



This economizer hook-up contributes considerably to high boiler operating efficiency and reduces fuel costs by extracting heat from exhaust gases after they leave the boiler. Because the water entering the boiler feed pump is at low pressure, the temperature is correspondingly low. In order to bring the water as near to boiler temperature as possible before it enters the boiler, it

must be brought to boiler pressure, which is the purpose of the economizer.

Water feed to the economizer is controlled by any of the various types of boiler level controls. The one shown here is a thermo-hydraulic generator, in which the water column serves as the generator. The water column consists of two concentric tubes. The inner tube is connected to the boiler drum above and below the water line. The outer tube, which contains a fluid, usually water, is connected to a control valve in the feed water piping. A change in the boiler water level changes the temperature and the pressure of the fluid in the outer tube and operates the control valve hydraulically.

The more efficient counterflow heat transfer, used in this economizer, is preferred to the parallel flow type wherever installation is possible. The water enters the economizer at the bottom and goes out at the top, with the flue gases directed to flow down over the econ-

Jenkins PRACTICAL PIPING LAYOUTS

Illustrating the proved 3-point formula for trouble-free, time-defying hookups

- A Use the right type valve for the service.
- B Place valves correctly in the line.
- C Choose Jenkins Valves for lifetime economy.

40

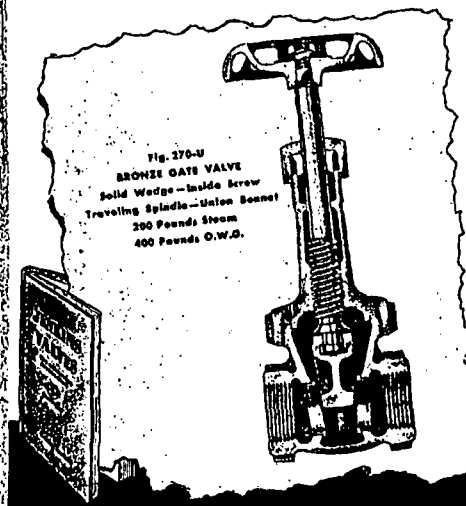


Fig. 270-U
BRONZE GATE VALVE
Solid Wedge—Inside Screw
Traveling Spindle—Union Bonnet
200 Pounds Steam
400 Pounds O.W.D.

omizer tubes. Pressure relief valves are required on the economizer outlet, and a by-pass allows the boiler to be operated even though some of the tubes fail.

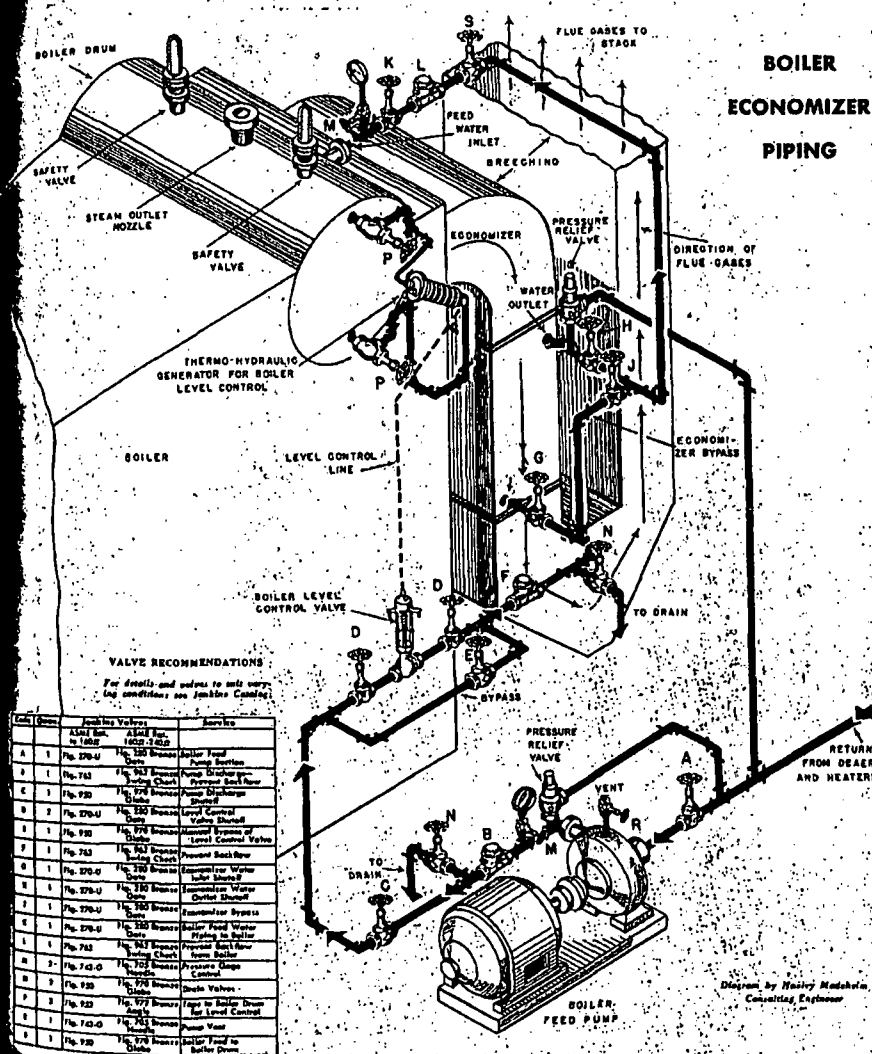
Other types and pressure ranges of Jenkins Valves can be used for this type of layout according to the factors involved. Consultation with accredited piping engineers and contractors is recommended when planning any major piping installation.

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Fig. 270-U, Jenkins Bronze Gate Valve, is recommended for unequalled economy under severe conditions. It has a high quality bronze wedge seating against MONEL seat rings expanded in the body. Wear is taken by the wedge which can be replaced easily. Longer, large diameter threads on manganese bronze spindle reduce wear, permit turning with less effort. Construction throughout is exceptionally rugged.

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