

Specifications

SUGGESTED SPECIFICATION

Furnish and install, as shown on plans, a Federal Pump Corporation Duplex Type SKS factory-assembled and factory-wired hydro-pneumatic water pressure system to provide steady water pressure boosting for the building. Pumps shall be rated as shown in the pump schedule.

The system shall include close-coupled pumps, copper suction and discharge headers, a discharge pressure gauge, a bronze isolation valve on the suction and discharge connection of each pump, a check valve in the discharge line of each pump, a hydro-pneumatic tank, a pressure switch for each pump and a control panel.

The SKS pumps shall be close-coupled, bronze-fitted, end suction, centrifugal type, of the back pull-out design, with centerline discharge and leakless mechanical shaft seal. Each pump shall be driven by a standard JM-shaft-close-coupled pump motor of the horsepower shown in the pump schedule.

The SKS hydro-pneumatic tank shall have a 132 gallon nominal capacity and be rated for 150 psi maximum working pressure. The tank shall have a sealed inert flexible water chamber to separate the water and air and eliminate periodic tank recharging.

The SKS control panel shall include a fusible disconnect switch, a magnetic starter and an HOA selector switch for each pump, plus an automatic alternator and shall be mounted and wired on the unit.

Furnish and install a stainless steel braided hose connection for the ends of the suction and discharge headers, of the size shown in the pump schedule.

The Duplex SKS System shall operate as follows: The lead pump operates continuously to satisfy the water demand. When the demand decreases, the discharge header pressure increases and the lead pump pressure switch shuts down the lead pump. The tank then continues to satisfy the small water demand until the tank pressure drops to a pre-determined low point. The lead pump pressure switch then turns on the lead pump to re-fill the tank and satisfy the building demand. If the lead pump is unable to satisfy the demand alone, the pressure in the discharge header will drop to a second low level and the lag pump pressure switch will turn on the lag pump to operate simultaneously with the lead pump. The automatic alternator will interchange the lead pump and lag pump on each operating cycle.

PUMP SCHEDULE:

No. of Pumps:	2	System No.:	SKS-			
G.P.M. per Pump:		TDH:		ft.		
Motor H.P.:		R.P.M.:	3450	, Phase:	3	Cycles: 60 Volts:
Flexible hose size:		ins. x		ins.		
Project:						

