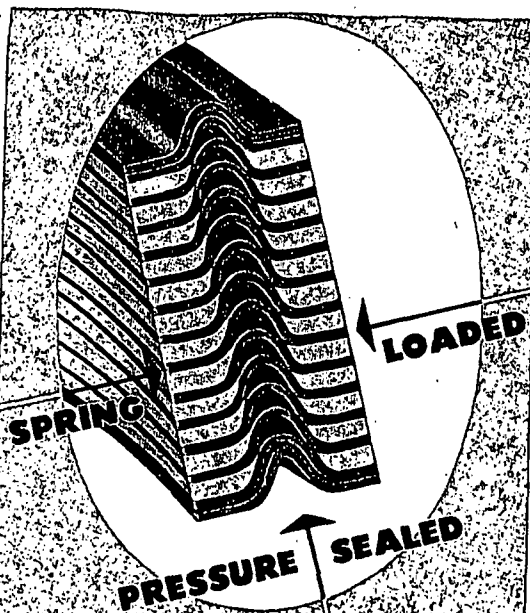




It's the live spring action and U-shape of the metal plates in Ajax Spiral-wound Gaskets that permits them to give and take with varying pipe line or boiler stresses, to seal joints tight at safe bolt loads and unlike the pressures they are sealing against to keep them tight under all operating conditions.

There are types and sizes for all standard flanges and for manholes, handholes and tube caps for all makes of stationary and marine boilers, waterwalls, economizers, etc.

Materials of construction include plated, low carbon steel or stainless, Canadian or blue African castings or chemically inert DuPont Teflon.

Sold universally through industrial distributors. Ask your supply house or write:

UNITED STATES GASKET COMPANY

FABRICATORS OF "TEFLON" & "MEL-F" FOR THE CHEMICAL PROCESS & ELECTRONIC INDUSTRIES
CAMDEN 1 NEW JERSEY

Representatives in Principal Cities Throughout the World

More EQUIPMENT NEWS

a 1 hp compressor, model K12, or 1 1/2 hp compressor. Units operate on 230 v, 50 or 60 cycles, single or three phase, 60 or 50 hz, 100 or 200 current, and 230 v, d.c. Bulletin 100, Remington Air Conditioning, Remington Corp, Auburn, N.



Plug Valve Operator. R11 • Unit can open or close a 24 in. valve in two seconds without mechanical shock. It is claimed. Plug valve operator can be installed on existing 1 1/2 in. valves. It may be powered with gas or liquid at pressures from 50 to 1000 psi.

The single moving part applies directly on and about the valve stem by two-handled wrench. Available for gas, cyclic, or automatic remote control, pneumatic, hydraulic or electric impulse.

Although principally used on high pressure gas lines, unit is readily adapted for industrial plant use. Shafer Valve Co. Inc, 2442 W. 14th Road, Mansfield, Ohio

For more data on these items, see page 143. Identify your request with item number.

Safety Switches

857 • New line of standard duty switches type HCL, is available in sizes of 30, 60, 100 and 200 amps, 240 and 480 v, 2, 3 and 4 poles. Pole unit features arc-quenching action that is similar in principle to the arc-extinction feature of circuit breakers. The units have fast make quick-break action, interlocking and hp ratings, meet NEMA standards.

Trumbull Electric Dept, General Electric Co, Plainville, Conn.

Zeolite Softener Cleaner

858 • Zeotone is said to clean and up the zeolite or resin bed in commercial or industrial water softeners. Manufacturer claims it will loosen iron deposits, all other material that becomes trapped in softener bed. Cleaner can be used on softener that is regenerated with salt. Letin available.

Calgon, Inc, Hagan Bldg, Pittsburgh 30, Pa.

HALL INDUSTRIAL WATER REPORT

Hall Laboratories, Inc.—A Subsidiary of Hagan Corporation, Pittsburgh, Pa.

Volume 1

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Number 4

Coal Washer Maintenance Costs Cut in Half

Maintenance costs on the coal washer for a big steel plant were running as high as \$18,000 a month when Bill O'Brien, Hall field engineer, was consulted. The main trouble in the washing process arose when iron pyrites in the coal came in contact with air and water. Sulphuric acid is formed, and plays hob with the equipment. Drawing on his experience with similar situations, Bill prescribed treatment of the wash water with Banox® corrosion inhibitor. Maintenance has already been cut in half, unscheduled shutdowns have been eliminated, and further improvement can be anticipated.

Water is your industry's most important raw material. Don't waste it.

Epsom Salt Sales Boom in West

Hall-man Hankison of Denver reveals what associate W. C. Bennett did to keep a client happy.

A new 1500 psig boiler filled with raw water required fast silica reduction. No magnesium compounds were available at the plant for the purpose, so Bennett went to a drugstore and asked the clerk for five pounds of Epsom Salts. The clerk looked startled, the order was repeated, and the sale made.

Only five pounds wasn't enough. So the next evening he returned to the drugstore for an additional five pounds.

This was too much for the clerk, who braced himself firmly, looked Bennett squarely in the eye, and said explosively, "What FOR?"

Lamme Medal Awarded Dr. Hall

The Benjamin G. Lamme medal, one of Ohio State's top honors, was awarded to Dr. Ralph E. Hall at the spring quarter commencement exercises. Dr. Hall received the award for meritorious achievement in engineering.

Said the Ohio State Lantern in announcing the award, "Not only is Dr. Hall credited with the development of water conditioning into an exact science based on sound scientific principles, but his contributions to the entire power industry are considered invaluable. Today the Hall system of boiler water treatment is practically standard throughout the world."

From its founding in 1926, until his retirement in 1950, Dr. Hall was director of Hall Laboratories. He still serves as a consultant to Hall Laboratories on both research and development problems in their work as water consultants to industry. Dr. Hall is the author of 64 papers, and some 54 patents have been issued on Hall processes. He is a member of the American Chemical Society, the American Society of Mechanical Engineers, and two national honorary societies, Phi Beta Kappa and Sigma Xi.

Report Shows Scope of Hall Service

The following extracts from a recent report of Basil Welder, Hall Service Engineer, demonstrates what is meant by "Hall Plant-Wide Water Service." The Hall Service Engineer is not only informed on industrial water but is also alert to the many factors of operation and layout which affect results.

► Persuaded steel plant to make mechanical changes in open-hearth door frames to improve cooling.

► Located leak of clay slip into condensate return system of ceramic plant.

► Introduced Hagafilm® for control of corrosion in condensate return system of glass plant.

► Established system for treating water in five air-conditioning systems in large department store.

► Recommended special filter to plant manufacturing compressed gases, reducing oil in condensate to insignificant level.

► Used Burosil® in boilers of synthetic-fuels laboratory to get rid of sludge through precipitation of magnesium.

► Prepared survey of alternative systems of primary treatment of feedwater for new boilers of steel plant.

Industrial Water Problems Require Special Handling

There are no "stock answers" to industrial water problems, for information, write, wire or call Hall Laboratories, Inc.

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HALL LABORATORIES, INC.—CONSULTANTS ON PROCUREMENT, TREATMENT, USAGE AND DISPOSAL OF INDUSTRIAL WATER