

ITEM 604.5115 10 - FLEXIBLE CHECK VALVE - 750 mm DIAMETER

DESCRIPTION

Work under this item shall consist of furnishing and installing a flexible check valve on a pipe of the type, size, and at the locations shown on the plans. The nominal diameter indicated for the flexible check valve in this specification is the inside diameter (I.D.) of the pipe to receive the valve. The valve shall be sized to fit the outside diameter of the pipe.

MATERIALS

The flexible check valve shall be a Series TF-1 Tideflex Check Valve as manufactured by the Red Valve Company, Inc., 700 North Bell Avenue, Carnegie, PA 15106 (Telephone (412)-279-0044; FAX (412)-2797878), or approved equal.

CONSTRUCTION DETAILS

Prior to ordering the flexible check valve, field measurements shall be taken by the Contractor or the manufacturer's representative of the outside diameter of the existing or new pipe to receive the valve to assure a proper fit.

Valves shall be of the flow-operated check type with a slip-on connection. Inlet port areas shall be 100 percent of the mating pipe port size. The port area shall contour down to a duckbill which shall allow passage of flow in one direction while preventing reverse flow. The check valve shall close around debris with less than 6.9 kPa of backpressure. The check valve shall be designed to slip over the specified pipe outside diameter. The flexible duckbill sleeve shall be one-piece rubber construction with fabric reinforcement and a protective Neoprene exterior wrapping. Check valves shall be attached to the pipe outside diameter by two stainless steel straps as recommended by the manufacturer. Manufacturer must have a minimum of five years experience manufacturing check valves. Manufacturer must have available flow test data from an accredited hydraulics laboratory to confirm pressure drop data. Company name, plant location, valve size and serial number shall be bonded to the check valve.

All adjustments, repairs or replacement of damaged or defective valves shall be performed at no cost to the State.

METHOD OF MEASUREMENT

This work will be measured by the number of check valves of the appropriate size installed.

BASIS OF PAYMENT

The unit price bid for this item shall include the cost of all labor, materials and equipment necessary to complete the work.