

## JEFFERSON Specialty UNIONS feature the RECESSED BRASS SEAT

### for permanent tightness without jamming

All Jefferson Specialty Unions feature the Recessed Brass spherically ground Seat which assures a leakproof union rather than a jam joint. Furthermore, this design provides a brass to iron joint with the seat so recessed as to be fully protected from pipe ends should pipe be screwed in too far.

The Jefferson Specialty Union illustrated . . . A Union Tee . . . is recommended for use where a union is required near a tee. The application of a union of this type will simplify piping installation and result in fewer pipe joints.

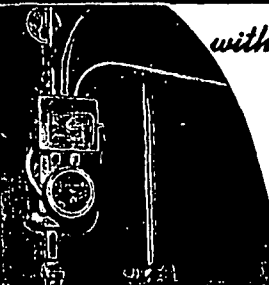
The Jefferson line of Specialty Unions is complete as to types. Full details can be had from your nearest distributor . . . or write us direct.

Jefferson Union Tee, All Female, with union on the run.

## JEFFERSON UNION CO.

601 West 26th St., New York 1, N. Y.  
LEXINGTON 73, MASS. LOCKPORT, N. Y.

## No Waterlogging or Air Binding in HYDRO-PNEUMATIC TANKS EQUIPPED



### with **DUOTROL**

The DUOTROL maintains high water level at a fixed point and correctly balances air pressure after each pumping operation. It provides a maximum volume of water with a minimum of pump operation, saving power and reducing wear. Easy to install, stable adjustments.

The DUOTROL shown is on a tank where water at 50°F. is pumped from a 600 ft. well for summer cooling of a complete shopping center. The pressure range is from 30 to 70 lbs. Ask for Bulletin D-6.

"AUTOMATIC" also makes pressure and float operated pump controls: multi-circuit sequence type, multi-circuit program type, float switches, automatic alternators, and many special controls built to specifications.



**AUTOMATIC CONTROL Company**  
1009 UNIVERSITY AVE., ST. PAUL 4, MINN.

are used by all leading pump manufacturers. When ordering new pumps, specify controls by AUTOMATIC CONTROL CO.

materials require more clearance than others, and normal running speeds vary from engine to engine. Based on average engine usages, the chart on p. 111 can be used as a rough guide to minimum desired oil clearance for five lasing materials.

The bearing manufacturer usually establishes the minimum permissible diametral clearance for the application, based on maximum shaft tolerance, maximum wall thickness and minimum bearing-housing bore. The actual possible maximum oil clearance thus depends on how closely tolerances of the respective parts can be held.

E. H. Dart Mfg. Co., Providence, R. I., has adopted a new firm price policy. On and after Oct. 1, 1947, all prices quoted on Dart products are on a firm price basis, subject to acceptance within 15 days from date of quotation. All products shipped in orders dated Oct. 1, 1947, and thereafter, are billed at prices in effect on date order is accepted, or at prices prevailing at time of shipment, whichever is lower.

Buffalo council legislation committee voted to receive and file application of Buffalo Steam Service Corp. for consent to install steam pipes underground in downtown Buffalo for heating and power purposes. The application, which has been before the committee a year, drew opposition from Buffalo Fuel Merchants Association, International Brotherhood of Firemen and Oilers, International Brotherhood of Operating Engineers, and others at lengthy hearing before the committee in fall and early this year.

### POWER'S History

Power was founded in 1884 by E. F. Harris and H. M. Sweetland. With it was incorporated Steam, which had been started by N. Hawkins in Chicago two years earlier.

In 1903 Power purchased and absorbed Science and Industry, which was a consolidation of a number of periodicals, namely, Home Study Magazine, Home Study for Mechanics, Mechanic's Magazine, Home Study for Building Trades, Building Trade's Magazine, Home Study for Electrical Workers and Steam Electric Magazine.

In 1908 Power absorbed The Engineer's Review, of Cleveland, and The Engineer, of Chicago, the latter being a consolidation of The Safety Valve, Lord's Power and Machinery Magazine, The Stationary Engineer, Steam Engineering and The Mechanical Engineer. When The Engineer was purchased, the name of the combined magazine was Power and the Engineer. The title was condensed to Power in 1911. All rights to the preceding titles reserved.

POWER • January 1948

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does it provide  
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big investment?



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A steam turbine represents one of the largest expenditures that can be made for a single unit of industrial equipment. Compared to that investment, the finest oil you can buy to help protect it is ridiculously cheap.

For safe, sure, efficient lubrication, scores of leading turbine operators specify Gulfcrest, the world's finest turbine oil. The important reason: After conventional refining, Gulfcrest Oil is superrefined by the Alchlor Process.

More than 15 per cent of the oil is discarded by the Alchlor Process—this 15 per cent contains the hydrocarbons most likely to oxidize and form sludge, emulsifiers, and harmful acids.

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