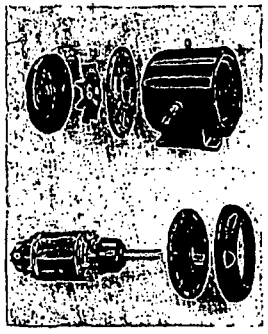
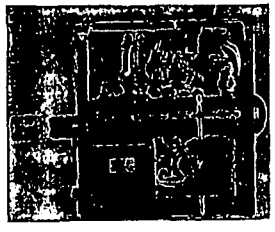
NEW PLANT EQUIPMENT



Explosionproof Motor E500

A LINE of totally enclosed fan-cooled motors has ratings of 200 hp and speeds of 3500, 1750, 1160, or 870 rpm for 550 v or less. They are also available at a rating of 150 hp at the same speeds for operation on 2300 v. Motors are approved by the Underwriters' Laboratories for hazardous locations, and feature a cast-aluminum rotor with heavy-duty ball bearings and one-piece cast-iron frame with an externally mounted fan. **Wagner Electric Corp, 6400 Plymouth Ave, St. Louis 14, Mo.**

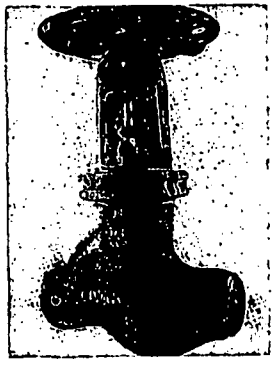


Return-Line Treatment E501

A NEW FULL-AUTOMATIC UNIT treats steam-heating and process systems beyond the boiler. The new unit has a continuous-discharge cycle, whereas previous hand-loaded model worked on 2-hr cycle.

Pressure-Jet fluid, electrically heated in pressure-jet unit, is atomized into main steam line beyond boiler at high temperature and adjusted to system pressure. Steam entrained with the atomized fluid carries it to all parts of the system—radiator, trap, return line and all steam-operated equipment. Existing scale, oil sludge, rust, and other products of corrosion are dissolved into minute particles and held in suspension, flowing off with the condensate. Alkaline and *Pressure-Jet* fluid is noncaustic and will not injure ferrous or nonferrous metals, packings or gaskets. It neutralizes the acidity caused by oxygen and carbon dioxide, preventing the formation of carbonic acid by maintaining an alkaline pH.

Pressure-Jet fluid acts as a neutral agent to any boiler compound or industrial boiler-water treatment that may be in use. Unit operates either on 110- or 220-v ac or dc. **Pressure-Jet Systems, Inc, 333 W Reservoir Ave, Milwaukee 12, Wis.**

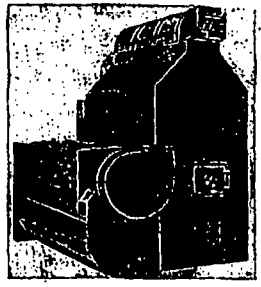


High-Pressure Valves E502

VALVE LINE for the high pressure and temperature field features internal contouring for low-pressure loss. Gate valve series has welded-in guide ribs to eliminate wedge drag on seating faces. *Impactor* handwheel makes opening and closing easier. Pressure-seal bonnet nonreturn valve has closure indicator and flow-directional guiding. **Edward Valves Inc, East Chicago, Ind.**

Chemical Gage E503

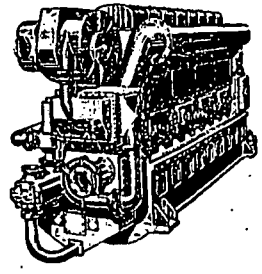
FEATURE OF THIS CHEMICAL GAGE is a *Teflon* diaphragm that resists practically all corrosive chemicals. Using *Teflon* instead of metal for the diaphragm makes the gage adaptable for vacuum as well as pressures up to 1600 psi and gage temperatures of 300 F. Removable bottom part and diaphragm ring are supplied in cast iron, bronze, steel, iron and monel. Unit is particularly suited to chemicals and viscous liquids that corrode or clog an ordinary bourdon tube. **Helicoid Gage Div, American Chain & Cable Co, Bridgeport, Conn.**



Space Heater E504

WARM-AIR coal-fired space heater uses a stainless-steel combustion chamber. Model is available in two capacities, 1,250,000 and 1,500,000 Btu per hr. Fuel consumption for the smaller size is about 133 lb per hr of 12,500-Btu-per-lb coal.

Air to be heated enters at the base, passes over economizer tubes and the combustion chamber to discharge through overhead nozzles. **Dravo Corp, Fifth and Liberty Ave, Pittsburgh 22, Pa.**



Diesel Engine E505

HAMILTON 9x12-IN. 4-CYCLE DIESEL is available in 6- and 8-cylinder combinations, either naturally aspirated or supercharged for ratings up to 1200 hp. Supercharged designs feature relatively high charging pressures and intercooling, to yield high specific output. New engine is suitable for railroad motive power, generator drive,

Use convenient reply cards on page 202a to secure additional information on these new equipment items. Please be sure to identify your request with the new-equipment key letter, E, and number, as shown on the items above.

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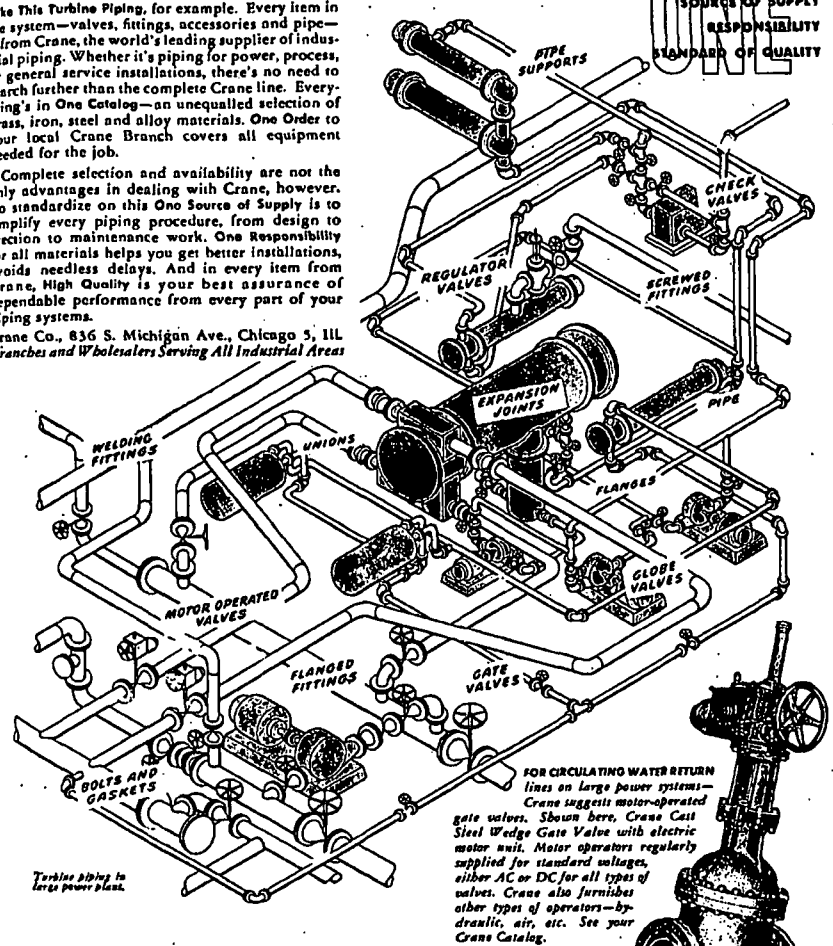

Turbine piping in large power plant.

FOR CIRCULATING WATER RETURN lines on large power systems—Crane suggests motor-operated gate valves. Shown here, Crane Cast Steel Wedge Gate Valve with electric motor unit. Motor operators regularly supplied for standard voltages, either AC or DC for all types of valves. Crane also furnishes other types of operators—hydraulic, air, etc. See your Crane Catalog.

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