



## Flange Insert, aka Bevel-Sert, Product Specifications

### DUCTILE IRON PIPE AND FITTINGS

#### SANITARY SEWER PIPE

All ductile iron pipe joints shall have the appropriate beveled end on the male/spigot end. Beveling can be attained through:

- a. Manufacturer's beveled end.
- b. OSHA approved beveling procedure to manufacturer's required specification.
- c. Approved "flanged insert".

Flanged Insert shall:

- a. Be constructed from an approved AWWA 901 and 906 recognized/approved materials for potable water and sanitary sewer.
- b. Be non-corrosive.
- c. Not leach harmful substances into the water supply or waste flow.

**Protective Collar:** In order to protect the exterior spigot end against abrasion and damage during shipping and handling, the manufacturer shall install temporary collars on the exterior of each spigot end of each pipe section. The manufacturer shall secure the collars to the pipe to prevent accidental removal during shipping and normal handling by the Contractor. The collars are not to be removed from the pipe until right before the pipe section is to be installed or field cut.

A manufactured flanged insert shall be applied to the end of any damaged spigot end of any pipe section prior to joint assembly.

Flanged Insert shall:

- a. Be constructed from an approved AWWA 901 and 906 recognized/approved materials for potable water and sanitary sewer.
- b. Be non-corrosive.
- c. Not leach harmful substances into the water supply or waste flow.

#### DUCTILE IRON WATER PIPE: As part of this section

All joints shall have a flanged insert installed to prevent damage to the pressure seal gasket and assist in corrosion mitigation.

Flanged Insert shall:

- a. Be constructed from an approved AWWA 901 and 906 recognized/approved dielectric material for potable water and sanitary sewer.
- b. Be non-corrosive.



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- c. Not leach harmful substances into the water supply or waste flow.

All ductile iron pipe joints shall have the appropriate beveled end on the male/spigot end. Beveling can be attained through:

- a. Manufacturer's beveled end.
- b. OSHA approved beveling procedure to manufacturer's required specification.
- c. Approved "flanged insert".

Flanged Insert shall:

- a. Be constructed from an approved AWWA 901 and 906 recognized/approved dielectric materials for potable water and sanitary sewer.
- b. Be non-corrosive.
- c. Not leach harmful substances into the water supply or waste flow.

### COUPLINGS, JOINTS, GASKETS AND FLANGES:

A) Couplings: The couplings used to join the pipe to flanged valve adapters shall be Dresser Style 38, Smith-Blair 411 or an approved equal.

B) Joints:

1) All ductile iron pipe joints shall have the appropriate beveled end on the male/spigot end. Beveling can be attained through:

- a. Manufacturer's beveled end.
- b. OSHA approved beveling procedure to manufacturer's required specification.
- c. Approved "flanged insert".

2) Flange Insert shall:

- a. Be constructed from an approved AWWA 901 and 906 recognized/approved materials for potable water and sanitary sewer.
- b. Be non-corrosive.
- c. Not leach harmful substances into the water supply or waste flow.

### JOINT REQUIREMENTS:

Mechanical joints forecast iron or ductile iron water pipe shall conform to AWWA C-111 and shall include cast iron glands, synthetic rubber gaskets, and T-head bolts and nuts. The flange insert works with mechanical joints and its installation will sit in the bottom of the joint.

Flanged joints forecast iron or ductile iron water pipe shall be as detailed on the plans or as designated in the special provisions.



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- c. Not leach harmful substances into the water supply or waste flow.