



KISAAN TECHNO FORGE (P) LTD.

AN ISO 9001 : 2015 Certified Company

MANUFACTURERS OF WELDED & SEAMLESS PIPE FITTINGS, SOCKET WELD FITTINGS & FORGED FLANGES

Correspondence Office: B-12, Industrial Area, Bulandshahar Road, Ghaziabad - 201 009 (U.P.) INDIA

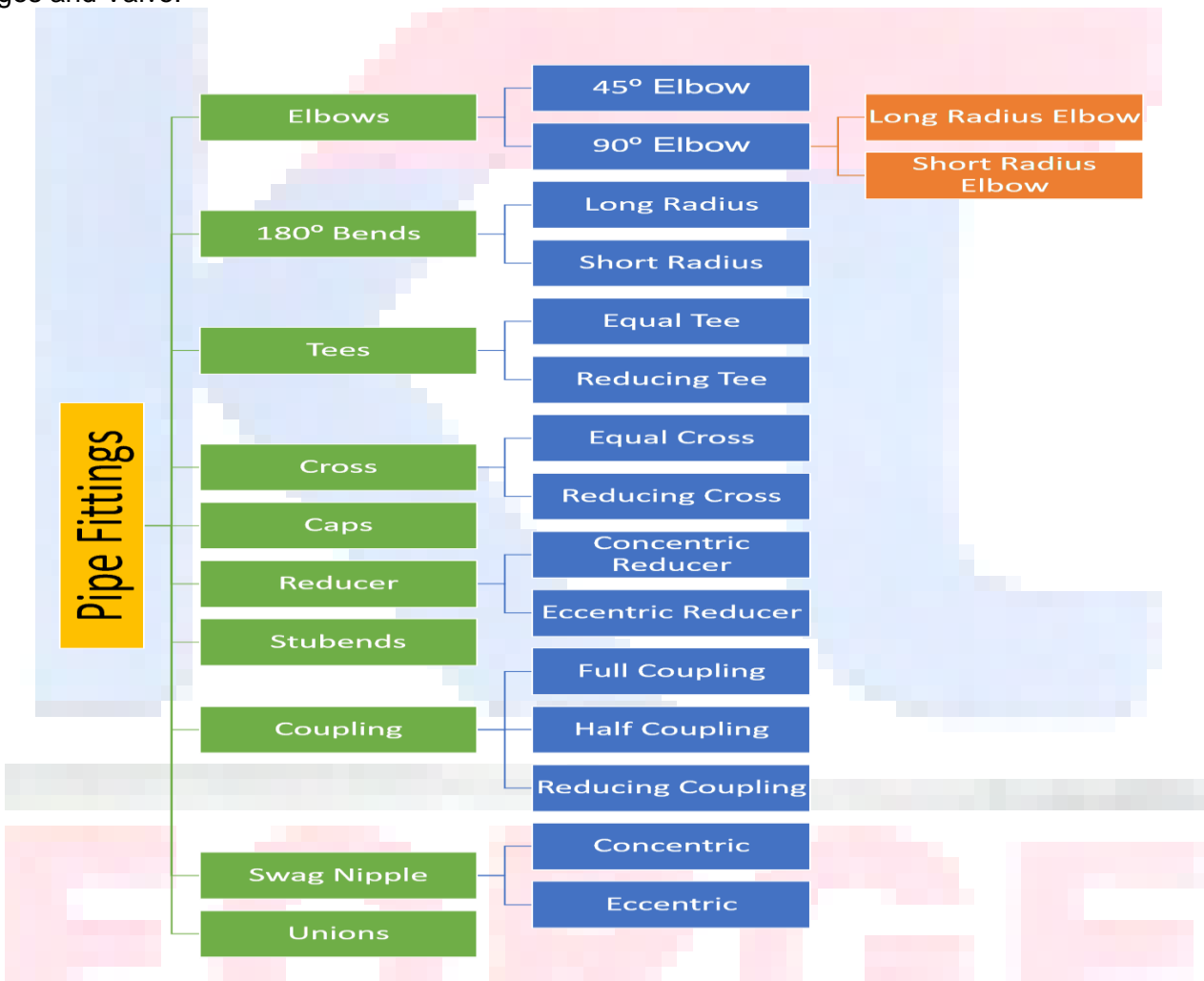
Phone (0120) 4175900-949, Mobile : 9810236401, 9971499149 Email: info@ktforge.com & sales@ktforge.com

CIN : 28999DL2013PTC262157

What are Pipe Fittings?

Pipe Fittings are Piping component that helps in Changes the direction of the flow such as elbows, tees. Changes the size of the pipe such as reducers, reducing tees. Connect different components such as couplings and stop the flows such as Caps.

There are different types of pipe fitting used in piping. Pipe Fittings used in piping work are mainly Elbow, Tee, Reducer, Union, Coupling, Cross, Cap, Swage Nipple, Plug, Bush, Expansion Joint, Adapters, Olet (Weldolet, Sockolet, Elbowlet, Thredolet, Nipolet, Letrolet, Swepolet), Steam Traps, Long Radius Bend, Flanges and Valve.



You can see the chart above that list most widely used standard pipe fittings. These standard fittings are either forging or wrought. Only seamless pipes are used to produce wrought fittings. Large diameter welded fittings are manufactured from the plate.

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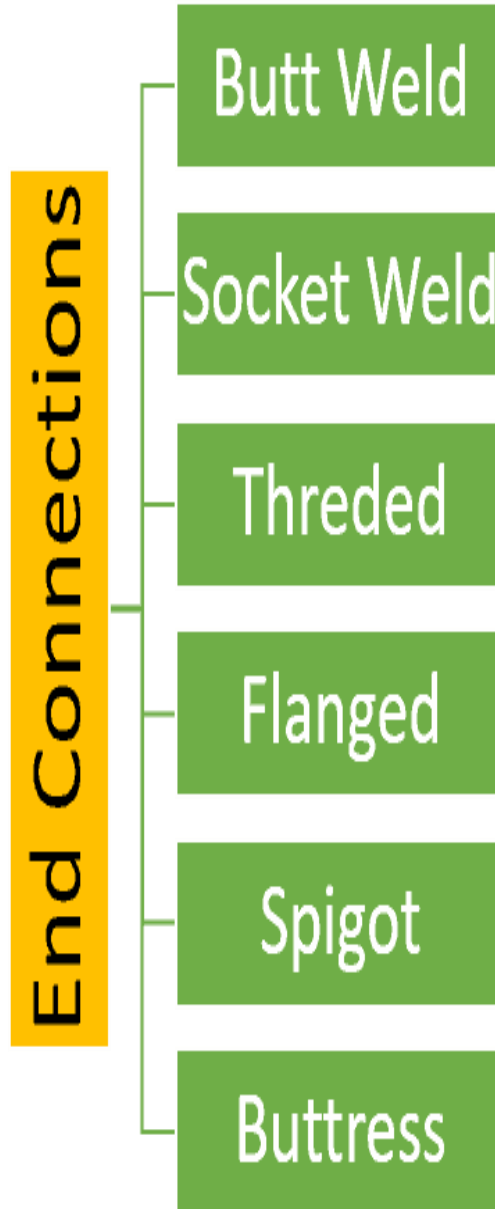
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These Fittings are available in different type of end connections.



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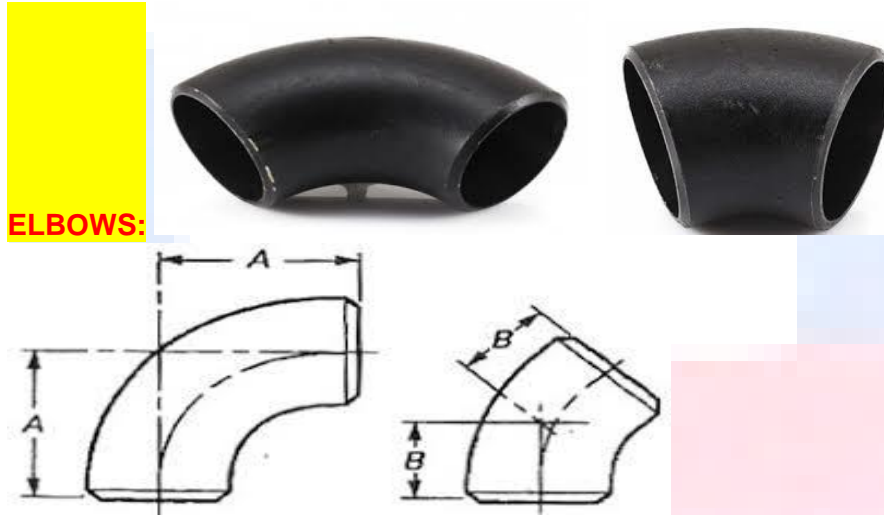
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1. ELBOWS:



LONG/SHORT RADIUS ELBOWS – 90° ELBOW, 45° ELBOW, 180° ELBOW, 1D, 2D, 3D, 4D, 5D, 10D, CUSTOM RADIUS

Buttwelded Pipe Elbow Production Range.

- Outside Diameter: Seamless Elbow (1/2" to 24")

Wall Thickness: 3mm – 40mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

Bending Radius: R=1D – 10D, 15D, 20D.

Product's Angle: 5° – 180° Elbows, 90° and 45° Long Radius Elbows, 180° Long Radius Returns, Short Radius Elbows and Returns.

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel

Manufacturing Standards

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

ASTM A403 – ASME SA403 – Standard Specification for Wrought Austenitic Stainless-Steel Piping Fittings

ASME B16.9 – Factory-Made Wrought Fittings Buttwelding

ASME B16.25 – Buttwelding Ends ASME B16.28 – Wrought Steel Short Radius Elbows and Buttwelding Returns

MSS SP-43 – Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

Pipe Elbow Material Grades

Stainless Steel Elbow; ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

Carbon Steel Elbow: ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70.

Low Temperature Carbon Steel Elbow: ASTM A420 WPL3, A420 WPL6

Alloy Steel Elbow: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Steel Elbow: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462

Marking & Packing

Products are packaged to ensure that there is no damage during transit. In case of exports, standard export packaging is done in

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wooden cases. All elbow fittings are marked with Grade, Lot No, Size, Degree and our trade mark. On special requests we can also, make custom marking on our products

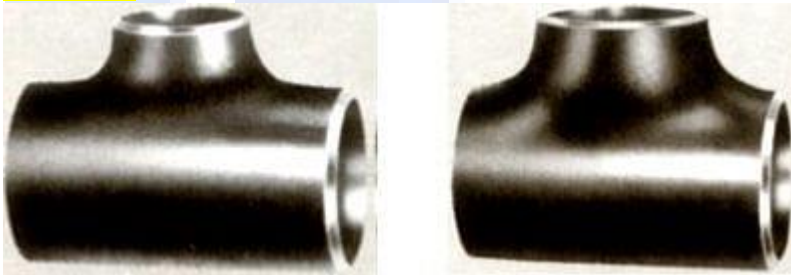
Quality Assurance

At KTF, all fittings and flanges are subject to strict inspection at each stage of the production process, from starting material purchasing to product dispatch. They are visually examined for conformity to ASTM, ASME, MSS, DIN, EN, and JIS codes and standards.

Upon request, official certified Inspection Agencies can be called in to witness the material reports, dimensions and quality conformity of products.

Test Certificates: Manufacturer Test Certificate as per EN 10204 / 3.1 or 3.2, Raw Materials Certificate, Heat Treatment Chart, finished product test report, Dimension Report, 100% Radiography Test Report, PMI Report, UT Report, DP Report, Third Party Inspection Report.

2. PIPE TEE



PIPE TEE – EQUAL TEE | REDUCING TEE

Buttweld Pipe Tee Production Range – Equal Tee, Unequal Tee (Reducing Tee)

Outside Diameter: Seamless Pipe Tee (1/2"to24")

Types: Equal Tees, Reducing Tees

Wall Thickness: 3mm – 40mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

Value Added Services: Hot Dipped Galvanizing, Epoxy & FBE Coating, Electro Polish, Sand Blasting, Threading, Soldering

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel

Manufacturing Standards – Pipe Tee

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

ASTM A403 – ASME SA403 – Standard Specification for Wrought Austenitic Stainless-Steel Piping Fittings

ASME B16.9 – Factory-Made Wrought Fittings Buttwelding

ASME B16.25 – Buttwelding Ends ASME B16.28 – 'Wrought Steel Short Radius Elbows and Buttwelding

R MSS SP-43 – 'Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications returns.

Pipe Tee Material Grades

Stainless Steel Tee; ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

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Carbon Steel Tee: ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70.

Low Temperature Carbon Steel Tee: ASTM A420 WPL3, A420 WPL6

Alloy Steel Tee: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Steel Tee: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462

Marking & Packing

Products are packaged to ensure that there is no damage during transit. In case of exports, standard export packaging is done in wooden cases. All elbow fittings are marked with Grade, Lot No, Size, Degree and our trade mark. On special requests we can also, make custom marking on our products

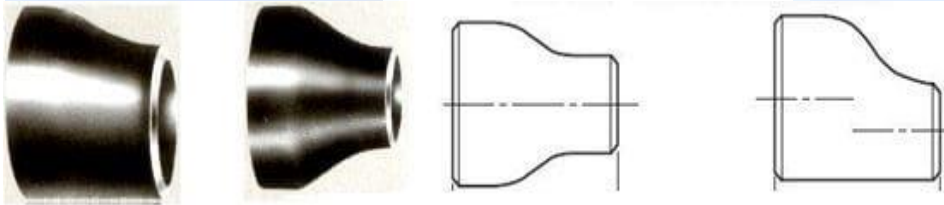
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Upon request, official certified Inspection Agencies can be called in to witness the material reports, dimensions and quality conformity of products.

Test Certificates: Manufacturer Test Certificate as per EN 10204 / 3.1 or 3.2, Raw Materials Certificate, Heat Treatment Chart, finished product test report, Dimension Report, 100% Radiography Test Report, PMI Report, UT Report, DP Report, Third Party Inspection Report.

3. PIPE REDUCER



PIPE REDUCER – ECCENTRIC REDUCER | CONCENTRIC REDUCER

Buttweld Pipe Reducer Production Range – Concentric & Eccentric

Outside Diameter: Seamless Pipe Reducer (½ to 24")

Type: Concentric Reducers, Eccentric Reducers

Wall Thickness: 3mm – 40mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

Value Added Services: Hot Dipped Galvanizing, Epoxy & FBE Coating, Electro Polish, Sand Blasting, Threading, Soldering

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel, Copper

Manufacturing Standards

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

DIN: DIN2605, DIN2615, DIN2616, DIN2617, DIN28011

EN: EN10253-1, EN10253-2

ASTM A403 – ASME SA403 – Standard Specification for Wrought Austenitic Stainless-Steel Piping Fittings

ASME B16.9 – Factory-Made Wrought Fittings Buttwelding

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ASME B16.25 – Buttwelding Ends ASME B16.28 – Wrought Steel Short Radius Elbows and Buttwelding Returns

MSS SP-43 – Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

Pipe Reducer Material Grades

Stainless Steel Reducer; ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

Carbon Steel Reducer: ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70.

Low Temperature Carbon Steel Reducer: ASTM A420 WPL3, A420 WPL6

Alloy Steel Reducer: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Steel Reducer: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462

4. PIPE END CAPS – ROUND, OVAL



Pipe End Cap Production Range

Outside Diameter: 1/2" – 48"

Wall Thickness: 2-40 mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

Value Added Services: Hot Dipped Galvanizing, Epoxy & FBE Coating, Electro Polish, Sand Blasting, Threading, Soldering

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel

Manufacturing Standards

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

ASTM A403 – ASME SA403 – Standard Specification for Wrought Austenitic Stainless-Steel Piping Fittings

ASME B16.9 – Factory-Made Wrought Fittings Buttwelding

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MSS SP-43 – Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

Pipe Cap Material Grades

Stainless Steel Pipe Cap; ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

Carbon Steel Pipe Cap: ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70.

Low Temperature Carbon Steel Pipe Cap: ASTM A420 WPL3, A420 WPL6

Alloy Steel Pipe Cap: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Steel Pipe Cap: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462



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5. PIPE CROSS – STRAIGHT/EQUAL CROSS, REDUCING CROSS



Butt Welded Pipe Cross Production Range

Outside Diameter: Seamless Cross Fitting ($\frac{1}{2}$ to 24"),

Type: Seamless, Welded, Equal Cross, Reducing Cross

Wall Thickness: 3mm – 40mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

Value Added Services: Hot Dipped Galvanizing, Epoxy & FBE Coating, Electro Polish, Sand Blasting, Threading, Soldering

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel

Manufacturing Standards

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

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ASME B16.9 – Factory-Made Wrought Fittings Buttwelding

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MSS SP-43 – Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

Pipe Cross Material Grades

Stainless Steel Pipe Cross: ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

Carbon Steel Pipe Cross: ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70.

Low Temperature Carbon Steel Pipe Cross: ASTM A420 WPL3, A420 WPL6

Alloy Steel Pipe Cross: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Pipe Cross: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462

6. STUB END | LAP JOINT



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Stub End/Lap Joint Production Range

Outside Diameter: 1/2" – 24"

Type: Long/Short Lap Joint Stub Ends

Wall Thickness: 2mm – 100 mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH120, SCH140, SCH160, XXS

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel

Value Added Services: Hot Dipped Galvanizing, Epoxy & FBE Coating, Electro Polish, Sand Blasting, Threading, Soldering

Manufacturing Standards

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

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MSS SP-43 – Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

Stub Ends Material Grades

Stainless Steel Stub End: ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

Carbon Steel Stub End: ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70.

Low Temperature Carbon Steel Stub End: ASTM A420 WPL3, A420 WPL6

Alloy Steel Stub End: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Steel Stub End: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462

7. PIPE BENDS, PIGGABLE BENDS, U-BENDS, RETURN BENDS, MITER BENDS



CARBON, ALLOY, STAINLESS STEEL BENDS – 3D, 4D, 5D, 6D, 8D, 10D

Steel Pipe Bends/Piggable Bends Production Range

Outside Diameter: Seamless Pipe Bends (1/2" – 24"),

Wall Thickness: 3mm-40mm / SCH5, SCH10, SCH20, SCH30, SCH40, STD, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS

Bending Radius: R=1D, 2D, 3D, 5D, 6D, 8D, 10D or Custom

Product Angle: 0° – 180°

Production Grades: Stainless Steel, Alloy Steel, Duplex, Nickel Alloys, Low temperature Steel, Carbon Steel, Cupro Nickel

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Steel Bends, Stainless Steel Bends Manufacturer, Piggable Bends, Miter Bends Exporter, 3D Bends, 5D Bends - Buy Now

KTF Industries is a leading manufacturer, exporter and supplier of stainless-steel bends, carbon steel bends, and alloy steel

bends in a complete range of radius and diameters. All our products are supplied with Test Certificates as per EN 10204 3.1 OR 3.2 with complete chemical and physical test results.

Brand: KTF

Manufacturer Model: 1/2-inch NB to 24-inch NB, Bending Radius of R=1D, 2D, 3D, 5D, 6D, 8D, 10D or Custom

Manufacturing Standards

ASME: ANSI B16.9, ANSI B16.28, MSS-SP-43

ASTM A403 – ASME SA403 – Standard Specification for Wrought Austenitic Stainless-Steel Piping Fittings

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Low Temperature Carbon Steel Bends: ASTM A420 WPL3, A420 WPL6

Alloy Steel Bends: ASTM / ASME A/SA 234 Gr. WP 1, WP 5, WP 9, WP 11, WP 12, WP 22, WP 91

Duplex Steel Bends: ASTM A 815, ASME SA 815 UNS NO S31803, S32205. Werkstoff No. 1.4462

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