

Pump Station and Ground Storage Tank Standard Products List

Table of Contents

PART 1 – INTRODUCTION AND PURPOSE	2
PART 2 – BUILDING COMPONENTS	2
A. DOOR HARDWARE AND REMOVABLE CORE CYLINDERS	2
B. AIR CONDITIONING FOR LARGER PUMP ROOMS	2
C. AIR CONDITIONING FOR SMALLER PUMP ROOMS	2
PART 3 – GROUND STORAGE TANK	2
D. INTERIOR AND EXTERIOR FALL PROTECTION SYSTEM	2
E. TANK MIXER	2
F. TANK OVERFLOW FLAP VALVE	2
G. TANK MANUFACTURERS.....	3
PART 3 – HYDRO-PNEUMATIC TANK	3
A. TANK MANUFACTURERS.....	3
B. AIR COMPRESSORS	3
PART 4 – PUMP, MOTORS, PIPING, AND APPURTENANCES	3
A. VERTICAL TURBINE PUMP MANUFACTURERS	3
B. HORIZONTAL SPLIT-CASE PUMP MANUFACTURERS.....	3
C. SUBMERSIBLE MOTOR MANUFACTURERS	3
D. MECHANICAL SEAL MANUFACTURERS.....	3
E. CHECK VALVES.....	3
F. AIR RELEASE VALVES	4
G. DISMANTLING JOINTS	4
H. FLANGE COUPLING ADAPTERS	4
I. FLANGED PIPE SUPPORTS	4
J. GLOBE STYLE CONTROL VALVES FOR PRESSURE REDUCING OR TANK CONTROL	4
K. VAULT HATCHES INCLUDING SAFETY GRATE FOR FALL PROTECTION, HOLD OPEN ARM, AND COMPRESSION SPRING ASSIST	4
PART 5 – WATER WELL	4
A. SUBMERSIBLE WELL PUMP	4
B. APPROVED CONTRACTORS	4
PART 6 – WATER DISINFECTION	4
A. CHLORINE ANALYZER	4
B. ON-SITE GENERATION DISINFECTION SYSTEM MANUFACTURER	5
C. PERISTALTIC PUMPS	5
PART 7 – ELECTRICAL COMPONENTS	5
A. MAGNETIC FLOW METERS.....	5

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. Door hardware and removable core cylinders
 - a. CLIQ door hardware with removable core cylinder as manufactured by Medeco.
- B. Air Conditioning for larger pump rooms
 - b. 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.
- C. 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 CLWSC
 - i. Mitsubishi.

Part 3 – Ground Storage Tank

This section is intended to describe standard products and manufacturers for ground storage tanks and accessories.

- D. Interior and Exterior Fall Protection System
 - a. Antenna Products Alum #0001-9677-404.
- E. Tank Mixer
 - a. GridBee models as manufactured by IXOM.
- F. Tank Overflow Flap Valve
 - a. Waterman PF-25.; or
 - b. Clow Valve Company Flap Valve.

- G. 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.

Part 3 – Hydro-pneumatic Tank

This section is intended to describe standard products and manufacturers for hydro-pneumatic tanks and accessories.

- A. Tank Manufacturers
 - a. Bulldog Steel Products, Inc.; or
 - b. Tank and Vessel Builders, L.P.
- B. Air Compressors
 - a. Quincy; or
 - b. Ingersoll Rand.

Part 4 – Pump, Motors, Piping, and Appurtenances

This section is intended to describe standard products and manufacturers for pumps, motors, piping, and appurtenances.

- 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. Mechanical Seal Manufacturers
 - a. Chesterton; or
 - b. Crane-Deming.
- E. Check Valves
 - a. Valmatic Surgebuster model.

- F. Air Release Valves
 - a. A.R.I. D-050 with a screened 90-degree bend down.
- G. Dismantling Joints
 - a. Smith-Blair 973.
- H. Flange Coupling Adapters
 - a. Smith-Blair 911.
- I. Flanged Pipe Supports
 - a. Standon model #89;
- J. Globe Style Control Valves for Pressure Reducing or Tank Control
 - a. Singer Valves in accordance with CLWSC standard specification.
- K. Vault Hatches including safety grate for fall protection, hold open arm, and compression spring assist
 - a. Halliday Products, Inc. Model H2R7248 Double Leaf;
 - b. U.S.F. Fabrication Model AHD 48"x72" Dwg. 88955;
 - c. K&B Steel Part No. DHA4872AL Double Leaf; or
 - d. EJ Catalog No. H48721391 Double.

Part 5 – 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 6 – 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. MIOX.

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 7 – Electrical Components

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

A. Magnetic Flow Meters

- i. McCrometer UltraMag04 model.