

JENKINS PRACTICAL PIPING LAYOUTS

How to plan

PIPING CONNECTIONS FOR A NON-FREEZE COOLING TOWER

The non-freeze cooling tower illustrated here is one of several types in use for hotels, institutions, supermarkets, and shopping centers where uninterrupted refrigeration is a round-the-clock operating requirement. This type offers the advantage of a dependable supply of cooling water at low cost, and conforms with water conservation regulations now in effect in many locations.

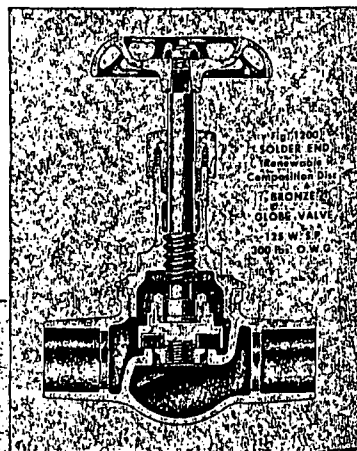
Cooling tower and compressors must operate on the same schedule in any continuous refrigeration system. The tower must perform its function even when the temperature is below freezing. For this reason, the water used in this system is stored in a vented or open tank located in a heated space, rather than in the conventional pan under the exposed tower.

When freezing weather occurs, an anti-freeze solenoid valve, actuated by a temperature-sensitive device, opens to drain all water from lines exposed to outside temperatures. The automatic 3-way solenoid valve, also temperature actuated, permits the water to bypass the cooling tower under freezing conditions, or when it becomes too warm due to fan failure or overload in the storage tank. Under the latter condition, the automatic overheat dump valve would also open. The subsequent drop of the water level in the storage tank causes the float valve to open and admit city water to make up the deficiency. Thus, in an emergency, city water would be used for cooling.

The Jenkins Solder End Valves recommended for various control points in this system are made for use with Types K, L, and M copper tubing. Designed by Jenkins specialists, they have the extra durability that assures life-time economy and trouble-free performance even where valve usage is most severe. Their liberally dimensioned body castings will withstand the heat of soldering without danger of distortion or warping of seats.

Consultation with accredited piping engineers and contractors is recommended when planning any major piping installation.

To save time, to simplify planning, to get all the advantages of Jenkins specialized valve engineering experience, select all the valves you need from the complete Jenkins line. It's your best assurance of lowest cost in the long run. Jenkins Bros., 100 Park Ave., New York 17. Sold through leading Industrial Distributors everywhere.



SEND FOR THIS FOLDER. It illustrates and describes the complete line of Jenkins Solder-End Valves, and gives principal dimensions. Fill out and mail the coupon today.

JENKINS BROS., 100 Park Ave.
New York 17, N. Y.

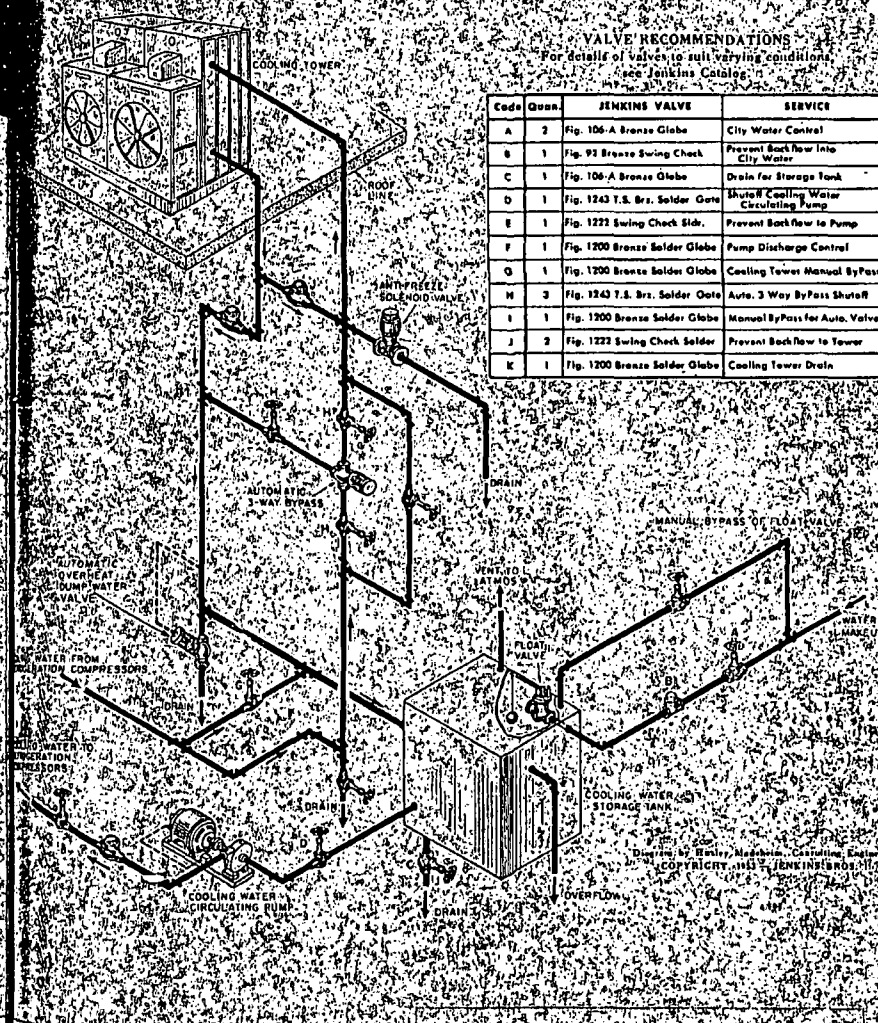
Please send folder on Solder-End Valves

Name _____

Company _____

Address _____

PIPING CONNECTIONS FOR A NON-FREEZE COOLING TOWER



VALVE RECOMMENDATIONS

For details of valves to suit varying conditions, see Jenkins Catalog, Page 30, Fig. 1.

Code	Quan.	JENKINS VALVE	SERVICE
A	2	Fig. 106-A Bronze Globe	City Water Control
B	1	Fig. 92 Bronze Swing Check	Prevent Backflow Into City Water
C	1	Fig. 106-A Bronze Globe	Drain for Storage Tank
D	1	Fig. 1243 T.S. Brz. Solder Gate	Shutoff Cooling Water Circulating Pump
E	1	Fig. 1222 Swing Check Slide	Prevent Backflow to Pump
F	1	Fig. 1200 Bronze Solder Globe	Pump Discharge Control
G	1	Fig. 1200 Bronze Solder Globe	Cooling Tower Manual Bypass
H	3	Fig. 1243 T.S. Brz. Solder Gate	Auto. 3 Way Bypass Shutoff
I	1	Fig. 1200 Bronze Solder Globe	Manual Bypass for Auto. Valve
J	2	Fig. 1222 Swing Check Solder	Prevent Backflow to Tower
K	1	Fig. 1200 Bronze Solder Globe	Cooling Tower Drain

Illustrating the proved 3-point formula for trouble-free, time-delaying hookups

A Use the right type valve for the service

B Place valves correctly in the line

C Choose Jenkins for lifetime economy

JENKINS VALVES



Jenkins Bros.