



	PIPES & TUBES	BUTT WELD FITTINGS	FLANGES	
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AUSTENITIC STAINLESS STEEL

STANDARD	A/SA 312 TP 304/304L, TP 316/316L	A/SA 403 WP 304/304L, WP 316/316L	A/SA 182 F 304/304L, F 316/316L	1/2" (21.3 mm) 24" (609.6 mm)
HIGH TEMPERATURE	A/SA 312 TP 321/321H, TP 304/304H	A/SA 403 WP 321/321H, WP 304/304H	ON APPLICATION	1/2" (21.3 mm) 12" (323.9 mm)
UREA GRADE	A/SA 312 TP 316L UG, 25.22.2 (UNS S31050)	A/SA 403 WP 316L UG, 25.22.2 (UNS S31050)	ON APPLICATION	1/2" (21.3 mm) 14" (355.6 mm)
HEAT EXCHANGER	A/SA 213 TP 316/316L			19.05 mm 25.4 mm
INSTRUMENTATION TUBING	A/SA 213 & 269 TP 304/304L, TP 316/316L			6 mm 25 mm

DUPLEX & SUPERDUPLEX

	A/SA 790 & 928 UNS S31803/S32205 UNS S32760 UNS S32750	A/SA 815 UNS S31803/S32205 UNS S32760 UNS S32750	A/SA 182 F 51 F 55 F 53	1/2" (21.3 mm) 16" (406.4 mm)
HEAT EXCHANGER	A/SA 789 UNS S31803/S32205			19.05 mm 25.4 mm

SUPERAUSTENITICS

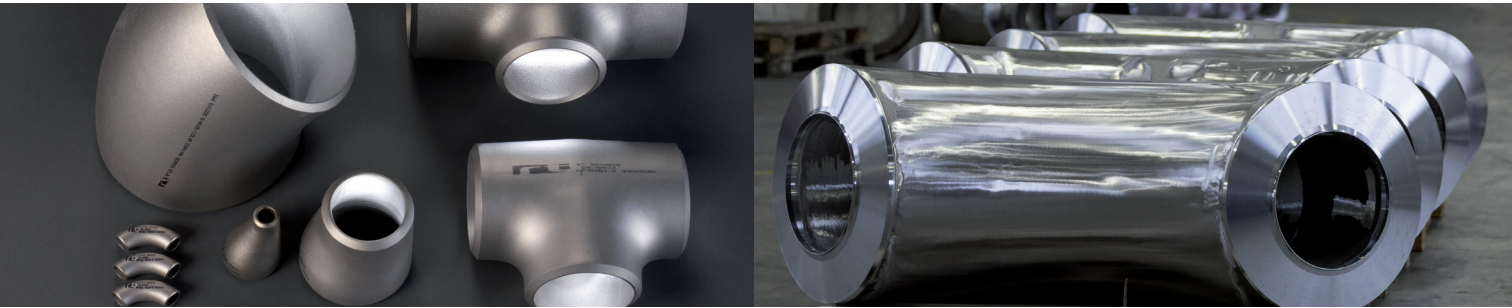
	A/SA 312 UNS S31254 (6Mo)	A/SA 403 UNS S31254 (6Mo)	A/SA 182 F 44	1/2" (21.3 mm) 16" (406.4 mm)
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NICKEL ALLOYS

	B/SB 444 & 423 UNS N06625, UNS N08825	B/SB 366 UNS N06625, UNS N08825	ON APPLICATION	1/2" (21.3 mm) 6" (168.3 mm)
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TITANIUM

	B/SB 861 & 862 TI GR 2	B/SB 363 TI GR 2	ON APPLICATION	1/2" (21.3 mm) 8" (219.1 mm)
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GRADES



Cold Formed Butt Weld Fittings

od (min. - max.)
 1/2" (21.3 mm) 16" (406.4 mm)
 wall thickness (min. - max.)
 Sch 10S - Sch XXS

Austenitic Stainless Steel, Duplex,
 Super Duplex, Superaustenitics (6mo),
 Nickel Alloys, Titanium



Hot Formed Butt Weld Fittings

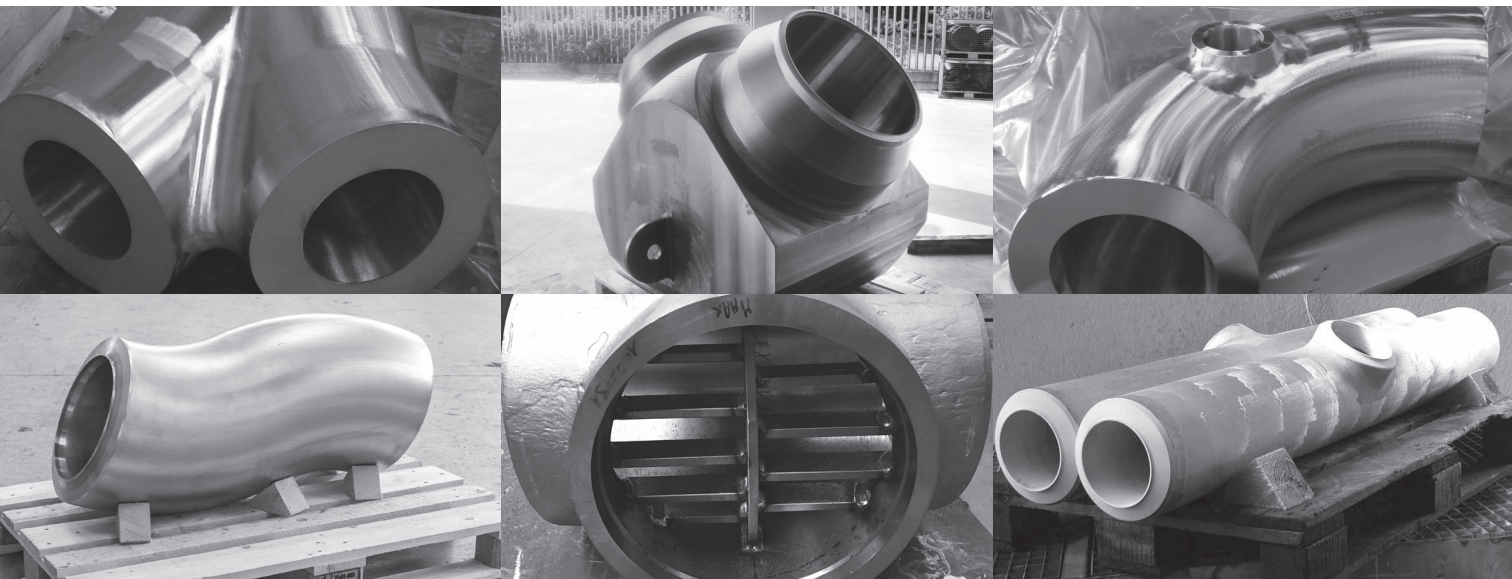
od (min. - max.)
 1" (33.4 mm) 56" (1422.0 mm)
 wall thickness (min. - max.)
 Unlimited Wall Thickness

Austenitic Stainless Steel, Duplex,
 Super Duplex, Superaustenitics (6mo),
 Nickel Alloys, Titanium

Alloy Steel For Low-Temperature Service (WPL6)

Alloy Steel For Moderate and High
 Temperature Service (P5, P9, P11, P22, P91, P92)

High Strength Material (WPHY 52/60/65/70)



SPECIAL/CUSTOMISED FITTINGS

ACCORDING TO CUSTOMER DRAWINGS
 ELBOWS (BENDS) – RADIUS 2.5D / 3D / 4D / 5D / 10D – OTHER SPECIAL RADIUS & LONG TANGENT ELBOWS
 REDUCING ELBOWS
 EQUAL & REDUCING CROSSES
 EQUAL & REDUCING LATERALS
 FLOW TEES & BARRED TEES
 NUCLEAR CLASS 1 ITEMS
 REINFORCEMENT SADDLES
 MANIFOLDS & HEADERS
 "Y" PIECES

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