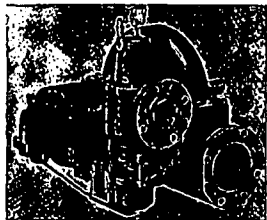


NEW PLANT EQUIPMENT



Mechanical-Drive Turbine E222

TYPE DP is a new small mechanical-drive turbine with ratings ranging from 10 to 1200 hp and speeds from 1000 to 5000 rpm. Available in three single-stage frame sizes with a 16 in., 20 in. and 25 in. wheel, Type DP embodies such features of large turbines as hydraulic governing for wider speed range and more accurate control and pressure oiling of bearings. It can be applied as a drive for pumps, compressors, fans, blowers, etc.

The new oil-relayed governing system gives superior performance, according to maker. Range of speed adjustment has been increased to 30%; speed regulation has been reduced to 6%. More parts are enclosed and governing system is completely enclosed in an oil atmosphere. A new balanced valve design is used for the governing valve and combined trip-throttle valve. With this design less force is required to operate valves and a given size valve can handle larger steam flows. These valves are combined in one assembly.

Maintenance is made easier by accessibility of individual components, such as the oil cooler, oil pump, and steam and oil strainers. The great majority of parts are interchangeable on all Type DP frame sizes. Spare parts kits, with parts applicable to these standard turbines, are available. General Electric Co., Schenectady 5, N. Y.

Medium Power Relay E223

A SMALL, LIGHT, single-pole type AS relay is suitable for control circuits. Having a normal power rating of one watt, this relay is available for service in ac and dc circuits. Its contact rating is 5 amp at 24 v. dc, or 110 v. ac.

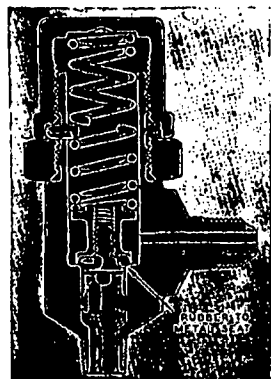
The relay's length is 1 1/2 in., height 1 1/8 in., width 15/16 in. Weight is 50 grams. Contact arrangements include normally closed, normally open, or double throw. Allied Control Co., 2 East End Ave., New York 21, N. Y.

Thermal Demand Meters E224

BUILT INTO THE SAME CASE with standard watt-hour meters, the new thermal ampere-demand meters provide low-cost, compact units that can be used by utilities on single-phase or polyphase systems for certain industrial and commercial installations where kva demands are incorporated into the rating. They are not intended for larger industrial metering.

Ampere demand is measured in these meters by heating of a bi-metallic element with current-carrying heaters. The readings may be converted to kva demand by multiplying by a constant assumed voltage. The low initial and maintenance cost of such devices permits application to smaller loads than can be justified with the more elaborate mechanical integrating devices.

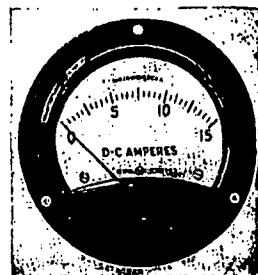
Five types are available, making the meter suitable for single-phase; 3-phase, 3-wire service; for networks consisting of two phases and neutral of a 3-phase, 4-wire service; for 3-phase, 4-wire delta service; and for 3-phase, 4-wire wye service. Westinghouse Electric Corp., P O Box 860, Pittsburgh 30, Pa.



Relief Valves E225

HYDRAULIC and pneumatic relief valves are available in five pressure ranges, from 0 to 450 psi, and can be easily set by external adjustment to any operating pressure in the particular range involved. Body and cap elements are available in aluminum or brass, while stems and metal-seat pistons

are made of stainless steel. The rubber-seat piston is of brass. The full series of pressure ranges are available in each of six basic sizes from 1/4 to 1 in. Sizes 1 in. and larger, as well as pressure settings up to 1000 psi, are obtainable on special order. Shutoff piston is guided, making for quick unloading and smooth, silent operation. In the hydraulic model, the piston makes a metal-to-metal seat in the body. Another style has an O-ring rubber-to-metal seat for a positive seal where air and gas are used. Parker Appliance Co., 17325 Euclid Ave., Cleveland, Ohio.



Panel Instruments E226

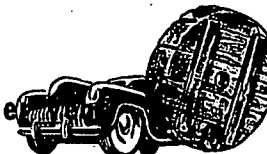
DESIGNATED AS Type DQ-71, the new line of 3 1/2-in. panel instruments are suitable in radio, power supplies, transmitters, amplifiers and aircraft. Accurate readings are assured by elimination of arc lines and distracting printing from the scale. In addition to use of a lance-type pointer.

High-strength Alnico magnets provide high torque, resulting in quick response and good damping of meter. The high torque allows use of larger-radius pivots, resulting in increased resistance to shock and vibration. Internal-pivot construction of the new instrument materially reduces their depth behind the panel, making them suitable for use in apparatus in which compactness is essential. General Electric Co., Schenectady 5, N. Y.

Rotary Pressure Joint E227

TYPE S JOHNSON rotary pressure joint is designed to be self-supporting and requires no external piping support. It can be used to admit heating or cooling agents to rotating rolls, particularly where considerable lateral movement of the rolls is encountered. Joint is completely self-lubricating has no packing of any sort, and adjusts itself automatically for varying pressures. A spherical sealing surface maintains an effective seal, even though wear should occur at this point. A large bearing to guard of carbon graphite supports the entire weight of the joint and is accurately

provides high efficiency year after



An ancient discovery, the wheel . . .
Symbolizes the efficiency of simple design.

An SK Venturi Type Desuperheater . . .
Employs the simplicity of the jet . . .
To desuperheat steam efficiently . . .
Year after year.

This type is particularly applicable . . .
Where steam flow varies widely . . .
With consequent changes in water flow.

In operation, the Venturi Type . . .
Increases steam velocity in the venturi . . .
And introduces water in small streams . . .
At the point of greatest turbulence . . .
To discharge the fog-like mixture . . .
Into the main steam flow.

An SK Venturi Type Desuperheater . . .
Offers a 1 to 10 capacity range . . .
Requires water pressure equal only to steam . . .
Takes no more space than the pipe . . .
And has a low pressure drop.

SK Venturi, Absorption and Spray Types . . .
Are fully described in Bulletin 6-D . . .
Which is available upon request.



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