



SS 316/316L

FLANGES

M A N U F A C T U R E R



ASTM A182 | SS 316/316L | WNR 1.4401 / 1.4436 / 1.4404 / 1.4435 | UNS S31600 / S31603

SS 316/316L FLANGE SPECIFICATIONS



SIZE RANGE

1/2" (15 NB) to 48" (1200NB)

CLASS / PRESSURE RATING

150#, 300#, 600#, 900#, 1500#,
2500#, PN6, PN10, PN16, PN25,
PN40, PN64 etc.



STANDARDS / DIMENSIONS

ANSI/ASME B16.5, B16.47 Series A
& B, B16.48, BS4504, BS 10, EN-
1092, DIN, BS, GOST, MSS SP-44,
ISO 70051, JIS B2220, BS1560-3.1,
API7S-15, API7S-43, API605



SS 316/316L FLANGE SPECIFICATIONS



CONNECTION TYPE

Ring Joint Flange (RTJ), Flat Face Flange (FF), Raised Face Flange (RF), Male and Female Flange (M & F), Lap Joint Flange, Large and Small Tongue-and-Groove Flange (T & G)

MATERIAL STANDARDS

ASTM A182 / ASME SA182



Materials & Grades

Stainless Steel 316/316L



Stainless Steel Grade 316/316L Flanges Equivalent Grade

STANDARD	WERKSTOFF NR.	UNS	JIS	BS	GOST	AFNOR	EN
SS 316	1.4401 / 1.4436	S31600	SUS 316	316S31 / 316S33	–	Z7CND17-11-02	X5CrNiMo17-12-2 / X3CrNiMo17-13-3
SS 316L	1.4404 / 1.4435	S31603	SUS 316L	316S11 / 316S13	03Ch17N14M3 / 03Ch17N14M2	Z3CND17-11-02 / Z3CND18-14-03	X2CrNiMo17-12-2 / X2CrNiMo18-14-3

Stainless Steel Grade 316/316L Flanges Chemical Composition

Grade	C	Mn	Si	P	S	Cr	Mo	Ni	Fe
SS 316	0.015 max	2.0 max	0.15 max	0.020 max	0.015 max	24.00 – 26.00	0.10 max	19.00 – 21.00	54.7 min
SS 316L	0.08 max	2.0 max	1.00 max	0.045 max	0.030 max	24.00 – 26.00	0.75 max	19.00 – 21.00	53.095 min

Stainless Steel Grade 316/316L Flanges Mechanical Properties

Element	Density	Melting Point	Tensile Strength	Yield Strength (0.2%Offset)	Elongation
316/316L	7.9 g/cm ³	1402 °C (2555 °F)	Psi – 75000 , MPa – 515	Psi – 30000 , MPa – 205	40 %



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For Dimensions Visit

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