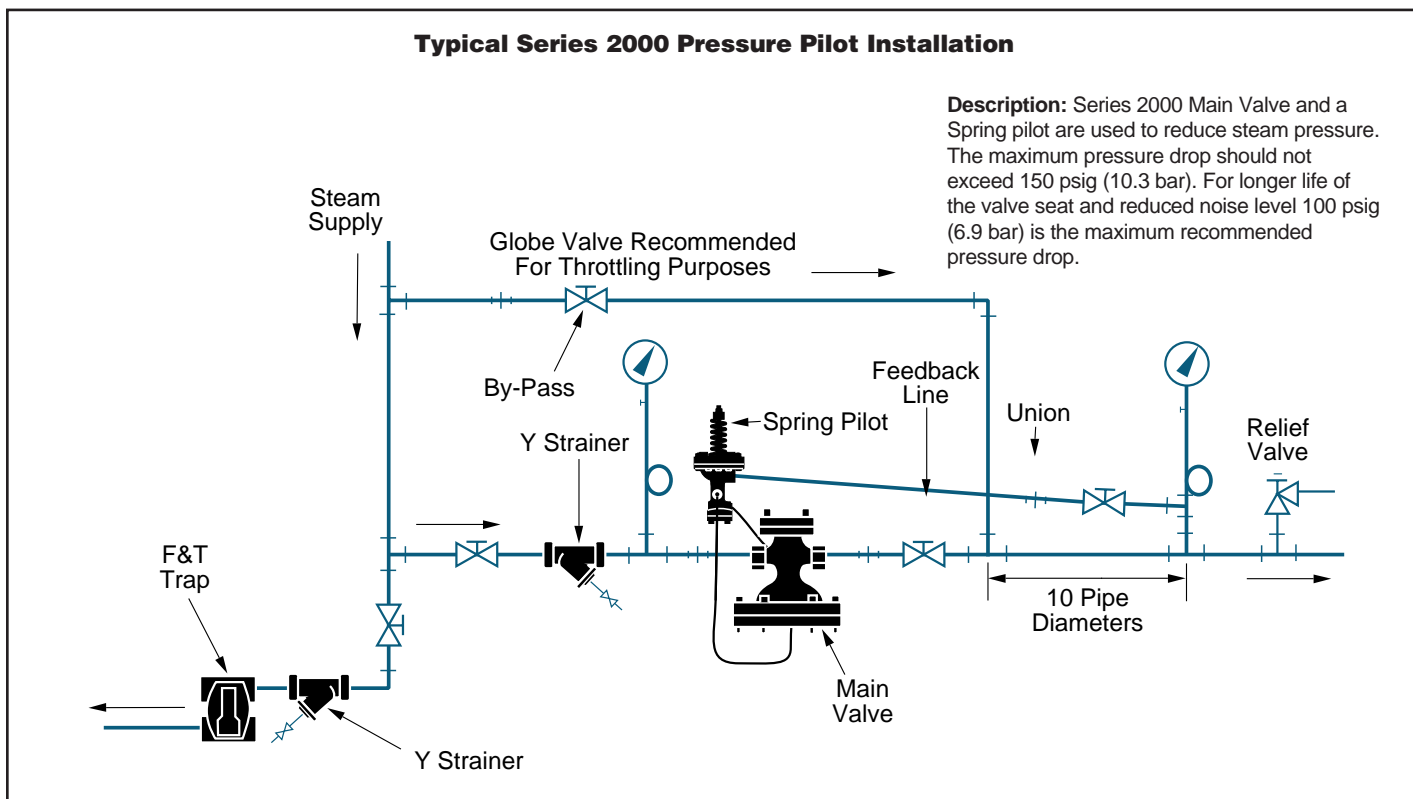


Series 2000 Typical Applications

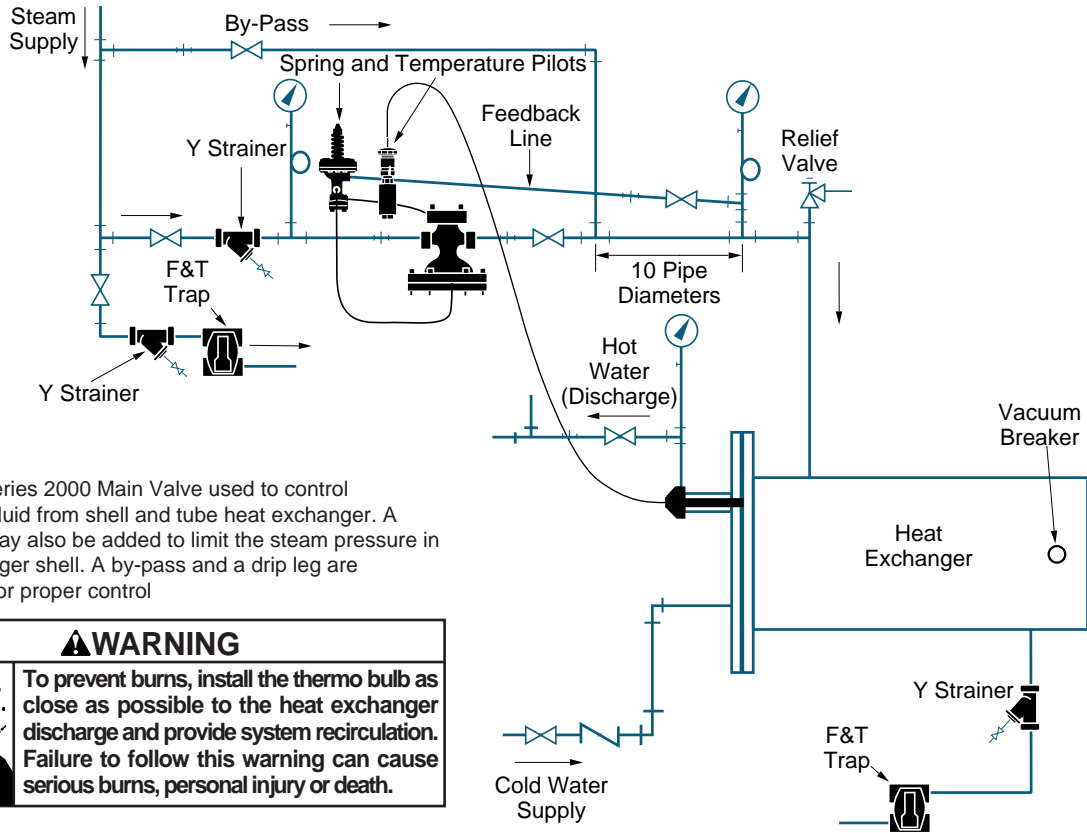


The relief valve should be sized for maximum capacity. A by-pass line and drip trap are always recommended for

pressure regulator installations. The sensing line should be at least 10 pipe diameters downstream from the gate valve.

Series 2000 Typical Applications (continued)

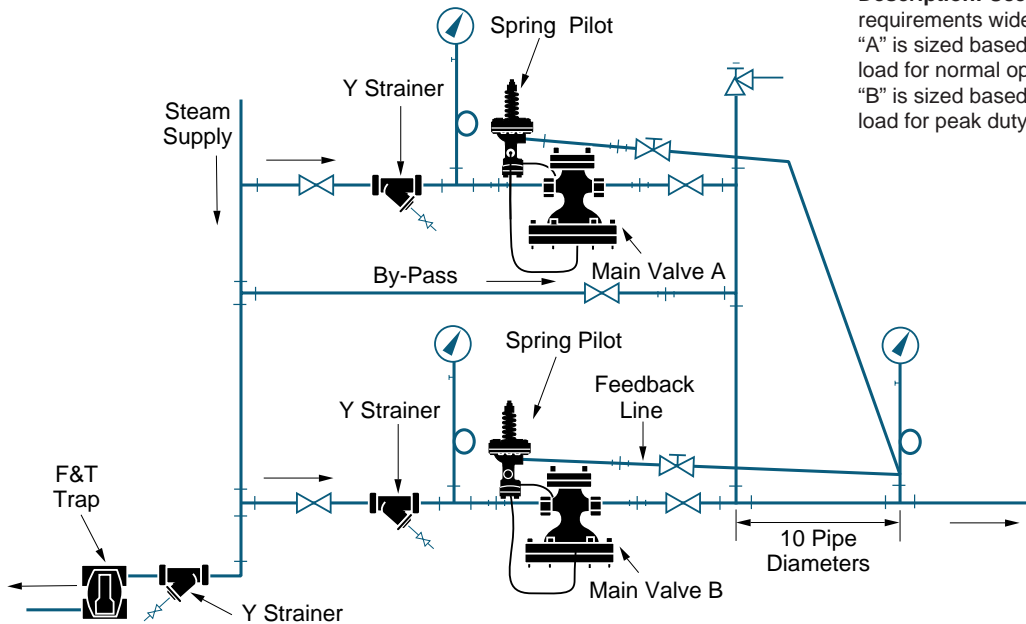
Typical Series 2000 Combination Pressure-Temperature Pilot to Control Water Heater Exchanger



Description: Series 2000 Main Valve used to control temperature of fluid from shell and tube heat exchanger. A pressure pilot may also be added to limit the steam pressure in the heat exchanger shell. A by-pass and a drip leg are recommended for proper control

⚠ WARNING	
	<p>To prevent burns, install the thermo bulb as close as possible to the heat exchanger discharge and provide system recirculation. Failure to follow this warning can cause serious burns, personal injury or death.</p>

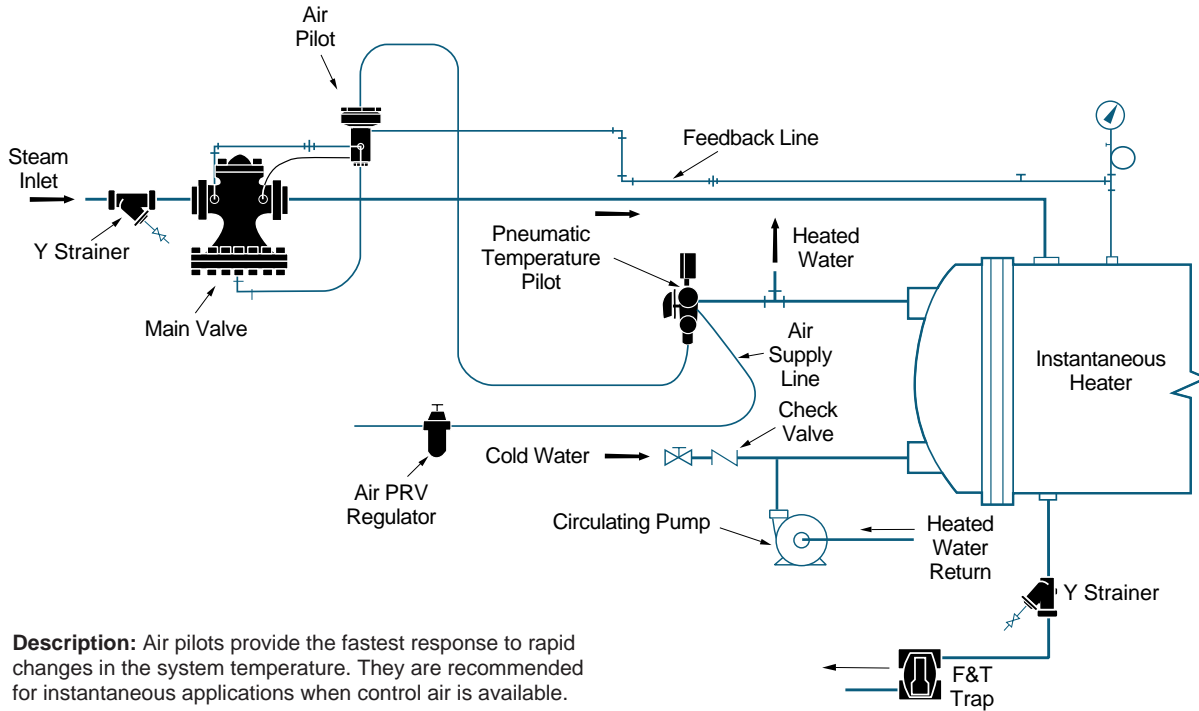
Typical Parallel Pressure Regulator Station



Description: Used when the load requirements widely vary. Main valve "A" is sized based on 1/3 the total load for normal operation. Main valve "B" is sized based on 2/3 the total load for peak duty operation.

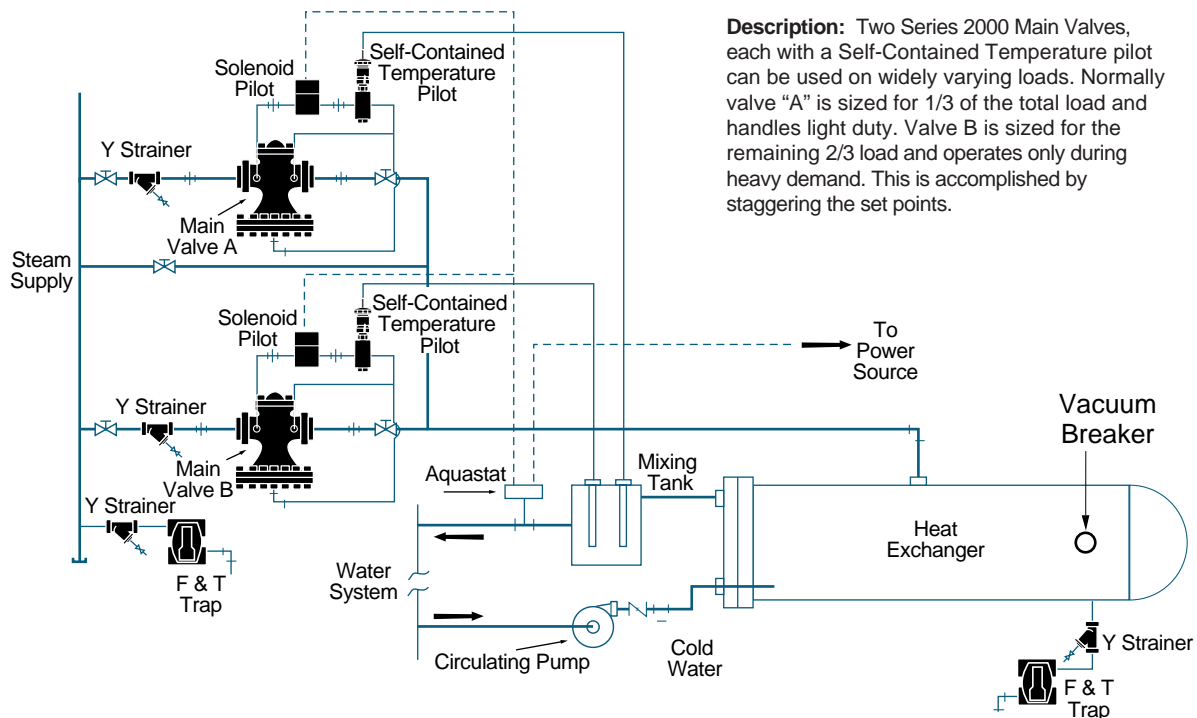
Series 2000 Typical Applications (continued)

Pneumatic Temperature Control on Instantaneous Heater



Description: Air pilots provide the fastest response to rapid changes in the system temperature. They are recommended for instantaneous applications when control air is available.

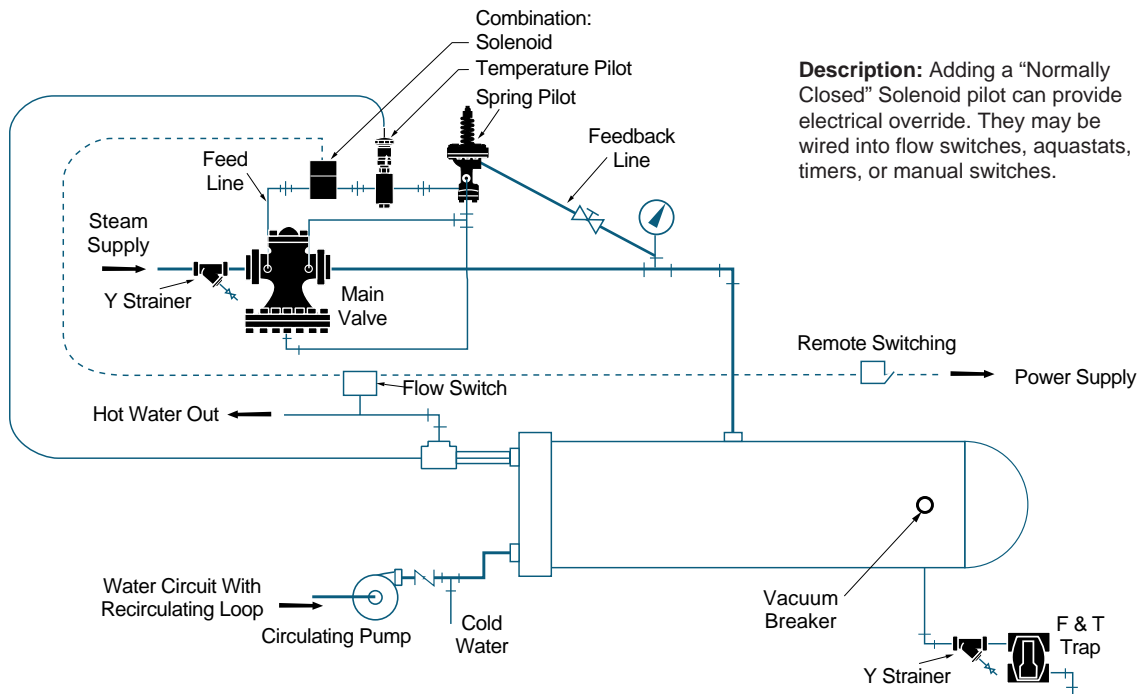
Temperature Regulators Used in Parallel to Control Widely Varying Flow Rates



Description: Two Series 2000 Main Valves, each with a Self-Contained Temperature pilot can be used on widely varying loads. Normally valve "A" is sized for 1/3 of the total load and handles light duty. Valve B is sized for the remaining 2/3 load and operates only during heavy demand. This is accomplished by staggering the set points.

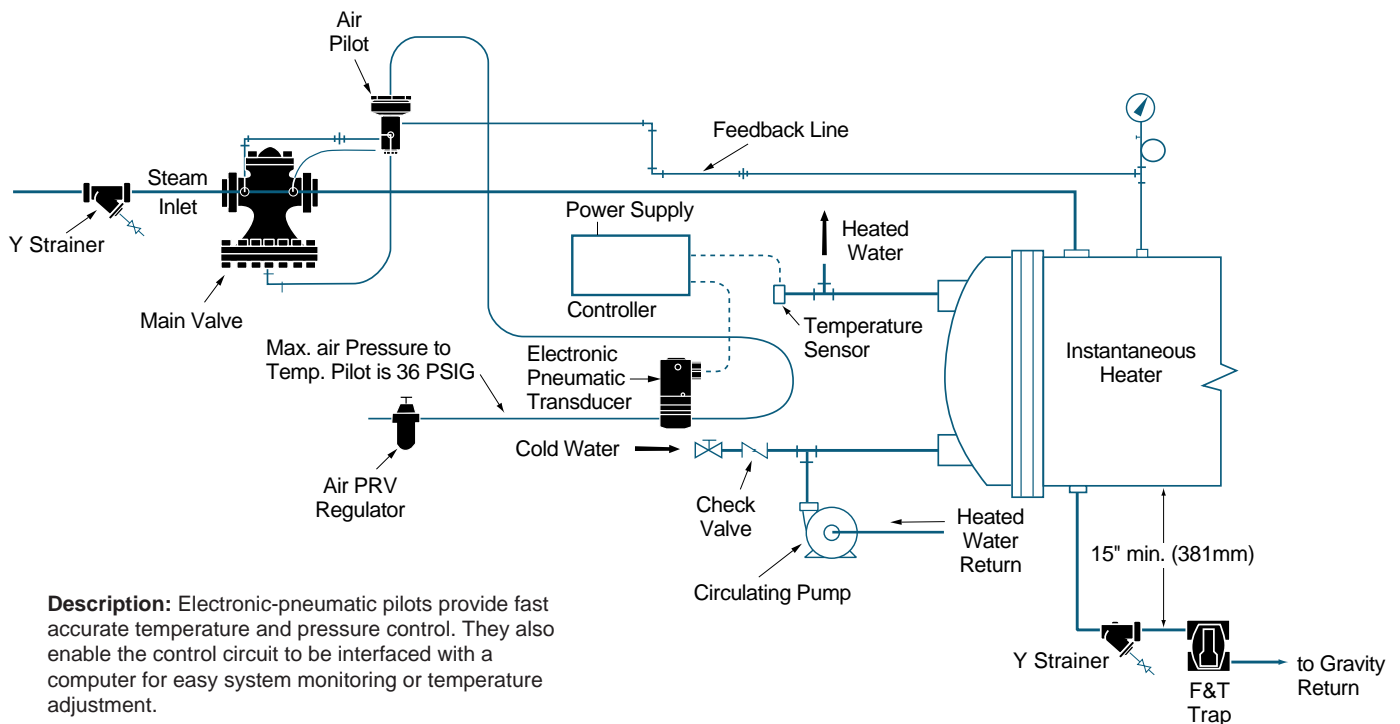
Series 2000 Typical Applications (continued)

Automatic Control of Heat Exchanger with High Limit Safety Control



Description: Adding a "Normally Closed" Solenoid pilot can provide electrical override. They may be wired into flow switches, aquastats, timers, or manual switches.

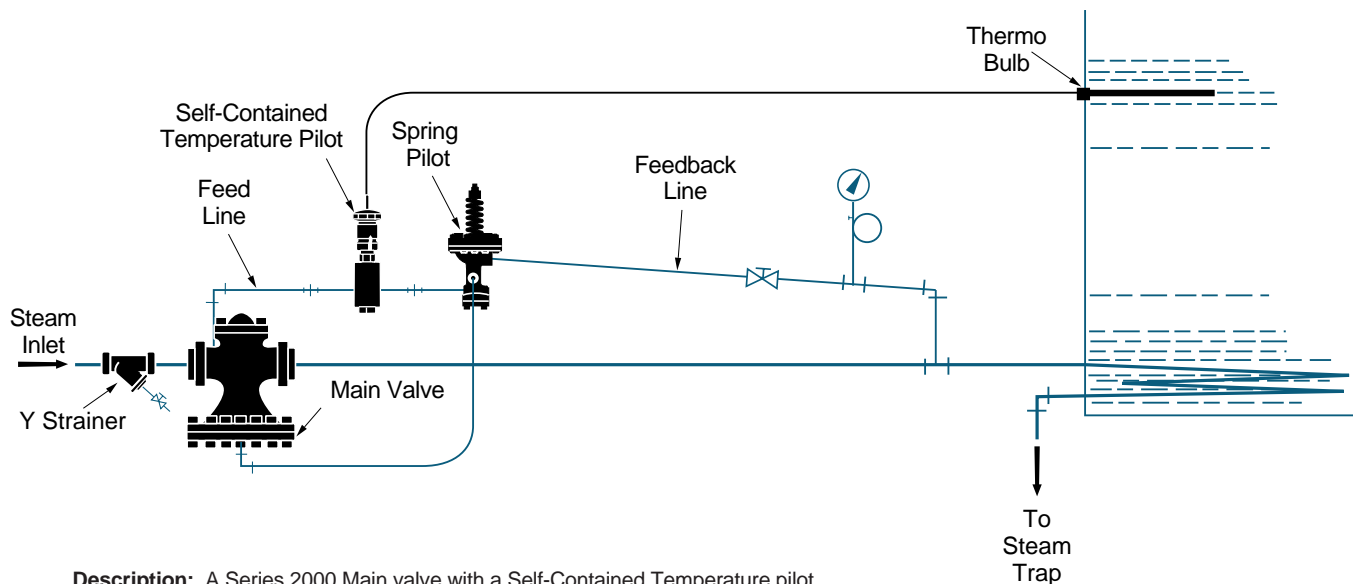
Electronic-Pneumatic Temperature Pilot for Instantaneous Heater Recirculation System



Description: Electronic-pneumatic pilots provide fast accurate temperature and pressure control. They also enable the control circuit to be interfaced with a computer for easy system monitoring or temperature adjustment.

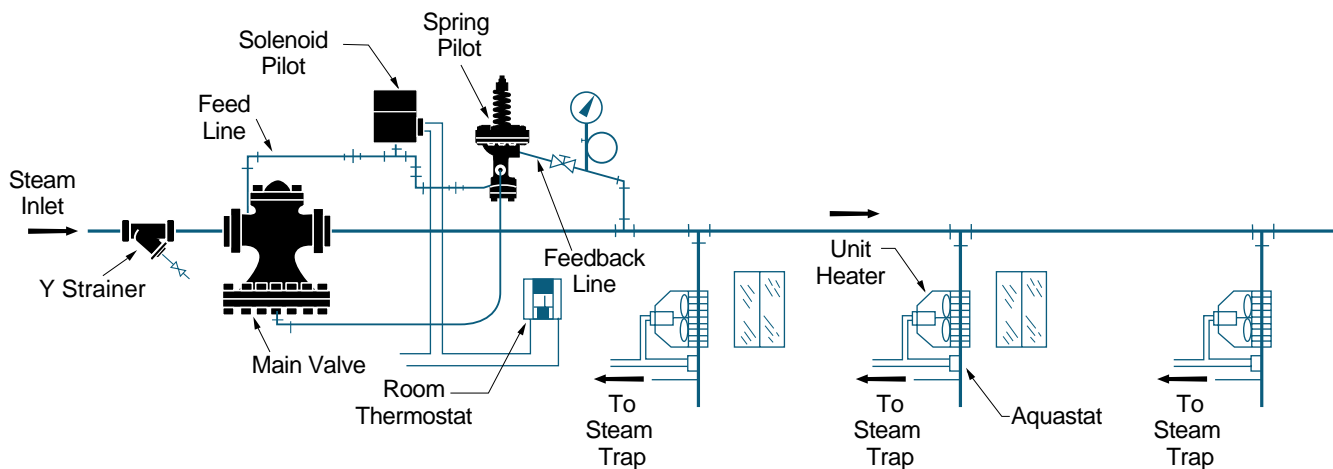
Series 2000 Typical Applications (continued)

Temperature Control for Tank Farm Fuel Oil Storage



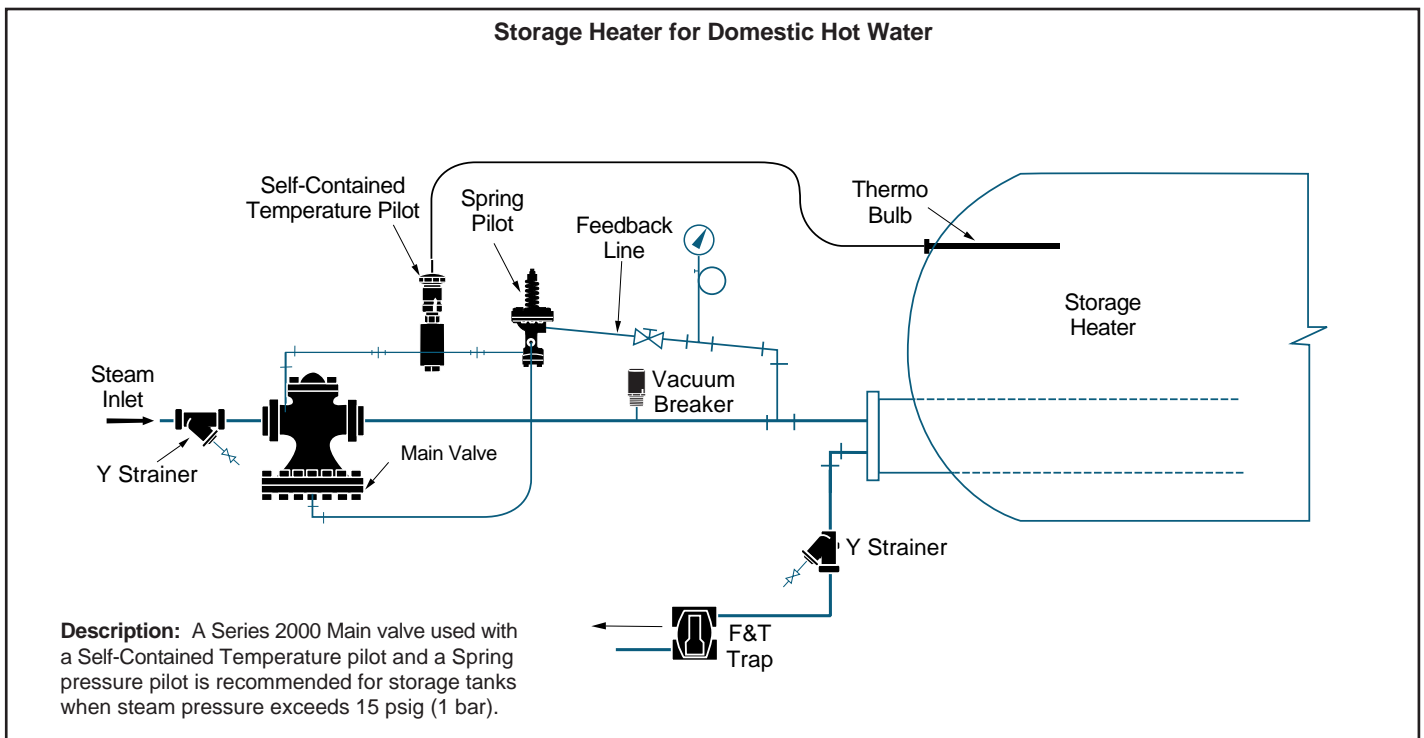
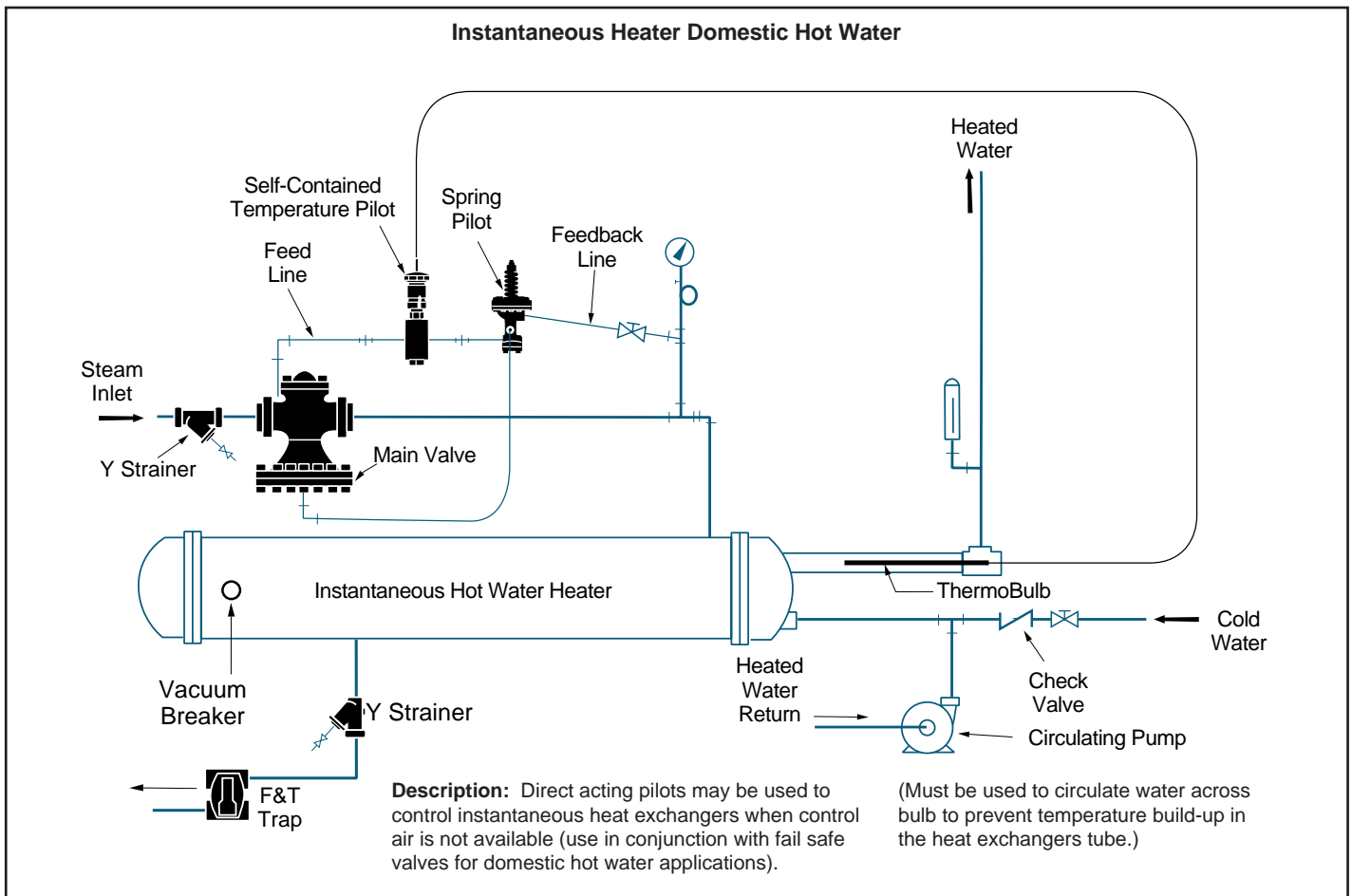
Description: A Series 2000 Main valve with a Self-Contained Temperature pilot and a Spring pressure pilot are used to control the temperature in a oil storage tank.

Pressure and Temperature Control for Unit Heaters



Description: Unit heaters will radiate approximately 7% of their capacity when the fan is off, use of a solenoid pilot controlled by a room thermostat eliminates energy waste when heat is not required.

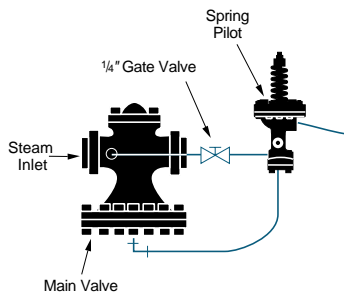
Series 2000 Typical Applications (continued)



Series 2000 Typical Applications (continued)

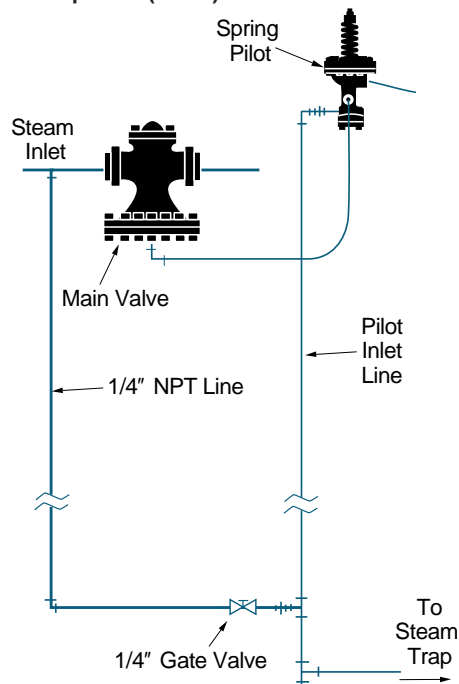
Manual System Shut-off

For Operation at Regulator

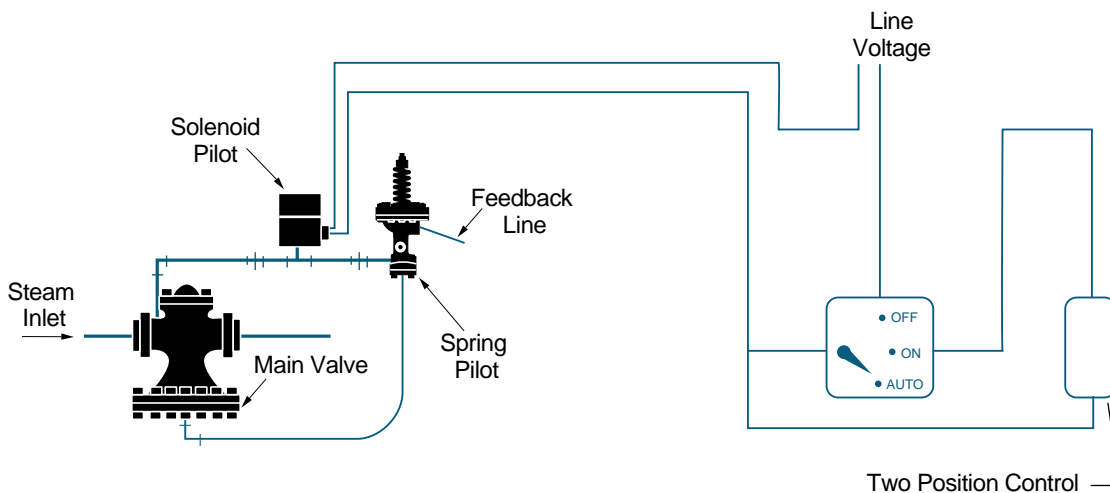


Description: A 1/4" NPT Gate valve may be added in the feed line to allow manual shutdown of the Main valve.

For Remote Operation
up to 50' (15.2m) with 1/2" NPT

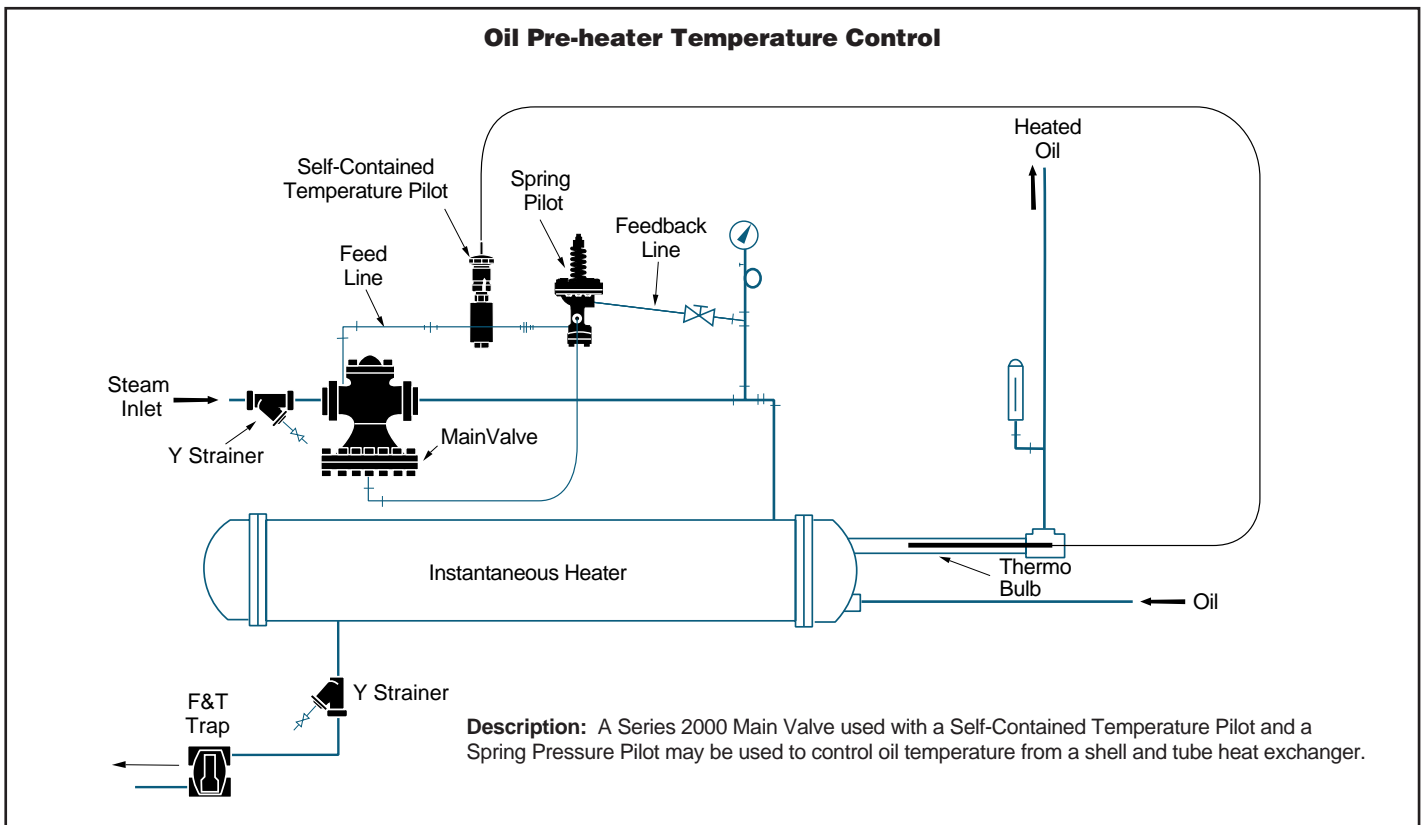
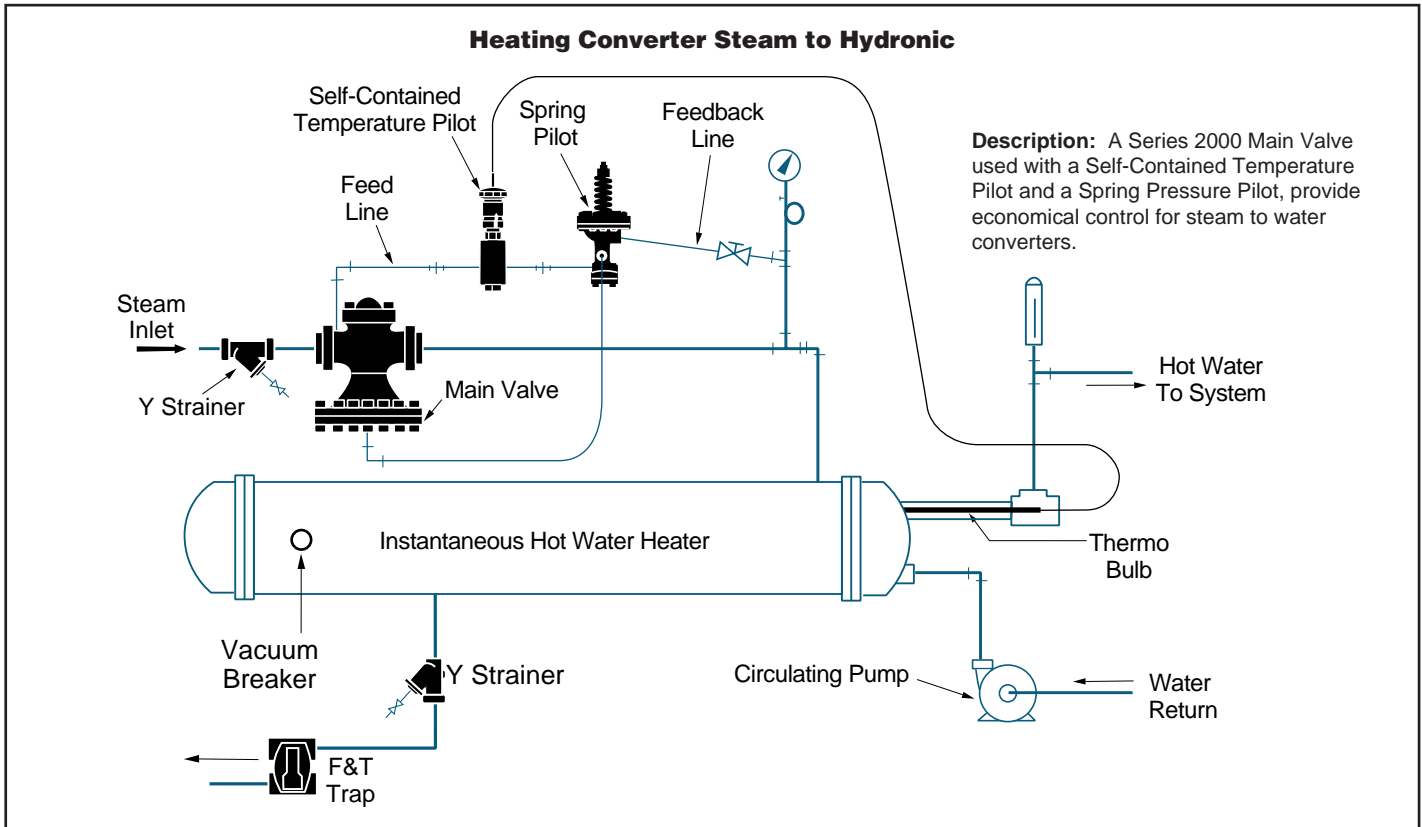


Remote Electrical Shut-off



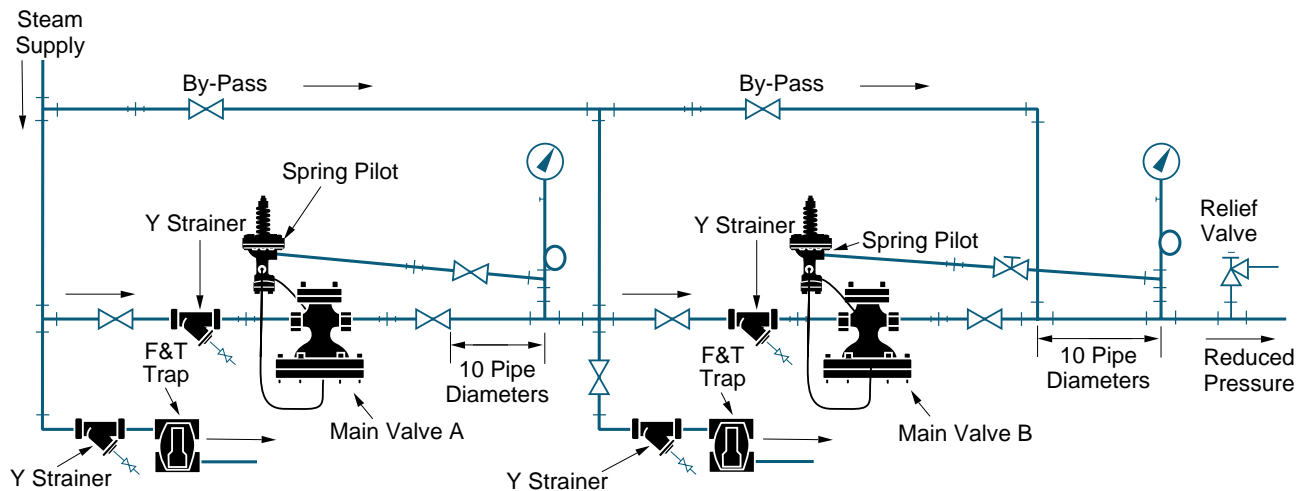
Description: A Solenoid pilot is used to electronically shutdown the flow of steam to the pilot, which will close the Main valve.

Series 2000 Typical Applications (continued)



Series 2000 Typical Applications (continued)

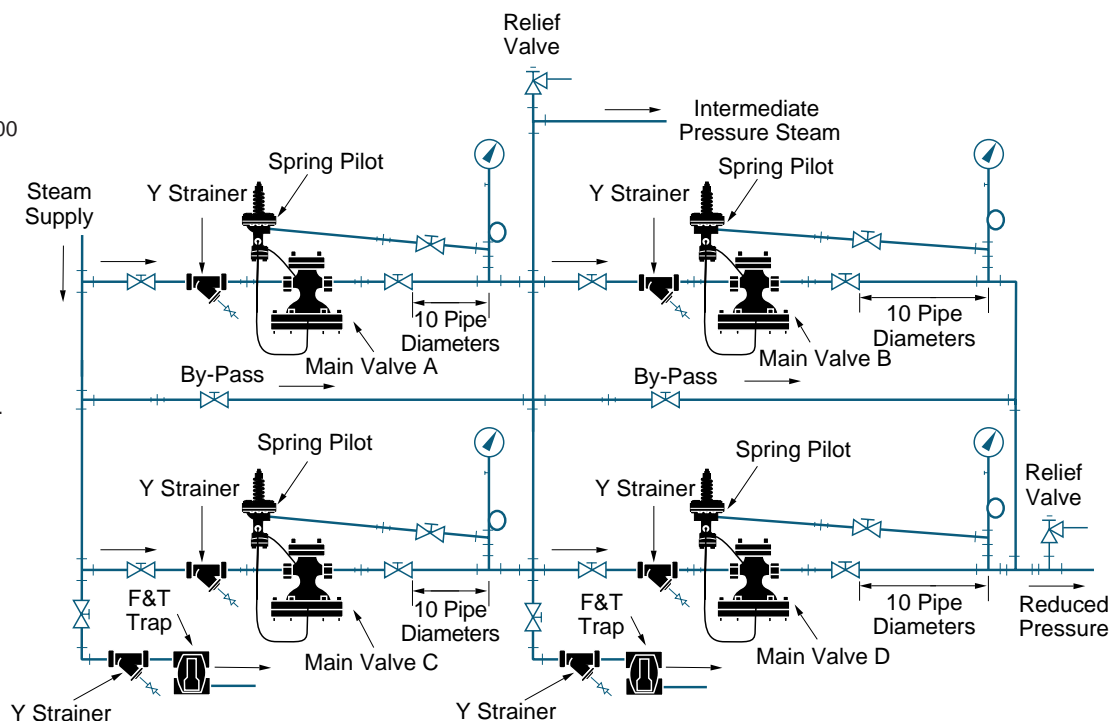
Typical Two Stage Pressure Regulating Station with By-Pass



Description: The maximum pressure reduction for one valve is 150 psig (10.3 bar) although 100 psig (6.9 bar) is recommended. Two stage reduction should be used for pressure drops greater than 100 psig (6.9 bar).

Typical Two Stage Parallel Pressure Reduction with Intermediate Pressure Available

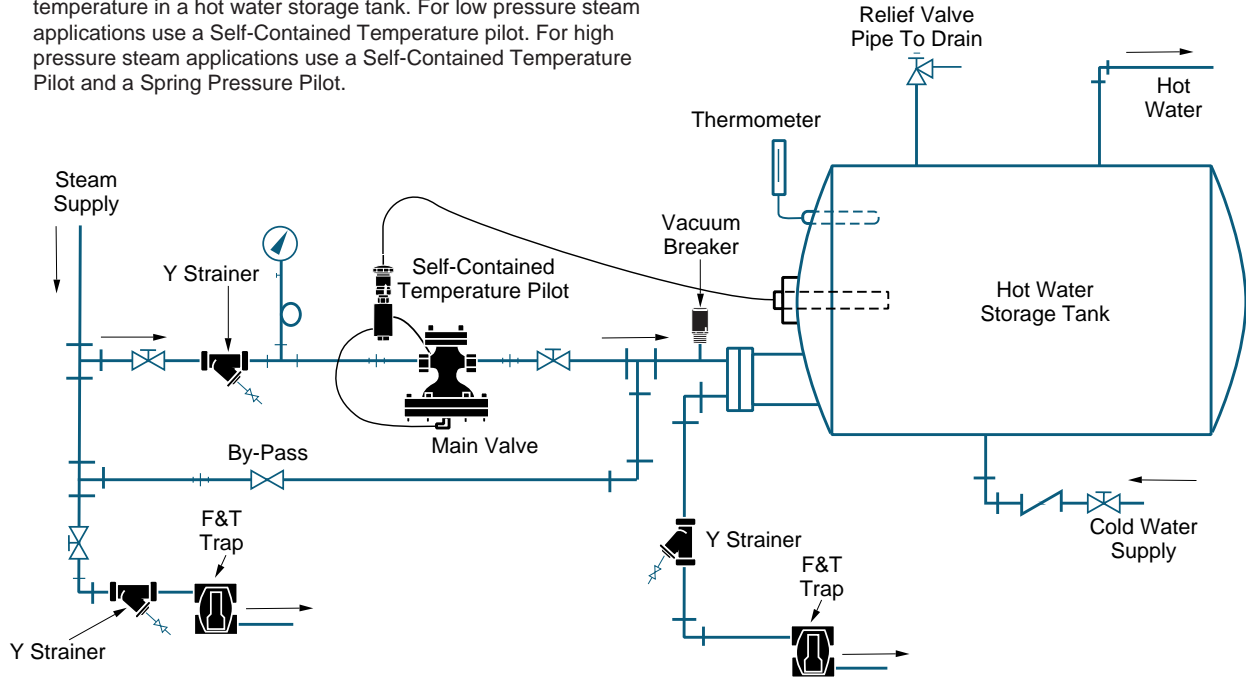
Description: Used when the load varies and the maximum pressure reduction is greater than 150 psig (10.3 bar) and 100 psig (6.9 bar) is the maximum recommended pressure reduction. Main valve A is sized for $\frac{1}{2}$ the load $\frac{1}{2}$ of the pressure reduction. Main valve B is sized for $\frac{1}{3}$ the load and the other $\frac{1}{2}$ of the pressure reduction. Main valves C and D are sized for the remaining $\frac{2}{3}$ load.



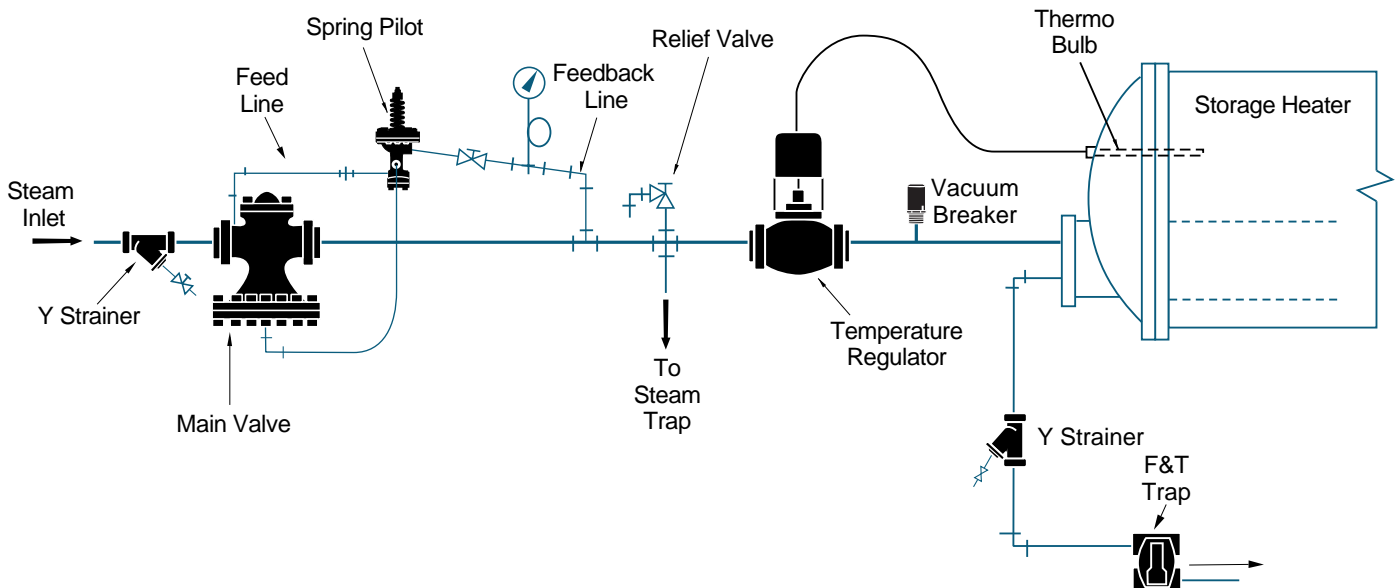
Series 2000 Typical Applications (continued)

Control of Temperature for Storage Tanks

Description: A Series 2000 Main Valve may be used to control temperature in a hot water storage tank. For low pressure steam applications use a Self-Contained Temperature pilot. For high pressure steam applications use a Self-Contained Temperature Pilot and a Spring Pressure Pilot.



Control of Temperature for Storage Tanks



Description: A Series 2000 Main Valve and a Spring Pressure Pilot may be used to reduce steam pressure to a Direct-Acting Temperature Regulator.