



DUPLEX PUMP

Open skidded design with containment, pad mountable, indoor, duplex pump set under control of Master Control Panel. Starters included with pump set or integrated with master panel.

1. Duplex Positive displacement gear pumps, cast iron body, mechanical shaft seal, machined steel gears construction, typical 45 gpm at 150 psi, 1800 RPM, 7.5 HP, 230/460-3-60v, TEFC direct drive. Flanged inlet/outlet.
2. Pressure relief valve, integral to each pump
3. Duplex type strainer, 3-inch, cast-iron construction
4. Vacuum gauge inlet and outlet of strainer, with isolation valves
5. Differential pressure switch across strainer with alarm contacts to PLC
6. Leak detector in skid containment basin, with alarm contacts to PLC
7. Flow switch, each pump, with alarm contacts to PLC
8. Fusible link valve on inlet, ferrous construction
9. Ball type shutoff valves, each pump in/out, 2-inch and main in/out: 3-inch
10. Check valves each pump, cast iron or steel, swing-type, 2-inch

11. Main outlet pressure gauge with shutoff
12. 3-inch flanged main inlet and outlet
13. All-welded or flanged construction of piping and devices. All ferrous fittings and devices. Schedule 80. 200psi or greater rated.
14. Controller: Intended for slaved operation from Master Control Panel. Includes PLC and MODBUS interface for transmission of pump-run signals from remote controller and transmission of alarm indication and pump running indications to remote controller.
15. Dual power inlet, 460-3-60v, with power transfer relay and power available/connected/fail indicators to MODBUS network.
16. Pump starters for each pump. NEMA1 enclosed, unit mounted, hinge-open front door, full-voltage, 3-phase circuit breaker combination motor starter, with control power transformer, HOA switch, run indicator, power available indicator

DAY TANK

Day Tank consisting of the following principle elements:

1. Double-wall UL142 tank of required capacity
2. Day tank controller including redundant level sensors
3. Fill control valves

SIMPLEX DOUBLE-WALL TANK

1. UL142 secondary containment tank, double wall construction.
2. Capacity as required, typically 200-600 gallons
3. Pipe fittings, top mounted, including primary and secondary emergency vents
4. Leak sensor
5. Dual redundant inlet valves, motorized, self-closing, including limit switches. Motorized drain/commissioning valve