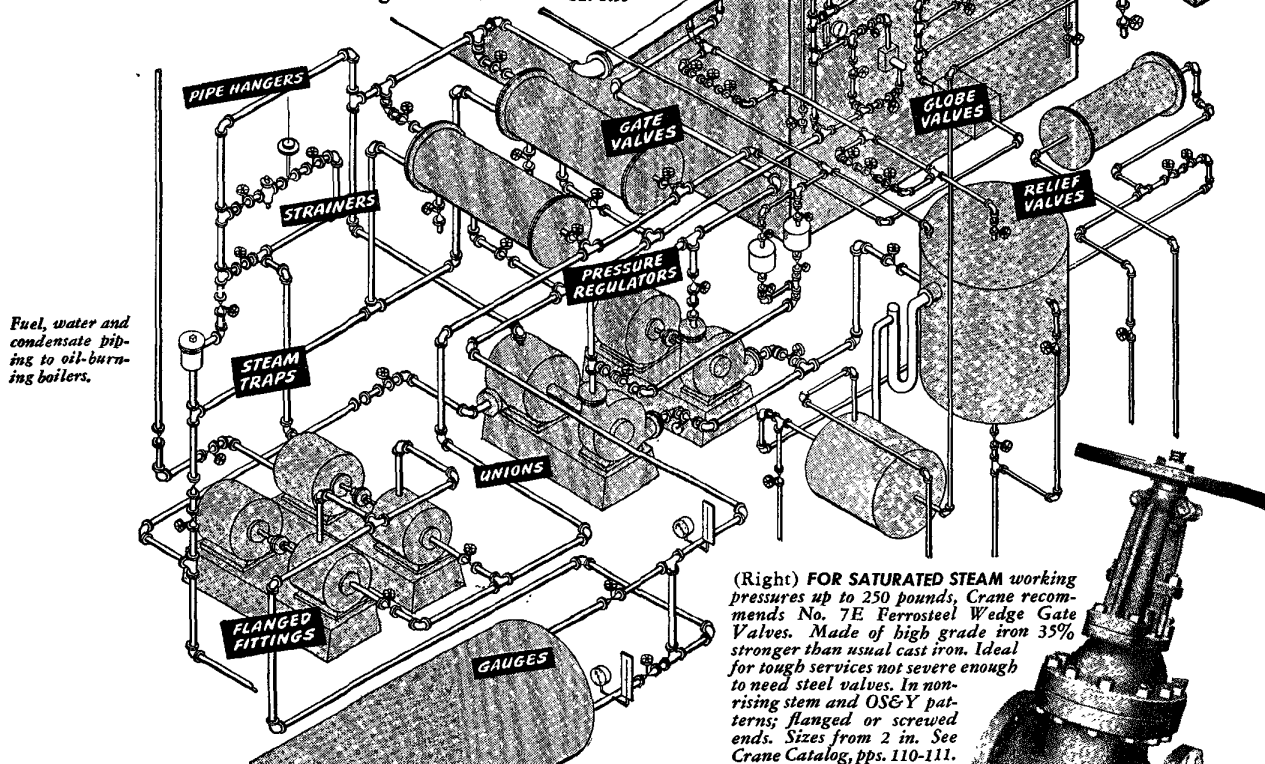
ONE SOURCE OF SUPPLY offering the world's most complete selection of valves, fittings, pipe, accessories and fabricated piping for all power, process, and general applications.

ONE RESPONSIBILITY for piping materials—helps you to get the best installation and to avoid needless delays on jobs.

OUTSTANDING QUALITY in every item—assures uniformly dependable performance from every part of piping systems.

CRANE CO., 836 S. Michigan Ave., Chicago 5, Ill.
Branches and Wholesalers Serving All Industrial Areas

ONE
SOURCE OF SUPPLY
RESPONSIBILITY
STANDARD OF QUALITY



Fuel, water and condensate piping to oil-burning boilers.

EVERYTHING FROM ...

VALVES • FITTINGS
PIPE • PLUMBING
AND HEATING

CRANE

FOR EVERY PIPING SYSTEM

85% MAGNESIA PIPE COVERING

Stock No. 400

FOR LOW AND HIGH PRESSURE STEAM PIPES

Composed of Magnesia and Asbestos Fiber. The Asbestos is of unusually long fiber, which also serves as a thorough binder and with the outer shell or wrapper of the canvas makes a very durable as well as an excellent non-conductor. Is made in sections 3 feet long. Sections are cut lengthwise through the center, and price includes necessary bands to hold in position on the piping. Gives the maximum amount of protection against loss of heat.

Sections 3 feet long. Sections are cut lengthwise through the center, and price includes necessary bands to hold in position on the piping. Gives the maximum amount of protection against loss of heat.

WOOL-FELT COVERINGS

Stock No 401

FOR HOT-WATER PIPES

Can be furnished in $\frac{1}{4}$ inch, $\frac{1}{2}$ inch and $\frac{3}{4}$ inch thicknesses. $\frac{1}{4}$ inch will be shipped unless otherwise specified.

Composed of successive layers of soft wool-felt lined with asbestos sheathing and furnished with canvas jacket and necessary bands. Supplied in sections 3 feet long, cut lengthwise through the center.

**AIR CELL PIPE COVERING**

Stock No. 398



Formed by alternate layers of plain and corrugated (or ribbed) asbestos paper running lengthwise of the pipe. A good form of covering, giving full protection to the pipe.

Supplied in sections 3 feet long and cut lengthwise through the center. Neatly finished with canvas and bands.

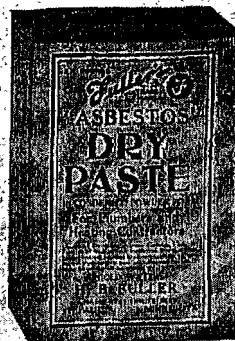
Can furnish in $\frac{1}{4}$, $\frac{1}{2}$ and 1 inch thicknesses. See following page for list prices. Write for discounts.

**MAGNESIA, WOOL-FELT AND AIR-CELL
PRICE LIST**

Inside Diameter of Pipe	Price Per Lineal Foot	Inside Diameter of Pipe	Price Per Lineal Foot
$\frac{1}{4}$ in.	\$0.22	4 in.	.60
$\frac{1}{2}$ in.	.24	4 1/2 in.	.65
1 in.	.27	5 in.	.70
1 1/4 in.	.30	6 in.	.80
1 1/2 in.	.33	7 in.	1.00
2 in.	.36	8 in.	1.10
2 1/4 in.	.40	9 in.	1.20
3 in.	.48	10 in.	1.30
3 1/2 in.	.50	12 in.	1.35

FULLER PASTE

Is unsurpassed for sticking Asbestos Coverings, Cloth and Paper on all kinds of hard, smooth, heated surfaces. No cooking or steaming necessary. Prepared for use by stirring powder into cold or warm water. Can be mixed thick or thin, in any quantity, as purpose requires. Has extensive covering capacity, one pound of the powder making over a gallon of paste ready for use. Is convenient and sanitary. It keeps forever in powder form. Sold in 200 lb. barrels, 100 lb. half barrels, 35 lb. pails, 2 1/2 lb. cartons.



2 1/2 lb. Carton

200 lb. Barrels	60c per lb.
100 lb. Half Barrels	70c per lb.
35 lb. Pails	80c per lb.
10 lb. Sacks	90c per lb.
5 lb. Sacks	90c per lb.
5 lb. Cartons	100c per lb.
2 1/2 lb. Cartons	100c per lb.