

ROGERS WATER UTILITIES SEWER SYSTEM
ROGERS, ARKANSAS

**SPECIFICATIONS FOR
PLUG VALVES
DECEMBER 2004**

1. **SCOPE**

This product specification covers eccentric plug valves, 4 in., 6 in., 8 in., 10 in. and 12 in. for use on sewer force mains and lift station discharge piping.

2. **GENERAL REQUIREMENT**

- a. Plug valves' design, component material construction, manufacture and testing shall be in accordance with AWWA C504 or the latest revision thereof.
- b. Plug valve body shall be of cast iron conforming to ASTM A126, Class B, for working pressures up to 175 psi. The words "Seat End" shall be cast on the exterior of the body seat end.
- c. The exterior of the plug valve shall be coated with a universal alkyd primer.
- d. Plug shall be of one-piece construction and made of ASTM A124, grade B cast iron with a resilient facing per ASTM D2000-BG and AWWA C504 requirements.
- e. Shaft seals shall conform to AWWA C504 and consist of V-type packing in a fixed gland with an adjustable follower.
- f. Radial bearings shall be constructed of self-lubricating type 316 stainless steel. The top thrust bearing shall be Teflon. The bottom thrust bearing shall be type 316 stainless steel. Cover bolts shall be corrosion resistant with zinc plating.
- g. All plug valves shall be provided with a fully enclosed, permanently lubricated actuator of the worm gear design. The actuator shall be connected to the valve shaft by means of a key and keyway connection.
- h. All gear actuators for plug valves shall be operated by a standard 2" AWWA operating nut. All actuators shall be side mounted with a counter clockwise rotation of the operating nut.

PLUG VALVE

03-06 SPECIFICATIONS

- i. A position indicator shall be provided on all gear actuators for non-buried installations.
- j. Flanged ends (non-buried installation): Flanged fittings have 150 lb. flanges and shall be faced and drilled in accordance with ANSI Specification B16.1, Class 125.
- k. Mechanical Joint Ends (buried installation): Mechanical joint bell dimensions shall conform to ANSI A21.11/AWWA C111.

3. **QUALITY ASSURANCE**

- a. The Rogers Water Utilities may, at no cost to the manufacturer, subject random plug valves to testing by an independent laboratory for compliance with these standards. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting.
- b. All plug valves shall be domestically manufactured.

The following manufactures are approved for plug valves.

APPROVED MANUFACTURERS LIST

Val-Matic Mfg. Company