

Segmentable Elbows Hot Induction Bends & Barred Tees



Midstream Market leader with the best technology, quality, and management system

TK Corporation is Butt weld Pipe Fitting manufacturing company with world's largest production capacity.

We have accumulated manufacturing technology for over half a century and have supplied the best quality products to Oil & Gas, Chemical & Petrochemical, Power plant and shipbuilding industries.

Segmentable Elbows, Induction Bends and Barred Tees manufactured by TK Corporation are used for upstream, midstream and downstream, which include onshore and offshore plants, oil & gas pipelines, refineries, and power generation such as nuclear and thermal power plants.

TK Corporation manages the whole cycle of production and after sales services in all these markets.



TK's 1.5D, 3D and 5D Radius Segmentable Elbows

Segmentable elbows have to be furnished with a 1% maximum out-of-round(OOR) based on the nominal mating pipe outside diameter throughout the length of the elbow to allow customers be able to cut and bevel-machine in field situation.

TK's segmentable elbows with the lowest spring back after cutting makes the execution of the project faster and more efficiently.

Type of Product	Production Range	Materials
Segmentable Elbows (1.5D, 3D, 5D)	Up to 56"	<ul style="list-style-type: none"> Carbon Steel (A234-WPB, WPC) High-Yield Carbon Steel (A860/MSS SP 75 WPHY-42 ~ 80, CSA Z245.11 Gr.241 ~ Gr.550) Low-Temperature Carbon Steel (A420-WPL6, WPL9, WPL3, WPL8) Alloy Steel (A234-WP1, WP11, WP12, WP22, WP5, WP9, WP91)
Induction Bends (2D ~ 10D)	Up to 48"	<ul style="list-style-type: none"> Carbon Steel (A106-A, A106-B, A106-C) High-Yield Carbon Steel (API 5L-X42 ~ 80, CSA Z245.11 Gr.241 ~ Gr.550) Low-Temperature Carbon Steel (A333-Grade 6, A333-Grade 9, A333-Grade 3, A333-Grade 8) Austenitic Stainless Steel (A312-TP304/304L, TP316/316L, TP317/317L, TP321/321H, TP347/347H, S31254) Duplex and Super Duplex Steel (A794-S31803, S32750, S32760) Alloy Steel (A335-P1, A335-P11, A335-P22, A335-P5, A335-P9, A335-P91) High Manganese Steel

* Applicable Code Segmentable Elbows : ASME B16.9, MSS SP-75, CSA Z245.11

Induction Bends : ASME B16.49, ISO 15590-1, CSA Z245.11, PFI ES-24, ASME B16.9

BARRED TEE

The shape of barred tee is similar to butt welding pipe tee. But as its name imparts, barred tee has bars installed in the branch. Inside Diameter of barred tee through the whole length of run has to be controlled to allow passage of intelligent pig in both directions without causing any damage to the pigs.



For this reason, barred tee needs to be reinforced toward outside and its design also has to be re-considered.

TK's barred tee can be perfectly designed to meet customer's design condition as per nationally recognized pressure vessel or piping codes.

Type of Product	Production Range	Materials
Barred Tee	Up to 132"	<ul style="list-style-type: none"> • Carbon Steel (A234-WPB, WPC) • High-Yield Carbon Steel (A860/MSS SP 75 WPHY-42 ~ 80, CSA Z245.11 Gr.241 ~ Gr.550) • Low-Temperature Carbon Steel (A420-WPL6, WPL9, WPL3, WPL8) • Austenitic Stainless Steel (A403-WP304/304L, WP316/316L, WP317/317L, WP321/321H, WP347/347H, WPS31254) • Duplex and Super Duplex Steel (A815-UNS S31803, UNS S32750, UNS S32760) • Alloy Steel (A234-WP1, WP11, WP12, WP22, WP5, WP9, WP91)

*TK Corporation can manufacture Barred Tee according to client's design requirements

COATING

TK Corporation can also supply fittings with various coating that customer requires

■ Application

- 3LPE (3 Layer Polyethylene)
 - Liquid Epoxy (Internal & External)
 - FBE (Internal & External)
- Gas, oil, water supply pipeline, petroleum & chemical pipeline, pipes for underground cable protection, pile (seashore, underwater), pipes for anti-humidity.

■ Coated Thickness

Power Epoxy : above 50 μ m, Co-Polymer (Adhesive) : Above 0.3mm, Polyethylene : 2~4mm
It can be changed according to the customer's request.

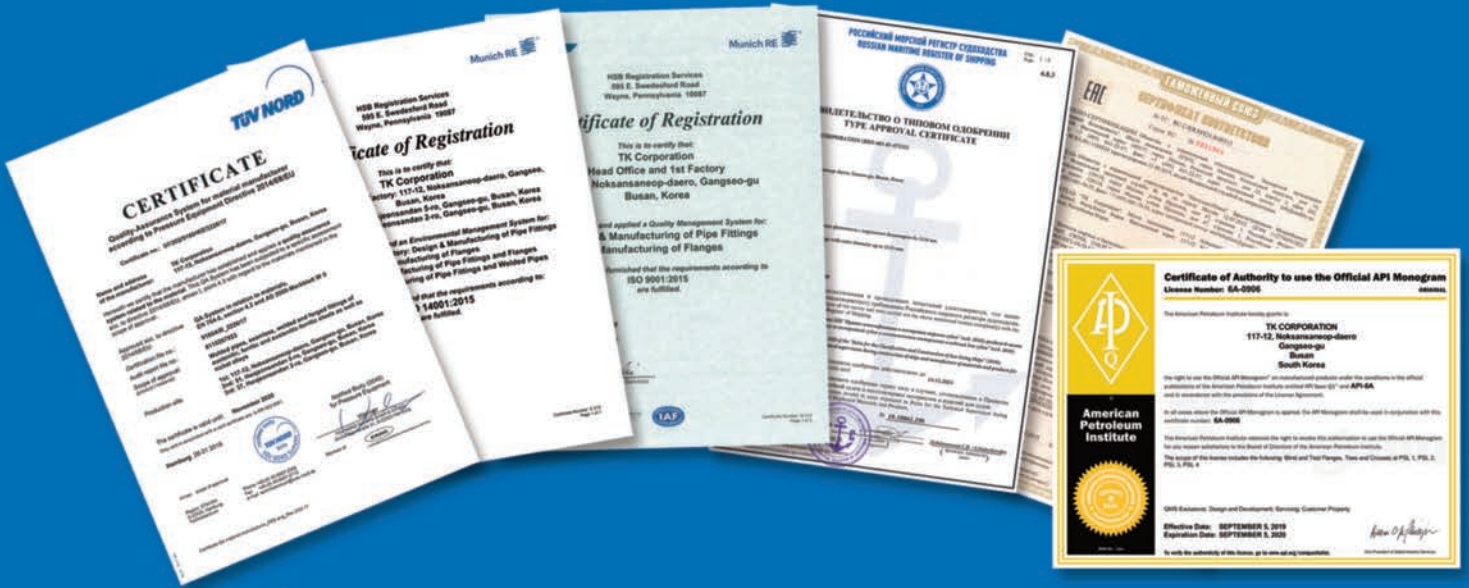
■ Manufacturing Specification 25mm~3000mm (1inch~120inch)

■ Coated Color It can be manufactured according to the customer's request

■ Characteristics

- Excellent Bonding Force
- Excellent Stress Proof Cracking
- Excellent Medicine-Proof, Waterproof
- Uniform Coating Thickness
- Excellent Electric Insulation, Resistance
- Convenient Field-Repairability

ISO, API, PED, TRCU, RS etc.



equinor(Statoil)-TR2000 NORSOK M-650 Ed.4 Qualified and Accepted Manufacturers

TK is the supplier of Segmentable Elbows Hot Induction Bends and Barred Tees with world's largest production capacities and the best technologies

 **TK corporation** <http://www.tkbend.co.kr>

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