

GENERAL:

1. The scope of this document is to provide instruction for the installation and testing of manual valves installed on the exterior underground steam and condensate system.

DESIGN GUIDELINES:

Materials

1. Valves General
 - 1.1. Valve manufacturer is listed for purposes of clarification. Equivalent valves produced by an approved manufacturer may be used.
 - 1.2. Valves shall be as listed below.

2. Steam or Condensate Valves

- 2.1. Gate Valves - Threaded:

<u>SIZE</u>	<u>PRESSURE PSIG</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER'S NUMBER</u>
2" and under	800	Screwed Forged Steel OS&Y	Hancock 950 S Vogt 12111
2" and under	800	Socket Weld Forged Steel OS&Y	Hancock 950 W Vogt SW 12111

- 2.2. Gate Valves - Flanged:

<u>SIZE</u>	<u>PRESSURE PSIG</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER'S NUMBER</u>
2-1/2" and over	150 S	Flanged Cast Steel OS&Y Half Stellite	Crane No. 47XUF Stockham 15-OF-U Kitz K150 SCL

2.3 Globe Valves - Threaded:

<u>SIZE</u>	<u>PRESSURE PSIG</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER'S NUMBER</u>
2" and under	800	Screwed Forged Steel OS&Y	Hancock 5500S Vogt 12141
2" and under	800	Socket Weld Forged Steel OS&Y	Hancock 5500W Vogt SW 12141

2.4 Check Valves - Threaded:

<u>SIZE</u>	<u>PRESSURE PSIG</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER'S NUMBER</u>
2" and under	Class 300	Screwed Stainless steel Swing check	Powell

2.5 Butterfly Valves:

<u>SIZE</u>	<u>PRESSURE PSIG</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER'S NUMBER</u>
16" and under	150 S	Class 150 lug type ISO face to face Carbon steel body Stainless steel disk Laminated graphite and stainless steel valve seal Manual gear operator with handwheel and open/close	Adams MAK Bray Trilok Velan Torqseal Zwick Tri-Con

3. Sump Pump Valves
3.1. Ball Valves - Threaded:

<u>SIZE</u>	<u>PRESSURE PSIG</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER'S NUMBER</u>
2" and under	150 SWP 600 CWP	Screwed Lead Free Bronze Body Full Port 2 Piece Stainless steel Trim and handle MTFE Seats and Seals	Apollo 77CLF 140-10

Installation

1. Install valves with stems horizontal or extending vertically upward. All valves shall be installed in accessible locations for operation as well as for removal, repair or replacement.

Testing

1. Valve shall be tested for proper operation after installation.

Commissioning

REFERENCES
