

# Pump Station and Ground Storage Tank Standard Products List

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## Part 1 – Introduction and Purpose

This standard products list specifies acceptable manufacturer products for use in the construction of water potable water pump stations with a 300-gpm to 2,000-gpm firm pumping capacity for Canyon Lake Water Service Company (CLWSC). Coordinate with CLWSC directly for acceptable manufacturer products for pump stations with a firm pumping capacity higher than 2,000 gpm. CLWSC may at its discretion update, change, or approve equals.

## Part 2 – Building Components

This section is intended to describe standard products and manufacturers for items within the pump station building.

- A. Air Conditioning for larger pump rooms
  - a. Exterior wall-mounted air conditioner by Bard manufacturing.
    - i. Unit should have dual lead-lag control
    - ii. Unit should include low ambient control, filter pressure switch and alarm relays.
    - iii. MC4002-B thermostat manufactured by Bard Manufacturing shall be used in conjunction with Bard Manufacturing.
- B. Air conditioning for smaller pump rooms
  - a. Through-the-wall units
    - i. Freidrich; or
    - ii. Frigidaire.
  - b. Mini-split systems may be used with approval from TWC
    - i. Mitsubishi.
- C. Eyewash Station/Safety Shower
  - a. HAWS Model 8317CTFP with thermostatic mixing valve and emergency alarm system

## Part 3 – Ground Storage Tank

This section is intended to describe standard products and manufacturers for ground storage tanks and accessories. Ground storage tank materials that come into contact with water shall be of domestic manufacture.

- A. Fall Protection System
  - a. Climbing Rail
    - i. French Creek Part #1-1105-SS
  - b. Trolleys
    - i. French Creek Part #2-1224A-AT (Qty 2)
  - c. Harnesses

- i. French Creek Part #850B-TS (Qty 2, Size Large)
  - d. Dual-Leg Shock Absorbing Lanyards
    - i. French Creek Part #444ASZ (Qty 2)
  - e. Single-Leg Shock Absorbing Lanyards
    - i. French Creek Part #450A (Qty 2)
- B. Tank Mixer
  - a. GridBee models as manufactured by IXOM.
- C. Tank Overflow Flap Valve
  - a. Waterman PF-25.; or
  - b. Clow Valve Company Flap Valve.
- D. Tank Manufacturers
  - a. Welded steel tanks manufacturer
    - i. Tank Builders, Inc.; or
    - ii. Bulldog Steel Products, Inc.
  - b. Fiberglass tanks manufacturer
    - i. L.F. Manufacturing, Inc.
- E. Concrete Tank Color:
  - a. Pearl as manufactured by Tammscoat, or TWC approved equal
- F. Steel Tank Color:
  - a. Tanks < 100,000 gallons: Carboline 0217
  - b. Tanks > 100,000 gallons: Tnemec Desert Sands

## Part 4 – Hydro-pneumatic Tank

This section is intended to describe standard products and manufacturers for hydro-pneumatic tanks and accessories. Hydro-pneumatic tank materials that come into contact with water shall be of domestic manufacture.

- A. Package Tank, Compressor, Valves Supplier
  - a. Hydro-Air Systems
- B. Tank Manufacturers
  - a. Bulldog Steel Products, Inc.; or
  - b. Tank and Vessel Builders, L.P.
  - c. Air CompressorQuincy; or
  - d. Ingersoll Rand.
- C. Vacuum Relief & Pressure Relief Valves:
  - a. Kunkle
  - b. Apollo 500 Series (Pressure Relief Valve)
  - c. Crispin VR 20 (Vacuum Relief Valve)

## Part 5 – Pump, Motors, Piping, and Appurtenances

This section is intended to describe standard products and manufacturers for pumps, motors, piping, and appurtenances. All piping that comes into contact with water shall be of domestic manufacture.

- A. Vertical Turbine Pump Manufacturers
  - a. Flowserve Corporation;
  - b. Goulds Water Technology;
  - c. Berkeley; or
  - d. Simflo.
- B. Horizontal Split-case Pump Manufacturers
  - a. Patterson; or
  - b. Fairbanks.
- C. Submersible Motor Manufacturers
  - a. SME; or
  - b. Franklin.
- D. Vertical Turbine Motor Manufacturers
  - a. US Motors
- E. Mechanical Seal Manufacturers
  - a. Chesterton; or
  - b. Crane-Deming.
- F. Ductile Iron Pipe
  - a. Tyler Union;
  - b. American; or
  - c. US Pipe.
- G. Check Valves
  - a. Valmatic Surgebuster model.
- H. Air Release Valves
  - a. A.R.I. D-050 with a screened 90-degree bend down.
- I. Dismantling Joints
  - a. Smith-Blair 973.
- J. Pressure Gauge
  - a. Ashcroft liquid-filled or approved equal.
- K. Flange Coupling Adapters
  - a. Smith-Blair 911.
- L. Flanged Pipe Supports
  - a. Standon model #89.

- M. Globe Style Control Valves for Pressure Reducing or Tank Control
  - a. Singer Valves in accordance with TWC standard specification.
- N. Vault Hatches
  - a. Halliday Products, Inc. Model H2W060060KBDXK – 8" OA HGT.

## Part 6 – Water Well

This section is intended to describe standard products, manufacturers, and approved contractors for water wells with 50 – 300 gpm pumping capacity. Coordinate with CLWSC directly for standard products, manufacturers, and approved contractors for water wells with a pumping capacity exceeding 300 gpm.

- A. Submersible Well Pump
  - a. Goulds; or
  - b. Grundfos.
- B. Approved Contractors
  - a. Advanced Water Well;
  - b. Weisinger Incorporated; or
  - c. Peerless Pumps.

## Part 7 – Water Disinfection

This section is intended to describe standard products, manufacturers, and approved systems for water disinfection including chlorine boosting and chlorine monitoring.

- A. Chlorine Analyzer
  - a. Hach CL10 reagentless.
- B. On-site Generation Disinfection System manufacturer
  - a. Clean Water One
- C. Peristaltic Pumps
  - a. For applications up to 10 GPD and up to 100psi: Stenner 45MHP10 model
  - b. For applications up to 22 GPD and up to 100 psi: Stenner 45MHP22 model

## Part 8 – Electrical Components

This section is intended to describe standard products and manufacturers for the electrical components listed below.

- A. Magnetic Flow Meters
  - a. McCrometer UltraMag model.