

**SPECIFICATION FOR UNDER
PRESSURE TAPPING TEES**

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Specification for Under Pressure Tapping Tees for PE Pipes

1. Scope

This specification covers Mechanical Sealing Double Band under Pressure Tapping Tees with EPDM Rubber suitable for PE pipes.

2. General Requirements

Double Band Under Pressure Tapping Tees

- a. Band or shell shall be of the O.D size range and length specified. Band shall be of Type 304 stainless steel.
- b. Bolt retainer assembly or lugs shall be of a type 304 stainless steel and of a non-welded design. Lugs may be cast, forged or cold formed of type 304 stainless steel, and may include a high impact polycarbonate plastic, non-corrosive retainer. Lug design shall be such that the band fully compresses the gasket to the complete working width of the under pressure tapping tees without deformation of the band.
- c. All nuts and bolts shall be 304- stainless steel and coated with an anti-seize coating such as a non-seize zinc coating to prevent galling.
- d. Flange outlet shall be 304 stainless steel and flanges according to DIN 2576 or EN 1092.2. Flange drilling shall be PN 16.
- e. Waffle Gasket or Seal shall provide a 360° sealing surface and of such size and shape to provide an adequate compressive force against the pipe after assembling to affect a positive seal under all combinations of joint and gasket tolerances. Materials shall be of elastomeric materials conform to BSEN 681-1 and material properties conforming to Table 2 of BSEN 681-1. A heavy gauge Type 304 stainless Steel bridge plate shall be vulcanized into the gasket to span the lug area.
- f. Under Pressure Tapping Tees shall be suitable for usage up to 40° C temperature without any effect to the installed life of the product.
- g. Pressure of small diameter Under Pressure Tapping Tees shall be of 16bar for working and 24bar for test pressures.
- h. The Bidder shall provide ISO 9001: 2015 Quality Management System requirement certificate for Quality Assurance for the goods manufacturing factory from an accredited agency for Under Pressure Tapping Tees. Accredited Agency shall be a member of International Accredited Forum

(IAF) and shall have the authority for the accreditation of mentioned goods in their scope of accreditation.

Scope of the production shall be clearly specified in the certificate. Manufacturer shall maintain the validity of this certificate during the supply and delivery of the materials for contract Period. If the supply is made from several factories, ISO 9001: 2015 certificates for quality management system requirement shall be submitted for each factory. This certificate shall clearly indicate the location of the place of manufacture of pipes, fittings and accessories, etc.

3. Markings

Markings of the Under Pressure Tapping Tees should include the information listed in table -8 of ISO 4422-4