

GET A LINE ON CLARK TRAPS



It Pays to Standardize
on Clark—the Complete
Line of Steam Traps!

40 YEARS OF EXPERIENCE PROVE THAT CLARK CONTROLS

*Last Longer
Cut Maintenance Costs
Reduce Fuel Bills*

If your production costs have been going up (and whose haven't) Clark can help you "hold the price line." The Heavier, Stronger construction of CLARK Controls makes for longer life and less frequent replacement. Our Engineering Department stands ready to help you on all fluid control problems.



Write today for this free, helpful guide to more economical controls for your oil, steam and air lines.

Write today for details.

THE CLARK MANUFACTURING CO.
1831 East 38th Street Cleveland 14, Ohio

Clark
FLUID CONTROLS

140 (444a)

Waste-Heat Boiler (Continued from page 100)

The same quantity of additional fuel is needed to produce the additional steam regardless of which system is used. The auxiliary burner requires a separate fuel system, primary air supply and provision for introducing the burner just ahead of the boiler. The boiler limits the firing temperature and not the turbine. The boiler may be either a fired or unfired pressure vessel.

The throttling system needs a controlled throttling valve in the turbine exhaust. Since the additional fuel is burned in the turbine combustors no additional fuel or air supply is needed. Maximum gas temperature entering the boiler is controlled by allowable exhaust temperature. The boiler is an unfired pressure vessel.

Application. This application of a waste-heat boiler will undoubtedly meet with wide acceptance in both central station and industrial-power fields. This arrangement can fulfill the requirements of almost any industrial process where large quantities of process steam are needed in addition to electric power.

In addition to being good for continuous duty, the gas turbine should be excellent as a standby unit or for peak-load service where it could be used with a waste-heat boiler. The steam generated could be used in existing turbines that might be outdated for continuous service, but usable for short-time operation. This would mean 1500 kw more of electrical power without additional steam-turbine investment costs.

There are many old power plants with boilers that are being derated. Some of these could be used with minor alterations as waste-heat boilers for gas turbines, thereby eliminating waste-heat boiler investment.

Mechanical Drive (Continued from page 106)

ible and entirely automatic. Some regulators are connected within the governing system, where they regulate speed directly. With other types connection is made to the stem of the governing valve; thus the regulator set valve position. With the latter arrangement the lower speed limits of

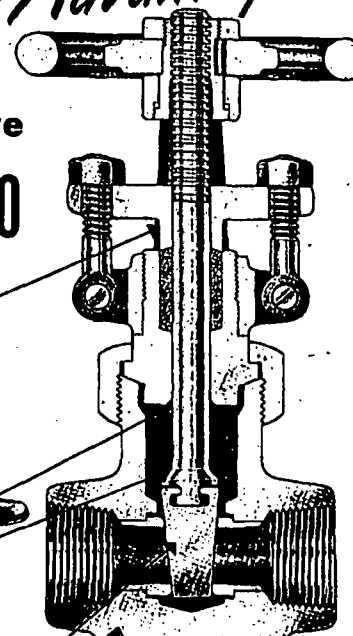
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CHECK THESE

4 Outstanding Advantages

of this Sturdy Gate Valve

CHAPMAN LIST 960



1.

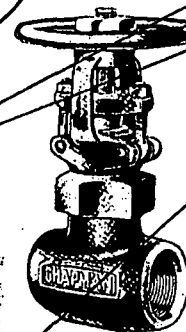
FORGED STEEL PACKING GLAND

Protects threads on valve yoke from rust and corrosion when valve is used in exposed locations.

2.

FULL PRESSURE PACKING

This valve can be repacked under full pressure because no pressure is transmitted to the valve stem.



3.

MALCOMIZED STAINLESS STEEL PARTS

All stems, plugs, and seat rings are made of Malcomized stainless steel—for extra-severe services.

4.

RUGGEDLY BUILT BODY

Made of strong forged steel.

SPECIFICATIONS

Chapman List 960 is made in sizes from 1/4" to 2"—carbon steel for pressures to 800 pounds and alloy steel for pressures to 1,000 pounds, at 750°F. For higher pressures, specify List 990.



The Chapman Valve Mfg. Co.
INDIAN ORCHARD, MASS.

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