

TRouble-FREE
KEWANEE
SCOTTIE JR

For 6 to 30 H. P. at 100 lbs. W. P. Like a steel bridge you can't wear it down. Every part is possible and it's easy to handle. Truly trouble-free and economical to operate. For Oil, Gas, Coal.

For 6" Size with pipe diameter markings—WILLI Sept. 99-28

KEWANEE BOILER CORPORATION
 Kewanee, Illinois
 Division of American Bridge & Structural Steel Company

**WATCH FOR OCTOBER POWER
 MODERN PLANT SURVEY**

Design trends . . . plant descriptions . . . new installation lists

YOUR GUIDE TO TODAY'S POWER PRACTICE

Stop HAMMERING AND VIBRATION IN YOUR BOILER FEED LINES!

Here's how specify **CATAWISSA SINGLE UNION SPRING CONTROLLED CHECK VALVES!**

full view

- Positive Sealing!
- Easy access to all parts!
- Eliminate hammering and vibration!
- Eliminate additional union and nipple!

For boiler feed lines and other applications requiring maximum dependability!

— RECOMMENDED FOR —
 400-lb. Working Steam Pressure
 800-lb. Pressure AOWG to 150° F.
 Tested to 2000-lb. Non-Shock Hydrostatic Pressure

See your industrial supply distributor or
WRITE DIRECT FOR BULLETIN 10-A

CATAWISSA VALVE & FITTINGS CO.
 206 Mill St. • CATAWISSA, PENNSYLVANIA

cutaway view

Jersey City plant, 450 Communipaw
 Norman Collins, hydraulic engineer
 Airex Mig Co, has joined Manning, Well & Moore, together with other Airex personnel.

18 K Ferguson Co has retained Dr. W. Newson as a full-time consultant nuclear reactor design.

Lawrence Washington announces organization of Washington Engrg Co, 707 Third St. Palo Alto, Calif., for construction, product design and development, laboratory testing in fields of air conditioning, heating and ventilation, refrigeration, and heat transmission.

Midwest Research Institute's engineering mechanics dept., under supervision of Martin Coland, will have following members: Herbert Aranson, Malcolm Easterday, Wallace Merit Youcum and Lawrence A. Platt. Dr. C. L. Shrewsbury, head of agricultural and organic chemistry dept., will have following new staff members: Dorothy B. Powers and Harold Brannin.

Dr. Harold Vagstberg, president and director of Midwest Research Institute at Kansas City, Mo., has announced to board of directors his resignation to permit him to accept appointment, effective Sept. 1, as president and director of Southern Research Institute based in Houston, Texas, as director of Institute of Inventive Applied Research; also as technical director of the \$500-acre Eassey Ranch located just outside city limits of Austin, Texas. Dr. George E. Ziegler, executive scientist, will continue in his capacity and will also take over administrative responsibilities of Midwest Research Institute until Vagstberg's appointment is announced.

Donald S. Walker, vice-president of Hushion Engrg Co, New York City, has been elected to serve a second term as president of U. S. Naval Academy Alumni Assn.

C. G. Dandrow, vice-president of Johnsville Sales Corp. and general sales manager of Industrial products div., has been elected president of Mass. Institute of Technology Alumni Assn.

Columbia University has announced retirement of Professor Arthur W. Hume, executive officer of dept. of chemical engineering. Professor Thomas B. Dreyer succeeds him.

James B. Morrow, first vice-president of Pittsburgh Consolidation Coal Co., has been elected president of Bituminous Coal Research, Inc. Morrow replaced H. N. Eaveson. Robert H. Sherwood, president of Central Indiana Coal Co., Indianapolis, Ind., was elected first vice-president. The directors also elected R. D. Smith to a vice-presidency and Dr. W. H. Rose was re-elected as vice-president and director of research. Dr. Charles E. H. assistant vice-president, and engineering

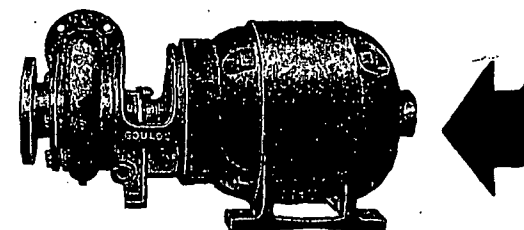
NEW PUMP DESIGN

Moves more liquid... at less cost

YOUR PROBLEM: To move a liquid from one place to another place—and do it cheaply. Your cost is important. It includes initial cost, installation cost, and maintenance cost. And you don't want breakdown costs.

GOULDS ANSWER:

**The New
 "CLOSE-CUPLD"
 Centrifugal**



ABOUT INITIAL COST: The initial cost is about the same as other quality pumps.

ABOUT INSTALLATION COST: All you do is set this compact pump in place, connect it up and turn on the current. That greatly reduces installation cost.

ABOUT MAINTENANCE COST: The new design is aimed at maintenance cost. There are 5 features in particular that stand out: 1. Completely protected shaft, 2. Completely protected motor bearing, 3. Shaft sleeve free to expand or contract without buckling, 4. For flexibility the machined stuffing box is designed for either

mechanical seal or die formed, semi-metallic packing, 5. Split gland for fast stuffing box repacking.

ABOUT BREAKDOWN COST: The new "Close-Cupld" has proved itself outstandingly reliable in the toughest tests we could devise.

ABOUT YOUR PARTICULAR PROBLEM: Goulds "Close-Cupld" comes in 17 sizes . . . capacities to 2000 G.P.M., heads to 400 ft., depending on capacity. You can get "Close-Cupld" bronze fitted, all iron, or all bronze. You get prompt factory delivery, which means a "Close-Cupld" tailored to your particular job.

GOULDS

For one of these new pumps that moves more liquid at less cost, see your Goulds dealer or write to Goulds Pump, Inc., Seneca Falls, N. Y.

PUMPS, INC.

THE PUMP FOR YOU