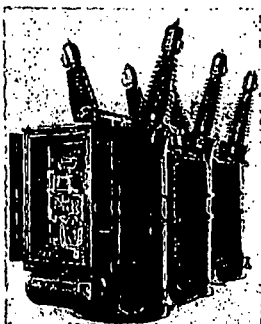


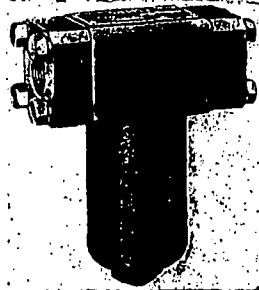
WHAT'S **New** IN PLANT EQUIPMENT



Gear Rotary Pumps E3

FOR CONTINUOUS SERVICE at 1000 psi and intermittent service at 1500 psi, gear rotary pumps are rated 5½ gpm at 2800 rpm, 8 gpm at 1800 rpm, and 15 gpm at 1200 rpm. They are for pressure lubrication and oil hydraulic service. Wear-resisting material is used, such as *Niralloy* gears operating inside chrome-plated faces of cast-iron housings. Pumps have pilot-type flush mounting face, suitable for direct attachment to machinery or other equipment. Pumps can be driven direct or by belt, gear or chain. Aro Equipment Corp., Bryan, Ohio.

darkens to required brilliancy. Conversely, if flame tends to darken, fuel feed is correspondingly decreased. Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.



Proportional Oil Filter E5

PROPORTIONAL OIL FILTER uses a cartridge that removes particles down to two microns' size. Reversible filtering action meets requirements of closed circuits. Bypass valve is not necessary because venturi action in filter controls maximum pressure built up across cartridge. Filter may be installed in any horizontal hydraulic-system pressure line. Filter protects system against dirt, sludge and chips. It has no moving parts, so maintenance is reduced to periodic replacement of inexpensive cartridge. Vickers Inc., 1596 Oakman Blvd., Detroit 32, Mich.

Boiler Control E4

INSTRUMENT CONTROLS COMBUSTION in hog-fuel-fired boilers by brilliancy of the flame, furnace wall, or fuel bed. Forced draft is controlled by steam pressure, induced draft by furnace draft, and fuel feed by steam flow, but is readjusted by brilliancy instead of steam flow-air flow ratio. Brilliancy is measured by a photo-voltaic cell connected to a Bailey Pyrotron pyrometer. If flame brightens it is a sign of excess air, and fuel feed is increased gradually until flame

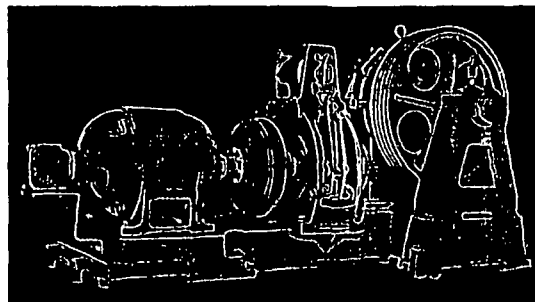
Circuit Breaker E1

REDESIGNED FOR RATINGS from 115 to 230 kv, and up to 3,500,000 kva interrupting capacity, this improved line meets requirements for reliable, high-voltage transmission-line circuit-breaker protection. Type B20-160 is an improved line of high-voltage, high-speed, quick-clearing (5-cycle) outdoor, floor-mounted oil-circuit breaker. This unit recloses service within 20 cycles and includes the proved single-brake 5-cycle Ruptor arc extinguishing device and pneumatic operator with self-contained automatic air-supply system.

It has weatherproof mechanism box on top of each tank which is readily accessible for adjustment. Either bushing or bushing current transformer is removable without disturbing the other. Complete oil-maintenance facilities are afforded on each pole. Allis-Chalmers Mfg Co., Milwaukee, Wis.

Gate Valve E2

UNION BONNET, FIG. 2228, GATE VALVE is made of bronze and has a double-disk union bonnet. It has rising stem and screwed ends and is rated at 200-psi SP. Companion valve, FIG. 2229, has flanged ends, is rated at 150-psi SP. Available in sizes from ½ to 3 in. Additional features are the patented silicon-alloy stem material that eliminates stem-thread failures, hexagon head gland, beveled-disk wing guides and body guide channels to make assembly easy when servicing the valve. Lunkenheiner Co., Cincinnati 14, Ohio.



Fluid-Drive Elevator E6

FREIGHT- AND PASSENGER-ELEVATOR machines are equipped with fluid drive to reduce installation, maintenance and operating costs. Fluid drive, installed between motor and brake wheel, is similar to many

industrial drives that make difficult starting easy. Because of the drive a smaller motor can be used, as it does not have to start under load. When car switch is closed motor starts and accelerates to nearly full speed before fluid drive takes hold. Starting current and power costs are

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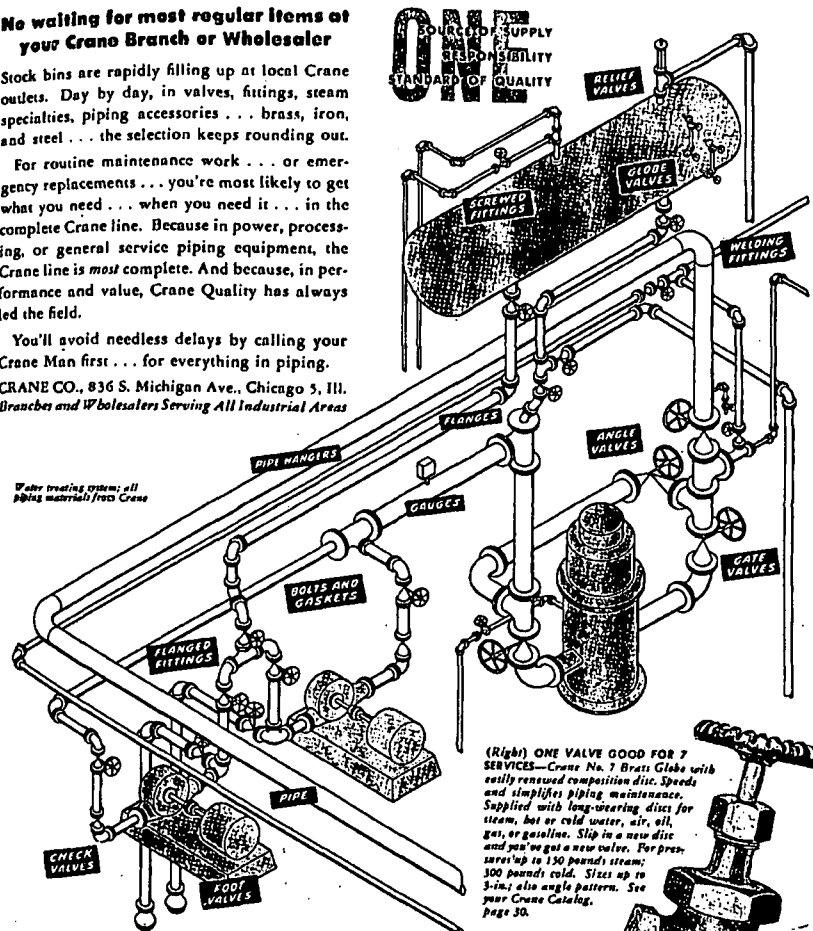
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