

SECTION 220523 – GENERAL-DUTY VALVES FOR PLUMBING PIPING

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Butterfly Valves.
- B. Check Valves.
- C. Gate valves.

1.2 SUBMITTALS

- A. Submit copies of valve ordering schedule for approval before ordering valves.
- B. Submit detailed shop drawings under provisions of Section 013300. Clearly indicate make, model, location, type, size and pressure rating.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Provide valves of same manufacturer throughout where possible, Jenkins, Milwaukee, Stockham, Nibco or Apollo.
- B. Provide valves with manufacturer's name and pressure rating clearly and permanently marked on outside of body at the factory.

2.2 VALVE CONNECTIONS

- A. Provide valves suitable to connect to adjoining piping as specified for pipe joints. Use pipe size valves.
- B. Thread pipe sizes 2 inches and smaller.
- C. Flange pipe sizes 2-1/2 inches and larger.

2.3 BUTTERFLY VALVE (POOL DRAIN)

- A. Butterfly valves shall feature a powder coat finish cast ductile iron body PTFE disc and seat. The PTFE seat shall be neoprene backed for chemical resistance and flexibility over a wide range of temperatures. Valves shall feature a 304 stainless steel stem with full engagement thru the valve body and disc. Provide valve with 2" square operating nut to allow remote operation using extended T-bar wrench. Provide Asahi/America Inc. Type-55 valve or approved equal.

2.4 CHECK VALVES

- A. Bronze, y-pattern, horizontal swing disc, TFE or bronze seat disc, solder or screwed ends, 150 lb. steam, 300 psi W.O.G., Nibco Fig T-433-Y.

2.5 GATE VALVES

- A. Bronze, 150 lb. S.W.P., 300 lb. W.O.G., rising stem, inside screw, solid wedge or disc, union bonnet, screwed ends, Nibco Fig. T-134.

2.6 PRESSURE RATINGS

- A. Unless otherwise indicated, use valves suitable for 125 minimum psig WSP and 450 degrees F.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Provide valves at all branch connections to mains and at each piece of equipment to allow for isolation and service.
- B. Install valves with stems upright or horizontal, not inverted.
- C. Provide butterfly valves on eagle/owl enclosure pool drain.
- D. Provide gate valves for shut-off on discharge of pump.
- E. Provide spring-loaded check valves on discharge of pump.

END OF SECTION 220523