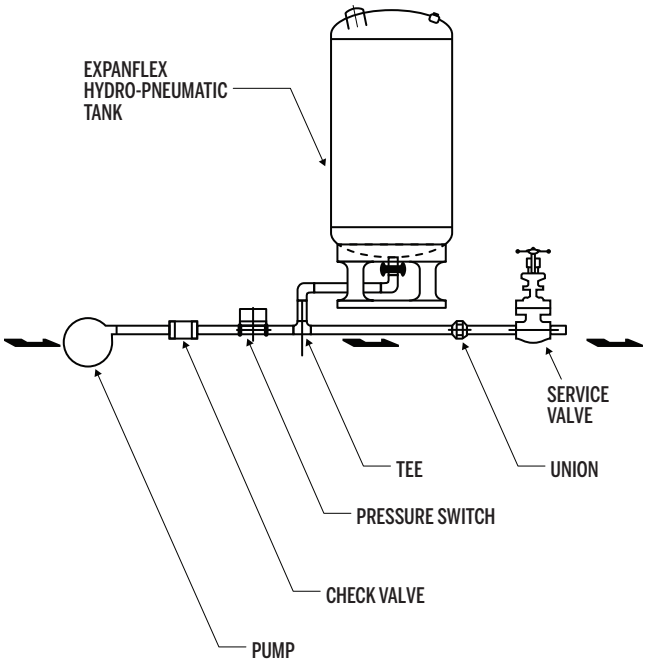
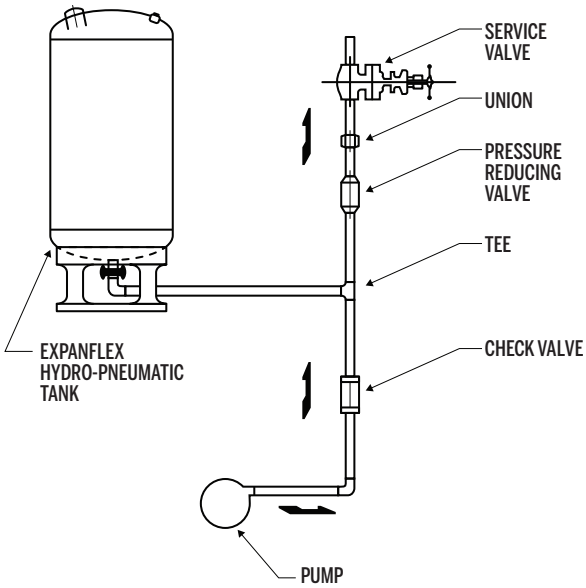
INSTALLATION

WELL WATER PUMP SYSTEM



BOOSTER PUMP SYSTEM



Indicates fluid flow

In a well water system, the hydropneumatic tank is installed at the discharge of the pump. In this position, the system will be subjected to the minimum and maximum pressures established by the pump controls. In a typical booster system, the hydro-pneumatic tank is installed between the pump discharge and a pressure reducing valve. In this position, the tank can store the water supplied by the pump between the system pressure and the pump shut off pressure. This water is then returned to the system when the pump is off.

If the hydro-pneumatic tank is installed after the pressure reducing valve, the tank will be of no value to the system unless, when the booster pump shuts off, it is not allowed to return to service until the system pressure is lower than the pressure reducing valve setting. If this is done, the tank can provide water to the system so leaks in faucets, pump seals, etc.: will not cause the pump to cycle.

In variable speed booster pump systems, a hydro-pneumatic tank in the pump discharge line would be used to provide water to the system during periods of no flow shutdown to prevent pump cycling caused by system leaks.