

Full OPERATING ECONOMY

Positive Drainage of Processing Units . . .
Increased Boiler Capacity and More Uniform Operating Pressures . . . Greatly Reduced Fuel Consumption . . . PLUS Other Operating and Maintenance Savings

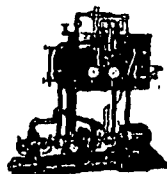
Stickie Drainage for steam processing equipment provides for completely efficient unit performance. Stickie Traps allow heating spaces to be filled continuously with live steam. Condensate is removed as rapidly as it accumulates. Air is eliminated with condensate. Stickie Open Float principle supplies positive trap operation, and provides construction simplicity that frees traps of mechanical difficulties. Made in series designs for various drainage applications and specific conditions of operation.

STICKIE SERIES 100 TRAPS, designed for straight-in-line installation, meet the requirements of all types of smaller equipment operating at medium to high pressures. Capacity ranges, 250 to 5,000 lbs. per hour. Described in Bulletin No. 113.

STICKIE SERIES AB TRAPS have four times the capacity of standard traps and handle drainage for a wide range of industrial processing, with equipment operating at medium to high pressures. Capacity ranges, 3,000 to 40,000 lbs. per hour. See Bulletin No. 313 for data.

STICKIE SERIES 80 TRAPS are specifically designed to handle condensate from processing units operating at high pressures having variable conditions of pressure and variable rates of condensation, such as submerged coils in large open tanks. Capacity, eight times that of standard traps, with capacity Bulletin No. 313.

STICKIE SERIES Y TRAPS have a wide range of application for draining units operating at medium and low pressures and on vacuum. The series includes radiator traps, small to large utility traps, and traps of extra large capacities. Bulletin No. 413 supplies complete information.



Eliminate Waste OF BTUs

This trapping of equipment combined with Stickie Differential Drainage and Boiler Return System permits all condensate to be returned directly to boilers at a temperature only a few degrees lower than steam at operating pressure. Fuel saving, on average between 10 per cent, or more of boiler supply. Fuel saving, on average between 10 per cent, or more of boiler supply. Fuel saving, on average between 10 per cent, or more of boiler supply. Fuel saving, on average between 10 per cent, or more of boiler supply.

STICKIE STEAM SPECIALTIES COMPANY
2265 Valley Avenue, INDIANAPOLIS 18, INDIANA

Successfully Serving
for More than 40 Years
Paper Mills, Food
Processors, Textile and
Woolen Mills, Lumber
and Other Manufacturers
Using Steam
for Industrial Processing

STICKIE EQUIPMENT

STICKIE DIFFERENTIAL AND BOILER RETURN SYSTEMS •
STICKIE OPEN FLOAT STEAM TRAPS • STICKIE REGULATING AND
REDUCING VALVES • STICKIE OPEN COIL FEED WATER HEATERS
AND PURIFIERS • STICKIE OIL AND STEAM SEPARATORS
STICKIE TEMPERATURE CONTROLLERS AND OTHER SPECIALTIES

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and colloids; thermodynamics and
fluid systems; the study of micro-
circles by ultracentrifuge, electrophoresis
and diffusion measurement; kinetic theory
of high elasticity.

ENGINEERING DATA BOOK, by Arthur
Vogel, 34 pp, 8 1/2 x 11, illus., paper, \$1.25.
Rempe Co, 340 N Sacramento Blvd, Chi-
cago 12, Ill.

Here is a guide for the engineer and
drafter in the design of pipe and
coils, with specific data on the subject of
dimensional limitations, cold-drawn
formulas and heat-transfer factors.

AIR CONDITIONING (1947), By Herbert
Herker, consulting and industrial engi-
neer, past director, Herker Industries, Inc.,
Mechanical Trades and Harold Herker,
Design engineer and project manager,
Raiser Corp., 692 pp, 5 1/2 x 8, illus., cloth,
and charts, cloth \$12. Chemical Publish-
ing Co Inc, Brooklyn, N. Y.

First part of the book reviews the history
of chemistry and physics associated with
the science of air conditioning. Second
part deals with the practical side, the
equipment, material and costs. The book
is based, says the author, on a collection
of notes and personally prepared formulas,
accumulated over a 25-year period of ex-
perience in the air-conditioning field.

HOW TO RUN A LATHE (45th edition) 128
pp, 5 x 8, 365 illus., paper \$0.25. Leather-
ette cover, \$1. South Bend Lathe Works,
459 E Madison St, South Bend 22, Ind.

Beginning with the history and develop-
ment of the screw-cutting lathe this book
tells how to install and operate a
lathe. Numerous illustrations show how
to grind cutting tools and adjust them to
best results, and how to take measurements.
If you have occasion to operate
a lathe here is a book you can read and
understand. It covers such subjects as
plain turning, chuck work, taper turning,
boring, cutting screw threads, drilling and
reaming.

**WOVEN-WIRE CONVEYOR BELTS FOR IN-
DUSTRIAL APPLICATIONS (1947)** By S. C. Gray,
Alexander and Fred L. Hooper, 56 pp,
5 1/2 x 8 1/2 in., 84 illus., paper, free. Cambridge
Wira Cloth Co, Cambridge, Md.

This little book is a compilation of
articles on the design, construction, opera-
tion and maintenance of woven-wire con-
veyor belts in industrial application. The
wide range of material used in construc-
tion of such belts is considered with refer-
ence to how various metals and alloys in-
fluence the life of woven-wire belts sub-
jected to high temperatures and chemical
attacks. Different belt weaves are de-
scribed, showing how design details affect
rigidity, strength and service life. Some
of the great number of ways that woven-
wire belts can be installed are shown and
discussed.

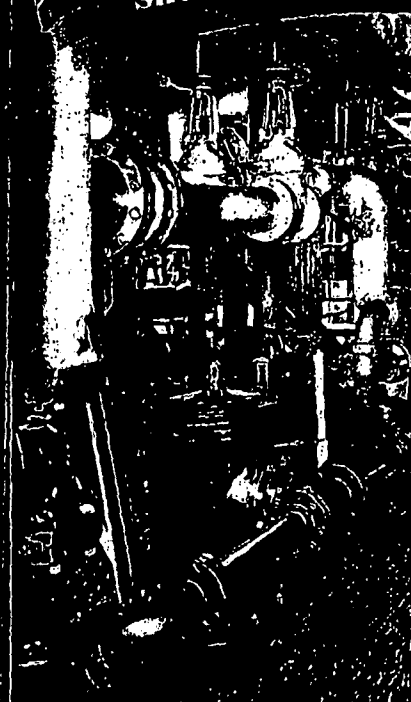
(Continued on page 148)

INSTALL STEEL PIPING ADEQUATE FOR TOMORROW'S NEEDS

Steam load doubled
since 1945 . . .

"oversize" piping is
still adequate

INCREASING PIPE SIZE
BY 4% DOUBLES THE
LOAD CAPACITY



YOU'D think doubling the load
would call for extensive--and expensive--
plant alterations, including replace-
ment of pipe, valves, fittings, etc. But
this was an engineer gifted with fore-
sight. In the reconversion of 1945, he
"oversized" his pipe all the way along,
40% to 50% bigger than "will do." He
was preparing for what did happen.

Of course, there is a point in this for
today's construction work: Looking
ahead, with steadily increasing loads
very much in prospect, isn't it cheaper
and smarter to pay extra and put in, for
example, a 3-inch steel pipe instead of
two-inch today, rather than figure on
getting by with two-inch now and when
necessary, rip it out to install 3-inch in
a couple of years?

A few dollars' worth of foresight today
is worth more than a fortune in hind-
sight tomorrow--especially when it
comes to anything so permanent as good
steel pipe.

Pipe and Tubular Products: Sheets, Plates, Rods, Wire, Cold Drawn, Carbon Steel Round, Tie Plates and Spikes.

YOUNGSTOWN

THE YOUNGSTOWN SHEET AND TUBE COMPANY
CINCINNATI, OHIO
PITTSBURGH, PA.
CLEVELAND, OHIO
COLUMBUS, OHIO
DAYTON, OHIO
KANSAS CITY, MO.
ST. LOUIS, MO.
SPRINGFIELD, OHIO
TOLLEDO, OHIO
WHEELING, OHIO
WILMINGTON, OHIO
YOUNGSTOWN, OHIO

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