

# Water Feeder Model 551S

**For Steam Separators, Receivers,  
Tanks and Vessels**

**SERVICE RANGE:**

- **Maximum boiler pressure: 25 psi**
- **Maximum water supply pressure: 75 psi**
- **Water supply pressure must exceed boiler pressure by at least 10 psi.**

Crosses should be used at every right angle turn in the equalizing line piping connecting the feeder to the tank. This will facilitate cleaning and assure proper equalization between the tank and the feeder.

**IMPORTANT:** Be sure to blow down your boiler water level control to prevent a malfunction resulting in serious boiler damage.

**CAUTION: PROTECT YOURSELF, WHEN FLUSHING CONTROLS, HOT WATER AND STEAM WILL FLOW OUT OF THE DRAIN PIPE ATTACHED TO THE BLOW-DOWN VALVE.**



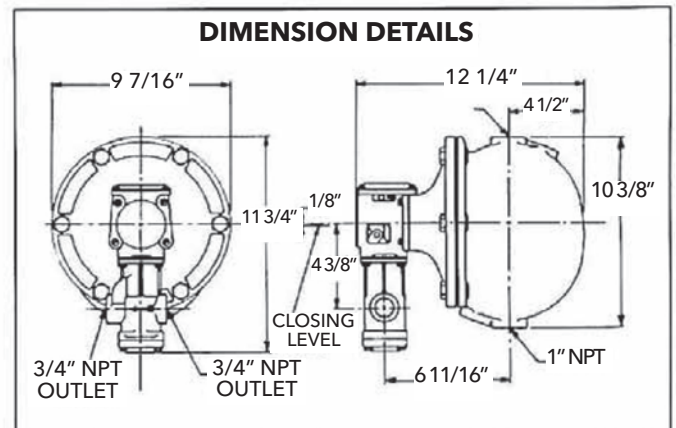
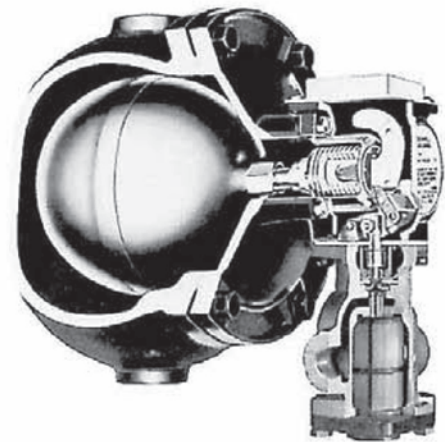
**LOCATION:**

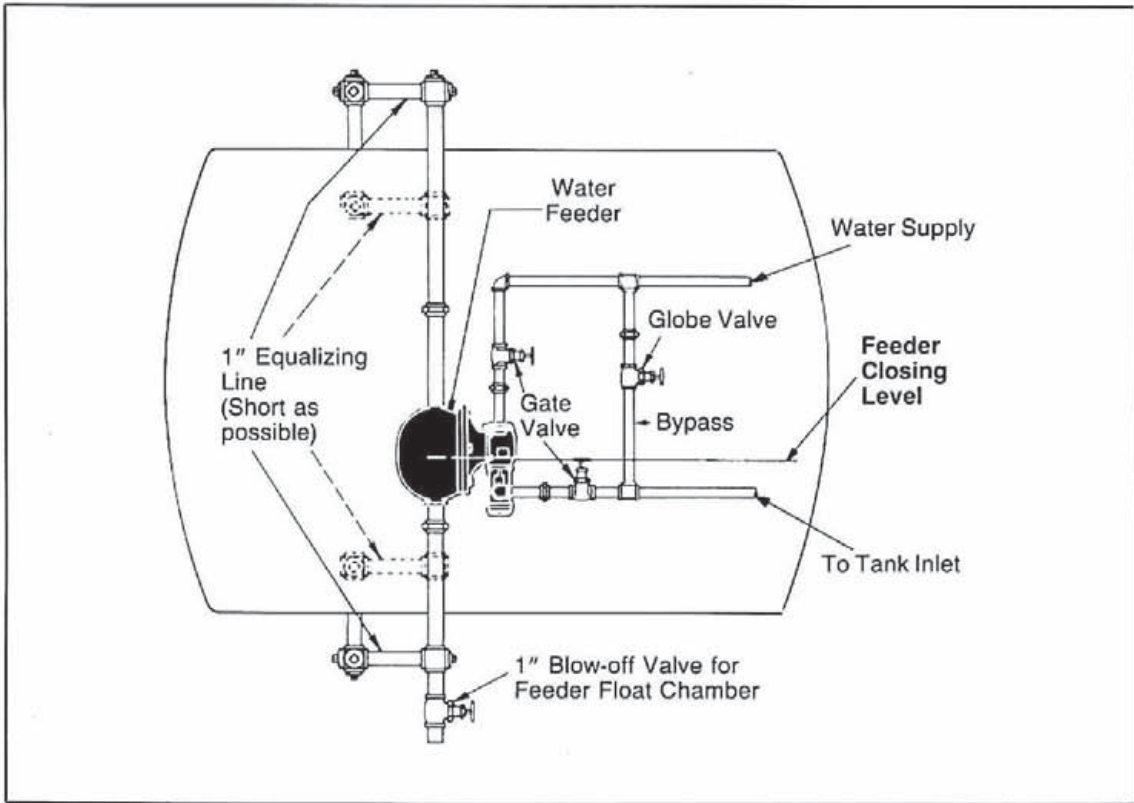
On condensate receiver tanks the feeder is usually located at the level one-third of the distance from the bottom to the top of the tank. This provides ample space for return condensate.

On steam separators and other vessels, location of the feeder should be determined according to the specifications established by the manufacturer of the separator tank.

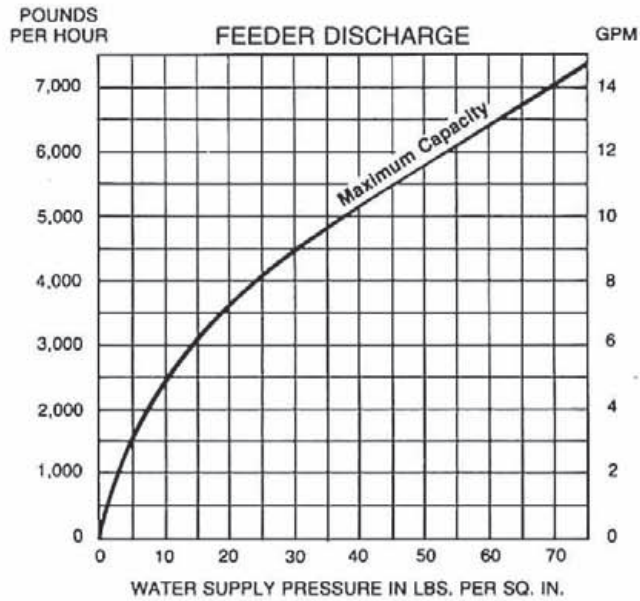
A "blow-off" valve should be located as shown in drawing to provide blow down for the feeder, so any sediment accumulation can be flushed out.

**NOTE:** Model 551S-B has a special float blocking arrangement which holds the float securely in place to prevent damage to the control mechanism during shipment. Removal of the blocking is required before operating.





**CAPACITY CURVE**



(Available city water supply pressure, or pump pressure, less internal pressure of unit on which control is installed).

# MAINTENANCE

## SCHEDULE:

### Daily

- Blow down when boiler is in operation if boiler operating pressure is above 15 psi.

### Weekly

- Blow down when boiler is in operation if boiler operating pressure is below 15 psi.

### Annually

- **Disassemble and inspect/clean strainer screen.**  
Replace if screen is torn or not able to be cleaned.
- **Remove and inspect/clean cartridge.**  
Replace if poppet does not move freely or debris cannot be removed.
- **Remove head and inspect internal parts.**  
Clean out all mud, silt, sediment and debris from chamber, float mechanism and other waterside components.
- **Inspect equalizing piping.** Clean or replace as required.
- **Check for leaks at gasket surface and solder joints.**

## NOTE

Use clean water to rinse components and surfaces. **DO NOT** use sharp objects to scrape off any accumulations of sediment or debris.

**Replace entire unit including equalizing piping every 10 years. More frequent cleaning or replacement may be required if used in locations where water treatment is required or in applications with high make-up water requirements.**

## WARNING



- Before using this product read and understand instructions.
- Save these instructions for future reference.
- All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of plumbing, steam, and electrical and/or systems in accordance with all applicable codes and ordinances.
- To prevent serious burns, the boiler must be cooled to 80°F (27°C) and the pressure must be 0 psi (0 bar) before servicing.
- This product can expose you to chemicals including Lead and Hexavalent Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).
- Previous controls should never be installed on a new system. Always install new controls on a new boiler or system.

Failure to follow this warning could cause property damage, personal injury or death.

### CAUTION:

- A more frequent replacement interval may be necessary based on the condition of the unit at time of inspection. McDonnell & Miller's warranty is one (1) year from date of installation or two (2) years from the date of manufacture.

