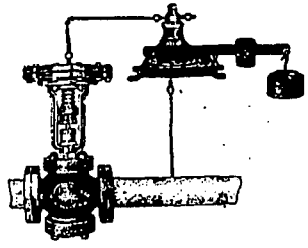
ATLAS

TRADE MARK REG

SUPER-SENSITIVE

This remarkable ATLAS Super-Sensitive Pressure Regulator—regardless of load fluctuations and pressure variations—maintains the desired pressures



RIGHT ON THE LINE

Regulates in Fractions of One Pound to Atmosphere, or Higher, in One Stage—Steam—Air—Gas.

Where Can It Be Used?

Wherever it is desired to maintain constant reduced pressure in heating mains, service mains, vats, cookers, retorts, etc. It is often used as an altitude regulator where it is desired to maintain a constant level in open tanks. Also as a pump governor where a constant delivery pressure is required. In fact its application to pressure regulation is practically unlimited. It accurately regulates at any pressure between the initial pressure and atmosphere in one stage, operating control valves from ¼" to 10". Complete details are given in Bulletin 1B. Ask for a copy.

How to Order

For reduced pressures of 2 to 15 lb., specify No. 801; 0 to 5 lb., No. 801-8; 15 to 150 lb., No. 802. Sizes: ¼", ⅜", 1", 1¼", 1½", 2", 2½", 3", 4", 5", 6". Some of the valves are screwed. Some are flanged.

Check These ATLAS Products

Check the items below on which you want complete data and mail to us with your name, firm name, and address.

- ☐ Super-sensitive Pressure Regulators
- ☐ Other Pressure Regulators
- ☐ Damper Regulators
- ☐ Temperature Regulators
- ☐ Reducing Valves
- ☐ Exhaust Control Systems
- ☐ Pump Governors
- ☐ Oil Control Cocks
- ☐ Humidity Controllers
- ☐ CAMPBELL Boiler Feed Water Regulators
- ☐ Thermostats
- ☐ Balanced Valves
- ☐ Control Valves

ATLAS VALVE COMPANY

REGULATING VALVES FOR EVERY SERVICE

289 SOUTH ST., NEWARK 5, N. J.

Represented in Principal Cities

Plant Problems

(*Continued from page 140*)

temperature of tank water using built-in cooling coils. (3) Run a small cold-water line directly into suction line near tank exit.—Ralph White, Cincinnati, Ohio.

Increase Tank Height

BEST BET is to increase suction head by building up tank sides to at least double present height. After thus raising water level, he should keep it up with float control on tank supply. When *GR* states there is no way of increasing the suction head, I presume he means raising tank or lowering pump level.

A dome on top of the valve chamber would act as storage tank for any vapor generated, further reducing pump slam. —Vincent Strojan, Nova Scotia, Canada

Reduce Pump Speed

SOLUTION TO *GR*'s problem is simply one of reducing speed. By slowing pump to 30 or 40 strokes per min, quantity of water delivered will be equal to if not greater than that now handled.

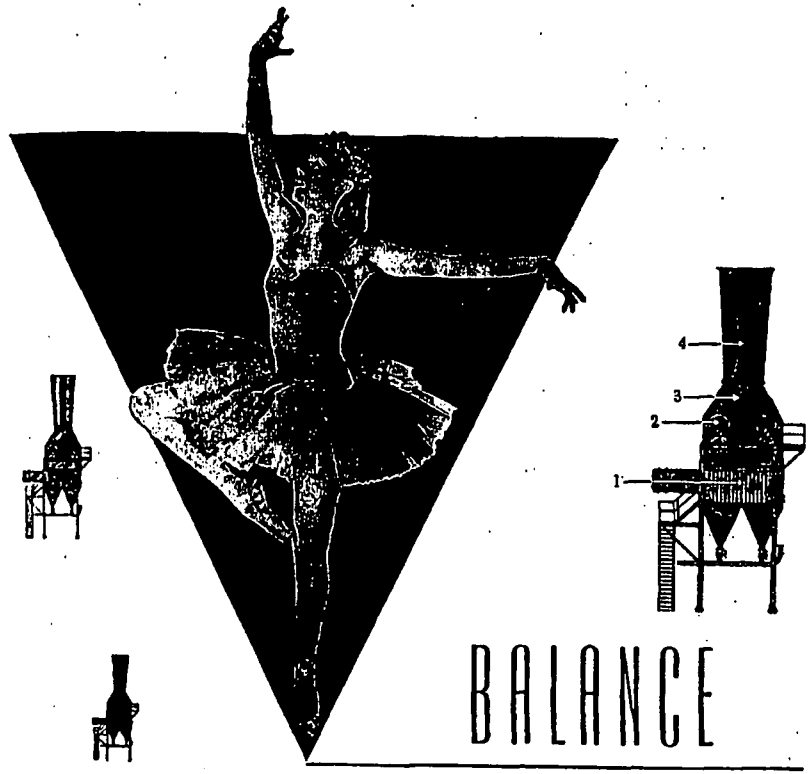
The reasoning is simple enough. At 70 strokes per minute, piston travel is 163 fpm; piston displacement is 1204 cu in. Since the pump is a double-acting unit it will handle 2408x70, or 728 gpm. A velocity of 12 fps is needed to pass 700 gpm through 5-in. pipe. Since it is improbable that the suction water can pass through the many passages in the valve decks at this velocity, the solution is to reduce pump speed. Water velocity of 150 fpm will give him good results.—Frank A Butler, Dallas, Texas.

EDITOR'S NOTE: *Because of space limitations all acceptable answers to the April 1948 question were not published in the July issue. Additional answers to that question appear below.*

Step-by-Step Inspection

AFTER EXAMINING indicator cards I recommend these steps: (1) Check valves and chambers to determine if they are worn, leaking or if any foreign matter is in steam passages. (2) Examine valve gear and find if it is operating properly. Look for worn parts, poor fits and condition of springs. (3) Check eccentric setting. (4) Check dashpots, for valve failure to close properly. Finally, check indicator and its rigging.

(*Continued on page 182*)



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