



Smith-Blair
a xylem brand

Installation Instructions

315 & 317

Ductile Iron Service Saddle with Stainless Strap(s)

STEP 1

Inspect the shipment received to ensure no damage has occurred during transit and that no hardware is missing. Ensure the received saddle is the proper type, tap size, and correct pipe size range for the installation prior to beginning.

STEP 2

Clean the pipe surface thoroughly, particularly in the area where the gasket will seat. Be sure to remove any scale, dirt, or debris that could affect the gasket seal.

STEP 3

Check the gasket for proper positioning in the saddle body. If necessary, properly position the gasket in the saddle body.

STEP 4

Lubricate the pipe and gasket face with a non-detergent soap solution. Ensure the lubricant does not freeze.

STEP 5

Mount the saddle body (with gasket in place) as close to the final tap position as possible

STEP 6

Install the saddle strap(s), washer(s), and nut(s). Use the washer(s) on the open-lug side of the saddle body.

STEP 7

Before tightening, check the position of the saddle body to ensure correct orientation on the pipe. Do not move the saddle body while on the pipe. This can damage the gasket resulting in product failure.

NOTE:

Use of this product on PLASTIC PIPE is limited to the following:

1. 4.50" – 12.75" Steel O.D. PVC Pipe with a standard dimension ratio (DR) of 26 or thicker.
2. 4.80" – 21.60" Cast/Ductile Iron O.D. C-900 PVC Pipe Class 150 rating or better (DR18).

Do not use on fiberglass reinforced plastic pipe, plastic irrigation pipe, or plastic pipe other than sizes and types mentioned above. See other side for POLYETHYLENE pipe installation instructions.

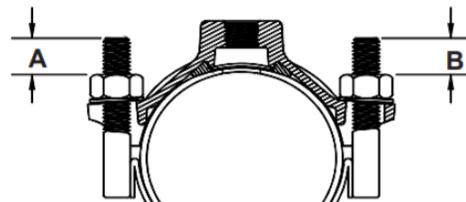
STEP 8

Tighten the nuts progressively and uniformly to the recommended torque value below. **DO NOT OVER TORQUE**. Bolt lengths A & B must be kept equal. See figure below.

NUT SIZE	TORQUE VALUE*
ALL	40 ft-lbs MAX

Use of a calibrated torque wrench is recommended

**The torque requirements above are only intended to provide an effective seal between the saddle gasket and the pipe. The saddle assembly is not designed to provide structural rigidity for connections, equipment, or any other alternative use of the saddle assembly.*



TIGHTEN EVENLY

STEP 9

Make the connection to the saddle boss. Suitable pipe thread sealant is recommended. Do not cross thread or twist/rock the saddle body while making the connection.

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