APPROVED

To the Industrial Engineer the characteristic of Stickle Equipment is *Dependability*: It does the job for which it is recommended. To the Plant Superintendent, Stickle Equipment is synonomous with *Smooth, Efficient Operation*. To the Production Manager, Stickle Equipment means Quota at *High Quality Level*—to the Plant Engineer, *Maintaining Steam Pressures with Less Firing*. To the General Manager, Stickle Equipment stands for *Production at Lower Cost*.



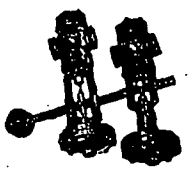
Stickle Open Float Steam Traps APPROVED—

Approved for simplicity of construction, trouble-free operation, and long service life. Stickle Open Float, basic to entire Stickle line of traps, provides natural, positive action and frees units of all levers, hinges or other complicated interoal mechanism. Large capacities in proportion to size. Air and gases eliminated with condensate.

In series designs and sizes to meet requirements of specific operating conditions. Descriptive bulletins and engineering data on request. State application and working pressure.

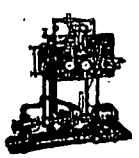
Stickle Regulating and Reducing Valves APPROVED—

Stickle Valves are approved for complicated pressure regulation, being especially designed for use where pressure control within extremely close limits is essential. Sensitive, accurate—simple, compact. Easy to install. Renewable parts.



Self-contained valves in Single-seated, Balanced and Double-seated, Semi-balanced series, required sizes. Also Pilot-operated valves, Back-pressure valves and Float valves. Request descriptive bulletins with engineering data.

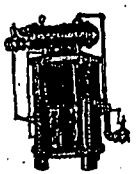
Stickle Differential Drainage and Boiler Return Systems APPROVED—



These systems are approved for plants operating steam processing units at medium to high pressures. They return condensate to boilers, under pressure, at temperatures *only a few degrees lower than steam* at operating temperature. Reduce steam costs, increase boiler capacity, and save pumping costs and boiler and steam line maintenance.

Systems built to meet operating requirements and conditions of specific plants. Advantages predetermined and guaranteed. Installed without interfering with plant operations. Ask for special bulletin.

Stickle Open Coil Feed Water Heaters and Purifiers APPROVED—



Approved for heating larger quantities of water to higher temperature in less space—delivering feed water to boilers at temperature within two degrees of saturated steam in heaters. Eliminate scale-forming substances and oxygen. One-sixth of total volume of boiler feed pure distilled water. Use exhaust steam for heating. Require little attention.

There is a Stickle Heater available for any industry. Capacities from 3,000-lb. single heaters to 250,000-lb. dual heaters.

Deaerating and Non-deaerating types. Cast iron or steel construction. Built standard or with extra storage space.

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STICKLE EQUIPMENT

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

OPERATOR TRAINING

Training Operating Engineers, *by Garrett Burgess, National Association of Power Engineers.* An attempt to bring to the operating engineer an understanding and knowledge of fundamental power theory underlies the work of the author's organization in its training efforts for operating engineers. The feeling is expressed that men learn best from fellow engineers who are either working on or have had close contact with the same type of job. *MPC Paper.*

Training Power Plant Personnel, *by O Casteel, East St. Louis, Ill.* Job training gives fundamentals to the operator, explains the objectives and invites participation in working out details. A lecture-conference method of presentation served to cover these points in one program with which the author was associated.

The returns from a good training program appear in many forms. One very evident and more or less to-be-expected result is a saving in operating costs from better use through better understanding of equipment. A secondary but every bit as important return is that a well-run training program discovers men. It points out operators capable of greater responsibilities. *MPC Paper.*

A Training Program for Custodians and Boiler Operators, *by Julius Barbour, East Lansing, Mich.* In 1935 Michigan State College issued an invitation to school superintendents, purchasing agents, custodians and operating engineers to attend a 3-day campus conference on problems and demonstrations of work practices.

A course of study grew out of this meeting. It is printed by the State Dept of Education in Michigan in Bulletin No. 2024 entitled, *A Training Course for School Custodians.* The author then described and gave details on an "on-the-job" training institute by Michigan State College for this class of boiler operator. *MPC Paper.*

Francis Cowles Frary, director of research, Aluminum Co of America, was elected recently to receive the Gold Medal of American Society for Metals for 1948. The Gold Medal is to be presented during National Metal Congress and Exposition in Philadelphia Oct 25-29. According to W. P. Eisenman, national secretary of the society, the ASM Gold Medal is awarded "for outstanding metallurgical knowledge, great versatility in application of science to the metal industry, as well as exceptional ability in diagnosis and solution of unclassified metallurgical problems."



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You save with the Worthington YC Compressor—right from the start.

It arrives completely assembled. Installation cost is low, because there's no alignment problem. No erecting *engineer needed.* Just make the air and power connections and it's ready for work.

You save on space, too. The YC needs only one-half the building space and one-quarter the foundation space of same-capacity horizontals.

There's more operating economy for you in the balanced Y-frame construction for higher rpm and the famous Worthington Feather* Valves—most efficient ever made.

And for years to come you'll benefit from maintenance savings. Valves are unusually accessible; openings are large for quick inspection; spare parts are smaller, less expensive. And finally, you'll always pay less for power, due to the YC's instantly responsive 3- and 5-step *variable capacity control.*

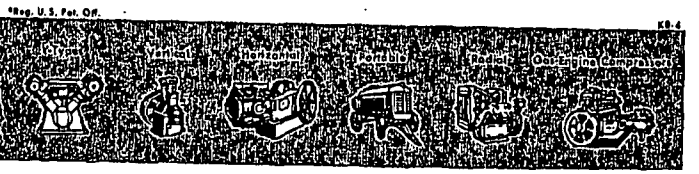
WRITE FOR DETAILS

that show how Worthington YC Compressors can reduce your air costs. Bulletin L-667-B1A has the facts that prove there's more worth in Worthington. Worthington Pump and Machinery Corporation, Compressor Division, Buffalo, New York.

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