### Liquid Level Indicator

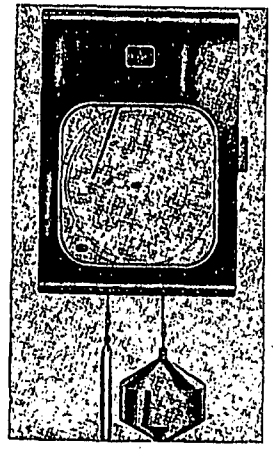
**555** · Miniature liquid level and valve position indicators are explosion proof, and designed to be mounted so indicating scales appear in distinctly shaped vessel or valve symbols on fronts of panel boards. *Liquid* level indicator is said to give illusion of actual sight glass. Actuation is by standard 3-15 psi pneumatic receiver.
**Minneapolis-Honeywell Regulator Co, Brown Instruments Div, Phila. 44, Pa.**

### Gage Illuminator

**104** · Mercury vapor illuminator permits gage readings over longer distances or under poor lighting conditions. Water column shows blue-green, topped with brilliant emerald green spot at water level. Weatherproof illuminator clips to gage cover with no alterations to gage. Sizes fit standard gages.
**Jerguson Gage & Valve Co, 80 Fellsway, Somerville 45, Mass.**

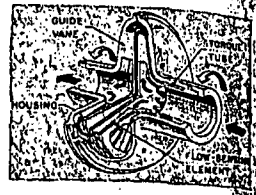
### Air Flow Snubber

**921** · Air flow snubber and pulsation damper provides a controlled flow rate of compressed air or gas for operation of continuous-reading hydrostatic instruments and for purging pneumatic instrument lines. It also protects pneumatic testing and gaging equipment against damage that might result from surge pressures by providing a flow restriction in the line.
**King Engineering Corp, Box 530, Ann Arbor, Mich.**



### Flow Meter

**1154** · New line of Series 500 open-channel flow meters for measuring, recording and controlling flow of water, sewage, effluent and other liquids supersedes the Model 40M line formerly made. Flow is determined by measuring head of liquid flowing through a flume or over a weir in the flow channel. Head measurement is interpreted by a cam, cut to equation of weir or flume, into terms of flow, which is then recorded on uniform chart and integrated if desired.
**Bristol Co, Waterbury 20, Conn.**

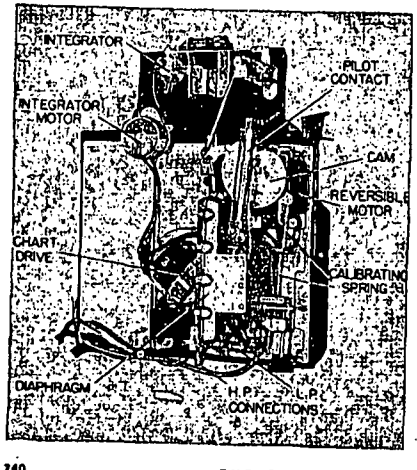


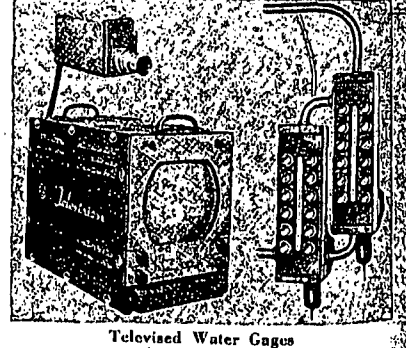

### Mass Flowmeter

**403** · New instrument measures the true mass rate of flow of anything that will flow or fall through a pipe. Meter responds only to pounds and is totally insensitive to volume. Direct reading measurements in terms of pounds per minute, or with integrating to pounds, can be made on gases, liquids, slurries, or particles in an air stream, all with the same instrument. Measurement is independent of volume, temperature, pressure, viscosity, compressibility, or external accelerations. Unit measures torque necessary to give the flowing mass a Coriolis acceleration. This torque depends only on dimensions of the flowmeter, rotational speed, and the mass flow so that all the usual volumetric troubles are eliminated. Until flow rates and sizes can be standardized, the new mass meter will be custom built. The most vital industrial and military needs will be met first.
**Control Engineering Corp, Norwood 59, Mass.**

### Differential Flow Meter

**122** · *Diaflow* meter (below, left) for measuring air flow, gas flow, or recording ratio of air flow to gas flow. Unit is adaptable for industrial furnaces and sewage disposal plants. No load is placed on the measuring element, so meter gives high accuracy with negligible friction. Dry diaphragm type measuring element eliminates water, oil, mercury and leveling; unit construction used throughout.
**Hays Corp, Michigan City, Ind.**



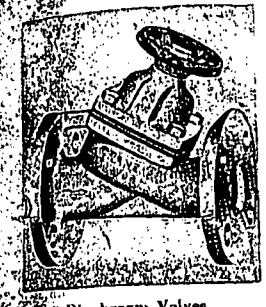
### Televised Water Gages

**553** · An arrangement between Radio Corp of America and Yarnall-Waring Co has resulted in application of RCA's Industrial Television to installations of *Yarway* Pressure Sealed Flat Glass Gages. Small, light-weight camera needs but single cable, has proper lighting built into special camera base.
**Yarnall-Waring Co, Philadelphia 18, Pa.**





# PIPING, VALVES, FITTINGS, ACCESSORIES



### Diaphragm Valves

**533** · Packless diaphragm valves are now regularly available with cast iron, brass, aluminum or 18-8 Mo bodies and disk holders also with diaphragms and disk inserts of Neoprene, Buna-N, and soft natural hard rubber linings.
**Crane Co, 836 S Michigan Ave, Chicago 5, Ill.**

### Steam Valve

**925** · Improved design steam valve is said to prevent sticking. Manufacturer claims new valve automatically compensates for normal expansion and deposits, providing greater efficiency, longer life, lower maintenance.
**Automatic Valve Co, Dept 200, 545 Abbott St, Indianapolis 25, Ind.**

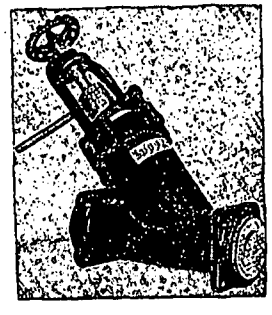


### Flexible Pipe Fittings

**808** · *New insert-type* ell and tee couplings for sharp turns or takeoffs from flexible plastic pipe let one fitting effect a connection where three or four were needed. Fittings are quickly joined and pipe sections cut using only screwdriver and saw. Stainless steel clamps tightened over pipe and fitting draw pipe down onto serrations of insert, insure positive, leakproof joint. Connections can be made in less than two minutes.
**Carlon Products Corp, 10225 Meech Ave, Cleveland 5, Ohio.**

### Automatic Cut-Off Valve

**152** · New type automatic gas cut-off valve is designed with fusible Geon 404 plastic link that, in case of fire, will melt at about 165 F, forcing tension spring to close valve. Called the *Kelly-Byrne* positive safety valve, it is intended for placement on building's gas supply line in front of the gas meter. Valve has ground metal-to-metal seating. Replacement links return valve to operating condition after fire.
**M W Osborne, Jr, B F Goodrich Chemical Co, 324 Rose Bldg, Cleveland 15, Ohio.**

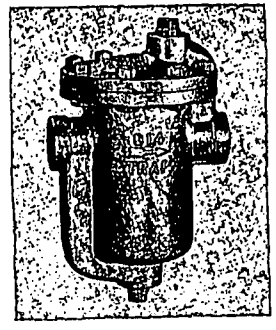


### Armored Porcelain Valves

**715** · *Tuclad* valves and fittings are made of zero-porosity porcelain armored with multiple layers of heavy fiberglas woven cloth impregnated with a phenolic resin. Armoring is regularly available on all Lapp standard Y valves, flush valves, pipe and fittings ½ to 6 in., plug cocks, safety valves, and other units.
**Lapp Insulator Co, Inc, Process Equipment Div, Le Roy, N. Y.**

### Pipe Hanger

**830** · *Nuvco* counterpoise pipe hanger is designed especially for high-temperature piping systems. Spring-actuated counterbalance transforms varying force of the spring to produce a load supporting effort of constant value throughout the entire range of pipe travel. Available in 16 sizes with load capacity from 200 to 16,000 lb, expansion travels up to 12 in.
**National Valve & Mfg Co, 3114 Liberty Ave, Pittsburgh 1, Pa.**



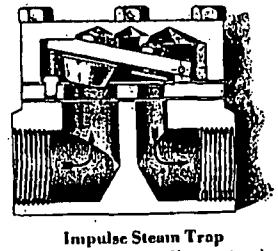
### Steam Trap

**723** · No. 814, side inlet, side outlet steam trap has 1 or 1¼ in. threaded connections. Body and cap are cast semi-steel; valve and seat hardened chrome steel; interior trim stainless steel.

Capacities range up to 6800 lb per hr, pressure range is 0 to 250 psi. Height is 13⅝ in., diameter 9 in., weight 45 lbs.
**Armstrong Machine Works, Three Rivers, Mich.**

### Pressure-Operated Valve

**753** · Pressure-operated manually reset valve is designed for hazardous locations where electrical connections are undesirable. Unit operates on loss or application of pressure, is available in two, three or four-way construction.
**Automatic Switch Co, Orange, N. J.**



### Impulse Steam Trap

**310** · New series 50 Yarway impulse steam trap handles large quantities of condensate. Trap maintains high, even temperature in process equipment. Small size and light weight makes it particularly desirable where close quarters piping is involved. The 1½ in. size is 5½ in. long x 5 high x 2/3 wide, weighs only 14½ lb.