



Pressure Vessel Material Selection Guide

Service	Design T ₁	Design T ₂	Material	Plate	Pipe	Forging	Forgings	Pressure Boring	Structural Bolts/Anchors
Cryogenic Services	-423	-254	Stainless Steel (high Alloys)	SA 240 types 304, 304L, 316, 316L	SA 872 types 304, 304L, 316, 316L, 316Ti	SA 873 types 304, 304L, 316, 316L, 316Ti	SA 873 types 304, 304L, 316, 316L, 316Ti	Bolts: SA 316 Gr. 30 Anchors: hardened Nuts: SA 316 Gr. 8 (15 SA 309)	
	-223	-196							
	-190	-166	Stainless Steel 9 Nickel	SA 240 types 304, 304L, 316, 316L SA 252	SA 872 types 304, 304L, 316, 316L, 316Ti SA 873 Gr. 8	SA 873 Gr. 8 SA 323	SA 873 WPL3		
	-156	-132	9 Nickel (Cure Alloys)						
Low Temperatures	-150	-101	0.5 Nickel (Cure Alloys)	SA 2010 Gr. 9 or 8	SA 873 Gr. 8	SA 873 Gr. LF3	SA 873 WPL3	Bolts: SA 316 Gr. 17 Nuts: SA 316 Gr. 8	Same as pressure parts
	-70	-40							
	-70	-20		SA 316 all grades Impact tested (2)	SA 873 Gr. 8		SA 873 WPL3		
	-20	-5		SA 316 all grades over 1 in. thick Impact tested		SA 370 Gr. LF3 or LF2			
Intermediate Temperatures	5	-10		SA 316 all grades over 2 in. thick Impact tested	SA 373 equivalents or SA 370				
	50	100	Carbon Steel (low Alloys)	SA 289 Gr. C, max. thick: 1/4 in. SA 321 Gr. 35, 40, 45, max. thick: 1.5 in. SA 316 all grades all thicknesses		SA 370 Gr. 1 or 2	SA 270 WPL3		
	100	150		SA 289 Gr. C, max. thick: 1/4 in. SA 321 Gr. 35, 40, 45, max. thick: 1.5 in. SA 316 all grades all thicknesses	SA 373 equivalents SA 370	SA 370 Gr. 1 or 2		Bolts: SA 316 Gr. 87 Nuts: SA 316 Gr. 8	
	150	200		SA 316 Gr. C all thicknesses	SA 373 PL				
Elevated Temperatures	275	423							
	275	413	0.2 - 0.5 Mn (low Alloys)	SA 204 Gr. B or C	SA 373 PL	SA 373 Gr. PL	SA 270 WPL3		
	375	463							
	475	463	0.10 - 0.25 Mn, 0.25 Cr - 0.5 Mn	SA 867 Gr. 12-CL 3	SA 373 PL2	SA 373 Gr. PL2	SA 270 WPL2		
Elevated Temperatures	500	550	0.25 Cr - 0.5 Mn	SA 867 Gr. 13-CL 3	SA 373 PL2	SA 373 Gr. PL2	SA 270 WPL2		
	500	550	(Cure Alloys)						
	500	550	0.25 Cr - 0.5 Mn	SA 867 Gr. 12-CL 3	SA 373 PL2	SA 373 Gr. PL2	SA 270 WPL2	Bolts: SA 316 Gr. 89 Nuts: SA 316 Gr. 8	Same as pressure parts
	500	550	(Cure Alloys)	SA 867 Gr. 13-CL 3					
	500	550							
	500	550	0.25 Cr - 0.5 Mn	SA 867 Gr. 12-CL 3	SA 373 PL2	SA 373 Gr. PL2	SA 270 WPL2		
	500	550	(Cure Alloys)	SA 867 Gr. 13-CL 3					
	500	550							
	500	550	0.25 Cr - 0.5 Mn	SA 867 Gr. 12-CL 3	SA 373 PL2	SA 373 Gr. PL2	SA 270 WPL2		
	500	550	(Cure Alloys)	SA 867 Gr. 13-CL 3					
	500	550							
	500	550							
	500	550	Stainless Steel (high Alloys)	SA 240 types 304, 316, 321, 347 SA 252 preferred	SA 872 types 304, 304L, 316, 316L, 316Ti SA 873	SA 873 Gr. 304, 316L, 316, 316L, 316Ti	SA 873 types 304, 304L, 316, 316L, 316Ti	Bolts: SA 316 Gr. 89 Nuts: SA 316 Gr. 8	
	500	550	Stainless Steel (high Alloys)	SA 252	SA 873	SA 873	SA 873		
	500	550	Stainless Steel (high Alloys)	Type 310 Stainless					
	500	550	Stainless Steel (high Alloys)	SA 410	SA 410	SA 410	SA 410		

References:

1. Bodkin, Henry W. Pressure Vessel Design Handbook, Second Edition, Krager Publishing Company, 1993.
2. Ahm, Dennis A. Pressure Vessel Design Manual, Third Edition, Elsevier, 2004.

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Tyler Gregory Hicks

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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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ASM Handbook ASM International. Handbook Committee,1990 These volumes cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria *Heating, Piping, and Air Conditioning* ,1936 Issues for Jan 1935 contain a directory of heating piping and air conditioning equipment

College Student's Guide to Merit and Other No-need Funding, 2005-2007 Gail A. Schlachter,R. David Weber,2005 Described in this unique directory are nearly 1 300 merit scholarships and other no need funding program available specifically to students already in college or students thinking of returning to college This book was named by Choice as the best of the best and included in its list of outstanding Academic Titles of the Year **Companion Guide to the ASME Boiler & Pressure Vessel Code** K. R. Rao,2006 This entirely new Volume 3 contains chapters on Current Issues of B perspective on cyclic impact and dynamic loads functionality and operability criteria fluids pipe vibration stress intensification factors stress indices and flexibility factors code design and evaluation for cyclic loading and bolted flange joints and connections

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