



Pressure Vessel Material Selection Guide

Service	Design T	Temp. °C	Material	Plate	Pipe	Fitting	Flange	Pressure Bolting	Nonpressure Bolts, Nuts, Washers		
Cryogenic Service	-425	-254	Stainless Steel (High Alloy)	SA 340 types 304, 304L, 347, 316, 316L	SA 312 types 304, 304L, 347, 316, 316L	SA 352 Gr. 1 F 304, F 304L, F 347, 316, 316L	SA 400 types 304, 304L, 347, 316, 316L	Bolts: SA 320 Gr. B8 strain hardened Nuts: SA 324 Gr. B (15 SA 32)			
	-320	-188	Stainless Steel 9 Nickel	SA 340 types 304, 304L, 316, 316L SA 353	SA 312 types 304, 304L, 316, 316L SA 328 Gr. B	SA 352 Gr. 1 F 304, F 304L, F 316 SA 322	SA 400 WPL8				
	-150	-101	3.5 Nickel (Low Alloy)	SA 203 Gr. 3 or B	SA 203 Gr. B	SA 350 Gr. LF3	SA 420 WPL3		Same as pressure parts		
	-76	-58	3.5 Nickel (Low Alloy)	SA 203 Gr. A or B	SA 203 Gr. 2	SA 350 Gr. LF3		Bolts: SA 320 Gr. 1.7 Nuts: SA 324 Gr. 4			
Low Temperatures	-58	-49	Carbon steel (Low Alloy)	SA 516 all grades impact tested (2)	SA 516 Gr. 1						
	-21	-29		SA 516 all grades over 1 in. thick impact tested		SA 350 Gr. LF3 or LF2					
	-20	-29		SA 516 all grades over 2 in. thick impact tested	SA 52 seamless or SA 506						
	4	34		SA 516 all grades over 2 in. thick impact tested					SA 307 Gr. B SA 30 or SA 325		
Intermediate Temperatures	5	41	Carbon steel (Low Alloy)	SA 203 Gr. C, max. thick: 5/4 in. SA 515 Gr. 35, 60, 65, max. thick: 1.5 in. SA 516 all grades all thicknesses	SA 52 seamless or SA 506	SA 350 Gr. 1 or B SA 309 Gr. 1 or B	SA 234 WPL	Bolts: SA 330 Gr. B7 Nuts: SA 324 Gr. 2H			
	60	54		SA 203 Gr. C, max. thick: 5/4 in. SA 515 Gr. 35, 60, 65, max. thick: 1.5 in. SA 516 all grades all thicknesses						SA 52 seamless SA 506 SA 328 PL	
	61	54		SA 203 Gr. C, max. thick: 5/4 in. SA 515 Gr. 35, 60, 65, max. thick: 1.5 in. SA 516 all grades all thicknesses						SA 52 seamless SA 506 SA 328 PL	
	715	423		SA 204 Gr. B all thicknesses						SA 328 PL	
Elevated Temperatures	715	413	C - 0.5 Mn (Low Alloy)	SA 304 Gr. B or C	SA 303 PL	SA 302 Gr. PL	SA 234 WPL				
	875	468		SA 307 Gr. 12-CL 1 SA 307 Gr. 13-CL 1	SA 305 PL2 SA 305 PL1	SA 302 Gr. PL2 SA 302 Gr. PL1	SA 234 WPL2 SA 234 WPL1				
	875	469	1 Cr - 0.5 Mn 1.25 Cr - 0.5 Mn (Low Alloy)	SA 307 Gr. 12-CL 1 SA 307 Gr. 13-CL 1	SA 305 PL2 SA 305 PL1	SA 302 Gr. PL2 SA 302 Gr. PL1	SA 234 WPL2 SA 234 WPL1				
	1000	538		SA 307 Gr. 12-CL 1 SA 307 Gr. 13	SA 305 PL2	SA 302 Gr. PL2	SA 234 WPL2	Bolts: SA 330 Gr. B8 Nuts: SA 324 Gr. 3	Same as pressure parts		
	1000	538	Stainless Steel (High Alloy)	SA 340 types 304, 316, 321, 347	SA 312 types 304L, 316L, 321L, 347L	SA 352 Gr. 1 304L, 316L, 321L, 347L	SA 400 types 347L	Bolts: SA 330 Gr. B8 Nuts: SA 324 Gr. B			
	1100	593		SA 340 types 304, 316, 321, 347 preferred	SA 312 types 304L, 316L, 321L, 347L	SA 352 Gr. 1 304L, 316L, 321L, 347L	SA 400 types 347L				
	1300	814	Monel (Nickel Based Alloy)	SB 424	SB 423	SB 425	SB 566				
	1300	814	Stainless Steel (High Alloy)	Type 316 Stainless							
	More	More	Inconel (Nickel Based Alloy)	SB 443	SB 444	SB 446	SB 566				

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Asme Selection Guide

David Baud



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