

**TECHNICAL SPECIAL**

**PROVISION FOR**

**FLAP GATES (IN-LINE CHECK VALVES)**

**FINANCIAL PROJECT ID: 453730-1-52-01**

*The official record of this Technical Special Provision has been electronically signed and sealed using a Digital Signature as required by Rule 61G 15-23.004, F.A.C. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.*

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Pages:	<u>1-3</u>

**SECTION T430-880**  
**FLAP GATE (IN-LINE CHECK VALVE)**

**T430-880.1 Description.**

Furnish all labor, equipment, mounting hardware and materials, and perform all operations in connection with the installation of Flap Gate (In-Line Check Valve) in accordance with the requirements of this Technical Special Provision and contract documents. The Plans will indicate the location and size of the valve to be installed.

**T430-880.2 Responsibility.**

Install the valve based on the information provided in this Technical Special Provision, the Contract Documents, and the in-line check valve manufacturer's recommendations. Provide shop drawings depicting the details of the selected in-line check valve to the Engineer in accordance with Section 5 of the FDOT Specifications. The inside diameter of the pipe in which the in-line check valve is to be installed as well as any field verified measurements required by the manufacturer must be confirmed prior to the submittal of shop drawings.

**T430-880.3 Materials.**

In-line check valve shall be a flow operated valve constructed of vulcanized ply reinforced elastomer in a one-piece unit-body that is capable of being installed entirely inside a pipe via an internal expanding stainless-steel clamp. All bolts used with the expanding clamp shall be the bolts provided with the clamp or made of the same material as the clamp. The in-line check valve shall be manufactured with no mechanical parts or fasteners to secure the disk or bill to its surrounding housing. The in-line check valve must be able to withstand a backpressure of at least 5 psi.

**T430-880.4 Construction Methods.**

**T430-880.4.1 General:** The in-line check valve shall be transported either by hand or lifted with slings around the outside diameter at each end of the valve. Do not place objects inside or through the in-line check valve in order to lift or move it. The outside and inside diameters of the valve shall be inspected before installation to ensure there are no rough or damaged areas.

**T430-880.4.2 Placement:** The pipe in which the valve is to be inserted shall be clean and free of any obstructions. Install the valve as directed by the manufacturer and fully insert into the designated pipe, such that no part of it extends outside the pipe. Ensure that the centerline of the valve is parallel to the pipe centerline, and that it is not slanted at an angle. Install the stainless-steel expanding clamps and secure the valve in place as directed by the manufacturer.

**T430-880.4.3 Installation:** The in-line check valve shall be installed in accordance with manufacturer's installation instructions and testing requirements.

**T430-880.5 Method of Measurement.**

The Quantity to be paid for will be the number of flap gates (In-Line Check valves) furnished, installed and accepted, and will be paid PER EACH unit.

**T430-880.6 Basis of Payment.**

Price and payment will be full compensation for all work specified in this Section including materials, tools, equipment, labor, and incidentals necessary to complete the Work.

**T430-880.6.1 Payment Items:** Payment shall be made under:  
Item 430-888-02      Flap Gates, 25-36", EA