

02-09

**ROGERS WATER UTILITIES WATER SYSTEM  
ROGERS, ARKANSAS**

**SPECIFICATIONS FOR VALVE BOXES  
AND VALVE STEM EXTENSIONS  
REVISED DECEMBER 2004**

1. **SCOPE**

This product specification covers valve boxes and valve stem extensions for gate and butterfly valves.

2. **GENERAL REQUIREMENTS FOR VALVE BOXES**

- a. Valve boxes shall be cast iron with iron lid suitable for heavy traffic and conform to ASTM A48, Class 20 Specifications.
- b. Valve boxes shall be screw type and have 5¼ inch inside shaft diameter.
- c. Cast iron drop lids shall have the word "Water" cast into the lid.
- d. Valve boxes shall be provided with a petroleum asphaltic coating in accordance with the latest revision of AWWA/ANSI C151/A21.51.
- e. At bury depths greater than 80 inch (6'-8"), the use of six inch PVC, SDR 26 sewer pipe as an extension is allowed between the base and the bottom piece of a two piece valve box assembly.

3. **GENERAL REQUIREMENTS FOR VALVE STEM EXTENSIONS**

- a. Where the depth of the valve is such that the centerline is more than 4 feet below grade, provide operating extension stems to bring the operating nut to a point within 18 inches to 12 inches below the surface of the ground and/or box lid. Extension stems shall be steel and shall be complete with 2 inch square operating nut.
- b. A round center guide made from 3/16 inch or ¼ inch steel plate shall be placed on the valve stem extension approximately 6 inches from the upper end. The diameter of the guide shall be slightly less than the inside diameter of the valve box. The guide shall be affixed to the stem extension in such away that it can rotate freely on the stem.

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- c. Valve stem extensions shall be of a solid design (no pinned couplings allowed) with guides.
- d. Valve stem extensions shall be provided with a petroleum asphaltic coating in accordance with the latest revision of AWWA/ANSI C151/A21.51.

**4. QUALITY ASSURANCE**

- a. The Rogers Water Utilities may, at no cost to the manufacturer, subject random valve boxes or valve stem extensions 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 valve boxes and valve stem extensions shall be domestically manufactured.

The following manufactures are approved for valve boxes and valve stem extensions.

**APPROVED VALVE BOX MANUFACTURERS LIST**

<u>Manufacturer</u>	<u>Model Number</u>	<u>Depth of Bury</u>
Tyler Pipe Company	6850 series, two piece #160 base	27" to 39"
East Jordan Iron Works, Inc.	8850 series, two piece #160 base	27" to 39"
Tyler Pipe Company	6860 series, three piece #160 base	44" to 80"
East Jordan Iron Works, Inc.	8860 series, three piece #160 base	44" to 80"

**APPROVED VALVE STEM EXTENSION MANUFACTURERS LIST**

R & B Pipe Manufacture, Inc.

Trumbell Manufacturing

**Previous Specifications**

April 16,1997