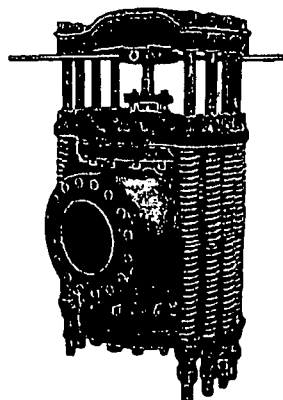


A VALVE THAT WILL INTEREST EVERY POWER ENGINEER



The DAVIS No. 265 HIGH PRESSURE RELIEF VALVE

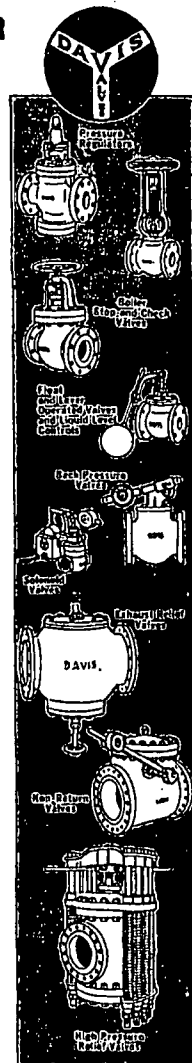
USES.—(1) For turbine relief on bleed-off system. (2) For protection of any boiler room or process equipment by relief to atmosphere. (3) For relief of high pressure lines to low pressure lines at predetermined pressure. (4) For use in plants carrying multiple boiler pressures to protect lower pressure systems.

ADVANTAGES.—Multiple springs result in less spring accumulation . . . less build-up for maximum relief . . . less blowdown to close. Compact design with springs at sides reduces headroom requirements. Center adjusting screw available for quick, easy change of pressure setting.

BUILT TO MEET YOUR REQUIREMENTS. Offered in sizes from 4" to 30" in semi-steel or steel with bronze or stainless steel trim. Test lever and hold-open device available when desired. Detailed information on request.

DAVIS REGULATOR CO.

Representatives in All Principal Cities
2540 S. WASHTENAW AVE., CHICAGO 8, ILL.



tested at 310 psi, about 50% above its maximum net head. ASME Paper No. 47-F-4.

Fundamentals of Hydraulic Governor Operations, by G. Forrest Drake, Woodward Governor Co. The problem of speed control of prime movers is considered briefly. Various speed-sensing devices and servomechanisms are described, and the choice of centrifugal ball-head and hydraulic servo is discussed. Included are typical combinations of these elements plus necessary stabilizing devices. Application of hydraulic governors to various prime movers is described as are some unusual installations, such as aircraft-propeller and wind-turbine control. NCIH paper.

Hydraulic Circuits of Industrial Process Controls, by H. Ziebold, Astania Regulator Co. Calls attention to the similarity between the problems of tool and process hydraulic controls. Analyses are given of basic amplifiers, transmitters, stability, basic design features, servomotors for different variables, remote controls, program controls, interlocks and safety features. NCIH paper.

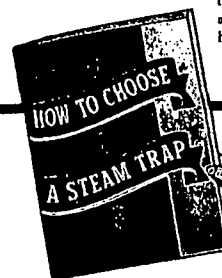
Fundamental Aspects of Cavitation, by Hunter Rouse, Iowa Institute of Hydraulic Research, State University of Iowa. Cavitation—the tendency of a flowing liquid to vaporize in zones of low pressure—is discussed as a basic phenomenon of fluid mechanics. The relationship of cavitation research to various fields—fluid machinery, supersonics, underwater ballistics, and hydraulic structures—is described, to emphasize both the general nature of the problem and the advantage of cooperative endeavor. NCIH paper.

Cavitation in Centrifugal Pumps, by R. M. Watson, Worthington Pump & Mach. Corp. Cavitation in centrifugal pumps has long been a matter of concern to manufacturers and users of such equipment. Erosion of pump elements, noisy and unstable performance have been studied to determine: (1) limiting conditions of operation for which careful design can produce a pump free of cavitation (2) nature of cavitation and of materials best suited to withstand its destructive effects.

Particular attention is given to the many factors that cause what might be called premature cavitation, such as local surface defects due to casting departures from ideal shapes, entrapped conditions causing a flow pattern anticipated, leakage jet past wear rings from discharge to suction, and nonuniform flow in the impeller casing.

How to CHOOSE a STEAM TRAP

This 40 page book tells how to select the right size of trap for: unit heaters, header drips, coils submerged or in still air, mains, autoclaves, water heaters, special equipment and many others. Tells how to determine life of a trap; what are best trapping practices and accepted theories; gives operational and maintenance facts and tips. Part of the book tells about simplified piping and . . .



HOW TO SAVE SCARCE FITTINGS use Super-Silvertops and save 7 fittings per trap

You can save as many as seven pipe fittings per trap by using Anderson Super-Silvertops. These dependable time-tested, inverted bucket steam traps conserve hard-to-get fittings and save up to 60 minutes of installation time on every trap. Guided bucket design with all connections made at the head of the trap are responsible for these savings—savings obtained without the use of cored passages and split (pierced) gaskets. Send for your copy of the book "How To Choose A Steam Trap"—it's helpful, valuable, shows the way to savings and does not obligate you in any way.

THE V. D. ANDERSON COMPANY
1934 West 96th Street • Cleveland 2, Ohio

SUPER-SILVERTOP STEAM TRAPS

