

FIRE SPRINKLER PUMP MOUNTED INSIDE A STORAGE TANK WITH PUMP HOUSE ABOVE

COMPONENTS:

1. Pressure gauge
2. Flexible coupler
3. Sight glass
4. Pressure relief valve
5. Check valve
6. Gate valve, typical in multiple places
7. Hose line connection
8. To sprinkler system
9. Pump mounting sole plate by installer
10. Roof hatches for removal of pumps
11. Winter heat/summer ventilation
12. Fire pump controls
13. Submersible deep well style jockey pump
14. Tank water level monitor with refill control relay
15. Suction sump for vertical turbine pump
16. Recirculation line
17. Refill line
18. Isolate all piping and pump chase from concrete floor
19. Tank vent outside pump house
20. Specified gravel backfill from bed to pump house floor

IMPORTANT

At least two pump impeller stages must be located below the tank floor in the suction sump (15)

NOTE:

This layout is conceptual but typical of such systems. All fire protection sprinkler designs must be engineered for each specific building application and approved by the Local Authority having jurisdiction.

**ABBREVIATED PLUMBING FOR FITTING CLARITY
NOT TO SCALE, FOR ILLUSTRATION ONLY**

