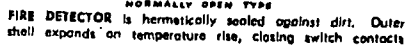
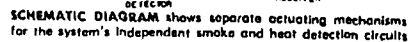


Published monthly as a service to readers



904 • New fire-protection unit has a two-stage smoke detector plus an independent fire or overheat detector.

The smoke-detecting unit consists of a light source and an electric-eye receiver. It operates when receiver detects a drop in light intensity, showing the presence of smoke. Depending on the amount of light absorbed, the receiver triggers one of its two stages. The first stage, responding to a relatively low smoke density, usually sets off a local plant alarm. Second stage operates at higher smoke density, sets off a major alarm or extinguishing system.

The separate fire detector unit responds to heat. Known as a *Detect-A-Fire*, made by Federal Inc., it operates on an entirely independent circuit to an alarm or extinguishing system, giving response if a relatively smokeless fire occurs. The detector uses differential expansion of metals to produce an effect known as "rate compensation." Detector is said to function consistently at its pre-set operating temperature regardless of the rate of rise in temperature of the surrounding medium. It operates when surrounding temperature reaches a point that can be set anywhere from 140 to 725 F according to degree of protection desired.

Cardox Corp, 305 N Michigan Ave, Chicago 1, Ill.

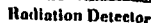


922 • New larger-sized pressure relief valves for hot water space heating boilers protect against over pressure. The new valves, shown in the photograph at left, are called the 1-inch No. 230 and the 1½-inch No. 230. They are suitable for use on boilers with heat output to 743,400 Btu/hr and 1,025,100 Btu/hr, respectively; they open at 30 psi.

Operating parts are of non-corrosive materials, and valves are said to be tamper-proof.

McDonnell & Miller, Inc. 3500 N
Spaulding Ave, Chicago 18, Ill.

For more data on these items, use post cards
p. 161. Identify your request with item number.



903 • Pocket-size Gamatek indicates on direct-reading scale the total dosage of Gamma and X-rays to which a body of tissue has been subjected, manufacturer says. By observing time needle takes to move across the scale and referring to a table printed on the back, instrument can be used as a radiation rate-meter. It is designed for monitoring in atomic research, medical and industrial radiology, etc. Bulletin CDC 1008.

**Consolidated Engineering Corp., 800 N.
Sierra Madre Villa, Pasadena 15, Calif.**



950 • New 200-amp front-operated safety switch for 250 and 600 v lines has visible blades. Oversize handle shows up distinctly from a distance, indicating whether switch is on or off.

Fuse holder has pressure spring under the fuse where it is said to be unaffected by fuse heat. The two joints to each pole are under heavy pressure from external steel springs. Contact resistance is said to be minimized, preventing heating. Insulated cross bar underneath the switch blades assures opening of the switch when handle is thrown to "off" position.

Federal Electric Products Co., 50 Paris
St., Newark 3, N. J.

(Continued on page 154)

VALVE SERVICE RATINGS



At the Eureka Redwood Lumber Company, Eureka, Calif., featuring eight 5-in. Crane stop-check valves on boiler lines to main steam header.

Thirty years' continuous service is by no means the record for Crane 250-Pound stop-check valves. But when 6 such valves, all installed in 1923, are still on the job, and still giving complete satisfaction, surely that's worthy of note. So well did those Crane No. 308 stop-checks perform right from the start, that 11 years later, in 1934, 2 more were put on boilers installed that year.

Here are 8 valves with a collective service record of more than 220 years. And in all that time, the only maintenance required was regrounding the seat of one valve.

It takes a lot of quality to deliver such valve performance with so little upkeep. That's why today, in face of rising maintenance cost, Crane quality is more than ever the first choice of the thrifty valve buyer.

THE BETTER QUALITY...BIGGER VALUE LINE...IN BRASS, STEEL, IRON

CRANE CO., General Offices: 836 S. Michigan Ave., Chicago 9, Illinois
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VALVES • FITTINGS • PIPE • PLUMBING • HEATING

Simplicity and dependability are still the chief characteristics of Crane 250-Pound stop-check valves. They have just one moving part—the piston-type disc that operates in a removable liner, without chatter, vibration, or rapid wear. You'll have a safer power plant with these valves on your boilers, and they'll permit steam flow to the main header at minimum pressure drop. See your Crane Catalog or Crane Representative for complete information.

