

SA193GRB6			ASME				juli 2006				Bolting				
Limit(s) of use :		thickness = 177,8 mm				diameter = /				criterion = Thickness					
Stress limit according to : ASME VIII					Vacuum curves : ASME=/, CODAP= /										
TEMA (Table D10, D11)					CODAP (Table C1.6.5, C1.6.7)					Modulus of Elasticity BS5500					
12 Cr & 13 Cr					Chrome alloy steel (12%<Cr<=27%)					Chrome alloy steel (12%<Cr<=27%)					
NFE29-005 5.2 :			NFE29-005 5.1 :			ASME B16.5 :			DIN 2401 :			EN 1092-1 :		EN 1759-1 :	
Spec.Grav.= 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , /)				FIG. UCS-66 / AM-218.1 =	
Chemical comp. (%)															
Notes															
Yield strength 1%	°F	-20	70												
	ksi	85	85												
	°F														
	ksi														
Yield strength 0.2%	°F	-20	70												
	ksi	85	85												
	°F														
	ksi														
Stress limit (Div.1)	°F	-20	70	100	750	800	850	900							
	ksi	21,2	21,2	21,2	21,2	19,5	15,6	12							
	°F														
	ksi														
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	700					
	ksi	28,3	28,3	28,3	27	26,1	25,3	24,6	23,9	23,3					
	°F														
	ksi														
Tensile strength	°F	70	100												
	ksi	110	110												
	°F														
	ksi														

SA193GRB7				ASME				juli 2006				Bolting				
Limit(s) of use :		thickness = 63,5 mm				diameter = /				criterion = Thickness						
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /										
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)				Modulus of Elasticity BS5500						
C-Si Stl., C-1/2 Mo & 1 Cr-1/2 Mo						Chrome/molybdene alloy stl.(Cr<=2%)				Chrome/molybdene alloy stl.(Cr<=2%)						
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :						
Spec.Grav.= 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = - 55 °F		AD W10 = (/ , /)			FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)																
Notes																
Yield strength 0.2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950
	ksi	105	105	105	98	94,1	91,5	88,5	85,3	83	80,6	77,6	73,9	69,5	64,1	58,1
	°F	1000														
	ksi	50,9														
Stress limit (Div.1)	°F	-20	70	700	750	800	850	900	950	1000						
	ksi	25	25	25	23,6	21	16,3	12,5	8,5	4,5						
	°F															
	ksi															
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	650	700	750	800			
	ksi	35	35	35	32,6	31,4	30,5	29,5	28,4	27,7	26,9	25,9	24,6			
	°F															
	ksi															
Tensile strength	°F	70	100	600	650	700	750	800	850	900	950	1000				
	ksi	125	125	125	124	119	114	108	101	94,6	86,8	78,4				
	°F															
	ksi															

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SA193GRB7				ASME				juli 2006				Bolting							
Limit(s) of use :		thickness = 101,6 mm				diameter = /				criterion = Thickness									
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /													
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500							
C-Si Stl., C-1/2 Mo & 1 Cr-1/2 Mo						Chrome/molybdene alloy stl.(Cr<=2%)						Chrome/molybdene alloy stl.(Cr<=2%)							
NFE29-005 5.2 :			NFE29-005 5.1 :			ASME B16.5 :			DIN 2401 :			EN 1092-1 :			EN 1759-1 :				
Spec.Grav.= 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = - 40 °F		AD W10 = (/ , /)						FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)																			
Notes																			
Yield strength 0.2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950			
	ksi	95	95	95	88,5	85,1	82,7	80,1	77,1	75,1	73	70,2	66,9	62,9	58	52,5			
	°F	1000																	
	ksi	46,1																	
Stress limit (Div.1)	°F	-20	70	700	750	800	850	900	950	1000									
	ksi	23	23	23	22,2	20	16,3	12,5	8,5	4,5									
	°F																		
	ksi																		
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	650	700	750	800						
	ksi	31,7	31,7	31,7	29,5	28,4	27,6	26,7	25,7	25	24,3	23,4	22,3						
	°F																		
	ksi																		
Tensile strength	°F	70	100	600	650	700	750	800	850	900	950	1000							
	ksi	115	115	115	114	110	105	99,7	93,6	87	79,8	72,1							
	°F																		
	ksi																		

SA193GRB7				ASME				juli 2006				Bolting							
Limit(s) of use :		thickness = 177,8 mm				diameter = /				criterion = Thickness									
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /													
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)					Modulus of Elasticity BS5500								
C-Si Stl., C-1/2 Mo & 1 Cr-1/2 Mo						Chrome/molybdene alloy stl.(Cr<=2%)					Chrome/molybdene alloy stl.(Cr<=2%)								
NFE29-005 5.2 :			NFE29-005 5.1 :			ASME B16.5 :			DIN 2401 :			EN 1092-1 :			EN 1759-1 :				
Spec.Grav.= 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = - 40 °F		AD W10 = (/ , /)					FIG. UCS-66 / AM-218.1 =				
Chemical comp. (%)																			
Notes																			
Yield strength 0.2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950			
	ksi	75	75	75	69,9	67,2	65,3	63,2	60,9	59,3	57,6	55,4	52,8	49,7	45,8	41,5			
	°F	1000																	
	ksi	36,4																	
Stress limit (Div.1)	°F	-20	70	750	800	850	900	950	1000										
	ksi	18,8	18,8	18,8	18	16,3	12,5	8,5	4,5										
	°F																		
	ksi																		
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	650	700	750	800						
	ksi	25	25	25	23,3	22,4	21,8	21,1	20,3	19,8	19,2	18,5	17,6						
	°F																		
	ksi																		
Tensile strength	°F	70	100	650	700	750	800	850	900	950	1000								
	ksi	100	100	100	95,7	91,4	86,7	81,4	75,7	69,4	62,7								
	°F																		
	ksi																		

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SA193GRB8CL1				ASME				juli 2006				Bolting							
Limit(s) of use :		thickness = /				diameter = /				criterion = /									
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /													
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500							
All grades of TP 304 S.S.						Austenitic alloy steel						Austenitic alloy steel							
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :				EN 1759-1 :							
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , / , /)				FIG. UCS-66 / AM-218.1 =					
Chemical comp. (%)																			
Notes																			
Yield strength 0.2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950			
	ksi	30	30	30	25	22,4	20,7	19,4	18,4	18	17,6	17,2	16,9	16,5	16,2	15,9			
	°F	1000																	
	ksi	15,5																	
Stress limit (Div.1)	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950			
	ksi	18,8	18,8	18,8	16,7	15	13,8	12,9	12,1	12	11,8	11,5	11,2	11	10,8	10,6			
	°F	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500							
	ksi	10,4	10,1	9,8	7,7	6	4,7	3,7	2,9	2,3	1,8	1,4							
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	700	800								
	ksi	10	10	10	8,3	7,5	6,9	6,5	6,1	5,9	5,6								
	°F																		
	ksi																		
Tensile strength	°F	70	100	200	300	400	500	700	750	800	850	900	950	1000					
	ksi	75	75	71	66,2	64	63,4	63,4	63,3	62,8	62	60,8	59,3	57,4					
	°F																		
	ksi																		

SA193GRB8CL2				ASME				juli 2006				Bolting							
Limit(s) of use :		thickness = 19,05 mm				diameter = /				criterion = Thickness									
Stress limit according to : ASME VIII				Vacuum curves : ASME=/, CODAP= /															
TEMA (Table D10, D11)				CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500									
All grades of TP 304 S.S.				Austenitic alloy steel						Austenitic alloy steel									
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :			DIN 2401 :			EN 1092-1 :			EN 1759-1 :						
Spec.Grav. = 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , / , /)				FIG. UCS-66 / AM-218.1 =					
Chemical comp. (%)																			
Notes																			
Yield strength 1%	°F	-20	70																
	ksi	100	100																
	°F																		
	ksi																		
Yield strength 0.2%	°F	-20	70																
	ksi	100	100																
	°F																		
	ksi																		
Stress limit (Div.1)	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950			
	ksi	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24,8			
	°F	1000																	
	ksi	24,1																	
Tensile strength	°F	70																	
	ksi	125																	
	°F																		
	ksi																		

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SA193GRB8CL2			ASME			juli 2006			Bolting					
Limit(s) of use :			thickness = 25,4 mm			diameter = /			criterion = Thickness					
Stress limit according to : ASME VIII			Vacuum curves : ASME=/, CODAP= /											
TEMA (Table D10, D11)			CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500					
All grades of TP 304 S.S.			Austenitic alloy steel						Austenitic alloy steel					
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :				
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , /)			FIG. UCS-66 / AM-218.1 =	
Chemical comp. (%)														
Notes														
Yield strength 1%	°F	-20	70											
	ksi	80	80											
	°F													
	ksi													
Yield strength 0.2%	°F	-20	70											
	ksi	80	80											
	°F													
	ksi													
Stress limit (Div.1)	°F	-20	70	100	1000									
	ksi	20	20	20	20									
	°F													
	ksi													
Tensile strength	°F	70												
	ksi	115												
	°F													
	ksi													

SA193GRB8CL2			ASME			juli 2006			Bolting					
Limit(s) of use :			thickness = 31,75 mm			diameter = /			criterion = Thickness					
Stress limit according to : ASME VIII			Vacuum curves : ASME=/, CODAP= /											
TEMA (Table D10, D11)			CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500					
All grades of TP 304 S.S.			Austenitic alloy steel						Austenitic alloy steel					
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :			DIN 2401 :		EN 1092-1 :		EN 1759-1 :			
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , /)			FIG. UCS-66 / AM-218.1 =	
Chemical comp. (%)														
Notes														
Yield strength 1%	°F	-20	70											
	ksi	65	65											
	°F													
	ksi													
Yield strength 0.2%	°F	-20	70											
	ksi	65	65											
	°F													
	ksi													
Stress limit (Div.1)	°F	-20	70	100	200	300	1000							
	ksi	18,8	18,8	18,8	16,7	16,3	16,3							
	°F													
	ksi													
Tensile strength	°F	-20	70											
	ksi	105	105											
	°F													
	ksi													

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SA193GRB8CL2			ASME			juli 2006			Bolting					
Limit(s) of use :			thickness = 38,1 mm			diameter = /			criterion = Thickness					
Stress limit according to : ASME VIII			Vacuum curves : ASME=/, CODAP= /											
TEMA (Table D10, D11)			CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500					
All grades of TP 304 S.S.			Austenitic alloy steel						Austenitic alloy steel					
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :				
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , /)			FIG. UCS-66 / AM-218.1 =	
Chemical comp. (%)														
Notes														
Yield strength 1%	°F	-20	70											
	ksi	50	50											
	°F													
	ksi													
Yield strength 0.2%	°F	-20	70											
	ksi	50	50											
	°F													
	ksi													
Stress limit (Div.1)	°F	-20	70	100	200	300	400	500	600	1000				
	ksi	18,8	18,8	18,8	16,7	15	13,8	12,9	12,5	12,5				
	°F													
	ksi													
Tensile strength	°F	-20	70											
	ksi	100	100											
	°F													
	ksi													

SA193GRB8ML2				ASME				juli 2006				Bolting			
Limit(s) of use :		thickness = 19,05 mm				diameter = /				criterion = Thickness					
Stress limit according to : ASME VIII				Vacuum curves : ASME=/, CODAP= /											
TEMA (Table D10, D11)				CODAP (Table C1.6.5, C1.6.7)				Modulus of Elasticity BS5500							
All grades of TP 316 and 317 S.S.				Austenitic alloy steel				Austenitic alloy steel							
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :					
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , / , /)		FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)															
Notes															
Yield strength 0.2%	°F	-20	70												
	ksi	95	95												
	°F														
	ksi														
Stress limit (Div.1)	°F	-20	70	100	800										
	ksi	22	22	22	22										
	°F														
	ksi														
Tensile strength	°F	70													
	ksi	110													
	°F														
	ksi														

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SA193GRB8ML2				ASME				juli 2006				Bolting					
Limit(s) of use :				thickness = 25,4 mm				diameter = /				criterion = Thickness					
Stress limit according to : ASME VIII				Vacuum curves : ASME=/, CODAP= /													
TEMA (Table D10, D11)				CODAP (Table C1.6.5, C1.6.7)								Modulus of Elasticity BS5500					
All grades of TP 316 and 317 S.S.				Austenitic alloy steel								Austenitic alloy steel					
NFE29-005 5.2 :			NFE29-005 5.1 :			ASME B16.5 :			DIN 2401 :			EN 1092-1 :			EN 1759-1 :		
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , / , /)				FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)																	
Notes																	
Yield strength 0.2%	°F	-20	70														
	ksi	80	80														
	°F																
	ksi																
Stress limit (Div.1)	°F	-20	70	100	800												
	ksi	20	20	20	20												
	°F																
	ksi																
Tensile strength	°F	70															
	ksi	100															
	°F																
	ksi																

SA193GRB8ML2				ASME				juli 2006				Bolting			
Limit(s) of use :		thickness = 31,75 mm				diameter = /				criterion = Thickness					
Stress limit according to : ASME VIII				Vacuum curves : ASME=/, CODAP= /											
TEMA (Table D10, D11)				CODAP (Table C1.6.5, C1.6.7)				Modulus of Elasticity BS5500							
All grades of TP 316 and 317 S.S.				Austenitic alloy steel				Austenitic alloy steel							
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :					
Spec.Grav.= 0		Poisson's Coeff = 0		A% = 0 %		Tref = /		MDMT = /		AD W10 = (/ , /)		FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)															
Notes															
Yield strength 0.2%	°F	-20	70												
	ksi	65	65												
	°F														
	ksi														
Stress limit (Div.1)	°F	-20	70	100	200	300	800								
	ksi	18,8	18,8	18,8	17,7	16,3	16,3								
	°F														
	ksi														
Tensile strength	°F	70													
	ksi	95													
	°F														
	ksi														

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SA193GRB16				ASME				juli 2006				Bolting				
Limit(s) of use :		thickness = 63,5 mm				diameter = /				criterion = Thickness						
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /										
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)				Modulus of Elasticity BS5500						
C-Si Stl., C-1/2 Mo & 1 Cr-1/2 Mo						Chrome/molybdene alloy stl.(Cr<=2%)				Chrome/molybdene alloy stl.(Cr<=2%)						
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :						
Spec.Grav.= 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = - 20 °F		AD W10 = (/ , /)			FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)																
Notes																
Yield strength 0.2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950
	ksi	105	105	105	101	98,7	96,1	93,5	90,8	89,3	87,7	85,9	83,9	81,5	78,6	75,2
	°F	1000														
	ksi	71														
Stress limit (Div.1)	°F	-20	70	800	850	900	950	1000	1050	1100						
	ksi	25	25	25	23,5	20,5	16	11	6,3	2,8						
	°F															
	ksi															
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	700	800					
	ksi	35	35	35	34	33,2	32,5	31,8	30,9	29,4	27,7					
	°F															
	ksi															
Tensile strength	°F	70	100	850	900	950	1000									
	ksi	125	125	125	99,7	94,6	88,7									
	°F															
	ksi															

SA193GRB16				ASME				juli 2006				Bolting				
Limit(s) of use :		thickness = 101,6 mm				diameter = /				criterion = Thickness						
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /										
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)				Modulus of Elasticity BS5500						
C-Si Stl., C-1/2 Mo & 1 Cr-1/2 Mo						Chrome/molybdene alloy stl.(Cr<=2%)				Chrome/molybdene alloy stl.(Cr<=2%)						
NFE29-005 5.2 :		NFE29-005 5.1 :		ASME B16.5 :		DIN 2401 :		EN 1092-1 :		EN 1759-1 :						
Spec.Grav. = 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = - 20 °F		AD W10 = (/ , /)			FIG. UCS-66 / AM-218.1 =			
Chemical comp. (%)																
Notes																
Yield strength 0.2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950
	ksi	95	95	95	91,7	89,3	86,9	84,6	82,1	80,8	79,4	77,7	75,9	73,7	71,1	68
	°F	1000														
	ksi	64,2														
Stress limit (Div.1)	°F	-20	70	100	800	850	900	950	1000	1050	1100					
	ksi	22	22	22	22	21	18,5	15,3	11	6,3	2,8					
	°F															
	ksi															
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	700	800					
	ksi	31,7	31,7	31,7	30,7	30	29,4	28,8	27,9	26,6	25,1					
	°F															
	ksi															
Tensile strength	°F	70	100	600	650	700	750	800	850	900	950	1000				
	ksi	110	110	110	108	105	101	97,7	93,1	88,2	83	77,4				
	°F															
	ksi															

Holland Engineering Consultants BV Postbus 1359 3430 BJ NIEUWEGEIN NL				SA193 bolting data				29 March 2007 Revision : H:\P10\Microprotol\Demos\Flens.emvd (29/03/2007)								
SA193GRB16		ASME		juli 2006				Bolting								
Limit(s) of use : thickness = 177,8 mm diameter = / criterion = Thickness																
Stress limit according to : ASME VIII						Vacuum curves : ASME=/, CODAP= /										
TEMA (Table D10, D11)						CODAP (Table C1.6.5, C1.6.7)						Modulus of Elasticity BS5500				
C-Si Stl., C-1/2 Mo & 1 Cr-1/2 Mo						Chrome/molybdene alloy stl.(Cr<=2%)						Chrome/molybdene alloy stl.(Cr<=2%)				
NFE29-005 5.2 :			NFE29-005 5.1 :			ASME B16.5 :		DIN 2401 :		EN 1092-1 :			EN 1759-1 :			
Spec.Grav.= 7,85		Poisson's Coeff = 0,3		A% = 0 %		Tref = /		MDMT = - 20 °F		AD W10 = (/ , / , /)				FIG. UCS-66 / AM-218.1 =		
Chemical comp. (%)																
Notes																
Yield strength 0,2%	°F	-20	70	100	200	300	400	500	600	650	700	750	800	850	900	950
	ksi	85	85	85	82	79,9	77,8	75,7	73,5	72,3	71	69,6	67,9	65,9	63,6	60,8
	°F	1000														
	ksi	57,4														
Stress limit (Div.1)	°F	-20	70	800	850	900	950	1000	1050	1100						
	ksi	20	20	20	18,8	16,7	14,3	11	6,3	2,8						
	°F															
	ksi															
Stress limit (Div.2)	°F	-20	70	100	200	300	400	500	600	700	800					
	ksi	28,3	28,3	28,3	27,5	26,9	26,3	25,7	25	23,8	22,4					
	°F															
	ksi															
Tensile strength	°F	70	100	600	650	700	750	800	850	900	950	1000				
	ksi	100	100	100	98,7	95,8	92,5	88,8	84,7	80,2	75,5	70,4				
	°F															
	ksi															