



# Pressure Vessel Material Selection Guide

Service	Design T <sub>1</sub>	Temp. °C	Material	Plate	Pipe	Forging	Fittings	Pressure Rating	Structural 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 382 Gr. A F 304, F 304L, F 347, 316, 316L	SA 409 types 304, 304L, 347, 316, 316L	Bolts: SA 320 Gr. B8 strain hardened Nuts: SA 394 Gr. B (15 SA 310)	
	-320	-194	Stainless Steel 9 Nickel (High Alloy)	SA 340 types 304, 304L, 316, 316L SA 353	SA 312 types 304, 304L, 316, 316L SA 312 Gr. B	SA 382 Gr. A F 304, F 304L, F 316 SA 312	SA 409 WPL8		
	-150	-101	3.5 Nickel (Low Alloy)	SA 203 Gr. 3 or 8	SA 303 Gr. 3	SA 350 Gr. L/F3	SA 420 WPL3		Same as pressure parts
	-75	-59	3.5 Nickel (Low Alloy)	SA 203 Gr. A or B	SA 303 Gr. 3	SA 350 Gr. L/F3		Bolts: SA 320 Gr. 1.7 Nuts: SA 394 Gr. 8	
Low Temperatures	-51	-40							
	-50	-40		SA 318 all grades impact tested [2]	SA 318 Gr. 1		SA 420 WPL6		
	-21	-29		SA 318 all grades over 1 in. thick impact tested		SA 350 Gr. L/F3 or L/F2			
	-20	-29		SA 318 all grades over 2 in. thick impact tested	SA 52 seamless or SA 506				SA 307 Gr. B SA 36 or SA 325
Intermediate Temperatures	4	-14	Carbon steel (Low Alloy)	SA 318 all grades over 2 in. thick impact tested					
	5	-15		SA 203 Gr. C, max. thick: 5/4 in. SA 315 Gr. 15, 40, 60, max. thick: 1.5 in. SA 318 all grades all thicknesses			SA 214 WPL9		
	32	0		SA 203 Gr. C, max. thick: 5/4 in. SA 315 Gr. 15, 40, 60, max. thick: 1.5 in. SA 318 all grades all thicknesses SA 304 Gr. B all thicknesses	SA 52 seamless SA 506 SA 315 PL	SA 382 Gr. 1 or B SA 505 Gr. 1 or B		Bolts: SA 313 Gr. B7 Nuts: SA 394 Gr. 24	
	75	423							
Elevated Temperatures	75	423	C - 0.5 Mn (Low Alloy)	SA 304 Gr. B or C	SA 315 PL	SA 382 Gr. PL	SA 214 WPL		
	875	468							
	875	469	1 Cr - 0.5 Mn 1.25 Cr - 0.5 Mn (Low Alloy)	SA 387 Gr. 12-CL 1 SA 387 Gr. 12-CL 2	SA 315 PL2 SA 315 PL1	SA 382 Gr. PL2 SA 382 Gr. PL1	SA 214 WPL2 SA 214 WPL1		
	1000	538							
	1005	538	2.25 Cr - 1 Mn (Low Alloy)	SA 387 Gr. 22-CL 1 SA 387 Gr. 22	SA 315 PL2	SA 382 Gr. PL2	SA 214 WPL2	Bolts: SA 313 Gr. B8 Nuts: SA 394 Gr. 3	Same as pressure parts
	1100	593							
	1101	594	Stainless Steel (High Alloy)	SA 200 types 304, 316, 321, 347 347 preferred	SA 312 types 304L, 316L, 321L, 347L SB 423	SA 382 Gr. A 304L, 316L, 321L, 347L SB 425	SA 409 types 347L SB 366	Bolts: SA 313 Gr. B8 Nuts: SA 394 Gr. B	
	1300	814	Nickel (Nickel Based Alloy)	SB 424					
More	1301	814	Stainless Steel (High Alloy)	Type 316 Stainless					
	More	More	Inconel (Nickel Based Alloy)	SB 443	SB 444	SB 446	SB 366		

## References:

1. Budman, Henry W. Pressure Vessel Design Handbook, Second Edition, Kriger Publishing Company, 1999.
2. Moss, Dennis R. Pressure Vessel Design Manual, Third Edition, Elsevier, 2004.

# Asme Selection Guide

**Tyler Gregory Hicks**



## Asme Selection Guide:

**Standard Handbook of Chains** American Chain Association, 2005-09-20 Since its founding the American Chain Association ACA has set the standard of excellence in developing the chain industry and enhancing the benefit to customers The first edition of Chains for Power Transmission and Material Handling served as the keystone reference to the field for more than twenty years Fully updated with the latest developm *Equipment and Components in the Oil and Gas Industry Volume 2* Karan Sotoodeh, 2024-05-03 *Equipment and Components in the Oil and Gas Industry Volume 2* Components provides an overview of the components used in the oil and gas industry including instrumentation pipe components and safety components Using practical industry examples and an accessible approach the book is a key reference point for those seeking to learn more about the industry Covering both larger and smaller components used throughout the oil and gas industry the book details the theory behind pressure gauges temperature gauges flow gauges and level gauges It then goes on to discuss piping components such as pipes flanges and gaskets and introduces piping special components Valves are particularly crucial to the oil and gas industry including on off valves control valves safety valves and special valves The book also details actuators sprinklers fire and gas detectors hoses and hose reels along with electrical components such as switches cables wires and cable glands Finally the book ends with a discussion of heating ventilation and air conditioning HVAC components This book will be of interest to mechanical and chemical engineers working in the oil and gas industry

Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies **Chronicle Financial Aid Guide** , 2005 **Federal Register** , 1978-08 **ASHRAE Handbook** , 1999 **Companion Guide to the ASME Boiler & Pressure Vessel Code** K. R. Rao, 2006 This is Volume 1 of the fully revised second edition Organized to provide the technical professional with ready access to practical solutions this revised three volume 2 100 page second edition brings to life essential ASME Codes with authoritative commentary examples explanatory text tables graphics references and annotated bibliographic notes This new edition has been fully updated to the current 2004 Code except where specifically noted in the text Gaining insights from the 78 contributors with professional expertise in the full range of pressure vessel and piping technologies you find answers to your questions concerning the twelve sections of the ASME Boiler and Pressure Vessel Code as well as the B31 1 and B31 3 Piping Codes In addition you find useful examinations of special topics including rules for

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