

Makes
ALL
VALVES
INSTANTLY
Accessible



Instant, handy, safe control of overhead and other out-of-reach valves. Eliminate danger to employees; banish the stepladder. Now—install valves anywhere they should be, regardless of accessibility.

Inexpensive BABBITT Sprocket Rims fit all types and makes of valves, with either rising or non-rising stems. Installed quickly by clamping directly onto hand wheel of valve. Eliminates makeshift copers and specially-made chain wheels.

The standard size
and type of all valves
from 2 to 36
inches in diameter.

Raymond Catalog
Shows all types and
makes of valve
distributors.

Babbitt
Sprocket Rims
with Chain Clutch

BABBITT STEAM SPECIALTY COMPANY
1000 N. 10th St., Milwaukee, Wis. 53233
N. 10th St., Milwaukee, Wis. 53233

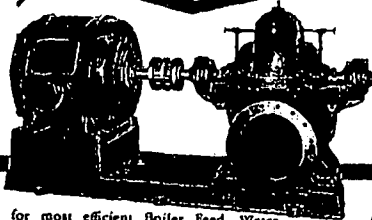
Diesel Engines

A SPECIAL SECTION

In its April issue **POWER** will commemorate the 50th Anniversary of the American diesel engine with a comprehensive survey of modern engines. Watch For It!

FREDERICK CENTRIFUGAL PUMPS

Engineered to fit your job!



Designed for most efficient Boiler Feed, Water Works, Circulation, Drainage or General Service... Capacities up to 20,000 G.P.M. ... Heads up to 600 P.S.I. ... Open, Splash proof or totally enclosed ball bearing motors and steam turbine drive... In constant use today by many leading power plants.

Frederick
IRON AND STEEL, INC.
Pump Division Frederick 4, Md.

—Send for these attractive, color-
ful booklets which give details of
construction and operation of
Frederick Pumps. They'll show
you how Frederick Pumps are
engineered to fit your job. Ask
for Bulletin 103 & 104.

ALSO MANUFACTURERS OF PRECUT AND PREFORM METALWORKING MACHINERY,
FREDERICK SIGNETS AND ASH CONVEYORS AND A COMPLETE LINE OF GRAY IRON CASTINGS.

—business under a new alignment
university's business and financial
tions. (5) Lewis H. Darland, has
named treasurer to assume financial
responsibilities formerly held by Reginald
(6) Raymond F. Howes has been
secretary.

National Electrical Manufacturers
has elected three Cutler-Hammer
NEMA chairmanships for the coming
F. A. Wright, Cutler-Hammer assistant
general sales manager, was made chairman
advisory committee, Industrial Control
tion. A. R. Johnson, Cutler-Hammer
manager of merchandising sales, was elected
chairman of knife and enclosed switch
section. R. A. Miller, Cutler-Hammer
assistant manager of development, has
been named chairman of general engineering
section. He also has been appointed chairman
of general engineering committee on
small air circuit breaker section.

Louisiana Engrs. Society has inducted
following engineers for 1948: W. S. S.
Leske, president; H. L. Lehmann, first
vice-president; L. J. Coculla, second vice-presi-
dent; and John P. Fernandez, secretary-
treasurer.

Brady-Parkinson Co., an advertising,
marketing, and business consultation firm,
announces that it has changed its name
to Richard H. Brady Co., Executive offices
are at Stevens Point, Wis. Other
offices are in Appleton and Wausau.

John Gilbert Craig, Inc., advertising,
has announced removal of its offices to
913 Washington St., Wilmington, Del.

OBITUARIES

James C. Biddle, 79, a Philadelphia
pioneer in the field of measuring instru-
ments, and founder and chairman of board
of directors of James C. Biddle Co., died
on Dec. 21 after a brief illness.

Prof. George F. Bateman, dean of the
School of Engineering at Cooper Union,
New York City, died suddenly Jan. 2.
Associated in a teaching capacity with
Cooper Union ever since his graduation
there in 1907, he was named dean in 1930.
He was active in the affairs of ASME,
the New York Electrical Society, American
Society for Engineering Education,
Engineers' Council for Professional De-
velopment, and the Newcomen Society.

Alva J. Chubb, 57, publisher of *National
Engineer* and a member of National Assoc-
iation of Power Engineers, Chicago 2, died in
Methodist Hospital, Indianapolis, on Dec.
31, 1947, following several weeks of illness.
His home was in Greenfield, Ind.

Dr. August C. Klein, 61, vice-president
and engineering manager, Stone & Webster
Engineering Corp., Boston, died of a
heart attack on Feb. 3. He was on
vacation trip to Jamaica, B. W. I.

Carroll E. Maine, 72, a retired utility
engineer of Racquette River Paper Co.,
Pawtucket, R. I., died Jan. 19. He had been
associated with the company for 20 years,
retiring in Jan. 1947.

How would you
insulate a line
that delivers
both heat and cold?

STATE THE PROBLEM: A piping system car-
ries air to test airplane carburetors. For weeks
the air is heated to 200° F. For somewhat
shorter periods the same line delivers air at 75°
below zero. What covering for the pipes will
stand both these temperatures economically?

☐ 9" Cork covering or lagging

☐ 3" 85% Magnesia and 6"
cork lagging

☐ Standard Thick Magnesia and
7" cork lagging

Here's what the Armstrong Engineer recommended:

The first suggestion—9" cork cov-
ering—would be excellent for the
low-temperature phase of the opera-
tion. But the 200° F. heat would
eventually cause the cork to shrink
and crumble. It is never used for
temperatures over 150° F.

The second suggestion, 3" of
Magnesia and 6" of cork, would
provide sufficient insulation to per-
mit economical operation of the
line. However, three inches of mag-
nesia is more than is required to
reduce temperatures to within
practical limits for the outer layer
of cork when the line is operating
at 200° F. Also, it would not take
full advantage of the higher insu-
lating efficiency of cork.

The third suggestion, Standard
Thick Magnesia and 7" of cork
lagging, is the most practical and
economical specification for this
line. Standard Thick Magnesia is
sufficient to bring the temperature
at the cork below 150° F. Over the
Magnesia, 7" of cork lagging will
provide adequate insulation to
maintain the 75° below zero tem-
perature for the length of time re-
quired on this job. And the cork
lagging can be tightly sealed
to prevent damaging vapor pene-
tration when the line is operating
at low temperatures.

An unusual problem like this
cannot, of course, be solved by any
simple rule of thumb. Dozens of

factors must be analyzed and pro-
vided for. Armstrong's engineers
are qualified by training and ex-
perience to give you the right an-
swer. That's why it pays you to
talk over your insulation problems
with an Armstrong engineer. He
can furnish expert advice, as well
as the right materials and skilled
workmen for applying them.

FREE INSULATION CHECK LIST
This chart lists types and thicknesses of
insulation for temperatures from 300°
below zero to 2800° F. Write today to
Armstrong Cork Co.,
Industrial Insulation
Department, 1903
Maple Ave.,
Lancaster,
Pennsylvania.



ARMSTRONG'S INDUSTRIAL INSULATION

Complete Contract Service
For All Temperatures

To 2800°
Fahrenheit