Inserta Valve™ Insertion Valve 10" and 12"

Features:

- No loss of pressure
- Minimal water loss
- Completion time is about 2 hours
- Much faster than traditional line stopping and cut-ins.

Specifications for the InsertaValve™ Sleeve:

- **Intended Use:** Provides attachment to pipe for drilling and final assembly of the InsertaValve™ Water Control Valve. May be used on cast iron, ductile iron, asbestos cement and C900 PVC pipe.
- **General:** The fabricated sleeve will assure a 360 degree seal around the pipe under working pressures up to 150 psi. It will accommodate the equipment and fixtures necessary to drill the pipe and install the InsertaValve™ valve assembly without any interruption in water service.
- **Materials:** Made of ASTM A-36 steel, epoxy coated to 10-12 mils.
- **Flange:** A special flange will mate with the InsertaValve™ installation equipment and valve assembly.
- **Neck:** The precision manufacturing tolerances of the neck will assure proper alignment and support of the InsertaValve™ valve assembly. The neck will incorporate a slide gate body that will provide a connecting flange and sealing surface for the slide gate housing. The slide gate body will also provide a sealing surface for the slide gate disk o-ring.
- **Bolts and Nuts:** High strength, low alloy, steel bolts and nuts meeting AWWA standard C-111. Type 304 stainless steel bolts with Xylan coated nuts to prevent galling are optional.
- **Lugs:** Sleeve sidebar lugs will properly align the sleeve halves during installation, provide a bolting surface and assure a 360 degree seal. The lugs will prevent excessive stress on the pipe, and minimize distortion of soft (PVC) pipe.
- **Mat Gaskets:** Made of Styrene Butadiene Rubber (SBR) compounded for potable water service in accordance with ASTM D2000 3 BA715. The gaskets provide a positive 360 degree seal on the pipe and assure a tight, durable, and resilient seal.
- **Coating:** The sleeve will be lined and coated with fusion bonded epoxy. Epoxy to meet the requirements of AWWA C-213.
- **Armors:** Heavy gauge type 304 stainless steel armor plates will bridge the gap between the sleeve halves.

Specifications for the InsertaValve™ Valve Assembly:

- **General:** Designed to be inserted into the InsertaValve™ Sleeve after the drilling procedure is performed, the Valve Assembly shall perform as a water control device giving an effective shutoff of the flow of water. The valve will be installed in the open position, under pressure and under flow conditions without any interruption of water service. The InsertaValve™ shall give a full flow waterway after installation.
- **Plug:** Constructed of urethane rubber, with a durometer of 65 Shore A. The plug shall seal on the inside diameter of the pipe and inside diameter of the drilled hole.
- **Valve Stem and Stem Nut:** Manufactured of high strength bronze suitable for valve stems and nuts.
- **Gearbox:** The gearbox will provide the force necessary to compress the plug to shut off the flow of water in the pipeline.
- **Gaskets:** Made of SBR rubber, compounded for potable water service in accordance with ASTM D-2000 3 BA715, with a durometer of 70 Shore A. The gasket shall act as the sealing interface between the valve flange and the sleeve flange.
- **Bolts and Nuts:** Grade 3 or better alloy steel, zinc plated for corrosion protection. Type 304 stainless steel bolts, nuts and washers are optional. Stainless steel nuts are Xylan coated to prevent galling.

NOTES:

- The InsertaValve™ requires a minimum depth of bury from the topside of the pipe of 40 inches. The physical height of the sleeve and valve assembly is 35 inches off the top of the pipe.
- The InsertaValve™ requires approximately 215 turns to completely open and close the valve.

QuikValves™ are sold "as installed" only. See Section P for service information.