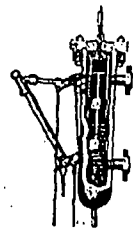


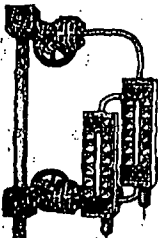
## YARWAY WATER COLUMNS & GAGES



Widely used by public utilities, industrial plants and institutions. Sold as complete units or separate columns and gages. Floatless Hi-Lo Alarm in column is operated by displacement principle, with balanced solid weights. Hi-Lo Alarm columns made for pressures up to 1350 lbs.; no-alarm columns for pressures to 2500 lbs.

### SECURE-INCLINED GAGE

Field facilities reading water level from any point on boiler room floor, even directly underneath. Made with round glass for pressures up to 400 lbs.



### SEPARATE DESIGN VERTICAL FLAT GLASS GAGE

(Anti)-provides new flexibility and dependability for high pressures. Double tapered (shown) for wide ranges, single inverted available for medium ranges. Pressure-sealed "floating assembly" on all flat glass gages. Type "M" Illuminator makes boiler water level shine like a star. Pressures to 3500 lbs.

Send for Bulletin WG-1812

### REMOTE LIQUID LEVEL INDICATORS



Yarway's Remote Liquid Level Indicator brings overhead gage readings right down to eye level, as the instrument panel or other convenient place. It gives instant, accurate boiler water level indication on a brilliantly lighted dial.

The Yarway Remote Liquid Level Indicator is accurate because IT'S OPERATED BY THE BOILER WATER ITSELF—by the pressure differential between a constant head of water and the varying head in the boiler drum... a unique indicating mechanism which is never under pressure. Action is instant, constant, frictionless. THERE ARE NO STUFFING BOXES. Suitable for all pressures up to 3500 psi.

Moderately priced and easily installed on new or existing equipment. Thousands already in use, not only to indicate boiler and feed heater water levels, but also other liquid levels and superheater pressure differential.

For complete description, write for Bulletin WG-1824

For description of Yarway H.J.O. GRAPH Liquid Level Recorder, write for Bulletin WG-1830

For description of Yarway-RCA Television Equipment for water level gages, write for Bulletin WG-1813.

See other Yarway advertisements on pages 157, 161, 191, 196

**YARNALL-WARING COMPANY**  
100 MERMAID AVE., PHILA. 18, PA.

### WALLS, FURNACE, AIR-COOLED

Allen-Sherman-Hall Co., 139 E. Lancaster Ave., Dept. A3, Wyomond, Pa.  
American Arch Co. Inc., 60 E. 42nd St., New York 17, N. Y.  
Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.  
Berrill Furnace Appliance Co., 89 Broad St., Boston 10, Mass.  
Binglow Liquid Corp., 1550 W. Grand Blvd., Detroit 8, Mich.  
Carnegie Steel Co., 1687 E. 11th Ave., Chicago 22, Ill.  
Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Detroit, M. H. Co., 111 W. Washington St., Chicago 3, Ill.  
Dewitt, Inc., P. O. Box 516, Tulsa 1, Okla.  
Green, A. P., Fire Brick Co., Mexico, Mo.  
Kennedy Van, Steam Mfg. & Eng'g Corp., 2 Park Ave., N. Y. 16, N. Y.  
Mexico Refractories Co., Better Refractories Bldg., Mexico, Mo.  
Horton Co., 1 New Bond St., Worcester, Mass.  
Pillbox Co., 1800 Kingsbury St., Chicago 14, Ill.  
Ramsitt Co., 2549 W. 18th St., Chicago 8, Ill.  
Reinhold, Geo. P. Co., 2517 Jefferson St., Kansas City, Mo.  
Rust Eng'g Co., Rust Bldg., Pittsburgh 19, Pa.  
Walter Gravit Lock Refractories, 111 Westminster St., Providence 3, R. I.

### WALLS, FURNACE, SUSPENDED

Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.  
Berrill Furnace Appliance Co., 89 Broad St., Boston 10, Mass.  
Binglow Liquid Corp., 1550 W. Grand Blvd., Detroit 8, Mich.  
Chicago Fire Brick Co., 1687 E. 11th Ave., Chicago 22, Ill.  
Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Crotty Mfg. Co., 1231-1233 33rd Ave., Flushing, N. Y.  
Detroit, M. H. Co., 111 W. Washington St., Chicago 3, Ill.  
Green, A. P., Fire Brick Co., Mexico, Mo.  
Mexico Refractories Co., Better Refractories Bldg., Mexico, Mo.  
Horton Co., 1 New Bond St., Worcester, Mass.  
Palmer Mfg. Corp., 2141 Ave. at Fillmore St., Phoenix, Ariz.  
Pillbox Co., 1800 Kingsbury St., Chicago 14, Ill.  
Ramsitt Co., 2549 W. 18th St., Chicago 8, Ill.  
Reinhold, Geo. P. Co., 2517 Jefferson St., Kansas City, Mo.  
Rust Eng'g Co., Rust Bldg., Pittsburgh 19, Pa.  
Walter Gravit Lock Refractories, 111 Westminster St., Providence 3, R. I.

### WALLS, FURNACE, WATER-COOLED

Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.  
Berrill Furnace Appliance Co., 89 Broad St., Boston 10, Mass.

Binglow Co. Lloyd & Co., 1550 W. Grand Blvd., Detroit 8, Mich.  
Carnegie Steel Co., 1687 E. 11th Ave., Chicago 22, Ill.  
Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Detroit, M. H. Co., 111 W. Washington St., Chicago 3, Ill.  
Dewitt, Inc., P. O. Box 516, Tulsa 1, Okla.  
Green, A. P., Fire Brick Co., Mexico, Mo.  
Kennedy Van, Steam Mfg. & Eng'g Corp., 2 Park Ave., N. Y. 16, N. Y.  
Mexico Refractories Co., Better Refractories Bldg., Mexico, Mo.  
Horton Co., 1 New Bond St., Worcester, Mass.  
Pillbox Co., 1800 Kingsbury St., Chicago 14, Ill.  
Ramsitt Co., 2549 W. 18th St., Chicago 8, Ill.  
Reinhold, Geo. P. Co., 2517 Jefferson St., Kansas City, Mo.  
Rust Eng'g Co., Rust Bldg., Pittsburgh 19, Pa.  
Walter Gravit Lock Refractories, 111 Westminster St., Providence 3, R. I.

### WARMERS, DRUM

Palmer, H. L. Co., 4333 Cass Ave., New York 19, N. Y.  
Allen-Sherman-Hall Co., 139 E. Lancaster Ave., Dept. A3, Wyomond, Pa.  
American Arch Co. Inc., 60 E. 42nd St., New York 17, N. Y.  
Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.  
Berrill Furnace Appliance Co., 89 Broad St., Boston 10, Mass.  
Binglow Liquid Corp., 1550 W. Grand Blvd., Detroit 8, Mich.  
Chicago Fire Brick Co., 1687 E. 11th Ave., Chicago 22, Ill.  
Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Crotty Mfg. Co., 1231-1233 33rd Ave., Flushing, N. Y.  
Detroit, M. H. Co., 111 W. Washington St., Chicago 3, Ill.  
Green, A. P., Fire Brick Co., Mexico, Mo.  
Mexico Refractories Co., Better Refractories Bldg., Mexico, Mo.  
Horton Co., 1 New Bond St., Worcester, Mass.  
Pillbox Co., 1800 Kingsbury St., Chicago 14, Ill.  
Ramsitt Co., 2549 W. 18th St., Chicago 8, Ill.  
Reinhold, Geo. P. Co., 2517 Jefferson St., Kansas City, Mo.  
Rust Eng'g Co., Rust Bldg., Pittsburgh 19, Pa.  
Walter Gravit Lock Refractories, 111 Westminster St., Providence 3, R. I.

### WASHERS, AIR

Air & Refrigeration Corp., 475 E. 12th St., New York 19, N. Y.  
Allen-Sherman-Hall Co., 139 E. Lancaster Ave., Dept. A3, Wyomond, Pa.  
American Arch Co. Inc., 60 E. 42nd St., New York 17, N. Y.  
Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.  
Berrill Furnace Appliance Co., 89 Broad St., Boston 10, Mass.  
Binglow Liquid Corp., 1550 W. Grand Blvd., Detroit 8, Mich.  
Chicago Fire Brick Co., 1687 E. 11th Ave., Chicago 22, Ill.  
Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Crotty Mfg. Co., 1231-1233 33rd Ave., Flushing, N. Y.  
Detroit, M. H. Co., 111 W. Washington St., Chicago 3, Ill.  
Green, A. P., Fire Brick Co., Mexico, Mo.  
Mexico Refractories Co., Better Refractories Bldg., Mexico, Mo.  
Horton Co., 1 New Bond St., Worcester, Mass.  
Pillbox Co., 1800 Kingsbury St., Chicago 14, Ill.  
Ramsitt Co., 2549 W. 18th St., Chicago 8, Ill.  
Reinhold, Geo. P. Co., 2517 Jefferson St., Kansas City, Mo.  
Rust Eng'g Co., Rust Bldg., Pittsburgh 19, Pa.  
Walter Gravit Lock Refractories, 111 Westminster St., Providence 3, R. I.

## Reliance

### WATER COLUMNS

For all working steam pressures. With alarms, to 900 psi. without alarms, to 2000 psi. Latest approved construction technique—retards strength with generous margin of safety. Complete water column installation advertisement under Gages Liquid Level. When working, water working pressure of your boilers.

Reliance Gauge Columns Co.  
1002 Carnegie Ave. • Cleveland 13, Ohio

### WATER TREATMENT, BOILER, INTERNAL

Acme Industrial Compound Corp., 655 S. Grand St., Rochester 7, N. Y.  
Alco Products Div., American Locomotive Co., Danville, Va.  
Alum-Hurter Corp., 131 E. 23rd St., New York 10, N. Y.  
Allison Lead Inc., 68 William St., New York 5, N. Y.  
Allis-Chalmers Mfg. Co., 932 S. 70th St., Milwaukee 1, Wis.  
American Cyanamid Corp., 30 Rockefeller Plaza, N. Y. 20, N. Y.  
American R. & T. Corp., 408 South Ave., Garwood, N. J.  
American Locomotive Co., Schenectady 3, N. Y.  
American Sand-Banion Co. Inc., 9 Rochester Plaza, N. Y. 20, N. Y.  
Aqualine, Inc., P. O. Box 12233, Houston, Texas  
Bishop Smith Equip. Div., 52 Iowa Ave., Paterson 3, N. J.  
Bird-Archer Co., 4537 N. American St., Philadelphia 24, Pa.  
Borgana Div., Strong, Carlisle & Hammond Co., 1392 W. 3rd St., Cleveland 13, Ohio  
Buckeye, Inc., 2304 E. 87th St., Cleveland, Ohio  
Burns Co., Hope Bldg., Pittsburgh 38, Pa.  
Caterpillar, A. W. Co., 4 Ashland St., Everett 44, Mass.  
Cochran Corp., 3108 N. 17th St., Philadelphia 32, Pa.  
Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Continental Alkalies & Refining Corp., 1 Madison Ave., N. Y. 10, N. Y.  
Cyanamid Corp., 1007 McCarty St., Pittsburgh 30, Pa.  
Deary Chemical Co., 1316-18 St. Louis Ave., Kansas City 3, Mo.  
Deary Chemical Co., Merchandise Mart Plaza, Chicago 54, Ill.  
Deary Chemical Co., Inc., 11 W. 42nd St., Dept. 1, New York 36, N. Y.  
Dewitt, Inc., P. O. Box 516, Tulsa 1, Okla.  
Drew, E. H. & Co., 15 E. 24th St., New York 10, N. Y.  
Electronic Water Treatment Inc., 475 Fifth Ave., N. Y. 17, N. Y.  
Engle Softener Corp., 150 N. Grove Ave., Elgin, Ill.

### WATER COLUMNS

Compressor Service & Eng'g Co., Inc., 89 River St., Hoboken, N. J.  
Crotty Mfg. Co., 1231-1233 33rd Ave., Flushing, N. Y.  
Detroit, M. H. Co., 111 W. Washington St., Chicago 3, Ill.  
Dewitt, Inc., P. O. Box 516, Tulsa 1, Okla.  
Green, A. P., Fire Brick Co., Mexico, Mo.  
Kennedy Van, Steam Mfg. & Eng'g Corp., 2 Park Ave., N. Y. 16, N. Y.  
Mexico Refractories Co., Better Refractories Bldg., Mexico, Mo.  
Horton Co., 1 New Bond St., Worcester, Mass.  
Pillbox Co., 1800 Kingsbury St., Chicago 14, Ill.  
Ramsitt Co., 2549 W. 18th St., Chicago 8, Ill.  
Reinhold, Geo. P. Co., 2517 Jefferson St., Kansas City, Mo.  
Rust Eng'g Co., Rust Bldg., Pittsburgh 19, Pa.  
Walter Gravit Lock Refractories, 111 Westminster St., Providence 3, R. I.

### WATER CONDITIONING EQUIPMENT

Chlorinated Chlorine, Water: Softener, and Low Soap & Hot Process Softener, Inc. (Exhaust)

### ELGIN WATER CONDITIONING

SINCE 1908

**WATER SOFTENERS-ZEOLITE** (Double Check design gives up to 44% more soft water. All types of zeolite.)  
**IONIZERS** (give equivalent of distilled water).  
**DEALKALIZERS** (give hardness-free water of controlled alkalinity and reduced solids content).  
**NEUTRALIZERS** (counteract corrosive water).  
**WATER FILTERS** (types for every purpose).  
**FEEDWATER TREATMENT** (individually formulated).  
**WATER TREATING CHEMICALS** (for every need).

Write for Bulletin

See our advertisement on page 29

**ELGIN SOFTENER CORPORATION**

139 North Grove Avenue

Elgin, Illinois

## Belco

### WATER CONDITIONING

...and allied equipment for the Power Field

| WATER SOFTENERS                                                                                                                       | IONIZATION EQUIPMENT                                                                                                     | SPECIAL EQUIPMENT                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Zeolite Softeners<br>Double Check Design<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats | Double Check Design<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats         | Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats |
| Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats              | Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats | Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats |
| Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats              | Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats | Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats<br>Softens and Pressure Treats |

**BELCO INDUSTRIAL EQUIPMENT DIVISION**  
PATENTON 3, NEW JERSEY

## DEADY CHEMICAL COMPANY

### Complete Water Treatment

### "For Boiler Feedwater"

1. Internal Treatments
2. Coagulants for Clarifiers, Softeners, etc.
3. Post Treatments for Softened Water

### "For Cooling Water"

MEMPH METALLIC PHOSPHATES  
(A NEW APPROACH TO COOLING WATER CONTROL)

### "Also"

FUEL OIL TREATMENTS BRINE TREATMENTS  
Softening Equipment of All Types

ALL PROBLEMS INDIVIDUALLY ANALYZED AND TREATMENTS FORMULATED TO MEET THE INDIVIDUAL CONDITIONS. COMPLETE CONSULTATION & CONTROL SERVICE

1316-18 St. Louis Ave.  
Kansas City 1, Missouri  
OFFICES IN PRINCIPAL CITIES

## BORGANA

*Solves*  
**SCALE AND CORROSION PROBLEMS**

**AN ADVANCED WATER TREATMENT THAT—**

- ★ Removes old scale and prevents new formations
- ★ Reduces Corrosion and Pitting
- ★ Envelopes Oil Particles
- ★ Prevents Foaming
- ★ Is Unconditionally Guaranteed

**FOR HIGH AND LOW PRESSURE BOILERS AND COOLING-WATER SYSTEMS**  
By the Makers of Strong Traps, Strainers and Valves

**STRONG, CARLISLE & HAMMOND COMPANY**  
1392 W. 3RD STREET • CLEVELAND 13, OHIO