

TUTHILL PUMP COMPANY

979 East 95th Street, Chicago 19, Illinois
Representatives in all principal cities

Pumps for
Your Purpose

Tuthill manufactures a complete line of positive displacement rotary pumps for transfer oil burner, lubrication, and other services. Capacities from $\frac{1}{2}$ to 200 gpm, for pres-

ures to 500 psi, speeds to 3600 rpm. Also, pump units and special models for built-in applications. Write for catalog describing complete line.

SU Belt-Driven Pump Unit. For handling heavy fuel oil in commercial oil burner applications or with packaged boilers. Internal-gear pump design and 2 to 4 "V" belt drive insure quiet operation. Economically priced, it includes quality construction features such as two ball-bearing pillow blocks, one point take-up which simplifies adjustment of belt tension and special fabricated steel base with versatile motor mounting.

SU pump units are compact—can be provided with overall dimensions of only 14% in. x 25% in. Furnished with a wide variety of pump and motor combinations, for pressures up to 300 psi, capacities to 2030 gallons per hour. Sub-assemblies of pump, stub shaft, pillow blocks and sub-base can be provided for incorporation into larger equipment. Ask for Catalog 107.

Model L—Small Industrial Pumps. Underwriters' Laboratory approved heavy oil pump series widely used for oil burner service, lubrication, liquid transfer and general industrial use. Model L is a compact, highly efficient, positive displacement, internal-gear rotary pump with mechanical seal. It is provided for capacities from 20 to 360 gallons per hour at pressures up to 500 psi. Available with or without built-in relief valve and a variety of flange or foot mountings. Model L is directional in rotation and designed for direct drive at standard motor speeds. Ask for Catalog 101.

Model R—Automatic Reversing Pumps. Model R incorporates the Tuthill automatic reversing feature—designed to maintain constant direction of flow from the same port regardless of the direction of rotation of the driving shaft, without the use of check valves. Available in 11 sizes ranging in capacities from $\frac{1}{4}$ to 200 gpm, for pressures up to 300 psi. Variations of models are available with mechanical shaft seal, internal-relieving feature and various mountings. Write for Catalog 105.

Stripped Pumps for Built-in Applications. For incorporation into products of manufacturers, Tuthill pumps can be furnished with the mounting bracket removed (Series S), or with mounting bracket and housing removed—providing pumping elements only (Series SA). Stripped pump units are furnished in 10 sizes in capacities from $\frac{1}{4}$ to 200 gpm for pressures up to 200 psi. The series includes nonreversing and automatic reversing type pumps as well as units with automatic internal-relieving feature. Ask for Catalog 106.

Cartridge-Type Lubrication Units. These compact, cartridge-type lubrication units are provided in 4 different models, each in 3 sizes, with a capacity range of from 55 to 170 gallons per hour, for pressures up to 200 psi. They may be furnished for non-directional service or with the automatic reversing feature where the pump must be driven by a reversing shaft. Choice of internal or external porting. Designed for flange mounting. Ask for Catalog 101.

Integral Motor—Pump Units. Tuthill provides a complete range of close coupled pump and motor combinations for use where space and weight are primary considerations. Units such as illustrated can normally reduce space required for pump and motor by at least six inches and cut weight by several pounds. Capacities range from 20 to 300 gph. Pumps are available for pressures to 500 psi.

Larger pump and motor combinations can be provided with capacities to 50 gpm, for pressures to 200 psi.

For original equipment applications involving substantial quantities Tuthill can develop a special POWERMITE combination where pump and motor are incorporated into one unit which takes up no more space than a standard electric motor (a typical POWERMITE measures only 3% in. x 7% in.)

Relief Valves. For all petroleum type fluids. Provided in six sizes for pressures from 5 to 200 psi . . . specials to 500 psi. Simple pressure adjustment, fully adjustable under pressure. Full unobstructed flow, mounts directly into line, operates in any position. Underwriters' Laboratories approved. Ask for Catalog 110.



WATTS

WATTS REGULATOR COMPANY

Lawrence, Massachusetts

PROTECTION AND CONTROL SPECIALTIES SINCE 1875

Relief, Reducing and Regulating Valves

TEMPERATURE & PRESSURE RELIEF VALVES

Series 40, 140, 240, 340 (ASME RATED—A. G. A. LISTED)
Under latest Standard ASA Z21.22—1958

Fully automatic temperature and pressure relief protection for hot water supply tanks and heaters. Available with short or extended type thermal elements. All-bronze body construction. Seat located above drain so water can't be trapped and sediment can't foul seat. Non-mechanical seat-to-disc alignment will not stick or freeze. Powerful solid wall, hydraulic principle, piston-type thermostat not vulnerable to corrosive water conditions. Sizes $\frac{3}{4}$ " to 2".

PRESSURE REGULATING VALVES

No. 127

Large capacity, remote control diaphragm type reducing valves for steam service. Initial pressure to 250 lbs. Reduced pressure 1-100 lbs. Renewable stainless steel seats with composition or stainless steel discs. Sizes $\frac{1}{2}$ " to 3", bronze bodies, threaded connections; $2\frac{1}{2}$ " to 3", iron bodies, flange connections.

WATER PRESSURE REDUCING VALVE

No. 135

Bronze body regulators with integral strainer for water (and air) service on household and industrial applications. Initial pressure to 250 lbs. reduced pressure 40-75 lbs. Stainless steel strainer and renewable stainless steel seat. Sizes $\frac{1}{2}$ " to 2" inclusive. Also available for low pressure requirements. Specify No. 135LP, range 5-30 lbs.

HIGH CAPACITY WATER PRESSURE REDUCING VALVES

No. 2235-2230S

Type 2235 series are bronze body regulators with separate strainers for water service on commercial and industrial applications: Initial pressure to 250 lbs. Reduced pressure 30-75 lbs. Stainless steel strainer screen and renewable stainless steel seat. Sizes $\frac{1}{2}$ " to 2". No. 2230 series, iron bodies, sizes $2\frac{1}{2}$ " and 3" initial pressures up to 300 lbs. Reduced pressure 5-100 lbs.

ASME HIGH CAPACITY SAFETY RELIEF VALVES

No. 740 Series

Large internal flow areas offer extremely high discharge capacities for hot water space heating boilers. Size one valve over wide variety of applications and reduce inventory, problems, costs. Pressure settings available from range 30 lbs. to 75 lbs. with corresponding high ratings from 895,000 to 10,700,000 BTU/HR. No. 174A series furnished with bronze bodies, sizes $\frac{3}{4}$ " to 2". Pressure settings available from 30 to 160 lbs.

HEAVY DUTY CIRCULATOR

No. 1100—Maximum Pressure 30 lbs.

For use on radiant heat, small diameter piping and other applications requiring high duty performance capacity. 1/6 H.P. motor. 1725 R.P.M. Companion flange sizes $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ " (Note: For recirculating domestic water specify Watts No. 1500 all-bronze recirculator. $\frac{1}{8}$ H.P. motor. 1725 R.P.M. Companion flange sizes $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ".)

For more information or catalog, write Department C

