

# Liftcrane Luffing Jib Capacities

**Luffing Jib No. 135 on Boom No. 74**  
**121,500 lb Crane Counterweight**  
**35,300 lb Carbody Counterweight**  
**360 Degree Rating**



## MLC165 SERIES 2



**LIFTING CAPACITIES:** Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (\*).

**Luffing Jib Backward Stability:** Capacities indicated by (b) require 2,825 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 6,000 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (d) require 11,000 lb minimum weight suspended beneath luffing jib point. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weights.** Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause luffing hoist to go slack causing wire rope damage or failure.

Lower boom point must be completely removed from 167.3 ft boom length.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate on a firm uniformly supporting surface and bearing turntable level within a tolerance of 1/2 in. in 10 ft and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib assembly **No. 81022481**, Wire Rope Specification chart **No. 9313-A**, Luffing Jib Raising Procedure chart **No. 9304-A**, and Wind Conditions chart **No. 9289-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

**MACHINE TRAVEL:** Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9312-A**.



**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



**BOOM ANGLE:** Boom angle in degrees ( $^{\circ}$ ) is angle between horizontal and centerline of boom butt and inserts.

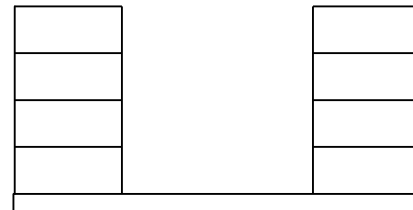


**LUFFING JIB ANGLE:** Luffing jib angle in degrees ( $^{\circ}$ ) is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



**LUFFING JIB POINT ELEVATION:** Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 26 ft 2 in. crawlers, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, four 28 mm boom pendants, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 121,500 lb crane counterweight, and two 17,650 lb carbody counterweights.



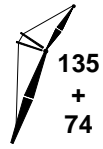
121,500 lb Crane Counterweight  
8 Side Boxes

**WARNING:** Free fall operation is limited to 13,000 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

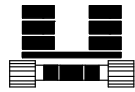
### Lower Boom Point Sheave Deduct

Deduct 500 lb from capacities for boom lengths 147.6 ft thru 157.5 ft when lower boom point is equipped with outer sheave clusters.

## Explanation of Symbols



Luffing Jib No. 135  
+  
Boom No. 74



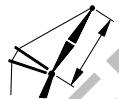
Crane Counterweight  
+  
Carbody Counterweight



360 Degree Rating



Boom Length



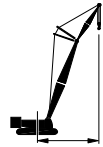
Luffing Jib Length



Boom Angle  
(see page 1)

REFERENCE ONLY!

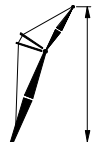
## Explanation of Symbols (continued)



Operating Radius  
(see page 1)



Luffing Jib Angle  
(see page 1)



Luffing Jib Point Elevation  
(see page 1)

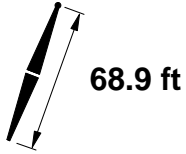
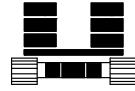


Lifting Capacities  
(see page 1)

REFERENCE ONLY!

# MLC165 S-2

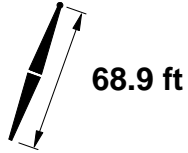
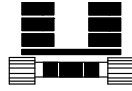
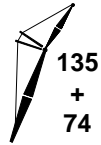
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30	73.8	142.8	110,300 *d							30
32	72.1	142.2	110,300 *d							32
34	70.4	141.5	110,300 *d							34
36	68.6	140.7	110,300 *d							36
38	66.9	139.9	106,400 *c							38
40	65.1	139.0	102,500 *c	69.3	140.4	110,300 *c				40
45	60.5	136.4	93,600 *c	64.9	138.3	99,900 *b				45
50	55.7	133.3	86,100 *b	60.3	135.7	87,500 b	63.6	137.0	85,700 b	50
55	50.5	129.6	78,700 *b	55.4	132.6	77,400 b	58.9	134.2	75,800 b	55
60	45.0	125.0	71,100 *b	50.3	128.8	69,300	54.0	130.9	67,800	60
65	38.9	119.5	63,800 *b	44.7	124.2	62,600	48.7	126.9	61,300	65
70	31.8	112.4	57,900 *	38.6	118.6	57,000	43.0	122.1	55,800	70
75	22.9	102.8	52,800 *	31.5	111.5	52,200	36.6	116.1	51,100	75
80	6.9	84.0	44,200 *	22.4	101.6	48,000	29.1	108.4	47,100	80
85				5.2	81.3	44,300	19.1	97.2	43,500	85
90										90
95										95
100										100
105										105

# MLC165 S-2

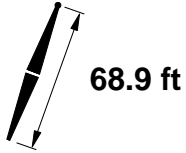
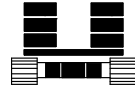
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	59.7	133.2	65,400 <b>b</b>							60
65	54.8	130.0	59,100							65
70	49.6	126.1	53,800	55.5	128.5	51,900				70
75	44.0	121.5	49,300	50.4	124.7	47,500				75
80	37.8	115.7	45,400	44.8	120.2	43,800	50.9	122.6	42,200	80
85	30.5	108.3	42,000	38.7	114.5	40,500	45.4	118.1	39,000	85
90	21.0	97.9	39,000	31.5	107.4	37,700	39.3	112.7	36,300	90
95				22.5	97.6	35,100	32.3	105.7	33,800	95
100				5.6	77.7	32,700	23.5	96.3	31,600	100
105							8.7	79.0	29,500	105

# MLC165 S-2

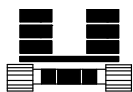
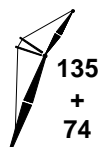
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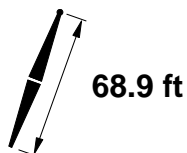
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
32	74.4	152.6	103,600 *d							32
34	72.9	152.0	103,600 *d							34
36	71.4	151.4	102,500 *d							36
38	69.9	150.7	100,500 *c							38
40	68.4	149.9	98,400 *c							40
45	64.5	147.7	91,000 *c	68.2	149.2	97,900 *b				45
50	60.4	145.1	83,900 *b	64.3	147.0	87,300 b	67.1	148.0	85,400 b	50
55	56.2	142.0	77,600 *b	60.2	144.4	77,200 b	63.1	145.7	75,500 b	55
60	51.8	138.4	71,000 b	56.0	141.3	69,000	59.0	142.9	67,600	60
65	47.1	134.1	64,100	51.6	137.6	62,400	54.8	139.6	61,000	65
70	42.0	129.0	58,400	46.8	133.3	56,800	50.2	135.8	55,600	70
75	36.3	122.9	53,500	41.7	128.2	52,000	45.4	131.3	50,900	75
80	29.7	115.2	49,300	36.0	122.0	47,900	40.1	125.9	46,900	80
85	21.4	104.7	45,600	29.4	114.2	44,400	34.2	119.3	43,400	85
90	6.5	84.5	38,000 *	20.9	103.6	41,200	27.2	110.9	40,300	90
95				4.8	81.7	38,300	17.8	98.8	37,600	95
100										100
105										105
110										110
115										115

# MLC165 S-2

ASME B30.5



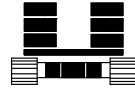
121,500 lb  
+  
35,300 lb



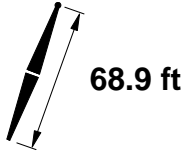
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	59.7	141.9	58,800							65
70	55.5	138.7	53,500							70
75	51.0	135.0	49,000	56.1	137.2	47,200				75
80	46.2	130.6	45,200	51.6	133.5	43,500				80
85	41.0	125.3	41,800	46.9	129.2	40,200	52.1	131.4	38,700	85
90	35.2	119.0	38,900	41.8	124.1	37,400	47.4	127.2	35,900	90
95	28.5	110.9	36,200	36.1	117.9	34,900	42.3	122.2	33,500	95
100	19.7	99.7	33,900	29.4	110.2	32,600	36.6	116.1	31,300	100
105				21.0	99.5	30,500	30.1	108.5	29,400	105
110				5.2	78.1	28,600	22.0	98.3	27,600	110
115							8.2	79.7	25,900	115

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

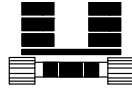
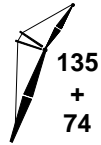


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
34	74.9	162.4	93,500 *d							34
36	73.5	161.8	92,400 *d							36
38	72.2	161.2	90,500 *c							38
40	70.9	160.6	88,800 *c							40
45	67.5	158.7	84,600 *c	70.7	159.9	89,100 *b				45
50	64.0	156.4	80,800 *b	67.3	158.0	85,100 *b				50
55	60.4	153.8	75,900 *b	63.8	155.7	77,000 b	66.3	156.7	75,300 b	55
60	56.6	150.7	70,800 *b	60.2	153.1	68,900	62.8	154.3	67,400	60
65	52.7	147.2	64,000 b	56.5	150.0	62,200	59.1	151.6	60,800	65
70	48.6	143.1	58,300	52.6	146.4	56,600	55.4	148.3	55,400	70
75	44.2	138.3	53,400	48.4	142.3	51,900	51.4	144.6	50,800	75
80	39.5	132.7	49,200	44.0	137.5	47,800	47.2	140.3	46,800	80
85	34.1	126.0	45,600	39.2	131.9	44,300	42.7	135.3	43,300	85
90	28.0	117.7	42,400	33.9	125.1	41,200	37.7	129.4	40,300	90
95	20.2	106.5	39,500	27.7	116.7	38,400	32.2	122.3	37,500	95
100	6.1	85.1	33,100 *	19.7	105.3	35,900	25.6	113.2	35,100	100
105				4.6	82.1	33,600	16.8	100.3	32,900	105
110										110
115										115
120										120
125										125

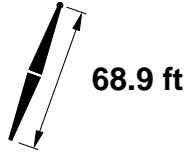


# MLC165 S-2

ASME B30.5



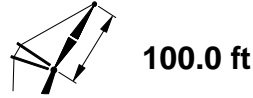
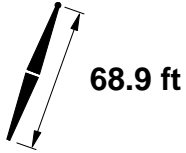
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.8	150.6	53,300							70
75	56.0	147.4	48,900							75
80	52.1	143.8	45,000	56.5	145.9	43,300				80
85	47.9	139.6	41,700	52.6	142.3	40,000				85
90	43.4	134.7	38,700	48.5	138.2	37,200	53.0	140.2	35,700	90
95	38.6	129.0	36,100	44.1	133.4	34,700	48.9	136.1	33,300	95
100	33.2	122.1	33,800	39.3	127.8	32,500	44.5	131.4	31,200	100
105	26.8	113.4	31,700	33.9	121.1	30,500	39.8	125.9	29,200	105
110	18.5	101.4	29,800	27.7	112.7	28,600	34.5	119.3	27,500	110
115				19.8	101.3	26,900	28.4	111.1	25,900	115
120				4.9	78.6	25,300	20.7	100.2	24,400	120
125							7.7	80.4	23,000	125

# MLC165 S-2

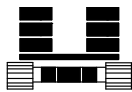
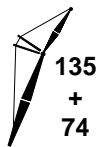
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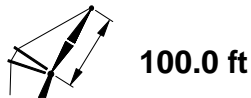
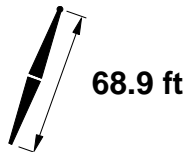
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	74.0	171.7	82,300 *d							38
40	72.8	171.1	80,700 *c							40
45	69.8	169.4	76,800 *c							45
50	66.7	167.4	73,200 *b	69.7	168.7	77,100 *b				50
55	63.6	165.1	69,900 *b	66.6	166.7	73,600 *b				55
60	60.3	162.4	66,800 *b	63.4	164.4	68,600	65.7	165.4	67,100	60
65	57.0	159.4	63,800 b	60.2	161.7	61,900	62.5	163.0	60,500	65
70	53.5	155.9	58,100	56.8	158.7	56,400	59.2	160.2	55,100	70
75	49.8	152.0	53,200	53.3	155.2	51,600	55.8	157.0	50,500	75
80	46.0	147.4	49,000	49.7	151.2	47,600	52.3	153.4	46,500	80
85	41.8	142.2	45,400	45.8	146.7	44,000	48.6	149.3	43,000	85
90	37.4	136.2	42,200	41.7	141.4	40,900	44.6	144.6	40,000	90
95	32.3	129.0	39,400	37.1	135.3	38,200	40.4	139.1	37,300	95
100	26.5	120.2	36,800	32.1	128.1	35,700	35.7	132.7	34,900	100
105	19.1	108.3	34,500	26.2	119.1	33,500	30.5	125.1	32,700	105
110	5.8	85.6	29,100 *	18.7	107.0	31,500	24.3	115.4	30,800	110
115				4.3	82.5	29,600	15.9	101.7	29,000	115
120										120
125										125
130										130
135										135

# MLC165 S-2

ASME B30.5



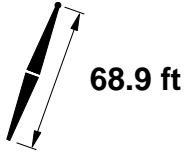
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.8	159.2	48,500							75
80	56.4	156.1	44,700							80
85	52.9	152.6	41,400	56.9	154.6	39,700				85
90	49.2	148.5	38,400	53.4	151.1	36,900				90
95	45.3	143.9	35,800	49.7	147.1	34,400				95
100	41.1	138.6	33,500	45.8	142.6	32,200	50.1	145.0	30,800	100
105	36.5	132.4	31,500	41.7	137.3	30,200	46.2	140.5	28,900	105
110	31.4	124.9	29,600	37.2	131.3	28,400	42.1	135.4	27,200	110
115	25.4	115.7	27,900	32.2	124.0	26,700	37.6	129.4	25,600	115
120	17.6	103.0	26,300	26.3	115.1	25,200	32.7	122.3	24,100	120
125				18.8	103.0	23,800	26.9	113.6	22,800	125
130				4.7	79.0	22,400	19.6	101.9	21,600	130
135							7.3	81.1	20,300	135

# MLC165 S-2

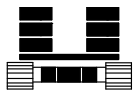
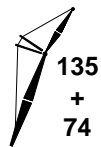
ASME B30.5



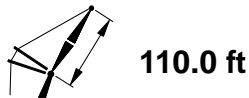
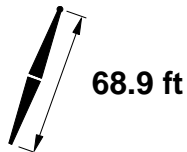
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.4	181.5	75,000 *c							40
45	71.7	180.0	72,100 *c							45
50	69.0	178.2	69,200 *b							50
55	66.1	176.1	66,600 *b	68.8	177.5	69,500 *				55
60	63.3	173.8	63,900 *b	66.0	175.5	66,900 *				60
65	60.3	171.1	61,400 *	63.1	173.1	61,900	65.2	174.2	60,500	65
70	57.3	168.1	58,000	60.2	170.4	56,300	62.3	171.7	55,000	70
75	54.1	164.6	53,100	57.1	167.3	51,600	59.3	168.9	50,400	75
80	50.8	160.8	49,000	54.0	163.9	47,500	56.2	165.7	46,400	80
85	47.4	156.5	45,400	50.7	160.0	44,000	53.0	162.2	43,000	85
90	43.7	151.6	42,200	47.2	155.7	40,900	49.7	158.2	40,000	90
95	39.8	146.0	39,400	43.6	150.8	38,200	46.2	153.7	37,300	95
100	35.6	139.5	36,800	39.6	145.1	35,700	42.5	148.6	34,900	100
105	30.8	131.8	34,600	35.4	138.6	33,500	38.4	142.7	32,700	105
110	25.2	122.5	32,500	30.6	130.9	31,600	34.0	135.9	30,800	110
115	18.2	109.9	30,600 *	25.0	121.4	29,700	29.0	127.7	29,000	115
120	5.5	86.1	24,100 *	17.8	108.6	28,100	23.1	117.5	27,400	120
125				4.1	82.9	25,100 *	15.2	103.1	25,900	125
130										130
135										135
140										140
145										145

# MLC165 S-2

ASME B30.5



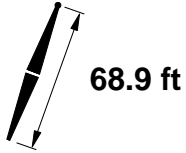
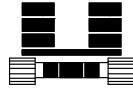
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.8	170.6	48,500							75
80	59.8	167.9	44,600							80
85	56.7	164.8	41,300							85
90	53.6	161.3	38,400	57.2	163.2	36,800				90
95	50.2	157.4	35,800	54.0	159.8	34,300				95
100	46.8	153.0	33,500	50.7	155.9	32,100				100
105	43.1	148.0	31,400	47.3	151.6	30,100	51.0	153.9	28,900	105
110	39.1	142.2	29,600	43.6	146.7	28,300	47.6	149.6	27,100	110
115	34.8	135.6	27,900	39.7	141.0	26,700	44.0	144.7	25,600	115
120	29.9	127.7	26,300	35.4	134.5	25,200	40.1	139.1	24,100	120
125	24.2	117.9	24,900	30.6	126.8	23,800	35.8	132.7	22,800	125
130	16.7	104.5	23,600	25.0	117.4	22,600	31.1	125.2	21,600	130
135				17.9	104.7	21,400	25.6	115.9	20,500	135
140				4.5	79.4	20,200	18.7	103.6	19,400	140
145							7.0	81.7	18,400	145

# MLC165 S-2

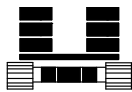
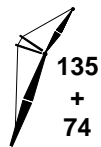
ASME B30.5



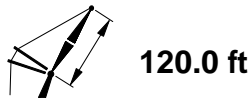
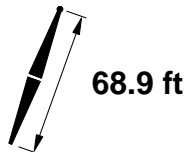
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.3	190.5	66,700 *c							45
50	70.8	188.8	64,000 *b							50
55	68.2	187.0	61,400 *b	70.7	188.2	64,000 *				55
60	65.6	184.9	58,900 *b	68.1	186.3	61,600 *				60
65	63.0	182.4	56,500 *	65.5	184.2	59,200 *	67.4	185.1	60,200	65
70	60.3	179.7	54,300 *	62.9	181.8	56,000	64.8	182.9	54,700	70
75	57.5	176.7	52,100 *	60.2	179.0	51,300	62.1	180.4	50,100	75
80	54.6	173.4	48,700	57.4	176.0	47,300	59.4	177.6	46,100	80
85	51.6	169.6	45,100	54.5	172.6	43,700	56.5	174.4	42,700	85
90	48.5	165.4	41,900	51.5	168.9	40,600	53.6	170.9	39,700	90
95	45.2	160.7	39,100	48.4	164.7	37,900	50.6	167.0	37,000	95
100	41.8	155.5	36,600	45.1	159.9	35,500	47.4	162.7	34,600	100
105	38.1	149.5	34,400	41.6	154.7	33,300	44.1	157.8	32,500	105
110	34.0	142.6	32,300	37.9	148.6	31,300	40.6	152.3	30,600	110
115	29.5	134.5	30,500	33.8	141.7	29,500	36.7	146.1	28,800	115
120	24.2	124.6	28,800	29.2	133.6	27,900	32.5	138.9	27,200	120
125	17.4	111.5	26,900 *	23.9	123.6	26,400	27.8	130.2	25,700	125
130	5.3	86.6	21,300 *	17.1	110.2	25,000	22.1	119.5	24,400	130
135				4.0	83.2	22,100 *	14.5	104.4	23,100	135
140										140
145										145
150										150
155										155

# MLC165 S-2

ASME B30.5



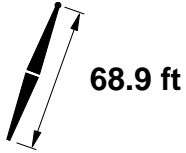
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.5	179.3	44,300							80
85	59.8	176.5	41,000							85
90	57.0	173.5	38,100							90
95	54.1	170.0	35,500	57.4	171.9	34,000				95
100	51.1	166.2	33,200	54.5	168.5	31,800				100
105	48.0	162.0	31,100	51.5	164.8	29,800				105
110	44.7	157.2	29,300	48.4	160.6	28,000	51.8	162.7	26,800	110
115	41.2	151.8	27,600	45.1	155.9	26,400	48.7	158.5	25,200	115
120	37.4	145.7	26,100	41.7	150.6	24,900	45.4	153.9	23,800	120
125	33.3	138.6	24,600	37.9	144.6	23,600	42.0	148.6	22,500	125
130	28.6	130.3	23,300	33.8	137.7	22,300	38.3	142.7	21,300	130
135	23.1	120.0	22,100	29.3	129.5	21,200	34.3	135.9	20,200	135
140	16.0	105.9	21,000	24.0	119.5	20,100	29.7	127.9	19,200	140
145				17.1	106.2	19,100	24.5	118.1	18,200	145
150				4.3	79.8	18,100	17.9	105.2	17,300	150
155							6.7	82.3	16,400	155

# MLC165 S-2

ASME B30.5

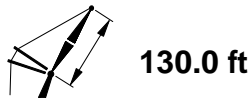
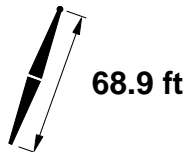
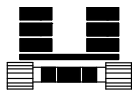
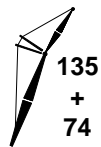


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.6	200.9	51,900 *c							45
50	72.3	199.4	50,900 *b							50
55	70.0	197.7	49,800 *b							55
60	67.6	195.7	48,900 *b	69.9	197.0	50,100 *				60
65	65.2	193.6	48,000 *	67.5	195.1	49,300 *				65
70	62.8	191.1	46,500 *	65.1	192.9	48,500 *	66.8	193.8	48,900 *	70
75	60.3	188.4	44,600 *	62.7	190.4	46,600 *	64.4	191.5	47,900 *	75
80	57.7	185.4	42,800 *	60.1	187.7	44,800 *	61.9	189.0	45,900	80
85	55.0	182.1	41,100 *	57.6	184.7	43,100 *	59.4	186.2	42,500	85
90	52.3	178.4	39,500 *	54.9	181.3	40,400	56.8	183.1	39,500	90
95	49.5	174.3	38,000 *	52.2	177.6	37,700	54.1	179.7	36,800	95
100	46.5	169.8	36,500	49.3	173.6	35,300	51.4	175.9	34,400	100
105	43.4	164.8	34,200	46.4	169.0	33,100	48.5	171.7	32,300	105
110	40.1	159.2	32,200	43.2	164.0	31,100	45.5	167.0	30,400	110
115	36.5	152.9	30,300	39.9	158.4	29,400	42.3	161.8	28,600	115
120	32.6	145.6	28,700	36.3	152.0	27,700	38.9	156.0	27,000	120
125	28.3	137.1	27,100	32.4	144.7	26,200	35.2	149.3	25,600	125
130	23.2	126.7	25,700	28.1	136.1	24,900	31.2	141.7	24,200	130
135	16.7	113.0	23,900 *	22.9	125.6	23,600	26.7	132.7	23,000	135
140	5.1	87.0	18,900 *	16.4	111.7	22,400	21.2	121.4	21,800	140
145				3.8	83.6	19,800 *	14.0	105.7	20,700	145
150										150
155										155
160										160
165										165



# MLC165 S-2

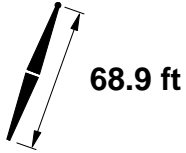
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.3	188.0	40,700							85
90	59.8	185.2	37,800							90
95	57.2	182.1	35,300							95
100	54.6	178.8	33,000	57.6	180.6	31,500				100
105	51.8	175.0	30,900	54.9	177.2	29,600				105
110	49.0	170.9	29,100	52.2	173.6	27,800				110
115	46.0	166.3	27,400	49.4	169.5	26,200	52.5	171.4	25,000	115
120	42.8	161.2	25,900	46.4	164.9	24,700	49.6	167.4	23,600	120
125	39.5	155.5	24,500	43.3	159.9	23,300	46.7	162.9	22,300	125
130	35.9	149.0	23,200	39.9	154.3	22,100	43.6	157.9	21,100	130
135	31.9	141.6	22,000	36.4	147.9	21,000	40.3	152.4	20,000	135
140	27.5	132.8	20,900	32.5	140.6	19,900	36.7	146.1	19,000	140
145	22.2	122.0	19,800	28.1	132.1	18,900	32.9	138.9	18,000	145
150	15.4	107.3	18,800	23.0	121.6	18,000	28.6	130.5	17,100	150
155				16.5	107.7	17,100	23.5	120.2	16,300	155
160				4.1	80.1	16,200	17.2	106.8	15,500	160
165							6.4	82.9	14,700	165

# MLC165 S-2

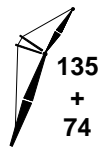
ASME B30.5



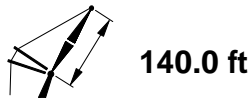
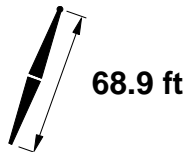
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.6	209.8	47,700 *b							50
55	71.5	208.3	46,700 *b							55
60	69.3	206.5	45,900 *b							60
65	67.1	204.5	44,500 *	69.2	205.8	46,100 *				65
70	64.9	202.3	42,700 *	67.0	203.8	44,600 *				70
75	62.6	199.8	40,900 *	64.8	201.6	42,800 *	66.3	202.5	43,900 *	75
80	60.2	197.1	39,200 *	62.5	199.1	41,100 *	64.1	200.2	42,200 *	80
85	57.9	194.1	37,500 *	60.1	196.4	39,300 *	61.8	197.7	40,500 *	85
90	55.4	190.8	36,000 *	57.7	193.4	37,700 *	59.4	194.9	38,900 *	90
95	52.9	187.2	34,500 *	55.3	190.0	36,200 *	57.0	191.8	36,500 *	95
100	50.3	183.2	33,000 *	52.8	186.4	34,700 *	54.6	188.4	34,100 *	100
105	47.6	178.8	31,700 *	50.1	182.4	32,800 *	52.0	184.7	32,000 *	105
110	44.7	174.0	30,400 *	47.4	178.1	30,900 *	49.4	180.6	30,100 *	110
115	41.7	168.7	29,100 *	44.6	173.2	29,100 *	46.6	176.1	28,300 *	115
120	38.5	162.8	28,000 *	41.6	167.9	27,500 *	43.7	171.1	26,800 *	120
125	35.1	156.1	26,800 *	38.4	161.9	26,000 *	40.7	165.6	25,300 *	125
130	31.4	148.5	25,500 *	35.0	155.2	24,600 *	37.4	159.4	24,000 *	130
135	27.2	139.6	24,200 *	31.2	147.5	23,400 *	33.9	152.4	22,700 *	135
140	22.3	128.7	23,000 *	27.0	138.6	22,200 *	30.1	144.4	21,600 *	140
145	16.1	114.4	21,100 *	22.1	127.6	21,100 *	25.7	135.0	20,500 *	145
150	4.9	87.5	16,700 *	15.8	113.1	20,100 *	20.5	123.3	19,500 *	150
155				3.7	83.9	17,500 *	13.4	106.9	18,600 *	155
160										160
165										165
170										170
175										175

# MLC165 S-2

ASME B30.5



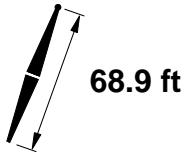
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.2	196.6	37,500							90
95	59.8	193.9	34,900							95
100	57.4	190.8	32,700							100
105	55.0	187.5	30,600	57.8	189.2	29,200				105
110	52.4	183.8	28,800	55.3	185.9	27,500				110
115	49.8	179.8	27,100	52.8	182.3	25,800				115
120	47.1	175.3	25,600	50.2	178.3	24,400				120
125	44.2	170.4	24,200	47.5	174.0	23,000	50.4	176.3	21,900	125
130	41.2	165.0	22,900	44.6	169.1	21,800	47.7	171.9	20,700	130
135	38.0	159.0	21,700	41.6	163.8	20,700	44.9	167.1	19,600	135
140	34.5	152.2	20,600	38.4	157.8	19,600	41.9	161.9	18,600	140
145	30.7	144.4	19,600	35.0	151.1	18,600	38.7	156.0	17,700	145
150	26.5	135.2	18,600	31.3	143.5	17,700	35.4	149.3	16,800	150
155	21.4	123.9	17,700	27.1	134.5	16,800	31.6	141.8	16,000	155
160	14.8	108.6	16,900	22.2	123.6	16,000	27.5	133.0	15,200	160
165				15.9	109.1	15,300	22.7	122.3	14,500	165
170				4.0	80.5	14,500	16.6	108.3	13,800	170
175							6.2	83.4	13,100	175

# MLC165 S-2

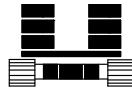
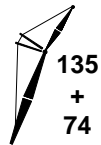
ASME B30.5



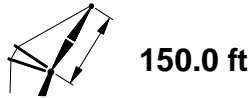
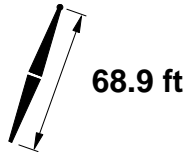
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.7	220.2	44,600 *b							50
55	72.7	218.8	43,700 *b							55
60	70.7	217.1	42,900 *b							60
65	68.7	215.3	41,100 *	70.6	216.5	42,800 *				65
70	66.6	213.2	39,400 *	68.6	214.6	41,100 *				70
75	64.5	211.0	37,700 *	66.5	212.6	39,400 *				75
80	62.4	208.5	36,100 *	64.4	210.3	37,800 *	65.9	211.3	38,900 *	80
85	60.2	205.7	34,500 *	62.3	207.8	36,200 *	63.8	208.9	37,300 *	85
90	58.0	202.7	33,000 *	60.1	205.0	34,600 *	61.7	206.4	35,700 *	90
95	55.7	199.5	31,600 *	57.9	202.0	33,100 *	59.5	203.5	34,200 *	95
100	53.4	195.9	30,100 *	55.6	198.7	31,700 *	57.2	200.5	32,700 *	100
105	51.0	192.0	28,900 *	53.3	195.2	30,300 *	54.9	197.1	31,400 *	105
110	48.5	187.8	27,500 *	50.8	191.3	29,000 *	52.6	193.4	30,000	110
115	45.8	183.2	26,300 *	48.3	187.0	27,700 *	50.1	189.4	28,200	115
120	43.1	178.1	25,200 *	45.7	182.4	26,500 *	47.6	185.1	26,700	120
125	40.2	172.4	24,100 *	43.0	177.2	25,300 *	44.9	180.3	25,200	125
130	37.2	166.2	23,000 *	40.1	171.6	24,200 *	42.2	175.0	23,900	130
135	33.9	159.2	22,100 *	37.1	165.3	23,200 *	39.2	169.2	22,700	135
140	30.3	151.2	21,200 *	33.8	158.3	22,100	36.1	162.7	21,500	140
145	26.3	142.0	20,300 *	30.1	150.3	21,100	32.7	155.4	20,500	145
150	21.6	130.7	19,500 *	26.1	140.9	20,000	29.0	147.1	19,500	150
155	15.6	115.8	18,800 *	21.3	129.5	19,100	24.8	137.2	18,600	155
160	4.7	87.9	14,900 *	15.3	114.4	18,200	19.8	125.0	17,700	160
165				3.5	84.2	15,700 *	13.0	108.0	16,900	165
170										170
175										175
180										180
185										185

# MLC165 S-2

ASME B30.5



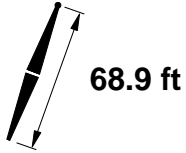
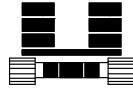
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.0	205.3	34,800							95
100	59.9	202.5	32,500							100
105	57.6	199.5	30,500							105
110	55.3	196.2	28,600	57.9	197.9	27,300				110
115	53.0	192.6	27,000	55.6	194.6	25,700				115
120	50.5	188.6	25,500	53.3	191.1	24,300				120
125	48.0	184.3	24,100	50.9	187.2	22,900				125
130	45.4	179.6	22,800	48.4	182.9	21,700	51.1	185.1	20,600	130
135	42.6	174.4	21,600	45.8	178.3	20,600	48.6	180.9	19,500	135
140	39.7	168.7	20,500	43.0	173.2	19,500	46.0	176.3	18,500	140
145	36.7	162.4	19,500	40.1	167.5	18,500	43.3	171.2	17,600	145
150	33.3	155.2	18,600	37.1	161.3	17,600	40.4	165.6	16,700	150
155	29.7	147.1	17,700	33.8	154.2	16,800	37.4	159.4	15,900	155
160	25.5	137.5	16,800	30.2	146.2	16,000	34.1	152.5	15,100	160
165	20.7	125.8	16,100	26.1	136.9	15,200	30.5	144.6	14,400	165
170	14.3	109.9	15,300	21.4	125.5	14,500	26.5	135.4	13,800	170
175				15.3	110.5	13,800	21.9	124.3	13,100	175
180				3.8	80.8	13,200	16.0	109.7	12,500	180
185							6.0	83.9	11,900	185

# MLC165 S-2

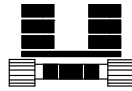
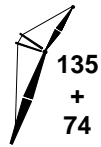
ASME B30.5



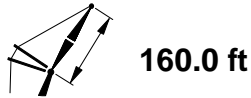
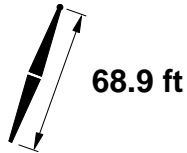
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.9	229.2	40,700 *b							55
60	72.0	227.7	39,300 *b							60
65	70.1	226.0	37,700 *							65
70	68.2	224.1	36,000 *	70.0	225.3	37,600 *				70
75	66.2	222.0	34,400 *	68.1	223.4	36,000 *				75
80	64.3	219.7	32,800 *	66.1	221.3	34,400 *	67.5	222.2	35,400 *	80
85	62.3	217.1	31,300 *	64.2	219.0	32,900 *	65.6	220.0	33,800 *	85
90	60.2	214.4	29,900 *	62.2	216.4	31,400 *	63.6	217.6	32,400 *	90
95	58.1	211.4	28,400 *	60.1	213.7	29,900 *	61.6	215.0	31,000 *	95
100	56.0	208.2	27,100 *	58.0	210.7	28,500 *	59.5	212.2	29,500 *	100
105	53.8	204.7	25,800 *	55.9	207.4	27,200 *	57.4	209.1	28,200 *	105
110	51.6	200.8	24,600 *	53.7	203.9	25,900 *	55.3	205.8	26,900 *	110
115	49.2	196.7	23,400 *	51.4	200.1	24,700 *	53.1	202.2	25,600 *	115
120	46.8	192.2	22,200 *	49.1	195.9	23,500 *	50.8	198.3	24,400 *	120
125	44.3	187.3	21,100 *	46.7	191.4	22,300 *	48.4	194.0	23,200 *	125
130	41.7	181.9	20,200 *	44.2	186.5	21,300 *	46.0	189.4	22,100 *	130
135	38.9	176.0	19,200 *	41.6	181.1	20,200 *	43.4	184.3	21,000 *	135
140	36.0	169.5	18,200 *	38.8	175.2	19,200 *	40.8	178.8	20,000 *	140
145	32.8	162.2	17,400 *	35.8	168.6	18,300 *	38.0	172.7	19,000 *	145
150	29.3	153.9	16,500 *	32.7	161.3	17,500 *	34.9	165.9	18,100 *	150
155	25.4	144.3	15,700 *	29.2	152.9	16,600 *	31.7	158.3	17,200 *	155
160	20.9	132.6	15,100 *	25.2	143.2	15,900 *	28.1	149.6	16,400 *	160
165	15.1	117.2	14,300 *	20.7	131.4	15,100 *	24.0	139.4	15,700 *	165
170	4.6	88.3	13,200 *	14.8	115.7	14,400 *	19.1	126.7	15,000 *	170
175				3.4	84.5	13,600 *	12.6	109.1	14,100 *	175
180										180
185										185
190										190
195										195

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



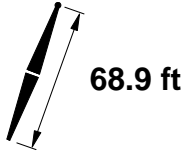
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.9	214.0	30,900 *							100
105	59.9	211.2	29,600 *							105
110	57.8	208.2	28,200 *							110
115	55.6	204.9	26,700							115
120	53.4	201.3	25,200	55.9	203.3	23,900				120
125	51.2	197.4	23,800	53.7	199.8	22,600				125
130	48.8	193.2	22,500	51.5	196.0	21,400				130
135	46.4	188.7	21,300	49.1	191.8	20,200	51.7	193.9	19,200	135
140	43.9	183.7	20,200	46.7	187.3	19,200	49.4	189.8	18,200	140
145	41.2	178.3	19,200	44.2	182.4	18,200	47.0	185.3	17,300	145
150	38.4	172.3	18,300	41.6	177.0	17,300	44.5	180.4	16,400	150
155	35.5	165.6	17,400	38.8	171.1	16,500	41.8	175.1	15,600	155
160	32.2	158.2	16,600	35.9	164.6	15,700	39.1	169.2	14,800	160
165	28.7	149.7	15,800	32.7	157.2	15,000	36.2	162.7	14,100	165
170	24.7	139.7	15,100	29.2	148.9	14,300	33.0	155.5	13,500	170
175	20.0	127.6	14,400	25.3	139.2	13,600	29.6	147.3	12,800	175
180	13.9	111.2	13,700	20.7	127.4	13,000	25.7	137.7	12,200	180
185				14.8	111.8	12,400	21.2	126.2	11,600	185
190				3.7	81.2	11,700	15.5	111.1	11,100	190
195							5.8	84.4	10,500	195

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

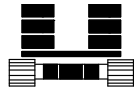
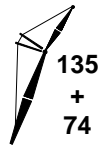


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.8	239.6	37,800 *b							55
60	73.1	238.2	36,300 *b							60
65	71.3	236.6	34,700 *							65
70	69.5	234.8	33,100 *							70
75	67.7	232.8	31,700 *	69.4	234.1	33,100 *				75
80	65.9	230.7	30,200 *	67.6	232.2	31,600 *				80
85	64.0	228.3	28,700 *	65.8	230.0	30,100 *	67.1	230.9	31,000 *	85
90	62.1	225.8	27,300 *	63.9	227.7	28,700 *	65.3	228.7	29,600 *	90
95	60.2	223.0	26,000 *	62.0	225.1	27,400 *	63.4	226.3	28,300 *	95
100	58.2	220.1	24,700 *	60.1	222.3	26,100 *	61.5	223.7	26,900 *	100
105	56.2	216.9	23,400 *	58.1	219.4	24,700 *	59.5	220.9	25,700 *	105
110	54.2	213.4	22,200 *	56.1	216.1	23,500 *	57.6	217.8	24,400 *	110
115	52.1	209.6	21,100 *	54.1	212.6	22,300 *	55.6	214.5	23,200 *	115
120	49.9	205.6	20,000 *	52.0	208.9	21,200 *	53.5	210.9	22,000 *	120
125	47.7	201.2	19,000 *	49.8	204.8	20,100 *	51.4	207.1	20,900 *	125
130	45.3	196.5	18,000 *	47.6	200.4	19,000 *	49.2	202.9	19,900 *	130
135	42.9	191.3	17,000 *	45.2	195.7	18,100 *	46.9	198.4	18,800 *	135
140	40.4	185.7	16,100 *	42.8	190.5	17,100 *	44.5	193.6	17,800 *	140
145	37.7	179.5	15,300 *	40.3	184.8	16,200 *	42.1	188.2	16,900 *	145
150	34.9	172.7	14,400 *	37.6	178.6	15,300 *	39.5	182.5	16,000 *	150
155	31.8	165.1	13,600 *	34.7	171.8	14,500 *	36.8	176.1	15,200 *	155
160	28.4	156.5	12,700 *	31.7	164.2	13,600 *	33.9	169.0	14,300 *	160
165	24.7	146.5	11,800 *	28.3	155.5	12,700 *	30.7	161.1	13,400 *	165
170	20.3	134.4	11,000 *	24.5	145.4	11,800 *	27.2	152.1	12,500 *	170
175	14.6	118.5	10,300 *	20.0	133.2	11,000 *	23.3	141.5	11,600 *	175
180	4.4	88.7	9,600 *	14.3	117.0	10,200 *	18.6	128.4	10,800 *	180
185				3.3	84.8	9,600 *	12.2	110.2	10,000 *	185
190										190
195										195
200										200
205										205

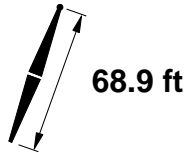


# MLC165 S-2

ASME B30.5



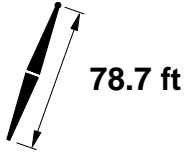
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.8	222.6	26,900 *							105
110	59.9	219.8	25,700 *							110
115	57.9	216.8	24,500 *							115
120	55.9	213.6	23,400 *							120
125	53.8	210.0	22,200 *	56.2	212.0	22,400				125
130	51.7	206.2	21,100 *	54.1	208.5	21,100				130
135	49.5	202.1	20,000 *	52.0	204.8	20,000				135
140	47.3	197.7	19,000 *	49.8	200.7	19,000	52.2	202.7	18,000	140
145	44.9	192.9	18,000 *	47.6	196.3	18,000	50.0	198.6	17,000	145
150	42.5	187.7	17,100 *	45.3	191.6	17,100	47.8	194.3	16,200	150
155	39.9	182.0	16,200 *	42.8	186.4	16,300	45.5	189.6	15,400	155
160	37.2	175.7	15,400 *	40.3	180.8	15,500	43.1	184.4	14,600	160
165	34.4	168.8	14,500 *	37.6	174.6	14,700	40.5	178.8	13,900	165
170	31.2	161.0	13,600 *	34.8	167.7	14,000	37.9	172.7	13,200	170
175	27.8	152.2	12,700 *	31.7	160.1	13,400	35.0	165.9	12,600	175
180	24.0	141.9	11,800 *	28.3	151.4	12,800	32.0	158.4	12,000	180
185	19.4	129.3	10,900 *	24.5	141.4	12,000 *	28.6	149.8	11,400	185
190	13.4	112.4	10,200 *	20.1	129.2	11,100 *	24.9	139.9	10,900	190
195				14.4	113.1	10,300 *	20.5	128.0	10,400	195
200				3.6	81.5	9,700 *	15.0	112.4	9,900	200
205							5.6	84.9	9,400	205

# MLC165 S-2

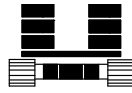
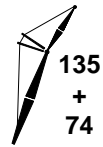
ASME B30.5



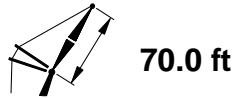
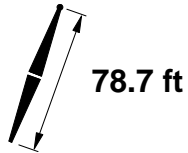
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30	74.3	152.7	109,800 *d							30
32	72.6	152.1	109,800 *d							32
34	70.8	151.5	109,800 *d							34
36	69.1	150.8	109,800 *d							36
38	67.3	150.0	107,400 *c							38
40	65.5	149.1	103,700 *c	70.4	150.7	110,300 *c				40
45	61.0	146.6	95,100 *c	66.0	148.7	100,000 b				45
50	56.2	143.5	86,800 *b	61.4	146.2	87,100 b	65.1	147.5	85,000 b	50
55	51.1	139.8	78,700 *b	56.6	143.2	77,000 b	60.5	144.9	75,200 b	55
60	45.6	135.4	71,200 b	51.6	139.6	69,000	55.7	141.8	67,300 b	60
65	39.5	129.9	64,300 b	46.1	135.2	62,300	50.6	138.1	60,800	65
70	32.6	123.1	58,500	40.1	129.9	56,700	45.0	133.5	55,300	70
75	23.9	113.8	53,300 *	33.3	123.1	52,000	38.9	128.0	50,700	75
80	9.8	97.3	48,700 *	24.9	114.2	47,800	31.9	120.9	46,700	80
85				11.8	99.1	44,200	23.0	111.3	43,200	85
90							7.2	92.7	40,000	90
95										95
100										100
105										105

# MLC165 S-2

ASME B30.5



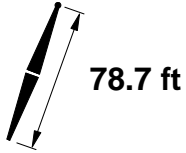
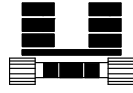
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	62.1	144.2	64,500 b							60
65	57.3	141.2	58,300 b							65
70	52.3	137.7	53,100							70
75	46.9	133.5	48,600	53.8	136.6	46,500				75
80	41.0	128.3	44,800	48.6	132.6	42,900				80
85	34.4	121.8	41,500	42.9	127.7	39,700	50.0	130.9	37,900	85
90	26.2	113.3	38,500	36.5	121.7	36,900	44.4	126.2	35,200	90
95	14.4	99.8	35,800	28.9	113.9	34,400	38.2	120.5	32,900	95
100				18.7	102.5	32,100	31.0	113.3	30,700	100
105							21.7	103.2	28,800	105

# MLC165 S-2

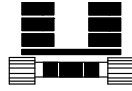
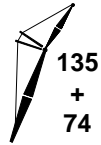
ASME B30.5



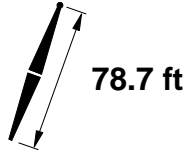
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
32	74.8	162.6	100,300 *d							32
34	73.3	162.0	100,200 *d							34
36	71.8	161.4	100,200 *d							36
38	70.3	160.7	100,100 *c							38
40	68.8	159.9	98,100 *c							40
45	64.9	157.8	92,200 *c	69.1	159.5	99,300 *b				45
50	60.8	155.2	85,300 *b	65.2	157.4	86,800 b				50
55	56.7	152.2	79,300 *b	61.2	154.8	76,800 b	64.5	156.2	74,900 b	55
60	52.3	148.6	71,000 b	57.0	151.9	68,700	60.4	153.6	67,000 b	60
65	47.6	144.4	64,100 b	52.7	148.3	62,100	56.2	150.5	60,500	65
70	42.5	139.4	58,400	48.0	144.2	56,500	51.8	146.9	55,100	70
75	36.9	133.4	53,500	43.0	139.3	51,800	47.1	142.6	50,500	75
80	30.4	125.9	49,300	37.4	133.4	47,700	42.0	137.5	46,500	80
85	22.4	115.8	45,600	31.1	126.0	44,200	36.3	131.4	43,000	85
90	9.2	98.1	41,200 *	23.2	116.3	41,000	29.8	123.7	40,000	90
95				11.1	100.1	38,200	21.5	113.3	37,300	95
100							6.7	93.3	34,700	100
105										105
110										110
115										115

# MLC165 S-2

ASME B30.5



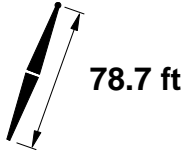
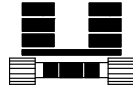
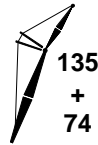
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	61.8	152.8	57,900 <b>b</b>							65
70	57.7	149.9	52,700							70
75	53.3	146.5	48,300							75
80	48.7	142.4	44,500	54.6	145.3	42,500				80
85	43.7	137.6	41,200	50.1	141.5	39,400				85
90	38.3	131.9	38,300	45.3	136.9	36,600	51.3	139.7	34,900	90
95	32.1	124.8	35,700	40.0	131.5	34,100	46.5	135.3	32,500	95
100	24.5	115.5	33,400	34.0	124.8	31,900	41.4	130.1	30,400	100
105	13.5	101.0	31,200	27.0	116.4	29,900	35.6	123.9	28,500	105
110				17.5	104.1	28,000	28.9	115.9	26,800	110
115							20.3	105.0	25,200	115

# MLC165 S-2

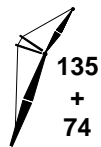
ASME B30.5



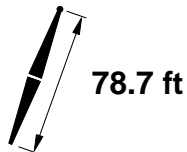
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36	73.9	171.8	90,600 *d							36
38	72.6	171.2	90,000 *d							38
40	71.2	170.6	88,400 *c							40
45	67.8	168.7	84,300 *c							45
50	64.3	166.5	80,600 *b	68.1	168.3	85,400 *b				50
55	60.8	163.9	77,100 *b	64.7	166.1	76,600 b	67.5	167.1	74,700 b	55
60	57.0	160.9	70,800 b	61.1	163.5	68,500	64.0	164.9	66,800 b	60
65	53.1	157.4	64,000 b	57.4	160.5	61,900	60.4	162.3	60,300	65
70	49.1	153.3	58,300	53.5	157.1	56,300	56.7	159.2	54,900	70
75	44.7	148.7	53,400	49.4	153.1	51,600	52.8	155.7	50,300	75
80	40.0	143.2	49,200	45.1	148.5	47,600	48.7	151.6	46,400	80
85	34.7	136.6	45,600	40.4	143.1	44,100	44.3	146.8	42,900	85
90	28.7	128.5	42,400	35.2	136.6	41,000	39.5	141.2	39,900	90
95	21.1	117.7	39,500	29.3	128.7	38,200	34.2	134.6	37,200	95
100	8.7	98.9	35,700*	21.9	118.3	35,700	28.0	126.3	34,800	100
105				10.4	101.0	33,400	20.2	115.1	32,600	105
110							6.3	93.9	30,600	110
115										115
120										120
125										125

# MLC165 S-2

ASME B30.5



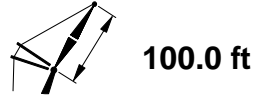
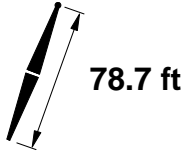
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	61.6	161.5	52,500							70
75	57.9	158.6	48,100							75
80	54.1	155.2	44,300							80
85	50.0	151.3	41,000	55.3	154.0	39,100				85
90	45.8	146.8	38,100	51.3	150.3	36,400				90
95	41.1	141.5	35,600	47.1	146.0	33,900	52.3	148.5	32,300	95
100	36.0	135.3	33,300	42.6	140.9	31,700	48.2	144.3	30,200	100
105	30.2	127.6	31,200	37.6	135.0	29,800	43.7	139.5	28,300	105
110	23.1	117.6	29,300	32.0	127.8	28,000	38.9	133.8	26,600	110
115	12.7	102.1	27,600	25.4	118.7	26,300	33.5	127.0	25,100	115
120				16.5	105.6	24,800	27.2	118.4	23,700	120
125							19.1	106.8	22,300	125

# MLC165 S-2

ASME B30.5

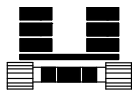
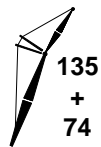


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	74.4	181.7	81,800 *d							38
40	73.2	181.1	80,300 *c							40
45	70.1	179.4	76,600 *c							45
50	67.1	177.5	73,100 *b	70.4	178.9	77,300 *b				50
55	63.9	175.2	69,800 *b	67.3	177.0	74,000 *b				55
60	60.7	172.5	66,800 *b	64.2	174.8	68,200	66.8	175.9	66,500 b	60
65	57.3	169.5	63,800 b	61.0	172.2	61,600	63.6	173.6	60,000	65
70	53.9	166.1	58,000	57.6	169.2	56,100	60.4	170.9	54,600	70
75	50.2	162.2	53,200	54.2	165.8	51,400	57.0	167.9	50,000	75
80	46.4	157.8	49,000	50.6	162.0	47,300	53.5	164.4	46,100	80
85	42.3	152.6	45,400	46.8	157.6	43,800	49.9	160.5	42,600	85
90	37.8	146.7	42,200	42.7	152.5	40,700	46.0	155.9	39,600	90
95	32.9	139.7	39,300	38.3	146.7	38,000	41.9	150.8	37,000	95
100	27.2	131.0	36,800	33.4	139.7	35,500	37.4	144.7	34,600	100
105	20.0	119.5	34,500	27.7	131.3	33,300	32.4	137.5	32,400	105
110	8.2	99.6	31,300 *	20.7	120.2	31,300	26.5	128.7	30,500	110
115				9.9	101.9	29,500	19.2	116.8	28,700	115
120							6.0	94.4	27,000	120
125										125
130										130
135										135

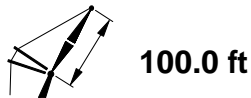
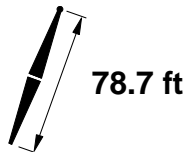


# MLC165 S-2

ASME B30.5



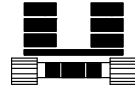
121,500 lb  
+  
35,300 lb



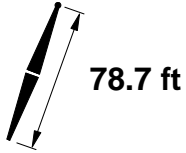
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	61.5	170.2	47,800							75
80	58.1	167.3	44,000							80
85	54.7	163.9	40,700							85
90	51.1	160.2	37,800	55.7	162.7	36,000				90
95	47.3	155.8	35,300	52.2	159.1	33,600				95
100	43.3	150.9	33,000	48.5	154.9	31,400				100
105	38.9	145.2	30,900	44.5	150.2	29,400	49.4	153.2	28,000	105
110	34.1	138.4	29,100	40.3	144.7	27,700	45.6	148.6	26,300	110
115	28.6	130.2	27,400	35.6	138.3	26,100	41.4	143.4	24,800	115
120	21.9	119.6	25,800	30.3	130.6	24,600	36.8	137.2	23,300	120
125	12.1	103.2	24,400	24.1	120.9	23,200	31.8	129.9	22,100	125
130				15.6	107.0	22,000	25.8	120.8	20,900	130
135							18.1	108.4	19,700	135

# MLC165 S-2

ASME B30.5



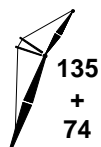
121,500 lb  
+  
35,300 lb



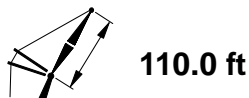
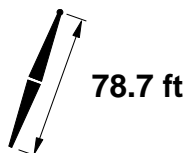
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.7	191.5	74,400 *c							40
45	72.0	190.0	71,600 *c							45
50	69.2	188.2	68,800 *b							50
55	66.4	186.2	66,200 *b	69.5	187.8	69,400 *b				55
60	63.6	183.9	63,700 *b	66.7	185.8	67,000 *				60
65	60.6	181.2	61,400 *b	63.8	183.5	61,500	66.2	184.6	59,900	65
70	57.6	178.2	58,000	60.9	180.8	56,000	63.3	182.3	54,500	70
75	54.4	174.8	53,100	57.9	177.9	51,300	60.3	179.6	49,900	75
80	51.2	171.0	49,000	54.7	174.5	47,300	57.3	176.5	46,000	80
85	47.7	166.8	45,300	51.5	170.8	43,800	54.1	173.1	42,600	85
90	44.1	161.9	42,200	48.1	166.6	40,700	50.8	169.3	39,600	90
95	40.2	156.4	39,300	44.5	161.8	38,000	47.4	165.0	36,900	95
100	36.0	150.0	36,800	40.6	156.3	35,500	43.8	160.1	34,600	100
105	31.3	142.5	34,600	36.4	150.0	33,400	39.8	154.5	32,400	105
110	25.9	133.4	32,500	31.8	142.6	31,400	35.6	148.0	30,500	110
115	19.0	121.3	30,700	26.4	133.7	29,600	30.8	140.4	28,800	115
120	7.8	100.3	26,700 *	19.8	121.9	27,900	25.3	131.0	27,200	120
125				9.4	102.7	26,400	18.3	118.5	25,700	125
130							5.7	94.9	24,300	130
135										135
140										140
145										145

# MLC165 S-2

ASME B30.5



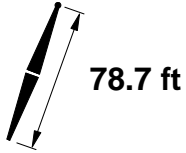
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.3	178.8	43,900							80
85	58.3	175.9	40,600							85
90	55.2	172.6	37,800							90
95	52.0	169.0	35,200	56.1	171.4	33,500				95
100	48.6	164.8	32,900	52.9	167.8	31,400				100
105	45.0	160.1	30,900	49.6	163.8	29,400				105
110	41.2	154.7	29,100	46.1	159.3	27,600	50.5	162.1	26,200	110
115	37.1	148.6	27,400	42.3	154.2	26,100	47.0	157.7	24,700	115
120	32.5	141.4	25,900	38.3	148.3	24,600	43.3	152.7	23,300	120
125	27.3	132.7	24,500	33.9	141.4	23,300	39.4	147.0	22,100	125
130	20.9	121.5	23,200	28.9	133.2	22,000	35.1	140.5	20,900	130
135	11.5	104.3	21,900	22.9	122.9	20,900	30.2	132.7	19,800	135
140				14.9	108.4	19,800	24.6	123.0	18,800	140
145							17.3	110.0	17,800	145

# MLC165 S-2

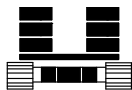
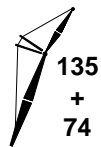
ASME B30.5



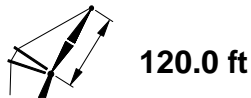
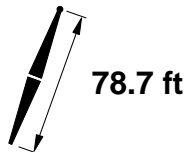
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.6	200.5	66,200 *c							45
50	71.0	198.9	63,600 *b							50
55	68.5	197.0	61,100 *b							55
60	65.9	194.9	58,700 *b	68.7	196.6	61,600 *				60
65	63.3	192.5	56,400 *	66.2	194.5	59,400 *				65
70	60.6	189.9	54,300 *	63.5	192.1	55,700	65.7	193.3	54,200	70
75	57.8	186.9	52,100 *	60.8	189.5	51,000	63.0	190.9	49,600	75
80	54.9	183.6	48,700	58.0	186.5	47,000	60.3	188.2	45,700	80
85	51.9	179.8	45,100	55.2	183.2	43,500	57.5	185.2	42,300	85
90	48.8	175.7	41,900	52.2	179.6	40,400	54.6	181.9	39,300	90
95	45.6	171.1	39,100	49.1	175.5	37,700	51.7	178.1	36,600	95
100	42.1	165.9	36,600	45.9	170.9	35,300	48.5	173.9	34,300	100
105	38.5	160.0	34,400	42.5	165.8	33,100	45.3	169.2	32,200	105
110	34.4	153.2	32,300	38.8	159.9	31,200	41.8	164.0	30,300	110
115	29.9	145.3	30,500	34.8	153.2	29,400	38.1	158.0	28,500	115
120	24.8	135.6	28,800	30.4	145.4	27,700	34.0	151.1	26,900	120
125	18.2	122.9	27,200	25.3	136.0	26,200	29.5	143.1	25,500	125
130	7.5	101.0	23,600 *	18.9	123.6	24,900	24.2	133.2	24,100	130
135				9.0	103.5	23,500	17.5	120.1	22,900	135
140							5.5	95.4	21,700	140
145										145
150										150
155										155

# MLC165 S-2

ASME B30.5



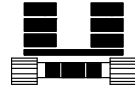
121,500 lb  
+  
35,300 lb



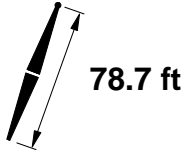
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.2	187.5	40,300							85
90	58.4	184.6	37,400							90
95	55.6	181.3	34,900							95
100	52.7	177.7	32,600	56.5	180.1	31,000				100
105	49.6	173.7	30,600	53.5	176.6	29,100				105
110	46.4	169.2	28,800	50.5	172.7	27,300				110
115	43.0	164.1	27,100	47.4	168.3	25,700	51.3	170.9	24,400	115
120	39.4	158.4	25,600	44.0	163.5	24,300	48.2	166.7	23,000	120
125	35.4	151.9	24,200	40.5	157.9	23,000	44.9	161.9	21,700	125
130	31.1	144.2	22,900	36.6	151.7	21,700	41.4	156.6	20,600	130
135	26.1	135.1	21,700	32.4	144.4	20,600	37.6	150.5	19,500	135
140	20.0	123.3	20,600	27.6	135.8	19,600	33.5	143.6	18,500	140
145	11.0	105.2	19,600	22.0	124.9	18,600	28.9	135.3	17,500	145
150				14.3	109.6	17,600	23.5	125.2	16,700	150
155							16.6	111.4	15,800	155

# MLC165 S-2

ASME B30.5



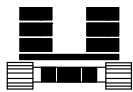
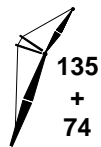
121,500 lb  
+  
35,300 lb



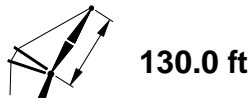
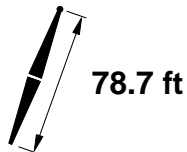
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	74.8	210.8	51,200 *c						45	
50	72.6	209.4	50,200 *b						50	
55	70.2	207.7	49,200 *b						55	
60	67.9	205.8	48,300 *b	70.4	207.2	49,600 *			60	
65	65.5	203.6	47,400 *b	68.1	205.3	48,800 *			65	
70	63.0	201.2	46,500 *	65.7	203.2	48,100 *	67.6	204.2	48,400 *	70
75	60.5	198.5	44,600 *	63.2	200.8	46,900 *	65.2	202.0	47,900 *	75
80	58.0	195.6	42,900 *	60.8	198.2	45,100 *	62.8	199.6	45,500	80
85	55.3	192.3	41,200 *	58.2	195.2	43,300	60.3	196.9	42,100	85
90	52.6	188.6	39,600 *	55.6	191.9	40,200	57.7	193.9	39,100	90
95	49.8	184.6	38,100 *	52.8	188.3	37,500	55.1	190.6	36,400	95
100	46.8	180.1	36,400	50.0	184.4	35,100	52.3	186.9	34,100	100
105	43.7	175.2	34,200	47.1	179.9	32,900	49.5	182.8	32,000	105
110	40.4	169.6	32,200	44.0	175.0	31,000	46.5	178.3	30,100	110
115	36.9	163.4	30,300	40.7	169.5	29,200	43.4	173.3	28,300	115
120	33.0	156.2	28,700	37.2	163.4	27,600	40.1	167.7	26,800	120
125	28.7	147.9	27,100	33.4	156.3	26,100	36.5	161.4	25,300	125
130	23.8	137.8	25,700	29.2	148.1	24,700	32.7	154.1	24,000	130
135	17.5	124.5	24,400	24.3	138.2	23,500	28.3	145.6	22,800	135
140	7.2	101.6	21,100 *	18.2	125.3	22,300	23.2	135.3	21,600	140
145				8.7	104.3	21,100	16.8	121.6	20,500	145
150							5.2	95.9	19,500	150
155										155
160										160
165										165

# MLC165 S-2

ASME B30.5



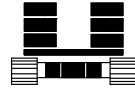
121,500 lb  
+  
35,300 lb



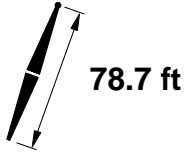
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.1	196.2	37,200							90
95	58.6	193.2	34,700							95
100	55.9	190.0	32,400							100
105	53.2	186.5	30,400	56.7	188.8	28,800				105
110	50.4	182.6	28,600	54.1	185.3	27,100				110
115	47.5	178.2	26,900	51.3	181.5	25,500				115
120	44.5	173.4	25,400	48.4	177.3	24,100	52.0	179.7	22,700	120
125	41.2	168.0	24,000	45.4	172.6	22,700	49.2	175.6	21,500	125
130	37.7	161.9	22,700	42.2	167.4	21,500	46.2	171.0	20,300	130
135	34.0	155.0	21,600	38.8	161.5	20,400	43.0	166.0	19,300	135
140	29.8	147.0	20,500	35.1	154.9	19,400	39.7	160.3	18,300	140
145	25.0	137.3	19,500	31.1	147.2	18,400	36.1	153.9	17,300	145
150	19.2	125.0	18,500	26.5	138.2	17,500	32.2	146.5	16,500	150
155	10.6	106.2	17,600	21.1	126.8	16,600	27.8	137.8	15,700	155
160				13.7	110.9	15,800	22.6	127.2	14,900	160
165							15.9	112.9	14,200	165

# MLC165 S-2

ASME B30.5



+  
35,300 lb

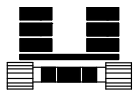
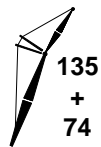


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.8	219.8	47,000 *c							50
55	71.7	218.3	46,100 *b							55
60	69.5	216.5	45,300 *b							60
65	67.3	214.5	44,400 *	69.7	216.1	45,600 *				65
70	65.1	212.3	42,600 *	67.5	214.1	44,700 *				70
75	62.8	209.9	40,900 *	65.3	211.9	43,000 *	67.1	213.0	44,200 *	75
80	60.5	207.2	39,200 *	63.0	209.5	41,300 *	64.9	210.7	42,600 *	80
85	58.1	204.2	37,600 *	60.7	206.8	39,700 *	62.6	208.3	40,900 *	85
90	55.7	201.0	36,100 *	58.3	203.9	38,100 *	60.3	205.6	38,800 *	90
95	53.1	197.4	34,600 *	55.9	200.6	36,500 *	57.9	202.6	36,100 *	95
100	50.5	193.5	33,200 *	53.4	197.1	34,800 *	55.4	199.3	33,800 *	100
105	47.8	189.1	31,800 *	50.8	193.2	32,600 *	52.9	195.7	31,700 *	105
110	45.0	184.4	30,500 *	48.1	188.9	30,700 *	50.3	191.7	29,800 *	110
115	42.0	179.1	29,300 *	45.3	184.2	28,900 *	47.6	187.3	28,000 *	115
120	38.9	173.2	28,100 *	42.3	179.0	27,300 *	44.7	182.5	26,500 *	120
125	35.5	166.7	26,900 *	39.2	173.2	25,800 *	41.7	177.2	25,000 *	125
130	31.8	159.2	25,500 *	35.8	166.7	24,500 *	38.6	171.3	23,700 *	130
135	27.7	150.4	24,200 *	32.2	159.3	23,200 *	35.2	164.6	22,500 *	135
140	22.9	139.8	23,000 *	28.1	150.6	22,100 *	31.4	157.0	21,400 *	140
145	16.9	126.0	21,700 *	23.4	140.3	21,000 *	27.3	148.1	20,300 *	145
150	6.9	102.3	18,700 *	17.5	126.8	19,900 *	22.4	137.3	19,300 *	150
155				8.4	105.1	19,000 *	16.2	123.0	18,400 *	155
160							5.1	96.3	17,500 *	160
165										165
170										170
175										175

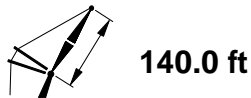
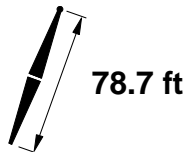


# MLC165 S-2

ASME B30.5



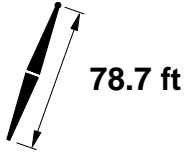
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.0	204.8	34,300							95
100	58.7	201.9	32,100							100
105	56.2	198.7	30,100							105
110	53.7	195.2	28,200	57.0	197.5	26,700				110
115	51.2	191.4	26,600	54.5	194.0	25,100				115
120	48.5	187.2	25,100	51.9	190.3	23,700				120
125	45.7	182.5	23,700	49.3	186.2	22,400	52.6	188.5	21,100	125
130	42.8	177.4	22,400	46.5	181.7	21,200	50.0	184.5	20,000	130
135	39.7	171.7	21,300	43.7	176.7	20,100	47.3	180.1	18,900	135
140	36.3	165.3	20,200	40.6	171.2	19,000	44.4	175.2	17,900	140
145	32.7	158.0	19,200	37.3	165.0	18,100	41.4	169.8	17,000	145
150	28.7	149.6	18,300	33.8	158.0	17,200	38.2	163.8	16,200	150
155	24.1	139.5	17,400	30.0	150.0	16,400	34.8	157.1	15,400	155
160	18.5	126.7	16,500	25.6	140.5	15,600	31.0	149.3	14,600	160
165	10.2	107.1	15,700	20.3	128.7	14,800	26.7	140.3	13,900	165
170				13.2	112.0	14,100	21.8	129.2	13,200	170
175							15.3	114.2	12,600	175

# MLC165 S-2

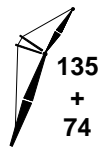
ASME B30.5



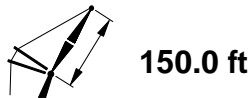
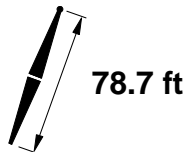
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.9	230.2	44,000 *c							50
55	73.0	228.8	43,100 *b							55
60	70.9	227.1	42,400 *b							60
65	68.9	225.3	41,100 *							65
70	66.8	223.3	39,400 *	69.1	224.9	41,200 *				70
75	64.8	221.0	37,700 *	67.0	222.8	39,600 *				75
80	62.6	218.6	36,200 *	64.9	220.6	38,000 *	66.6	221.7	39,200 *	80
85	60.5	215.9	34,600 *	62.8	218.2	36,400 *	64.6	219.4	37,600 *	85
90	58.2	212.9	33,100 *	60.7	215.5	35,000 *	62.4	217.0	36,100 *	90
95	56.0	209.7	31,700 *	58.4	212.5	33,400 *	60.2	214.2	34,600 *	95
100	53.6	206.1	30,300 *	56.2	209.3	32,000 *	58.0	211.2	33,200 *	100
105	51.2	202.3	29,000 *	53.8	205.8	30,700 *	55.7	208.0	31,600 *	105
110	48.7	198.1	27,700 *	51.4	202.0	29,300 *	53.4	204.4	29,700 *	110
115	46.1	193.5	26,500 *	48.9	197.8	28,000 *	51.0	200.5	27,900 *	115
120	43.4	188.4	25,300 *	46.4	193.3	26,800 *	48.5	196.3	26,400 *	120
125	40.5	182.9	24,200 *	43.7	188.3	25,600 *	45.9	191.7	24,900 *	125
130	37.5	176.7	23,200 *	40.8	182.8	24,400 *	43.1	186.6	23,600 *	130
135	34.3	169.8	22,200 *	37.8	176.7	23,200 *	40.3	181.0	22,400 *	135
140	30.7	161.9	21,300 *	34.6	169.8	22,000 *	37.2	174.7	21,300 *	140
145	26.7	152.8	20,400 *	31.0	162.1	20,900 *	33.9	167.7	20,200 *	145
150	22.1	141.8	19,700 *	27.1	153.1	19,900 *	30.3	159.8	19,300 *	150
155	16.3	127.4	19,000 *	22.6	142.3	19,000 *	26.3	150.5	18,400 *	155
160	6.7	102.9	16,800 *	16.9	128.4	18,100 *	21.6	139.2	17,500 *	160
165				8.1	105.8	17,200 *	15.6	124.4	16,700 *	165
170							4.9	96.8	15,900 *	170
175										175
180										180
185										185

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



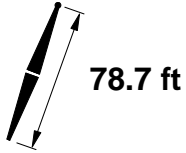
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.0	213.5	32,000							100
105	58.8	210.6	29,900							105
110	56.5	207.4	28,100							110
115	54.2	203.9	26,500	57.2	206.1	25,000				115
120	51.8	200.2	25,000	54.9	202.8	23,600				120
125	49.3	196.1	23,600	52.5	199.1	22,300				125
130	46.7	191.6	22,300	50.1	195.1	21,100				130
135	44.1	186.6	21,200	47.5	190.7	20,000	50.7	193.3	18,800	135
140	41.2	181.2	20,100	44.9	185.9	19,000	48.2	189.0	17,800	140
145	38.3	175.2	19,100	42.1	180.6	18,000	45.6	184.4	16,900	145
150	35.1	168.5	18,200	39.2	174.8	17,100	42.8	179.2	16,100	150
155	31.6	160.9	17,300	36.0	168.3	16,300	39.9	173.5	15,300	155
160	27.7	152.1	16,500	32.6	161.0	15,500	36.9	167.2	14,500	160
165	23.3	141.6	15,700	28.9	152.6	14,800	33.5	160.1	13,800	165
170	17.8	128.3	15,000	24.7	142.7	14,100	29.9	152.0	13,200	170
175	9.8	108.0	14,300	19.6	130.4	13,400	25.8	142.6	12,600	175
180				12.8	113.2	12,800	21.0	131.0	12,000	180
185							14.8	115.6	11,400	185

# MLC165 S-2

ASME B30.5



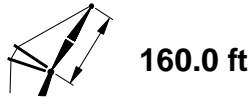
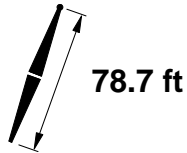
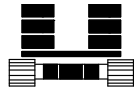
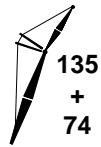
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.0	239.2	40,200 *b							55
60	72.2	237.7	39,100 *b							60
65	70.3	236.0	37,600 *							65
70	68.4	234.1	35,900 *	70.5	235.5	37,600 *				70
75	66.4	232.0	34,400 *	68.5	233.6	36,100 *				75
80	64.5	229.7	32,900 *	66.6	231.6	34,600 *				80
85	62.5	227.2	31,400 *	64.6	229.3	33,100 *	66.2	230.4	34,200 *	85
90	60.4	224.5	30,000 *	62.6	226.8	31,700 *	64.3	228.1	32,700 *	90
95	58.3	221.6	28,600 *	60.6	224.1	30,200 *	62.3	225.6	31,400 *	95
100	56.2	218.3	27,200 *	58.5	221.2	28,800 *	60.2	222.9	29,900 *	100
105	54.0	214.9	25,900 *	56.4	218.0	27,500 *	58.1	219.9	28,600 *	105
110	51.8	211.1	24,700 *	54.2	214.6	26,200 *	56.0	216.7	27,300 *	110
115	49.5	207.0	23,500 *	52.0	210.8	25,000 *	53.8	213.1	26,000 *	115
120	47.1	202.5	22,400 *	49.7	206.7	23,800 *	51.6	209.3	24,800 *	120
125	44.6	197.7	21,300 *	47.3	202.3	22,600 *	49.2	205.2	23,600 *	125
130	42.0	192.3	20,300 *	44.8	197.5	21,600 *	46.8	200.7	22,500 *	130
135	39.2	186.5	19,300 *	42.2	192.2	20,500 *	44.3	195.8	21,400 *	135
140	36.3	180.0	18,400 *	39.5	186.4	19,500 *	41.7	190.4	20,400 *	140
145	33.1	172.8	17,500 *	36.6	180.0	18,500 *	38.9	184.6	19,400 *	145
150	29.7	164.6	16,700 *	33.4	172.9	17,700 *	36.0	178.0	18,500 *	150
155	25.9	155.2	15,900 *	30.0	164.8	16,900 *	32.8	170.7	17,600 *	155
160	21.4	143.7	15,200 *	26.2	155.5	16,100 *	29.4	162.4	16,800 *	160
165	15.8	128.9	14,500 *	21.8	144.3	15,300 *	25.5	152.8	16,000 *	165
170	6.5	103.4	13,600 *	16.4	129.8	14,700 *	20.9	141.1	15,300 *	170
175				7.8	106.5	13,800 *	15.1	125.8	14,500 *	175
180							4.7	97.2	13,700 *	180
185										185
190										190
195										195

# MLC165 S-2

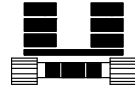
ASME B30.5



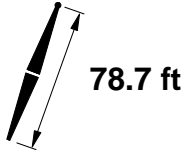
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.9	224.8	31,400*							100
105	60.9	222.1	29,600							105
110	58.8	219.2	27,800							110
115	56.7	216.1	26,200							115
120	54.6	212.7	24,700	57.4	214.8	23,300				120
125	52.3	209.0	23,300	55.2	211.5	22,000				125
130	50.0	204.9	22,000	53.0	207.8	20,800				130
135	47.6	200.6	20,900	50.7	203.9	19,700				135
140	45.2	195.8	19,800	48.4	199.7	18,600	51.3	202.1	17,500	140
145	42.6	190.6	18,800	45.9	195.0	17,700	49.0	198.0	16,600	145
150	39.9	184.9	17,900	43.4	190.0	16,800	46.6	193.4	15,700	150
155	37.0	178.6	17,000	40.7	184.4	16,000	44.0	188.5	14,900	155
160	33.9	171.6	16,200	37.9	178.3	15,200	41.4	183.1	14,200	160
165	30.5	163.6	15,500	34.9	171.5	14,500	38.6	177.1	13,500	165
170	26.8	154.5	14,700	31.6	163.9	13,800	35.6	170.5	12,900	170
175	22.5	143.6	14,100	28.0	155.1	13,200	32.4	163.1	12,300	175
180	17.3	129.8	13,400	23.9	144.9	12,500	28.9	154.7	11,700	180
185	9.5	108.8	12,800	19.0	132.1	12,000	25.0	144.8	11,100	185
190				12.3	114.3	11,400	20.3	132.9	10,600	190
195							14.3	116.8	10,100	195

# MLC165 S-2

ASME B30.5



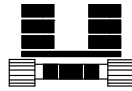
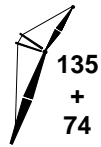
121,500 lb  
+  
35,300 lb



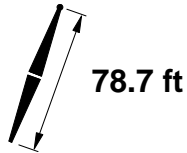
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.3	248.2	36,100 *b							60
65	71.5	246.6	34,700 *							65
70	69.7	244.8	33,100 *							70
75	67.9	242.9	31,600 *	69.9	244.3	33,200 *				75
80	66.1	240.7	30,200 *	68.1	242.4	31,800 *				80
85	64.2	238.4	28,800 *	66.2	240.3	30,400 *	67.7	241.3	31,300 *	85
90	62.3	235.9	27,400 *	64.4	238.0	29,000 *	65.9	239.2	30,000 *	90
95	60.4	233.2	26,100 *	62.5	235.5	27,600 *	64.0	236.8	28,600 *	95
100	58.4	230.2	24,800 *	60.6	232.8	26,300 *	62.1	234.3	27,400 *	100
105	56.4	227.0	23,600 *	58.6	229.9	25,000 *	60.2	231.5	26,000 *	105
110	54.4	223.6	22,400 *	56.6	226.7	23,800 *	58.3	228.6	24,800 *	110
115	52.3	219.9	21,300 *	54.6	223.3	22,600 *	56.2	225.3	23,600 *	115
120	50.1	215.8	20,100 *	52.5	219.6	21,500 *	54.2	221.9	22,500 *	120
125	47.9	211.5	19,100 *	50.3	215.6	20,400 *	52.1	218.1	21,300 *	125
130	45.6	206.8	18,100 *	48.1	211.3	19,300 *	49.9	214.1	20,200 *	130
135	43.2	201.7	17,200 *	45.8	206.6	18,400 *	47.7	209.7	19,200 *	135
140	40.7	196.1	16,300 *	43.4	201.5	17,400 *	45.4	205.0	18,200 *	140
145	38.0	190.0	15,400 *	40.9	196.0	16,500 *	42.9	199.8	17,200 *	145
150	35.2	183.3	14,600 *	38.2	190.0	15,600 *	40.4	194.2	16,400 *	150
155	32.1	175.8	13,800 *	35.4	183.3	14,700 *	37.7	188.0	15,500 *	155
160	28.8	167.3	12,800 *	32.4	175.9	14,000 *	34.9	181.2	14,700 *	160
165	25.1	157.4	11,900 *	29.1	167.5	13,000 *	31.8	173.6	13,800 *	165
170	20.7	145.6	11,100 *	25.4	157.8	12,100 *	28.5	165.0	12,800 *	170
175	15.3	130.2	10,300 *	21.2	146.2	11,200 *	24.7	155.0	11,900 *	175
180	6.3	104.0	9,700 *	15.9	131.2	10,400 *	20.3	142.9	11,100 *	180
185				7.6	107.2	9,800 *	14.7	127.1	10,300 *	185
190							4.6	97.6	9,700 *	190
195										195
200										200
205										205

# MLC165 S-2

ASME B30.5



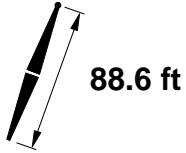
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.8	233.5	27,400 *							105
110	60.9	230.8	26,300 *							110
115	58.9	227.9	25,100 *							115
120	56.9	224.8	23,900 *							120
125	54.9	221.4	22,800 *	57.5	223.5	21,700				125
130	52.8	217.7	21,600 *	55.5	220.2	20,500				130
135	50.6	213.8	20,600 *	53.4	216.6	19,400				135
140	48.4	209.5	19,600 *	51.3	212.7	18,400				140
145	46.1	204.9	18,600 *	49.1	208.6	17,400	51.8	210.9	16,300	145
150	43.8	199.9	17,600 *	46.8	204.1	16,600	49.7	206.9	15,500	150
155	41.3	194.4	16,700 *	44.5	199.2	15,700	47.4	202.4	14,700	155
160	38.6	188.5	15,800 *	42.0	193.9	15,000	45.1	197.6	14,000	160
165	35.9	181.9	15,000 *	39.4	188.1	14,300	42.7	192.4	13,300	165
170	32.9	174.6	14,200 *	36.7	181.7	13,600	40.1	186.8	12,600	170
175	29.6	166.3	13,200 *	33.8	174.6	12,900	37.4	180.5	12,000	175
180	26.0	156.9	12,300 *	30.6	166.7	12,300	34.5	173.7	11,500	180
185	21.8	145.6	11,400 *	27.1	157.6	11,800	31.4	166.0	10,900	185
190	16.7	131.3	10,600 *	23.2	146.9	11,200	28.1	157.2	10,400	190
195	9.2	109.6	9,900 *	18.4	133.8	10,700	24.2	147.0	9,900	195
200				12.0	115.4	10,100 *	19.7	134.6	9,400	200
205							13.9	118.1	9,000	205

# MLC165 S-2

ASME B30.5

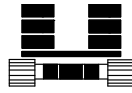
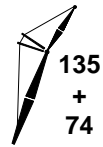


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30	74.7	162.7	105,800 *d							30
32	73.0	162.1	105,800 *d							32
34	71.3	161.5	105,800 *d							34
36	69.5	160.8	105,800 *d							36
38	67.8	160.0	105,800 *c							38
40	66.0	159.1	102,700 *c							40
45	61.4	156.7	92,800 *c	67.0	158.9	99,400 c				45
50	56.7	153.7	83,200 *b	62.5	156.6	86,600 b	66.6	158.0	84,300 c	50
55	51.6	150.1	75,700 *b	57.8	153.7	76,600 b	62.1	155.6	74,500 b	55
60	46.2	145.7	69,500 *b	52.8	150.3	68,600	57.4	152.6	66,700 b	60
65	40.2	140.4	64,200 b	47.5	146.1	61,900	52.4	149.1	60,200	65
70	33.4	133.7	58,500	41.6	141.0	56,400	47.0	144.9	54,800	70
75	25.0	124.7	53,500	35.0	134.7	51,700	41.1	139.7	50,300	75
80	12.0	109.8	49,200	27.1	126.4	47,600	34.4	133.3	46,300	80
85				15.9	113.7	44,000	26.3	124.7	42,800	85
90							14.6	111.3	39,700	90
95										95
100										100
105										105
110										110

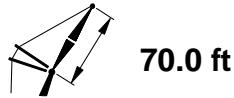
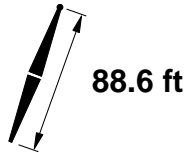


# MLC165 S-2

ASME B30.5



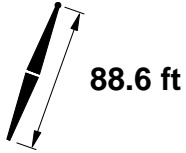
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	59.8	152.3	57,400 <b>b</b>							65
70	54.9	149.1	52,300 <b>b</b>							70
75	49.7	145.2	47,900	57.2	148.2	45,500 <b>b</b>				75
80	44.1	140.6	44,100	52.2	144.6	41,900				80
85	37.9	134.8	40,800	46.8	140.3	38,800				85
90	30.6	127.5	37,900	40.9	135.1	36,100	49.1	139.1	34,200	90
95	21.2	117.2	35,300	34.1	128.6	33,600	43.4	134.3	31,900	95
100				26.0	120.0	31,400	37.1	128.4	29,800	100
105				14.0	106.2	29,400	29.6	120.8	27,900	105
110							19.8	109.9	26,200	110

# MLC165 S-2

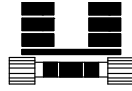
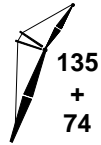
ASME B30.5



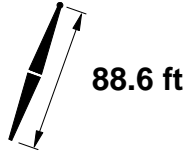
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34	73.7	172.0	96,800 *d							34
36	72.2	171.4	96,800 *d							36
38	70.7	170.7	96,800 *d							38
40	69.2	170.0	96,800 *c							40
45	65.3	167.9	91,600 *c	70.0	169.7	98,700 *c				45
50	61.3	165.3	83,900 *b	66.2	167.7	86,300 b				50
55	57.1	162.4	75,900 *b	62.2	165.3	76,300 b	65.8	166.7	74,200 b	55
60	52.7	158.8	69,500 *b	58.1	162.4	68,300	61.8	164.2	66,400 b	60
65	48.1	154.7	64,000 b	53.7	159.0	61,700	57.7	161.3	59,900	65
70	43.0	149.8	58,300	49.2	155.0	56,200	53.4	157.9	54,600	70
75	37.5	143.9	53,400	44.2	150.3	51,500	48.8	153.8	50,000	75
80	31.2	136.6	49,200	38.8	144.7	47,400	43.8	149.1	46,100	80
85	23.3	126.9	45,500	32.7	137.7	43,900	38.3	143.3	42,600	85
90	11.3	110.8	42,200	25.3	128.7	40,800	32.1	136.2	39,600	90
95				14.9	115.0	38,000	24.6	127.0	36,900	95
100							13.6	112.6	34,500	100
105										105
110										110
115										115
120										120

# MLC165 S-2

ASME B30.5



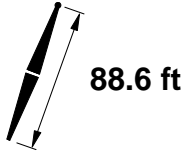
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.8	161.0	51,900 <b>b</b>							70
75	55.6	157.8	47,600							75
80	51.1	154.1	43,800	57.5	156.8	41,600				80
85	46.3	149.7	40,500	53.2	153.4	38,500				85
90	41.1	144.5	37,700	48.6	149.3	35,700				90
95	35.4	138.1	35,100	43.6	144.5	33,300	50.5	147.9	31,500	95
100	28.6	130.1	32,900	38.1	138.7	31,200	45.7	143.4	29,500	100
105	19.9	119.0	30,800	31.9	131.6	29,200	40.5	138.1	27,600	105
110				24.3	122.2	27,400	34.6	131.6	26,000	110
115				13.1	107.4	25,800	27.6	123.3	24,400	115
120							18.5	111.6	23,000	120

# MLC165 S-2

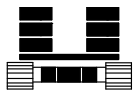
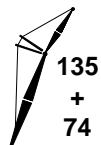
ASME B30.5



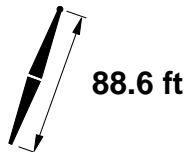
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
36	74.2	181.8	87,700 *d						36	
38	72.9	181.2	87,600 *d						38	
40	71.6	180.6	87,500 *c						40	
45	68.2	178.7	83,900 *c						45	
50	64.7	176.6	80,300 *b	69.0	178.5	85,500 *b			50	
55	61.1	174.0	76,700 *b	65.5	176.4	76,200 b			55	
60	57.4	171.0	70,000 *b	62.0	173.9	68,100	65.2	175.4	66,200 b	60
65	53.6	167.6	63,900 b	58.3	171.1	61,500	61.6	172.9	59,700	65
70	49.5	163.6	58,200	54.5	167.7	56,000	58.0	170.0	54,400	70
75	45.2	159.0	53,300	50.4	163.9	51,300	54.1	166.6	49,800	75
80	40.5	153.6	49,100	46.2	159.4	47,300	50.1	162.7	45,900	80
85	35.3	147.2	45,500	41.6	154.2	43,800	45.8	158.2	42,500	85
90	29.3	139.3	42,300	36.5	148.1	40,700	41.2	152.9	39,500	90
95	22.0	128.9	39,400	30.8	140.6	38,000	36.1	146.7	36,900	95
100	10.6	111.8	36,800	23.8	130.9	35,500	30.2	139.0	34,500	100
105				14.0	116.3	33,300	23.2	129.1	32,300	105
110							12.9	113.7	30,300	110
115										115
120										120
125										125
130										130

# MLC165 S-2

ASME B30.5



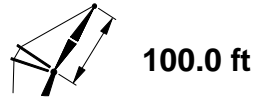
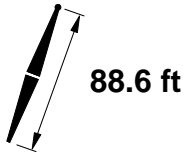
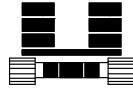
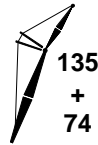
121,500 lb  
+  
35,300 lb



ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.8	169.6	47,300							75
80	56.1	166.5	43,600							80
85	52.1	162.9	40,400	57.8	165.5	38,200				85
90	48.0	158.7	37,500	54.0	162.1	35,500				90
95	43.5	153.8	35,000	49.9	158.2	33,100				95
100	38.7	148.1	32,700	45.6	153.7	31,000	51.6	156.7	29,300	100
105	33.3	141.2	30,700	41.0	148.4	29,100	47.4	152.5	27,400	105
110	26.9	132.6	28,900	35.9	142.1	27,300	43.0	147.5	25,800	110
115	18.7	120.7	27,200	30.0	134.3	25,700	38.1	141.7	24,300	115
120				22.9	124.3	24,300	32.5	134.6	22,900	120
125				12.3	108.5	22,900	26.0	125.7	21,600	125
130							17.4	113.1	20,400	130

# MLC165 S-2

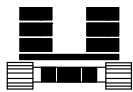
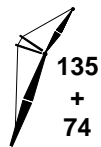
ASME B30.5



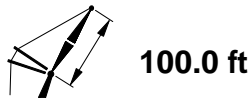
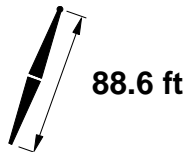
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	74.7	191.6	79,300 *d							38
40	73.5	191.1	79,200 *c							40
45	70.5	189.4	76,300 *c							45
50	67.4	187.5	72,900 *b							50
55	64.2	185.3	69,700 *b	68.1	187.3	74,200 *b				55
60	61.0	182.7	66,700 *b	65.0	185.1	67,800	67.8	186.3	65,800 b	60
65	57.7	179.7	63,700 b	61.8	182.6	61,200	64.7	184.1	59,400	65
70	54.2	176.3	58,000	58.5	179.7	55,700	61.5	181.6	54,100	70
75	50.6	172.5	53,100	55.0	176.4	51,100	58.2	178.7	49,500	75
80	46.8	168.1	48,900	51.5	172.7	47,000	54.7	175.3	45,600	80
85	42.7	163.0	45,300	47.7	168.4	43,500	51.1	171.6	42,200	85
90	38.3	157.2	42,100	43.7	163.6	40,500	47.4	167.3	39,200	90
95	33.4	150.3	39,300	39.4	157.9	37,800	43.3	162.3	36,600	95
100	27.8	141.8	36,800	34.6	151.3	35,300	39.0	156.6	34,200	100
105	20.8	130.8	34,500	29.2	143.2	33,100	34.2	149.8	32,100	105
110	10.1	112.7	32,200 *	22.6	132.9	31,100	28.7	141.7	30,200	110
115				13.3	117.5	29,300	22.0	131.1	28,400	115
120							12.2	114.8	26,800	120
125										125
130										130
135										135
140										140

# MLC165 S-2

ASME B30.5



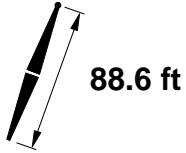
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	59.8	178.3	43,200							80
85	56.5	175.2	40,000							85
90	53.0	171.6	37,200							90
95	49.3	167.6	34,700	54.6	170.8	32,800				95
100	45.4	163.0	32,400	51.0	167.0	30,600				100
105	41.2	157.7	30,400	47.2	162.7	28,700	52.5	165.5	27,100	105
110	36.6	151.5	28,600	43.2	157.7	27,000	48.8	161.4	25,400	110
115	31.5	144.1	26,900	38.8	152.0	25,400	44.9	156.7	23,900	115
120	25.5	134.9	25,400	34.0	145.2	24,000	40.7	151.3	22,600	120
125	17.7	122.3	24,000	28.4	136.9	22,700	36.0	145.0	21,300	125
130				21.7	126.2	21,400	30.8	137.4	20,200	130
135				11.7	109.5	20,300	24.7	127.9	19,100	135
140							16.5	114.6	18,100	140

# MLC165 S-2

ASME B30.5

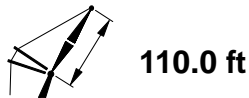
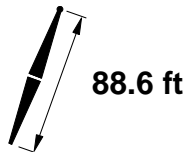
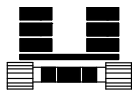
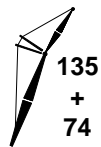


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	72.3	200.0	70,900 *c							45
50	69.5	198.2	68,300 *b							50
55	66.7	196.2	65,800 *b	70.2	198.0	69,100 *b				55
60	63.9	193.9	63,500 *b	67.4	196.0	66,900 *				60
65	60.9	191.3	61,200 *b	64.5	193.8	61,200	67.1	195.0	59,300	65
70	57.9	188.4	57,900	61.6	191.3	55,700	64.3	192.8	54,000	70
75	54.8	185.0	53,000	58.6	188.4	51,000	61.3	190.2	49,400	75
80	51.5	181.3	48,900	55.5	185.1	47,000	58.3	187.3	45,500	80
85	48.1	177.1	45,300	52.3	181.5	43,500	55.2	184.0	42,200	85
90	44.5	172.3	42,100	48.9	177.4	40,400	52.0	180.4	39,200	90
95	40.6	166.8	39,300	45.3	172.7	37,700	48.6	176.2	36,600	95
100	36.5	160.6	36,800	41.6	167.5	35,300	45.0	171.5	34,200	100
105	31.8	153.2	34,500	37.5	161.4	33,100	41.2	166.2	32,100	105
110	26.5	144.2	32,500	32.9	154.3	31,200	37.1	160.0	30,200	110
115	19.9	132.6	30,600	27.8	145.8	29,400	32.5	152.8	28,500	115
120	9.6	113.5	28,900	21.5	134.9	27,800	27.3	144.1	26,900	120
125				12.7	118.7	26,200	20.9	133.0	25,400	125
130							11.6	115.8	24,100	130
135										135
140										140
145										145
150										150



# MLC165 S-2

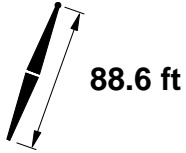
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.8	189.7	43,200							80
85	59.9	187.0	39,900							85
90	56.8	183.9	37,100							90
95	53.6	180.4	34,600							95
100	50.3	176.5	32,400	55.1	179.5	30,600				100
105	46.8	172.1	30,400	51.9	175.8	28,700				105
110	43.2	167.1	28,600	48.5	171.7	27,000				110
115	39.2	161.4	26,900	44.9	166.9	25,400	49.9	170.3	23,900	115
120	34.9	154.7	25,400	41.1	161.6	24,000	46.4	165.8	22,500	120
125	30.0	146.9	24,000	36.9	155.4	22,700	42.7	160.7	21,300	125
130	24.3	137.1	22,800	32.3	148.2	21,500	38.7	154.9	20,200	130
135	16.9	123.8	21,600	27.1	139.4	20,300	34.3	148.2	19,100	135
140				20.7	128.1	19,300	29.4	140.1	18,100	140
145				11.1	110.5	18,300	23.5	130.1	17,200	145
150							15.8	116.0	16,300	150

# MLC165 S-2

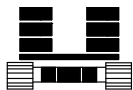
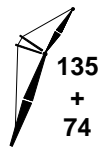
ASME B30.5



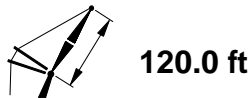
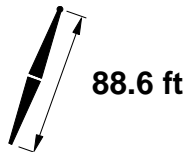
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.8	210.4	65,600 *c							45
50	71.3	208.9	63,100 *b							50
55	68.8	207.0	60,700 *b							55
60	66.2	205.0	58,400 *b	69.4	206.8	61,500 *				60
65	63.5	202.6	56,200 *b	66.8	204.8	59,300 *				65
70	60.8	200.0	54,100 *	64.2	202.5	55,400	66.6	203.8	53,700	70
75	58.1	197.0	52,100 *	61.5	199.9	50,700	63.9	201.5	49,100	75
80	55.2	193.7	48,600	58.7	197.0	46,700	61.2	198.9	45,200	80
85	52.3	190.1	45,000	55.9	193.8	43,200	58.5	196.0	41,900	85
90	49.2	186.0	41,900	52.9	190.3	40,200	55.6	192.7	38,900	90
95	45.9	181.4	39,100	49.9	186.3	37,500	52.7	189.1	36,300	95
100	42.5	176.3	36,600	46.7	181.8	35,100	49.6	185.1	33,900	100
105	38.8	170.5	34,300	43.3	176.8	32,900	46.4	180.6	31,800	105
110	34.9	163.8	32,300	39.7	171.2	30,900	43.0	175.6	29,900	110
115	30.4	156.0	30,400	35.8	164.7	29,200	39.4	169.8	28,200	115
120	25.3	146.5	28,800	31.5	157.2	27,600	35.5	163.3	26,600	120
125	19.0	134.3	27,200	26.6	148.2	26,100	31.1	155.7	25,200	125
130	9.2	114.3	25,600 *	20.6	136.7	24,700	26.1	146.5	23,900	130
135				12.1	119.7	23,400	20.0	134.8	22,600	135
140							11.1	116.8	21,500	140
145										145
150										150
155										155
160										160

# MLC165 S-2

ASME B30.5



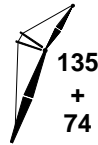
121,500 lb  
+  
35,300 lb



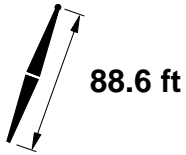
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.6	198.4	39,600							85
90	59.9	195.6	36,800							90
95	57.1	192.5	34,300							95
100	54.2	189.1	32,100							100
105	51.2	185.3	30,100	55.5	188.2	28,300				105
110	48.0	181.1	28,300	52.6	184.6	26,600				110
115	44.7	176.3	26,600	49.5	180.6	25,000				115
120	41.2	170.9	25,100	46.3	176.0	23,600	50.8	179.2	22,200	120
125	37.5	164.8	23,800	42.9	171.0	22,300	47.6	174.8	20,900	125
130	33.3	157.8	22,500	39.2	165.2	21,100	44.3	170.0	19,800	130
135	28.7	149.5	21,300	35.3	158.7	20,000	40.8	164.6	18,800	135
140	23.3	139.2	20,300	30.9	151.0	19,000	37.0	158.4	17,800	140
145	16.2	125.3	19,200	25.9	141.8	18,100	32.8	151.2	16,900	145
150				19.8	129.9	17,200	28.1	142.7	16,100	150
155				10.7	111.5	16,300	22.5	132.1	15,300	155
160							15.1	117.4	14,500	160

# MLC165 S-2

ASME B30.5



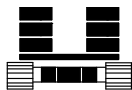
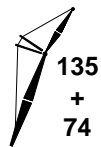
121,500 lb  
+  
35,300 lb



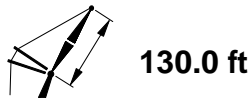
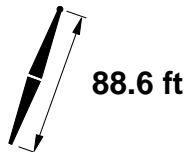
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	72.8	219.4	49,400 *c							50
55	70.5	217.7	48,500 *b							55
60	68.1	215.8	47,600 *b							60
65	65.7	213.7	46,800 *b	68.7	215.6	48,200 *				65
70	63.3	211.3	46,000 *	66.3	213.5	47,500 *				70
75	60.8	208.6	44,600 *	63.8	211.2	46,900 *	66.1	212.5	47,300 *	75
80	58.2	205.7	42,900 *	61.4	208.6	45,300 *	63.6	210.2	45,000	80
85	55.6	202.4	41,300 *	58.8	205.7	43,000	61.1	207.5	41,600	85
90	52.9	198.8	39,600 *	56.2	202.5	39,900	58.6	204.6	38,700	90
95	50.1	194.9	38,200 *	53.5	199.0	37,200	56.0	201.4	36,000	95
100	47.1	190.5	36,400	50.7	195.1	34,800	53.3	197.9	33,700	100
105	44.0	185.6	34,100	47.8	190.8	32,700	50.5	194.0	31,600	105
110	40.8	180.1	32,100	44.8	186.0	30,700	47.5	189.6	29,700	110
115	37.3	173.9	30,300	41.5	180.7	29,000	44.5	184.8	28,000	115
120	33.5	166.9	28,600	38.1	174.7	27,400	41.2	179.4	26,500	120
125	29.2	158.6	27,100	34.4	167.9	25,900	37.8	173.3	25,000	125
130	24.3	148.7	25,700	30.2	160.0	24,500	34.0	166.4	23,700	130
135	18.3	135.9	24,300	25.5	150.5	23,300	29.9	158.4	22,500	135
140	8.8	115.1	22,900 *	19.8	138.5	22,100	25.1	148.8	21,400	140
145				11.7	120.8	21,000	19.2	136.5	20,300	145
150							10.7	117.8	19,300	150
155										155
160										160
165										165
170										170

# MLC165 S-2

ASME B30.5



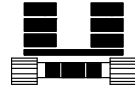
121,500 lb  
+  
35,300 lb



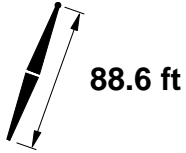
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.4	207.0	36,500							90
95	59.9	204.3	34,000							95
100	57.3	201.2	31,800							100
105	54.6	197.8	29,800							105
110	51.9	194.1	28,000	55.9	196.9	26,400				110
115	49.0	190.0	26,400	53.2	193.4	24,800				115
120	46.0	185.4	24,900	50.4	189.4	23,400				120
125	42.9	180.3	23,600	47.4	185.1	22,100	51.5	188.0	20,700	125
130	39.5	174.6	22,300	44.4	180.2	20,900	48.7	183.8	19,600	130
135	35.9	168.1	21,200	41.1	174.8	19,800	45.7	179.1	18,500	135
140	32.0	160.7	20,100	37.6	168.7	18,800	42.5	174.0	17,600	140
145	27.6	152.0	19,100	33.9	161.8	17,900	39.1	168.2	16,700	145
150	22.3	141.2	18,100	29.7	153.7	17,000	35.5	161.6	15,800	150
155	15.5	126.7	17,300	24.9	144.0	16,200	31.5	154.1	15,100	155
160				19.0	131.6	15,400	27.0	145.1	14,300	160
165				10.2	112.4	14,600	21.6	134.0	13,600	165
170							14.5	118.7	13,000	170

# MLC165 S-2

ASME B30.5



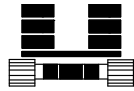
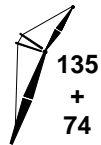
121,500 lb  
+  
35,300 lb



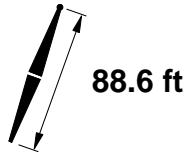
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.1	229.8	46,300 *c							50
55	71.9	228.3	45,400 *b							55
60	69.7	226.5	44,600 *b							60
65	67.6	224.6	43,900 *b	70.2	226.3	45,000 *				65
70	65.3	222.4	42,600 *	68.1	224.4	44,400 *				70
75	63.0	220.0	40,900 *	65.8	222.2	43,100 *	67.9	223.4	43,900 *	75
80	60.7	217.3	39,200 *	63.6	219.9	41,500 *	65.6	221.2	42,800 *	80
85	58.4	214.4	37,700 *	61.3	217.3	39,900 *	63.4	218.8	41,300 *	85
90	55.9	211.1	36,200 *	58.9	214.4	38,400 *	61.1	216.2	38,300 *	90
95	53.4	207.6	34,700 *	56.5	211.2	36,800 *	58.7	213.3	35,700 *	95
100	50.8	203.7	33,300 *	54.0	207.7	34,600 *	56.3	210.1	33,400 *	100
105	48.1	199.4	32,000 *	51.4	203.9	32,400 *	53.8	206.6	31,300 *	105
110	45.3	194.7	30,600 *	48.7	199.7	30,500 *	51.2	202.8	29,400 *	110
115	42.4	189.5	29,400 *	46.0	195.1	28,700 *	48.5	198.6	27,700 *	115
120	39.2	183.7	28,300 *	43.0	190.1	27,100 *	45.7	193.9	26,200 *	120
125	35.9	177.2	26,900 *	40.0	184.4	25,600 *	42.8	188.8	24,700 *	125
130	32.2	169.8	25,400 *	36.7	178.1	24,300 *	39.7	183.1	23,400 *	130
135	28.1	161.2	24,100 *	33.1	170.9	23,000 *	36.4	176.7	22,200 *	135
140	23.4	150.8	22,900 *	29.1	162.6	21,900 *	32.7	169.4	21,100 *	140
145	17.6	137.5	21,800 *	24.6	152.7	20,800 *	28.7	161.0	20,100 *	145
150	8.5	115.9	20,300 *	19.1	140.2	19,800 *	24.2	151.0	19,100 *	150
155				11.2	121.8	18,800 *	18.5	138.2	18,200 *	155
160							10.3	118.7	17,300 *	160
165										165
170										170
175										175
180										180

# MLC165 S-2

ASME B30.5



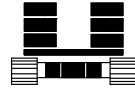
121,500 lb  
+  
35,300 lb



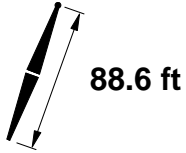
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.2	215.7	33,700							95
100	59.9	212.9	31,500							100
105	57.5	209.9	29,500							105
110	55.0	206.6	27,700							110
115	52.5	202.9	26,100	56.2	205.6	24,400				115
120	49.9	198.9	24,600	53.7	202.1	23,000				120
125	47.1	194.4	23,200	51.1	198.3	21,800				125
130	44.3	189.6	22,000	48.4	194.0	20,600	52.2	196.8	19,200	130
135	41.3	184.2	20,800	45.6	189.4	19,500	49.5	192.7	18,200	135
140	38.1	178.1	19,800	42.7	184.2	18,500	46.8	188.2	17,200	140
145	34.6	171.3	18,800	39.6	178.5	17,500	43.9	183.3	16,300	145
150	30.8	163.5	17,900	36.2	172.1	16,700	40.9	177.8	15,500	150
155	26.5	154.4	17,000	32.6	164.8	15,900	37.6	171.7	14,700	155
160	21.5	143.2	16,200	28.6	156.3	15,100	34.1	164.8	14,000	160
165	15.0	128.0	15,400	24.0	146.2	14,400	30.3	156.8	13,300	165
170				18.3	133.2	13,700	26.0	147.5	12,700	170
175				9.9	113.3	13,000	20.8	135.9	12,100	175
180							14.0	119.9	11,500	180

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

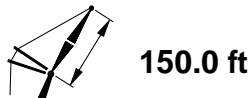
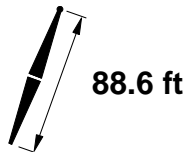
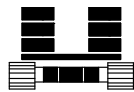
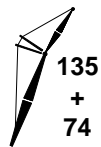


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.2	238.8	42,500 *b						55	
60	71.2	237.1	41,800 *b						60	
65	69.1	235.3	40,900 *b						65	
70	67.1	233.3	39,200 *	69.6	235.1	41,200 *			70	
75	65.0	231.1	37,700 *	67.5	233.1	39,700 *			75	
80	62.8	228.7	36,200 *	65.5	230.9	38,200 *	67.4	232.1	39,300 *	80
85	60.7	226.0	34,600 *	63.3	228.5	36,600 *	65.3	229.9	37,900 *	85
90	58.5	223.0	33,100 *	61.2	225.9	35,200 *	63.2	227.5	36,500 *	90
95	56.2	219.8	31,700 *	59.0	223.0	33,700 *	61.0	224.9	35,000 *	95
100	53.9	216.3	30,400 *	56.7	219.9	32,400 *	58.8	222.0	33,300	100
105	51.5	212.5	29,100 *	54.4	216.5	30,900 *	56.5	218.8	31,200	105
110	49.0	208.4	27,800 *	52.0	212.7	29,600 *	54.2	215.4	29,300	110
115	46.4	203.8	26,600 *	49.6	208.6	28,400 *	51.8	211.6	27,600	115
120	43.7	198.8	25,500 *	47.0	204.2	27,000	49.3	207.5	26,100	120
125	40.9	193.3	24,400 *	44.3	199.3	25,600	46.8	203.0	24,600	125
130	37.8	187.2	23,300 *	41.5	193.9	24,200	44.1	198.1	23,300	130
135	34.6	180.4	22,400 *	38.5	188.0	23,000	41.3	192.6	22,100	135
140	31.1	172.6	21,500 *	35.4	181.3	21,800	38.3	186.6	21,000	140
145	27.2	163.7	20,600 *	31.9	173.8	20,800	35.1	179.9	20,000	145
150	22.6	152.9	19,800 *	28.1	165.2	19,800	31.6	172.3	19,000	150
155	17.0	139.0	19,100 *	23.7	154.9	18,800	27.8	163.5	18,100	155
160	8.2	116.6	18,300 *	18.4	141.9	18,000	23.3	153.1	17,300	160
165				10.9	122.7	17,100	17.9	139.8	16,500	165
170							9.9	119.6	15,700	170
175										175
180										180
185										185
190										190



# MLC165 S-2

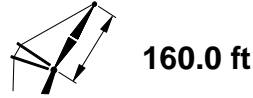
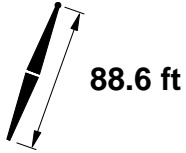
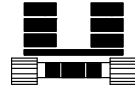
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.1	224.4	31,400							100
105	59.9	221.6	29,400							105
110	57.7	218.6	27,600							110
115	55.4	215.3	26,000							115
120	53.0	211.6	24,500	56.4	214.3	22,900				120
125	50.6	207.7	23,100	54.1	210.8	21,700				125
130	48.1	203.4	21,900	51.7	207.1	20,500				130
135	45.4	198.7	20,800	49.2	202.9	19,400	52.7	205.5	18,100	135
140	42.7	193.5	19,700	46.7	198.4	18,400	50.3	201.5	17,100	140
145	39.8	187.8	18,700	44.0	193.5	17,500	47.7	197.2	16,200	145
150	36.7	181.5	17,800	41.2	188.0	16,600	45.1	192.4	15,400	150
155	33.4	174.4	16,900	38.2	182.0	15,800	42.3	187.2	14,600	155
160	29.7	166.2	16,100	35.0	175.3	15,000	39.4	181.4	13,900	160
165	25.6	156.7	15,400	31.5	167.6	14,300	36.3	175.0	13,300	165
170	20.8	145.0	14,700	27.6	158.8	13,600	33.0	167.8	12,600	170
175	14.5	129.3	14,000	23.1	148.3	13,000	29.3	159.5	12,000	175
180				17.7	134.8	12,400	25.1	149.7	11,400	180
185				9.5	114.1	11,800	20.1	137.7	10,900	185
190							13.5	121.1	10,400	190

# MLC165 S-2

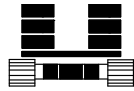
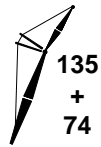
ASME B30.5



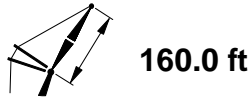
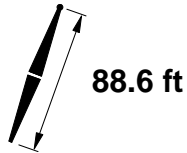
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.2	249.2	39,500 *b						55	
60	72.4	247.7	38,800 *b						60	
65	70.5	246.0	37,400 *						65	
70	68.6	244.1	35,800 *	70.9	245.7	37,700 *			70	
75	66.6	242.1	34,400 *	69.0	243.9	36,200 *			75	
80	64.7	239.8	32,900 *	67.1	241.9	34,800 *			80	
85	62.7	237.3	31,400 *	65.1	239.6	33,300 *	66.9	240.9	34,400 *	85
90	60.6	234.6	30,000 *	63.1	237.2	31,900 *	64.9	238.6	33,100 *	90
95	58.6	231.7	28,600 *	61.1	234.6	30,500 *	63.0	236.2	31,700 *	95
100	56.4	228.5	27,300 *	59.0	231.7	29,100 *	60.9	233.5	30,300 *	100
105	54.3	225.1	26,000 *	56.9	228.6	27,800 *	58.9	230.6	29,000 *	105
110	52.0	221.3	24,800 *	54.8	225.2	26,600 *	56.7	227.5	27,700 *	110
115	49.7	217.2	23,700 *	52.5	221.5	25,300 *	54.6	224.1	26,500 *	115
120	47.3	212.8	22,500 *	50.2	217.5	24,100 *	52.3	220.4	25,300 *	120
125	44.8	208.0	21,400 *	47.9	213.2	23,000 *	50.0	216.3	24,000 *	125
130	42.2	202.7	20,400 *	45.4	208.4	21,900 *	47.7	212.0	23,000 *	130
135	39.5	197.0	19,500 *	42.8	203.3	20,800 *	45.2	207.2	21,900 *	135
140	36.6	190.6	18,500 *	40.1	197.6	19,800 *	42.6	202.0	20,700 *	140
145	33.5	183.4	17,600 *	37.3	191.4	18,800 *	39.9	196.3	19,700 *	145
150	30.1	175.4	16,800 *	34.2	184.5	18,000 *	37.0	190.0	18,800 *	150
155	26.3	166.0	16,100 *	30.9	176.6	17,200 *	33.9	183.0	17,900 *	155
160	21.9	154.9	15,300 *	27.2	167.6	16,300 *	30.6	175.1	17,000 *	160
165	16.4	140.5	14,600 *	23.0	156.9	15,600 *	26.9	166.0	16,200 *	165
170	8.0	117.3	13,800 *	17.8	143.5	14,900 *	22.6	155.1	15,500 *	170
175				10.5	123.7	14,100 *	17.3	141.3	14,800 *	175
180							9.6	120.5	14,000 *	180
185										185
190										190
195										195
200										200

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



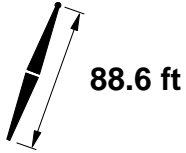
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.9	233.0	29,000							105
110	59.9	230.3	27,300							110
115	57.8	227.2	25,600							115
120	55.7	224.0	24,200							120
125	53.5	220.4	22,800	56.7	223.0	21,300				125
130	51.2	216.5	21,600	54.5	219.6	20,100				130
135	48.9	212.3	20,400	52.3	215.8	19,100				135
140	46.4	207.8	19,400	50.0	211.8	18,100				140
145	43.9	202.8	18,400	47.6	207.4	17,100	50.9	210.4	15,900	145
150	41.3	197.4	17,500	45.1	202.7	16,300	48.6	206.1	15,100	150
155	38.5	191.4	16,700	42.5	197.4	15,500	46.1	201.5	14,300	155
160	35.5	184.8	15,900	39.8	191.7	14,700	43.6	196.5	13,600	160
165	32.3	177.3	15,100	36.9	185.4	14,000	40.9	191.0	12,900	165
170	28.8	168.8	14,400	33.8	178.4	13,300	38.1	185.0	12,300	170
175	24.8	158.9	13,700	30.4	170.4	12,700	35.1	178.2	11,700	175
180	20.1	146.8	13,100	26.7	161.2	12,100	31.9	170.7	11,100	180
185	14.0	130.6	12,500	22.4	150.3	11,500	28.3	162.1	10,600	185
190				17.1	136.3	11,000	24.3	151.9	10,100	190
195				9.2	115.0	10,500	19.5	139.5	9,600	195
200							13.1	122.3	9,100	200

# MLC165 S-2

ASME B30.5



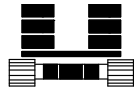
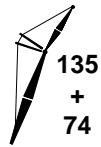
121,500 lb  
+  
35,300 lb



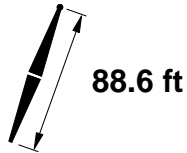
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.4	258.1	35,900 *b							60
65	71.7	256.6	34,500 *b							65
70	69.9	254.8	33,000 *							70
75	68.1	252.9	31,600 *	70.3	254.5	33,300 *				75
80	66.3	250.8	30,200 *	68.5	252.7	31,900 *				80
85	64.4	248.5	28,800 *	66.7	250.6	30,600 *				85
90	62.5	246.0	27,500 *	64.8	248.3	29,200 *	66.5	249.6	30,200 *	90
95	60.6	243.3	26,200 *	62.9	245.9	27,900 *	64.7	247.3	28,900 *	95
100	58.6	240.4	24,900 *	61.0	243.2	26,600 *	62.8	244.9	27,700 *	100
105	56.6	237.2	23,700 *	59.1	240.4	25,300 *	60.9	242.2	26,500 *	105
110	54.6	233.8	22,500 *	57.1	237.2	24,100 *	58.9	239.3	25,200 *	110
115	52.5	230.1	21,400 *	55.1	233.9	22,900 *	56.9	236.2	24,000 *	115
120	50.4	226.1	20,300 *	53.0	230.3	21,800 *	54.9	232.8	22,900 *	120
125	48.1	221.8	19,200 *	50.9	226.3	20,700 *	52.8	229.1	21,700 *	125
130	45.8	217.1	18,300 *	48.6	222.1	19,600 *	50.7	225.2	20,600 *	130
135	43.4	212.1	17,300 *	46.4	217.5	18,600 *	48.5	220.9	19,600 *	135
140	40.9	206.5	16,400 *	44.0	212.6	17,700 *	46.2	216.3	18,600 *	140
145	38.3	200.5	15,500 *	41.5	207.1	16,700 *	43.8	211.3	17,600 *	145
150	35.5	193.8	14,800 *	38.9	201.2	15,800 *	41.3	205.9	16,700 *	150
155	32.4	186.4	13,900 *	36.1	194.7	15,000 *	38.7	199.9	15,800 *	155
160	29.2	178.0	13,000 *	33.2	187.5	14,300 *	35.9	193.3	15,000 *	160
165	25.5	168.3	12,100 *	29.9	179.3	13,200 *	32.9	186.0	14,200 *	165
170	21.2	156.8	11,200 *	26.4	170.0	12,300 *	29.6	177.8	13,200 *	170
175	15.9	141.9	10,400 *	22.3	158.9	11,400 *	26.0	168.3	12,300 *	175
180	7.7	118.0	9,700 *	17.3	145.0	10,700 *	21.9	157.1	11,400 *	180
185				10.2	124.6	9,900 *	16.8	142.8	10,600 *	185
190							9.3	121.3	9,900 *	190
195										195
200										200
205										205
210										210

# MLC165 S-2

ASME B30.5



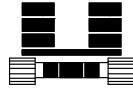
121,500 lb  
+  
35,300 lb



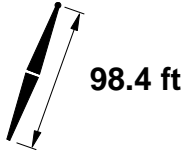
ft	75°			70°			65°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.8	241.7	26,700*							110
115	59.9	238.9	25,400							115
120	57.9	235.9	23,900							120
125	55.9	232.6	22,600							125
130	53.9	229.1	21,300	56.9	231.7	19,900				130
135	51.8	225.3	20,200	54.8	228.3	18,800				135
140	49.6	221.2	19,200	52.7	224.6	17,800				140
145	47.3	216.8	18,200	50.6	220.7	16,900				145
150	45.0	212.0	17,300	48.4	216.4	16,000	51.5	219.2	14,800	150
155	42.5	206.8	16,400	46.1	211.8	15,200	49.3	215.1	14,000	155
160	40.0	201.1	15,600	43.7	206.7	14,500	47.0	210.6	13,300	160
165	37.3	194.8	14,900	41.2	201.3	13,800	44.7	205.7	12,700	165
170	34.4	187.9	14,200	38.6	195.3	13,100	42.2	200.4	12,000	170
175	31.3	180.2	13,500	35.8	188.7	12,500	39.7	194.7	11,500	175
180	27.9	171.4	12,800*	32.8	181.4	11,900	36.9	188.4	10,900	180
185	24.0	161.1	11,900*	29.5	173.1	11,300	34.0	181.3	10,400	185
190	19.5	148.6	11,000*	25.9	163.6	10,800	30.9	173.5	9,900	190
195	13.6	131.8	10,300*	21.7	152.2	10,300	27.4	164.5	9,400	195
200				16.6	137.8	9,800	23.5	154.0	8,900	200
205				8.9	115.8	9,300	18.9	141.1	8,500	205
210							12.7	123.4	8,100	210

# MLC165 S-2

ASME B30.5



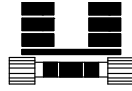
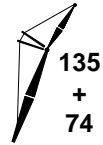
121,500 lb  
+  
35,300 lb



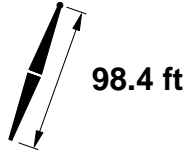
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
32	73.4	172.1	102,000 *d							32
34	71.7	171.5	102,000 *d							34
36	70.0	170.8	102,000 *d							36
38	68.2	170.0	102,000 *d							38
40	66.5	169.2	102,000 *c							40
45	61.9	166.8	91,400 *c	68.1	169.2	98,900 c				45
50	57.2	163.8	82,200 *b	63.6	167.0	86,200 b				50
55	52.2	160.3	74,900 *b	58.9	164.2	76,200 b	63.7	166.1	73,800 b	55
60	46.8	156.0	68,900 *b	54.0	160.9	68,200 b	59.0	163.4	66,100 b	60
65	40.9	150.8	64,000 *b	48.8	156.9	61,600	54.1	160.1	59,700 b	65
70	34.1	144.3	58,400	43.1	152.1	56,100	48.9	156.1	54,300	70
75	25.9	135.6	53,500	36.7	146.1	51,400	43.2	151.3	49,800	75
80	13.9	121.9	49,200	29.2	138.4	47,300	36.8	145.3	45,900	80
85				19.2	127.3	43,800	29.3	137.7	42,400	85
90							19.4	126.6	39,400	90
95										95
100										100
105										105
110										110
115										115

# MLC165 S-2

ASME B30.5



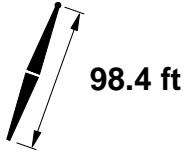
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.2	163.2	56,500 <b>b</b>							65
70	57.4	160.3	51,400 <b>b</b>							70
75	52.4	156.8	47,100							75
80	47.0	152.6	43,400	55.6	156.3	40,900 <b>b</b>				80
85	41.2	147.4	40,200	50.5	152.5	37,900				85
90	34.5	141.0	37,300	44.9	148.0	35,200				90
95	26.4	132.5	34,800	38.8	142.4	32,800	48.1	147.2	30,900	95
100	14.7	119.1	32,500	31.7	135.3	30,700	42.4	142.3	28,800	100
105				22.7	125.6	28,700	35.9	136.1	27,000	105
110				6.4	106.4	26,900	28.2	128.1	25,400	110
115							17.6	116.3	23,800	115

# MLC165 S-2

ASME B30.5

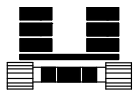
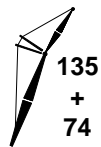


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34	74.1	182.0	93,400 *d							34
36	72.6	181.4	93,300 *d							36
38	71.1	180.7	93,300 *d							38
40	69.6	180.0	93,300 *d							40
45	65.7	177.9	92,200 *c	70.9	179.9	94,800 *c				45
50	61.7	175.4	82,500 *b	67.1	178.0	85,900 b				50
55	57.5	172.5	75,000 *b	63.2	175.6	75,900 b	67.2	177.1	73,500 b	55
60	53.2	169.1	68,800 *b	59.1	172.9	67,900 b	63.2	174.8	65,700 b	60
65	48.6	165.0	63,700 *b	54.8	169.6	61,400	59.1	172.1	59,400 b	65
70	43.6	160.2	58,300	50.3	165.8	55,900	54.9	168.8	54,000	70
75	38.1	154.4	53,400	45.5	161.3	51,200	50.4	165.0	49,500	75
80	31.9	147.2	49,200	40.2	155.9	47,200	45.5	160.5	45,600	80
85	24.2	137.9	45,500	34.3	149.3	43,700	40.3	155.1	42,200	85
90	13.0	123.0	42,200	27.3	140.9	40,600	34.4	148.5	39,200	90
95				17.9	128.9	37,800	27.4	140.2	36,600	95
100							18.1	128.3	34,200	100
105										105
110										110
115										115
120										120
125										125

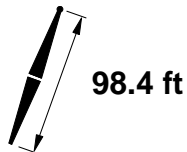


# MLC165 S-2

ASME B30.5



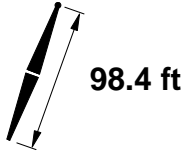
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	61.9	171.9	51,000 b							70
75	57.7	169.0	46,700							75
80	53.4	165.6	43,100							80
85	48.8	161.5	39,900	56.1	165.0	37,500				85
90	43.8	156.8	37,000	51.7	161.4	34,800				90
95	38.4	151.0	34,500	47.0	157.1	32,500				95
100	32.2	144.0	32,300	41.9	152.0	30,400	49.7	156.1	28,500	100
105	24.7	134.7	30,300	36.2	145.8	28,500	44.9	151.5	26,700	105
110	13.8	120.4	28,400	29.6	138.1	26,700	39.5	146.0	25,100	110
115				21.2	127.5	25,200	33.5	139.3	23,600	115
120				6.0	106.9	23,600	26.3	130.6	22,200	120
125							16.5	117.8	20,900	125

# MLC165 S-2

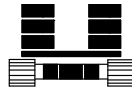
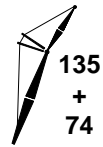
ASME B30.5



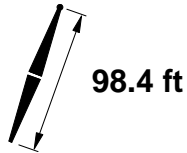
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36	74.6	191.8	84,800 *d							36
38	73.2	191.2	84,600 *d							38
40	71.9	190.6	84,600 *c							40
45	68.5	188.8	83,300 *c							45
50	65.1	186.6	79,900 *c	69.8	188.7	85,300 *b				50
55	61.5	184.1	75,500 *b	66.3	186.7	75,700 b				55
60	57.8	181.2	69,000 *b	62.8	184.3	67,700 b	66.4	185.9	65,500 b	60
65	54.0	177.8	63,700 *b	59.2	181.6	61,200	62.9	183.5	59,200 b	65
70	49.9	173.9	58,100	55.4	178.3	55,700	59.2	180.7	53,800	70
75	45.6	169.3	53,300	51.4	174.6	51,000	55.5	177.5	49,300	75
80	41.0	164.0	49,100	47.2	170.3	47,000	51.5	173.8	45,500	80
85	35.9	157.7	45,500	42.7	165.3	43,500	47.3	169.5	42,100	85
90	30.0	150.0	42,300	37.8	159.4	40,500	42.8	164.5	39,100	90
95	22.8	139.9	39,400	32.3	152.3	37,800	37.9	158.6	36,500	95
100	12.3	124.1	36,800	25.7	143.3	35,300	32.3	151.5	34,100	100
105				16.9	130.4	33,100	25.8	142.5	32,000	105
110							17.1	129.8	30,100	110
115										115
120										120
125										125
130										130
135										135

# MLC165 S-2

ASME B30.5



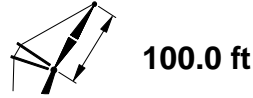
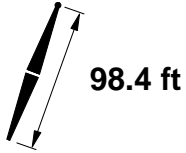
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	61.7	180.6	46,500							75
80	58.0	177.7	42,800							80
85	54.2	174.3	39,600							85
90	50.1	170.4	36,800	56.6	173.7	34,600				90
95	45.8	165.9	34,400	52.7	170.1	32,300				95
100	41.2	160.6	32,100	48.6	166.0	30,200				100
105	36.1	154.4	30,100	44.2	161.3	28,300	50.9	165.0	26,500	105
110	30.3	146.8	28,300	39.4	155.7	26,600	46.7	160.6	24,900	110
115	23.2	136.9	26,700	34.1	149.0	25,000	42.2	155.5	23,400	115
120	13.0	121.6	25,100	27.9	140.6	23,600	37.2	149.5	22,100	120
125				20.0	129.4	22,300	31.5	142.2	20,800	125
130				5.6	107.4	21,000	24.8	132.8	19,700	130
135							15.5	119.2	18,600	135

# MLC165 S-2

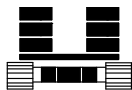
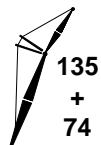
ASME B30.5



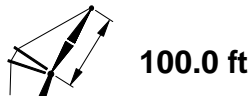
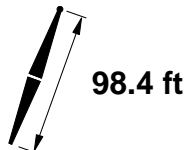
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38	75.0	201.6	76,900 *d							38
40	73.8	201.0	76,800 *c							40
45	70.8	199.4	75,800 *c							45
50	67.7	197.5	72,500 *c							50
55	64.6	195.3	69,500 *b	68.8	197.5	74,200 *b				55
60	61.4	192.8	66,600 *b	65.7	195.4	67,400 b				60
65	58.0	189.9	63,600 b	62.5	193.0	60,900	65.8	194.6	58,800 b	65
70	54.6	186.5	57,900	59.3	190.2	55,400	62.6	192.2	53,500	70
75	51.0	182.7	53,100	55.9	187.0	50,700	59.3	189.4	49,000	75
80	47.2	178.4	48,900	52.3	183.4	46,700	55.9	186.2	45,100	80
85	43.2	173.4	45,300	48.6	179.3	43,300	52.4	182.6	41,800	85
90	38.8	167.7	42,100	44.7	174.6	40,200	48.7	178.5	38,800	90
95	34.0	160.9	39,300	40.4	169.1	37,500	44.7	173.8	36,200	95
100	28.4	152.6	36,700	35.8	162.7	35,100	40.5	168.3	33,900	100
105	21.6	141.9	34,500	30.6	155.1	32,900	35.9	162.0	31,800	105
110	11.6	125.2	32,400	24.3	145.5	31,000	30.6	154.4	29,900	110
115				16.0	131.9	29,100	24.4	144.8	28,100	115
120							16.2	131.3	26,500	120
125										125
130										130
135										135
140										140
145										145

# MLC165 S-2

ASME B30.5



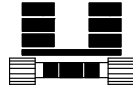
121,500 lb  
+  
35,300 lb



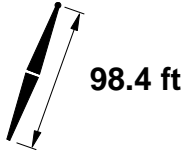
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.5	189.2	42,500							80
85	58.2	186.3	39,300							85
90	54.8	183.0	36,500							90
95	51.2	179.2	34,000	56.9	182.4	31,900				95
100	47.4	174.9	31,800	53.4	178.9	29,800				100
105	43.4	170.0	29,800	49.8	174.9	27,900				105
110	39.0	164.3	28,100	45.9	170.4	26,200	51.9	173.8	24,500	110
115	34.2	157.6	26,400	41.8	165.2	24,700	48.2	169.6	23,000	115
120	28.7	149.4	24,900	37.3	159.1	23,300	44.2	164.8	21,700	120
125	22.0	138.9	23,600	32.3	151.9	22,000	39.9	159.3	20,500	125
130	12.3	122.7	22,200	26.4	143.0	20,800	35.2	152.8	19,400	130
135				19.0	131.1	19,700	29.9	144.9	18,400	135
140				5.3	107.9	18,600	23.5	135.0	17,400	140
145							14.7	120.5	16,500	145

# MLC165 S-2

ASME B30.5



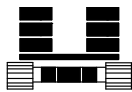
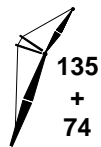
121,500 lb  
+  
35,300 lb



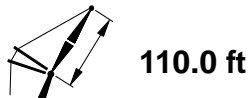
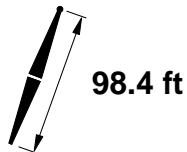
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	72.6	210.0	70,100 *c							45
50	69.8	208.3	67,700 *c							50
55	67.0	206.3	65,300 *b	70.8	208.2	68,700 *b				55
60	64.2	204.0	63,100 *b	68.1	206.3	66,600 *b				60
65	61.2	201.4	60,900 *b	65.2	204.1	60,800				65
70	58.2	198.5	57,800	62.3	201.7	55,300	65.3	203.3	53,400	70
75	55.1	195.2	53,000	59.3	198.9	50,700	62.4	200.8	48,900	75
80	51.9	191.5	48,800	56.2	195.7	46,700	59.4	198.0	45,100	80
85	48.5	187.4	45,200	53.1	192.2	43,200	56.3	194.9	41,700	85
90	44.9	182.6	42,100	49.7	188.2	40,200	53.1	191.4	38,800	90
95	41.1	177.3	39,300	46.2	183.7	37,500	49.8	187.4	36,200	95
100	36.9	171.1	36,800	42.5	178.6	35,100	46.3	182.9	33,800	100
105	32.3	163.9	34,500	38.5	172.7	32,900	42.5	177.8	31,800	105
110	27.1	155.1	32,500	34.1	165.9	31,000	38.5	171.9	29,900	110
115	20.6	143.8	30,600	29.1	157.8	29,200	34.1	165.1	28,200	115
120	11.1	126.2	28,900	23.2	147.6	27,600	29.2	157.0	26,600	120
125				15.3	133.2	26,100	23.3	146.9	25,200	125
130							15.4	132.6	23,800	130
135										135
140										140
145										145
150										150
155										155

# MLC165 S-2

ASME B30.5



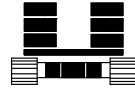
121,500 lb  
+  
35,300 lb



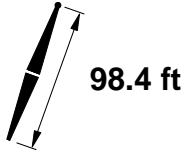
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.4	197.9	39,200							85
90	58.4	195.0	36,400							90
95	55.3	191.7	34,000							95
100	52.0	188.0	31,800	57.2	191.0	29,700				100
105	48.6	183.9	29,800	54.1	187.6	27,900				105
110	45.1	179.2	28,000	50.8	183.8	26,200				110
115	41.3	173.9	26,400	47.3	179.4	24,700	52.7	182.6	23,000	115
120	37.1	167.7	24,900	43.7	174.5	23,300	49.3	178.5	21,700	120
125	32.6	160.6	23,600	39.8	168.9	22,000	45.8	173.9	20,500	125
130	27.4	151.9	22,300	35.5	162.4	20,800	42.0	168.7	19,400	130
135	21.0	140.8	21,200	30.7	154.8	19,800	38.0	162.8	18,400	135
140	11.7	123.7	20,100	25.2	145.3	18,700	33.5	155.8	17,400	140
145				18.1	132.7	17,800	28.5	147.5	16,500	145
150				5.1	108.3	16,800	22.4	137.0	15,700	150
155							14.1	121.8	14,900	155

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

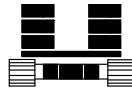
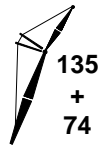


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.1	220.4	64,100 *c							45
50	71.6	218.9	62,600 *c							50
55	69.0	217.1	60,300 *b							55
60	66.5	215.0	58,100 *b	70.0	217.0	61,300 *b				60
65	63.8	212.7	56,000 *b	67.4	215.0	59,300 *				65
70	61.1	210.1	53,900 *	64.8	212.8	55,000	67.4	214.2	53,100	70
75	58.4	207.2	52,000 *	62.1	210.3	50,400	64.8	212.0	48,600	75
80	55.5	203.9	48,600	59.4	207.5	46,400	62.2	209.5	44,800	80
85	52.6	200.3	45,000	56.6	204.4	42,900	59.4	206.7	41,400	85
90	49.5	196.3	41,800	53.7	200.9	39,900	56.6	203.6	38,500	90
95	46.3	191.7	39,000	50.6	197.0	37,200	53.7	200.1	35,900	95
100	42.9	186.7	36,500	47.5	192.7	34,800	50.7	196.2	33,500	100
105	39.2	180.9	34,300	44.1	187.8	32,700	47.5	191.9	31,500	105
110	35.3	174.3	32,300	40.6	182.4	30,700	44.2	187.0	29,600	110
115	30.9	166.7	30,400	36.8	176.1	29,000	40.7	181.6	27,900	115
120	25.9	157.4	28,700	32.6	168.9	27,400	36.8	175.3	26,300	120
125	19.7	145.6	27,200	27.8	160.3	25,900	32.7	168.1	24,900	125
130	10.6	127.1	25,700	22.2	149.6	24,500	27.9	159.6	23,600	130
135				14.6	134.5	23,200	22.3	148.9	22,400	135
140							14.8	134.0	21,200	140
145										145
150										150
155										155
160										160
165										165

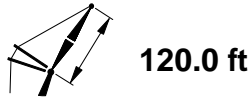
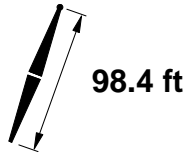


# MLC165 S-2

ASME B30.5



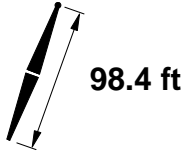
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.3	206.6	36,100							90
95	58.5	203.7	33,600							95
100	55.7	200.4	31,400							100
105	52.7	196.8	29,500	57.4	199.7	27,500				105
110	49.6	192.8	27,700	54.6	196.3	25,800				110
115	46.4	188.3	26,100	51.6	192.6	24,300				115
120	43.0	183.2	24,600	48.5	188.4	22,900				120
125	39.4	177.5	23,300	45.2	183.7	21,700	50.3	187.4	20,100	125
130	35.5	171.0	22,000	41.7	178.4	20,500	47.1	183.0	19,000	130
135	31.2	163.4	20,900	38.0	172.4	19,400	43.7	178.1	18,000	135
140	26.2	154.3	19,800	33.9	165.6	18,400	40.2	172.5	17,100	140
145	20.1	142.6	18,800	29.4	157.4	17,500	36.3	166.1	16,200	145
150	11.2	124.7	17,900	24.1	147.5	16,600	32.1	158.8	15,400	150
155				17.3	134.3	15,800	27.2	150.0	14,600	155
160				4.9	108.8	15,000	21.4	138.9	13,900	160
165							13.5	123.0	13,200	165

# MLC165 S-2

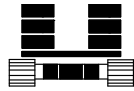
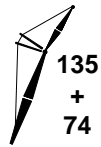
ASME B30.5



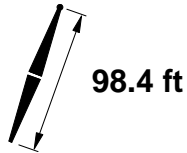
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	73.0	229.4	48,600 *c						50	
55	70.7	227.7	47,700 *b						55	
60	68.4	225.9	46,900 *b						60	
65	66.0	223.7	46,100 *b	69.2	225.8	47,600 *			65	
70	63.5	221.4	45,300 *	66.8	223.8	46,900 *			70	
75	61.0	218.8	44,600 *	64.4	221.5	46,300 *	66.9	222.9	46,700 *	75
80	58.5	215.9	42,900 *	62.0	219.0	45,500 *	64.5	220.7	44,500	80
85	55.9	212.6	41,300 *	59.4	216.2	42,700	62.0	218.2	41,200	85
90	53.2	209.1	39,800 *	56.8	213.1	39,700	59.5	215.4	38,200	90
95	50.4	205.1	38,300 *	54.2	209.7	37,000	56.9	212.3	35,600	95
100	47.4	200.8	36,300	51.4	205.9	34,600	54.2	208.8	33,300	100
105	44.4	195.9	34,100	48.5	201.7	32,500	51.4	205.0	31,300	105
110	41.1	190.5	32,100	45.5	197.0	30,500	48.6	200.8	29,400	110
115	37.6	184.4	30,300	42.3	191.8	28,800	45.6	196.2	27,700	115
120	33.9	177.5	28,600	38.9	186.0	27,200	42.4	191.0	26,100	120
125	29.7	169.4	27,100	35.3	179.4	25,700	39.0	185.2	24,700	125
130	24.9	159.7	25,600	31.3	171.7	24,400	35.3	178.6	23,400	130
135	19.0	147.3	24,300	26.7	162.7	23,100	31.3	171.0	22,200	135
140	10.2	128.0	23,100	21.3	151.5	22,000	26.8	162.0	21,100	140
145				14.0	135.8	20,900	21.4	150.8	20,100	145
150							14.2	135.2	19,100	150
155										155
160										160
165										165
170										170
175										175

# MLC165 S-2

ASME B30.5



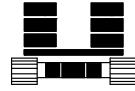
121,500 lb  
+  
35,300 lb



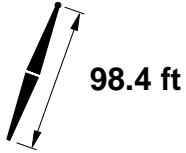
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.2	215.2	33,400							95
100	58.6	212.3	31,200							100
105	56.0	209.1	29,200							105
110	53.3	205.6	27,500	57.6	208.4	25,600				110
115	50.5	201.6	25,900	55.0	205.1	24,100				115
120	47.6	197.3	24,400	52.3	201.4	22,700				120
125	44.5	192.5	23,100	49.4	197.3	21,400				125
130	41.3	187.1	21,800	46.5	192.8	20,300	51.1	196.2	18,800	130
135	37.8	181.0	20,700	43.3	187.8	19,200	48.2	192.0	17,700	135
140	34.1	174.1	19,700	40.0	182.2	18,200	45.1	187.2	16,800	140
145	29.9	166.1	18,700	36.5	175.8	17,300	41.9	182.0	16,000	145
150	25.1	156.5	17,800	32.6	168.5	16,400	38.5	176.1	15,200	150
155	19.3	144.3	16,900	28.2	160.0	15,600	34.8	169.4	14,400	155
160	10.8	125.7	16,100	23.1	149.6	14,900	30.8	161.6	13,700	160
165				16.6	135.8	14,200	26.1	152.4	13,000	165
170				4.7	109.2	13,400	20.6	140.8	12,400	170
175							12.9	124.2	11,800	175

# MLC165 S-2

ASME B30.5



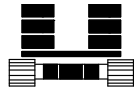
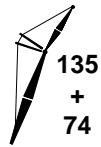
+  
35,300 lb



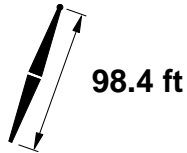
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.3	239.8	45,500 *c							50
55	72.1	238.3	44,700 *b							55
60	70.0	236.6	44,000 *b							60
65	67.8	234.6	43,200 *b	70.8	236.5	44,300 *				65
70	65.6	232.5	42,500 *	68.6	234.6	43,800 *				70
75	63.3	230.1	40,800 *	66.4	232.5	43,200 *				75
80	61.0	227.4	39,200 *	64.1	230.2	41,600 *	66.4	231.7	42,800 *	80
85	58.6	224.5	37,700 *	61.8	227.7	40,100 *	64.2	229.4	40,800	85
90	56.2	221.3	36,200 *	59.5	224.9	38,600 *	61.9	226.8	37,900	90
95	53.7	217.8	34,800 *	57.1	221.8	36,700	59.5	224.0	35,300	95
100	51.1	213.9	33,400 *	54.6	218.4	34,300	57.1	220.9	33,000	100
105	48.4	209.7	32,100 *	52.0	214.6	32,200	54.6	217.5	30,900	105
110	45.6	205.1	30,800 *	49.4	210.6	30,300	52.1	213.8	29,100	110
115	42.7	199.9	29,500 *	46.6	206.1	28,500	49.4	209.7	27,400	115
120	39.6	194.2	28,300	43.8	201.1	26,900	46.7	205.3	25,800	120
125	36.2	187.7	26,800	40.7	195.6	25,500	43.8	200.3	24,400	125
130	32.6	180.4	25,400	37.5	189.4	24,100	40.8	194.8	23,100	130
135	28.6	172.0	24,100	34.0	182.5	22,900	37.5	188.7	21,900	135
140	24.0	161.9	22,900	30.1	174.5	21,700	34.0	181.7	20,800	140
145	18.3	148.9	21,800	25.7	165.1	20,700	30.2	173.7	19,800	145
150	9.8	128.9	20,700	20.5	153.3	19,700	25.8	164.3	18,800	150
155				13.5	137.0	18,700	20.6	152.7	17,900	155
160							13.7	136.5	17,100	160
165										165
170										170
175										175
180										180
185										185

# MLC165 S-2

ASME B30.5



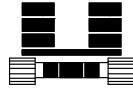
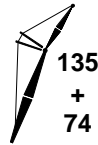
121,500 lb  
+  
35,300 lb



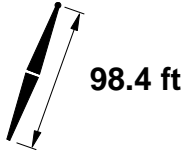
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.1	223.9	30,800							100
105	58.7	221.0	28,900							105
110	56.3	217.8	27,100							110
115	53.8	214.3	25,500	57.8	217.1	23,700				115
120	51.2	210.5	24,100	55.4	213.8	22,300				120
125	48.5	206.3	22,700	52.8	210.1	21,100				125
130	45.7	201.6	21,500	50.2	206.2	19,900				130
135	42.8	196.5	20,400	47.5	201.8	18,900	51.7	205.0	17,400	135
140	39.7	190.8	19,300	44.7	197.0	17,900	49.1	200.9	16,400	140
145	36.4	184.4	18,400	41.7	191.7	17,000	46.3	196.3	15,600	145
150	32.8	177.2	17,500	38.5	185.7	16,100	43.4	191.3	14,800	150
155	28.8	168.8	16,600	35.1	179.0	15,300	40.3	185.7	14,000	155
160	24.2	158.7	15,800	31.3	171.4	14,600	37.1	179.5	13,300	160
165	18.6	146.0	15,100	27.2	162.5	13,900	33.5	172.4	12,700	165
170	10.4	126.6	14,300	22.3	151.6	13,200	29.6	164.3	12,100	170
175				16.0	137.2	12,600	25.2	154.6	11,500	175
180				4.5	109.6	11,900	19.8	142.6	10,900	180
185							12.4	125.3	10,400	185

# MLC165 S-2

ASME B30.5



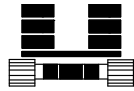
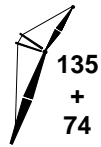
121,500 lb  
+  
35,300 lb



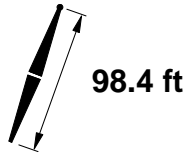
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.4	248.7	41,900 *b						55	
60	71.4	247.2	41,200 *b						60	
65	69.3	245.4	40,500 *b						65	
70	67.3	243.4	39,100 *	70.1	245.3	40,700 *			70	
75	65.2	241.2	37,600 *	68.0	243.4	39,800 *			75	
80	63.1	238.7	36,100 *	66.0	241.2	38,300 *			80	
85	60.9	236.1	34,600 *	63.8	238.9	36,900 *	66.0	240.4	38,100 *	85
90	58.7	233.2	33,200 *	61.7	236.3	35,400 *	63.9	238.1	36,700 *	90
95	56.4	230.0	31,800 *	59.5	233.5	34,000 *	61.7	235.5	35,200 *	95
100	54.1	226.5	30,500 *	57.3	230.4	32,600 *	59.5	232.7	32,900 *	100
105	51.7	222.8	29,200 *	55.0	227.1	31,200 *	57.3	229.6	30,800 *	105
110	49.2	218.6	28,000 *	52.6	223.4	30,000 *	55.0	226.3	29,000 *	110
115	46.7	214.1	26,700 *	50.2	219.4	28,400 *	52.6	222.6	27,300 *	115
120	44.0	209.2	25,600 *	47.6	215.1	26,800 *	50.2	218.6	25,700 *	120
125	41.2	203.7	24,500 *	45.0	210.3	25,400 *	47.7	214.3	24,300 *	125
130	38.2	197.7	23,500 *	42.2	205.0	24,000 *	45.0	209.5	23,100 *	130
135	35.0	191.0	22,500 *	39.3	199.2	22,800 *	42.2	204.2	21,900 *	135
140	31.5	183.3	21,600 *	36.2	192.8	21,700 *	39.3	198.4	20,800 *	140
145	27.6	174.5	20,700 *	32.8	185.5	20,600 *	36.2	192.0	19,700 *	145
150	23.1	163.9	19,900 *	29.1	177.1	19,600 *	32.8	184.7	18,800 *	150
155	17.6	150.5	19,300 *	24.8	167.3	18,700 *	29.1	176.4	17,900 *	155
160	9.5	129.8	18,700 *	19.8	155.1	17,800 *	24.9	166.6	17,100 *	160
165				13.1	138.2	17,000 *	19.9	154.5	16,300 *	165
170							13.2	137.6	15,500 *	170
175										175
180										180
185										185
190										190
195										195

# MLC165 S-2

ASME B30.5



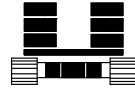
121,500 lb  
+  
35,300 lb



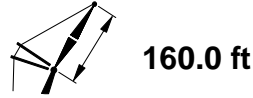
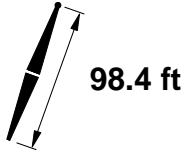
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.0	232.5	28,800							105
110	58.8	229.6	27,000							110
115	56.5	226.5	25,400							115
120	54.2	223.0	24,000	58.0	225.7	22,200				120
125	51.8	219.3	22,600	55.7	222.5	21,000				125
130	49.4	215.2	21,400	53.3	218.9	19,800				130
135	46.8	210.7	20,300	50.9	215.0	18,800				135
140	44.1	205.7	19,300	48.4	210.8	17,800	52.3	213.8	16,300	140
145	41.3	200.3	18,300	45.8	206.1	16,900	49.9	209.8	15,500	145
150	38.3	194.3	17,400	43.1	201.0	16,000	47.3	205.4	14,700	150
155	35.1	187.6	16,600	40.2	195.4	15,200	44.7	200.5	14,000	155
160	31.6	180.0	15,800	37.1	189.1	14,500	41.9	195.2	13,300	160
165	27.8	171.3	15,000	33.9	182.1	13,800	38.9	189.3	12,600	165
170	23.4	160.8	14,300	30.3	174.2	13,200	35.8	182.8	12,000	170
175	18.0	147.6	13,700	26.2	164.8	12,500	32.4	175.4	11,400	175
180	10.1	127.5	13,000	21.5	153.5	11,900	28.6	166.9	10,900	180
185				15.5	138.6	11,400	24.3	156.8	10,300	185
190				4.4	110.0	10,800	19.1	144.3	9,800	190
195							12.0	126.4	9,400	195

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

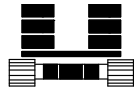
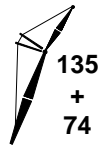


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.4	259.1	38,900 *b						55	
60	72.6	257.7	38,200 *b						60	
65	70.7	256.0	37,200 *b						65	
70	68.8	254.2	35,700 *						70	
75	66.8	252.1	34,300 *	69.5	254.1	36,200 *			75	
80	64.9	249.9	32,900 *	67.5	252.1	34,800 *			80	
85	62.9	247.4	31,500 *	65.6	250.0	33,500 *	67.6	251.3	34,600 *	85
90	60.8	244.7	30,100 *	63.6	247.6	32,100 *	65.6	249.1	33,300 *	90
95	58.8	241.8	28,700 *	61.6	245.0	30,700 *	63.6	246.8	32,000 *	95
100	56.7	238.7	27,400 *	59.5	242.2	29,400 *	61.6	244.2	30,700 *	100
105	54.5	235.3	26,200 *	57.4	239.1	28,100 *	59.6	241.3	29,400 *	105
110	52.3	231.5	24,900 *	55.3	235.8	26,800 *	57.5	238.3	28,200 *	110
115	50.0	227.5	23,800 *	53.1	232.2	25,600 *	55.3	235.0	26,900 *	115
120	47.6	223.1	22,600 *	50.8	228.3	24,400 *	53.1	231.4	25,400 *	120
125	45.1	218.3	21,600 *	48.5	224.0	23,200 *	50.8	227.4	24,000 *	125
130	42.5	213.1	20,600 *	46.0	219.4	22,200 *	48.5	223.2	22,800 *	130
135	39.8	207.4	19,600 *	43.5	214.3	21,100 *	46.1	218.6	21,600 *	135
140	36.9	201.1	18,700 *	40.8	208.8	20,100 *	43.5	213.5	20,500 *	140
145	33.8	194.0	17,800 *	38.0	202.7	19,100 *	40.8	208.0	19,500 *	145
150	30.4	186.1	16,900 *	35.0	196.0	18,200 *	38.0	202.0	18,500 *	150
155	26.7	176.9	16,200 *	31.7	188.4	17,400 *	35.0	195.2	17,600 *	155
160	22.4	165.9	15,400 *	28.1	179.7	16,600 *	31.8	187.6	16,800 *	160
165	17.1	152.0	14,800 *	24.0	169.5	15,800 *	28.2	178.9	16,000 *	165
170	9.2	130.6	13,900 *	19.2	156.8	15,200 *	24.1	168.8	15,300 *	170
175				12.7	139.3	14,300 *	19.3	156.2	14,600 *	175
180							12.8	138.8	13,900 *	180
185										185
190										190
195										195
200										200
205										205

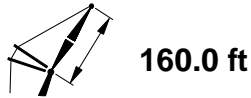
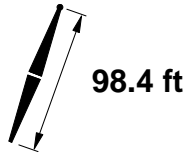


# MLC165 S-2

ASME B30.5



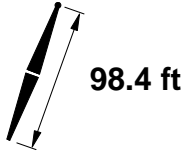
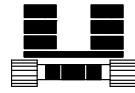
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	63.0	243.9	28,400							105
110	60.9	241.2	26,700							110
115	58.9	238.3	25,100							115
120	56.8	235.2	23,600							120
125	54.6	231.7	22,300							125
130	52.4	228.0	21,100	56.0	231.1	19,500				130
135	50.1	224.0	20,000	53.8	227.6	18,400				135
140	47.7	219.7	18,900	51.5	223.8	17,400				140
145	45.2	214.9	18,000	49.2	219.7	16,500	52.8	222.6	15,100	145
150	42.6	209.7	17,100	46.8	215.2	15,700	50.5	218.6	14,300	150
155	39.9	204.0	16,300	44.3	210.3	14,900	48.2	214.3	13,600	155
160	37.1	197.7	15,500	41.6	204.9	14,200	45.7	209.6	12,900	160
165	34.0	190.7	14,700	38.9	199.0	13,500	43.2	204.6	12,300	165
170	30.6	182.8	14,000	35.9	192.4	12,800	40.5	199.0	11,700	170
175	26.9	173.7	13,400	32.8	185.1	12,200	37.6	192.8	11,100	175
180	22.6	162.9	12,800	29.3	176.8	11,600	34.6	185.9	10,500	180
185	17.4	149.1	12,200	25.4	167.1	11,100	31.3	178.2	10,000	185
190	9.7	128.4	11,600	20.8	155.4	10,600	27.7	169.4	9,500	190
195				15.0	139.9	10,100	23.5	159.0	9,100	195
200				4.2	110.3	9,500	18.5	145.9	8,600	200
205							11.6	127.4	8,200	205

# MLC165 S-2

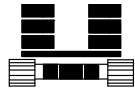
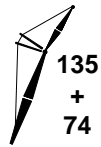
ASME B30.5



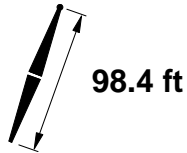
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.6	268.1	35,500 *b							60
65	71.9	266.6	34,300 *b							65
70	70.1	264.8	32,900 *							70
75	68.3	262.9	31,500 *	70.7	264.7	33,300 *				75
80	66.4	260.9	30,200 *	68.9	262.9	32,000 *				80
85	64.6	258.6	28,800 *	67.1	260.9	30,700 *				85
90	62.7	256.1	27,500 *	65.3	258.7	29,400 *	67.1	260.0	30,400 *	90
95	60.8	253.4	26,300 *	63.4	256.3	28,100 *	65.3	257.8	29,300 *	95
100	58.8	250.5	25,000 *	61.5	253.7	26,900 *	63.4	255.4	28,000 *	100
105	56.9	247.4	23,800 *	59.6	250.8	25,600 *	61.5	252.8	26,800 *	105
110	54.8	244.0	22,600 *	57.6	247.8	24,400 *	59.6	250.0	25,600 *	110
115	52.7	240.3	21,500 *	55.6	244.5	23,200 *	57.6	247.0	24,500 *	115
120	50.6	236.4	20,400 *	53.5	240.9	22,100 *	55.6	243.7	23,300 *	120
125	48.4	232.1	19,400 *	51.4	237.1	21,000 *	53.5	240.1	22,100 *	125
130	46.1	227.4	18,400 *	49.2	232.9	19,900 *	51.4	236.3	21,000 *	130
135	43.7	222.4	17,500 *	46.9	228.4	18,900 *	49.2	232.1	20,000 *	135
140	41.2	217.0	16,600 *	44.6	223.6	17,900 *	47.0	227.6	19,000 *	140
145	38.6	211.0	15,700 *	42.1	218.3	17,000 *	44.6	222.8	18,000 *	145
150	35.8	204.4	14,800 *	39.5	212.5	16,100 *	42.1	217.5	17,100 *	150
155	32.8	197.0	14,000 *	36.8	206.1	15,300 *	39.6	211.7	16,300 *	155
160	29.5	188.8	13,100 *	33.9	199.1	14,400 *	36.8	205.3	15,400 *	160
165	25.9	179.2	12,200 *	30.7	191.2	13,500 *	33.9	198.3	14,600 *	165
170	21.7	167.9	11,300 *	27.3	182.1	12,500 *	30.8	190.4	13,500 *	170
175	16.6	153.5	10,500 *	23.3	171.6	11,700 *	27.3	181.4	12,700 *	175
180	8.9	131.4	9,900 *	18.6	158.5	10,800 *	23.4	170.9	11,800 *	180
185				12.3	140.4	10,100 *	18.7	157.9	10,900 *	185
190							12.4	139.9	10,200 *	190
195										195
200										200
205										205
210										210
215										215

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



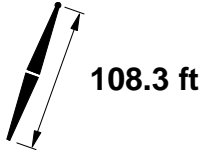
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.8	252.5	26,400							110
115	60.9	249.9	24,800							115
120	58.9	247.0	23,400							120
125	57.0	243.8	22,100							125
130	54.9	240.5	20,800							130
135	52.8	236.8	19,700	56.2	239.8	18,100				135
140	50.7	232.9	18,700	54.1	236.4	17,200				140
145	48.5	228.6	17,700	52.0	232.6	16,300				145
150	46.2	224.0	16,900	49.9	228.5	15,400				150
155	43.8	219.0	16,000	47.6	224.2	14,700	51.1	227.4	13,300	155
160	41.3	213.6	15,200	45.3	219.4	13,900	48.9	223.2	12,700	160
165	38.7	207.6	14,500	42.9	214.3	13,200	46.6	218.7	12,000	165
170	35.9	201.0	13,800	40.3	208.6	12,600	44.3	213.8	11,400	170
175	32.9	193.7	13,200	37.7	202.5	12,000	41.8	208.4	10,800	175
180	29.7	185.5	12,600	34.8	195.6	11,400	39.2	202.6	10,300	180
185	26.1	176.1	12,000	31.7	188.0	10,900	36.5	196.1	9,800	185
190	21.9	164.8	11,400	28.4	179.4	10,400	33.5	189.0	9,300	190
195	16.9	150.6	10,700*	24.6	169.3	9,900	30.3	181.0	8,900	195
200	9.4	129.2	10,000*	20.2	157.2	9,400	26.8	171.8	8,400	200
205				14.5	141.2	8,900	22.8	161.0	8,000	205
210				4.1	110.7	8,500	18.0	147.5	7,600	210
215							11.3	128.4	7,200	215

# MLC165 S-2

ASME B30.5



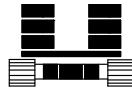
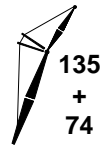
121,500 lb  
+  
35,300 lb



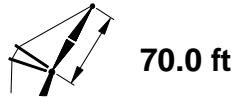
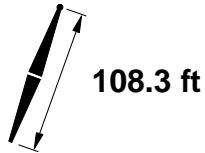
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
32	73.9	182.1	97,900 *d						32	
34	72.2	181.5	97,900 *d						34	
36	70.4	180.8	97,900 *d						36	
38	68.7	180.1	97,900 *d						38	
40	66.9	179.3	97,900 *c						40	
45	62.4	176.9	89,700 *c	69.1	179.4	98,200 c			45	
50	57.7	174.0	80,900 *b	64.7	177.3	85,600 b			50	
55	52.7	170.5	73,900 *b	60.1	174.7	75,700 b	65.2	176.6	73,000 b	55
60	47.3	166.3	68,200 *b	55.2	171.5	67,700 b	60.6	174.1	65,400 b	60
65	41.5	161.2	63,300 *b	50.1	167.7	61,200	55.8	171.0	59,000 b	65
70	34.9	154.9	58,300	44.5	163.1	55,700	50.7	167.3	53,800	70
75	26.9	146.5	53,400	38.3	157.4	51,000	45.2	162.7	49,300	75
80	15.6	133.6	49,100	31.1	150.2	47,000	39.1	157.2	45,400	80
85				22.0	140.2	43,500	32.1	150.2	42,000	85
90				2.8	117.5	40,200	23.2	140.7	39,000	90
95							7.9	122.8	36,200	95
100										100
105										105
110										110
115										115
120										120

# MLC165 S-2

ASME B30.5



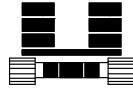
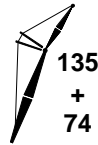
121,500 lb  
+  
35,300 lb



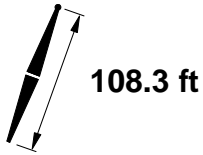
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.9	171.4	50,500 <b>b</b>							70
75	55.0	168.2	46,300 <b>b</b>							75
80	49.8	164.3	42,600							80
85	44.2	159.7	39,500	53.9	164.4	36,900 <b>b</b>				85
90	38.0	154.0	36,700	48.7	160.4	34,300				90
95	30.8	146.7	34,200	43.0	155.6	32,000	52.6	159.6	29,800	95
100	21.5	136.4	31,900	36.6	149.5	29,900	47.2	155.4	27,900	100
105				29.0	141.8	28,000	41.3	150.3	26,100	105
110				19.0	130.6	26,300	34.7	143.9	24,500	110
115							26.7	135.4	23,100	115
120							15.2	122.4	21,700	120

# MLC165 S-2

ASME B30.5



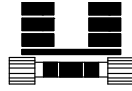
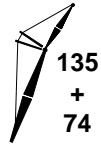
121,500 lb  
+  
35,300 lb



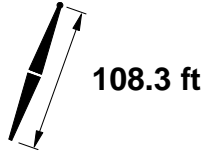
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
34	74.5	191.9	89,900 *d							34
36	73.0	191.3	89,800 *d							36
38	71.5	190.7	89,800 *d							38
40	69.9	190.0	89,700 *c							40
45	66.1	188.0	89,600 *c							45
50	62.1	185.6	81,000 *b	68.0	188.2	85,200 b				50
55	58.0	182.7	73,700 *b	64.1	186.0	75,400 b				55
60	53.6	179.3	67,800 *b	60.1	183.4	67,400 b	64.6	185.3	65,000 b	60
65	49.1	175.3	62,800 *b	55.8	180.2	60,900	60.6	182.7	58,700 b	65
70	44.1	170.5	58,100	51.4	176.6	55,400	56.4	179.7	53,400	70
75	38.7	164.9	53,200	46.7	172.2	50,800	51.9	176.1	49,000	75
80	32.6	157.9	49,100	41.5	167.0	46,800	47.2	171.8	45,100	80
85	25.1	148.8	45,400	35.8	160.8	43,300	42.1	166.7	41,800	85
90	14.6	135.0	42,100	29.1	152.9	40,300	36.5	160.6	38,800	90
95				20.5	142.1	37,500	29.9	153.0	36,200	95
100				2.6	117.7	34,900	21.7	142.7	33,800	100
105							7.4	123.4	31,600	105
110										110
115										115
120										120
125										125
130										130

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



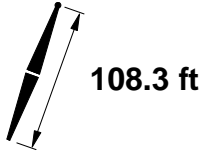
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.9	180.0	45,900 <b>b</b>							75
80	55.6	176.9	42,300							80
85	51.2	173.2	39,100							85
90	46.4	168.8	36,400	54.7	173.1	33,900				90
95	41.2	163.6	33,900	50.2	169.3	31,600				95
100	35.5	157.3	31,700	45.4	164.8	29,600				100
105	28.7	149.3	29,700	40.1	159.3	27,700	48.9	164.3	25,800	105
110	20.1	138.3	27,900	34.2	152.7	26,000	44.0	159.6	24,200	110
115				27.1	144.3	24,500	38.6	153.9	22,800	115
120				17.7	132.2	23,100	32.4	146.9	21,500	120
125							24.9	137.7	20,200	125
130							14.2	123.7	19,100	130

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

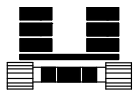
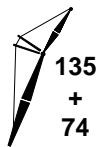


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36	74.9	201.7	81,200 *d							36
38	73.6	201.2	81,000 *d							38
40	72.3	200.6	81,000 *c							40
45	68.9	198.8	80,500 *c							45
50	65.4	196.7	77,300 *c	70.6	198.9	81,900 *b				50
55	61.9	194.2	74,200 *b	67.2	197.0	75,200 b				55
60	58.2	191.3	67,900 *b	63.7	194.7	67,200 b	67.6	196.3	64,800 b	60
65	54.4	188.0	62,900 *b	60.1	192.0	60,700	64.1	194.0	58,500 b	65
70	50.3	184.1	58,000	56.3	188.9	55,300	60.5	191.4	53,200	70
75	46.1	179.7	53,100	52.4	185.3	50,600	56.8	188.4	48,800	75
80	41.5	174.5	49,000	48.3	181.2	46,700	52.9	184.8	44,900	80
85	36.4	168.3	45,400	43.8	176.4	43,200	48.8	180.8	41,600	85
90	30.6	160.7	42,200	39.0	170.7	40,200	44.4	176.0	38,700	90
95	23.7	151.0	39,300	33.7	163.9	37,500	39.6	170.5	36,100	95
100	13.7	136.2	36,700	27.4	155.4	35,100	34.3	163.8	33,700	100
105				19.4	143.9	32,900	28.2	155.6	31,600	105
110				2.5	117.9	30,800	20.5	144.5	29,700	110
115							7.0	124.1	27,900	115
120										120
125										125
130										130
135										135
140										140

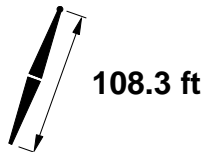


# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



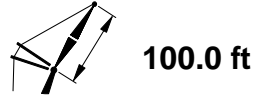
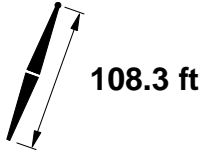
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	59.9	188.7	42,100							80
85	56.1	185.6	38,900							85
90	52.2	182.0	36,200							90
95	48.1	177.8	33,700	55.3	181.8	31,400				95
100	43.6	172.9	31,500	51.4	178.1	29,400				100
105	38.8	167.2	29,600	47.2	173.8	27,500				105
110	33.4	160.4	27,800	42.6	168.8	25,900	50.3	173.2	24,000	110
115	27.1	151.8	26,200	37.7	162.9	24,400	46.0	168.7	22,600	115
120	18.9	140.0	24,700	32.1	155.7	23,000	41.4	163.5	21,300	120
125				25.5	146.6	21,700	36.3	157.3	20,100	125
130				16.7	133.7	20,500	30.5	149.7	19,000	130
135							23.5	139.9	18,000	135
140							13.4	124.9	17,000	140

# MLC165 S-2

ASME B30.5



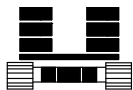
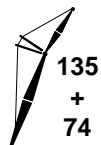
121,500 lb  
+  
35,300 lb



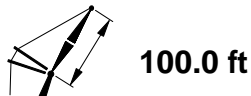
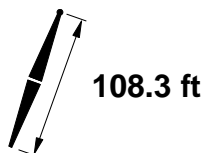
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.1	211.0	74,200 *d							40
45	71.1	209.4	73,900 *c							45
50	68.0	207.6	72,000 *c							50
55	64.9	205.4	69,100 *b	69.6	207.7	74,000 *b				55
60	61.7	202.9	66,300 *b	66.5	205.7	66,900 b				60
65	58.4	200.0	63,000 *b	63.3	203.4	60,400	66.8	205.0	58,100 b	65
70	54.9	196.7	57,700	60.1	200.7	55,000	63.7	202.7	52,900	70
75	51.4	193.0	52,900	56.7	197.6	50,400	60.4	200.1	48,400	75
80	47.6	188.7	48,800	53.2	194.1	46,400	57.1	197.0	44,600	80
85	43.6	183.8	45,100	49.5	190.1	42,900	53.6	193.6	41,300	85
90	39.3	178.1	42,000	45.6	185.5	39,900	50.0	189.6	38,400	90
95	34.5	171.5	39,100	41.5	180.3	37,200	46.1	185.1	35,800	95
100	29.0	163.4	36,600	37.0	174.1	34,800	42.0	180.0	33,500	100
105	22.4	153.0	34,400	31.9	166.8	32,700	37.5	174.0	31,400	105
110	13.0	137.4	32,300	26.0	157.8	30,700	32.5	166.8	29,500	110
115				18.3	145.5	28,900	26.7	158.0	27,800	115
120				2.3	118.1	27,200	19.4	146.3	26,200	120
125							6.6	124.7	24,700	125
130										130
135										135
140										140
145										145
150										150

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



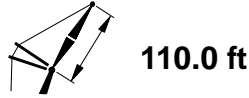
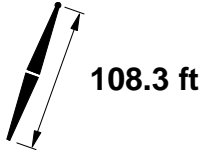
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	59.9	197.4	38,500							85
90	56.5	194.3	35,800							90
95	53.0	190.7	33,400							95
100	49.3	186.7	31,200	55.8	190.5	29,000				100
105	45.5	182.1	29,300	52.3	186.9	27,100				105
110	41.3	176.8	27,500	48.5	182.8	25,500				110
115	36.7	170.6	25,900	44.6	178.0	24,000	51.3	182.0	22,200	115
120	31.6	163.3	24,400	40.4	172.6	22,600	47.5	177.8	20,900	120
125	25.6	154.1	23,100	35.7	166.2	21,400	43.5	172.8	19,700	125
130	17.9	141.6	21,800	30.5	158.5	20,200	39.2	167.2	18,600	130
135				24.2	148.8	19,200	34.4	160.5	17,600	135
140				15.8	135.1	18,100	28.9	152.3	16,700	140
145							22.3	141.9	15,800	145
150							12.7	126.0	15,000	150

# MLC165 S-2

ASME B30.5



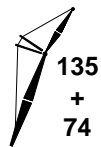
121,500 lb  
+  
35,300 lb



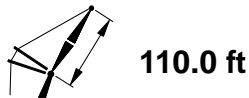
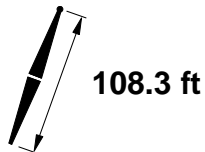
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	72.9	220.0	68,000 *c							45
50	70.1	218.3	66,900 *c							50
55	67.3	216.3	64,700 *b							55
60	64.5	214.1	62,500 *b	68.7	216.5	66,100 *b				60
65	61.5	211.5	60,500 *b	65.9	214.4	60,300				65
70	58.5	208.7	57,700	63.0	212.1	54,900	66.2	213.8	52,800	70
75	55.4	205.4	52,800	60.1	209.3	50,300	63.4	211.4	48,400	75
80	52.2	201.8	48,700	57.0	206.3	46,300	60.4	208.7	44,500	80
85	48.8	197.6	45,100	53.8	202.8	42,900	57.4	205.7	41,200	85
90	45.3	193.0	41,900	50.5	199.0	39,900	54.2	202.3	38,300	90
95	41.5	187.7	39,100	47.1	194.6	37,200	50.9	198.5	35,700	95
100	37.4	181.6	36,600	43.4	189.6	34,800	47.5	194.2	33,400	100
105	32.8	174.5	34,400	39.5	184.0	32,700	43.8	189.3	31,400	105
110	27.7	165.9	32,400	35.2	177.4	30,700	39.9	183.7	29,500	110
115	21.4	154.9	30,500	30.4	169.6	29,000	35.7	177.3	27,800	115
120	12.4	138.5	28,800	24.7	160.0	27,400	31.0	169.7	26,300	120
125				17.5	147.1	25,900	25.4	160.3	24,800	125
130				2.2	118.3	24,400	18.5	147.9	23,500	130
135							6.3	125.2	22,200	135
140										140
145										145
150										150
155										155
160										160

# MLC165 S-2

ASME B30.5



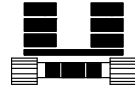
121,500 lb  
+  
35,300 lb



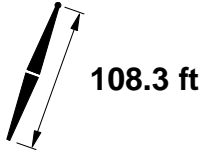
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.9	208.7	38,500							85
90	59.9	206.0	35,700							90
95	56.9	202.9	33,300							95
100	53.7	199.5	31,200							100
105	50.4	195.6	29,200	56.2	199.2	27,100				105
110	46.9	191.2	27,500	53.0	195.7	25,500				110
115	43.2	186.2	25,900	49.7	191.7	24,000				115
120	39.3	180.5	24,400	46.2	187.1	22,600	52.1	190.8	20,800	120
125	35.0	173.9	23,100	42.4	182.0	21,400	48.7	186.7	19,700	125
130	30.1	166.0	21,900	38.4	176.2	20,200	45.2	182.0	18,600	130
135	24.4	156.3	20,700	34.0	169.3	19,200	41.4	176.7	17,600	135
140	17.1	143.2	19,700	29.0	161.2	18,200	37.3	170.6	16,700	140
145				23.1	150.9	17,300	32.7	163.5	15,900	145
150				15.1	136.5	16,400	27.5	154.9	15,100	150
155							21.2	143.8	14,300	155
160							12.1	127.1	13,600	160

# MLC165 S-2

ASME B30.5



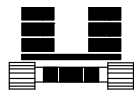
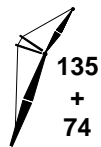
+  
35,300 lb



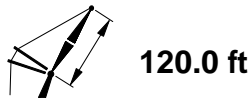
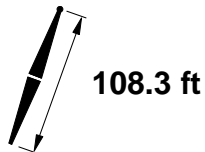
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	74.3	230.4	62,300 *c						45	
50	71.8	228.9	61,800 *c						50	
55	69.3	227.1	59,700 *b						55	
60	66.7	225.1	57,600 *b	70.6	227.2	60,800 *b			60	
65	64.1	222.8	55,600 *b	68.0	225.3	59,000 *			65	
70	61.4	220.2	53,700 *	65.4	223.2	54,600			70	
75	58.7	217.3	51,800 *	62.8	220.7	50,000	65.7	222.5	48,000	75
80	55.8	214.1	48,500	60.0	218.0	46,000	63.1	220.1	44,200	80
85	52.9	210.5	44,900	57.3	215.0	42,600	60.4	217.4	40,900	85
90	49.8	206.5	41,700	54.4	211.6	39,600	57.6	214.4	38,000	90
95	46.6	202.1	38,900	51.4	207.8	36,900	54.7	211.0	35,400	95
100	43.2	197.0	36,400	48.2	203.6	34,500	51.7	207.3	33,100	100
105	39.6	191.4	34,200	45.0	198.8	32,400	48.6	203.1	31,100	105
110	35.7	184.9	32,200	41.5	193.5	30,500	45.4	198.5	29,200	110
115	31.4	177.4	30,300	37.7	187.5	28,700	41.9	193.2	27,500	115
120	26.5	168.3	28,600	33.6	180.5	27,100	38.2	187.3	26,000	120
125	20.5	156.8	27,100	29.0	172.3	25,700	34.1	180.4	24,600	125
130	11.9	139.5	25,600	23.7	162.2	24,300	29.6	172.4	23,300	130
135				16.7	148.6	23,100	24.3	162.6	22,100	135
140				2.1	118.5	21,800	17.7	149.5	21,000	140
145							6.1	125.8	19,900	145
150										150
155										155
160										160
165										165
170										170

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



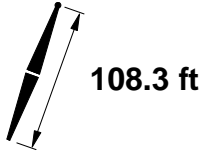
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.6	217.4	35,400							90
95	59.9	214.7	33,000							95
100	57.1	211.6	30,800							100
105	54.2	208.2	28,900							105
110	51.2	204.4	27,100	56.5	207.9	25,100				110
115	48.1	200.2	25,600	53.6	204.4	23,600				115
120	44.8	195.4	24,100	50.6	200.5	22,300				120
125	41.3	190.0	22,800	47.4	196.2	21,000	52.8	199.6	19,300	125
130	37.5	184.0	21,600	44.1	191.3	19,900	49.7	195.6	18,200	130
135	33.4	177.0	20,500	40.5	185.8	18,800	46.5	191.1	17,200	135
140	28.8	168.7	19,400	36.7	179.5	17,900	43.1	186.1	16,300	140
145	23.4	158.5	18,400	32.5	172.3	17,000	39.5	180.4	15,500	145
150	16.3	144.6	17,500	27.7	163.7	16,100	35.6	173.9	14,700	150
155				22.1	152.9	15,300	31.3	166.3	14,000	155
160				14.5	137.8	14,500	26.3	157.3	13,300	160
165							20.3	145.6	12,600	165
170							11.6	128.2	12,000	170

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

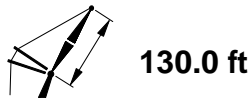
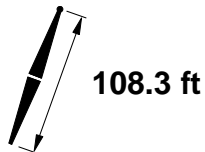
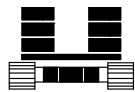
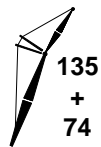


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	73.3	239.3	47,700 *c						50	
55	71.0	237.7	46,900 *b						55	
60	68.6	235.9	46,100 *b						60	
65	66.2	233.8	45,300 *b	69.8	236.0	46,800 *			65	
70	63.8	231.5	44,600 *	67.4	234.1	46,200 *			70	
75	61.3	228.9	43,900 *	65.0	231.9	45,600 *	67.7	233.4	45,900 *	75
80	58.8	226.0	42,800 *	62.6	229.4	45,100 *	65.3	231.2	44,000	80
85	56.1	222.8	41,300 *	60.0	226.7	42,400	62.8	228.8	40,700	85
90	53.4	219.3	39,800 *	57.5	223.6	39,400	60.3	226.0	37,800	90
95	50.6	215.4	38,300 *	54.8	220.3	36,700	57.8	223.1	35,200	95
100	47.7	211.1	36,200	52.1	216.6	34,300	55.1	219.7	32,900	100
105	44.7	206.3	34,000	49.2	212.5	32,200	52.4	216.1	30,900	105
110	41.5	200.9	32,000	46.2	207.9	30,300	49.6	212.0	29,000	110
115	38.0	194.9	30,200	43.1	202.9	28,500	46.6	207.5	27,300	115
120	34.3	188.1	28,500	39.8	197.2	27,000	43.5	202.5	25,800	120
125	30.1	180.1	27,000	36.2	190.8	25,500	40.2	196.9	24,400	125
130	25.4	170.6	25,600	32.3	183.4	24,200	36.6	190.6	23,100	130
135	19.6	158.6	24,200	27.9	174.8	22,900	32.8	183.4	21,900	135
140	11.4	140.6	23,000	22.7	164.2	21,800	28.4	175.0	20,800	140
145				16.1	150.0	20,700	23.4	164.7	19,800	145
150				2.1	118.7	19,600	17.0	151.1	18,800	150
155							5.8	126.3	17,900	155
160									160	
165									165	
170									170	
175									175	
180									180	



# MLC165 S-2

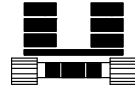
ASME B30.5



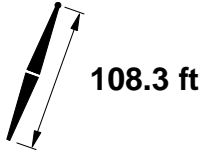
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.4	226.1	32,700							95
100	59.9	223.3	30,500							100
105	57.3	220.3	28,600							105
110	54.7	216.9	26,900							110
115	51.9	213.2	25,300	56.8	216.6	23,300				115
120	49.1	209.1	23,900	54.1	213.1	22,000				120
125	46.1	204.5	22,600	51.3	209.3	20,800				125
130	43.0	199.4	21,400	48.5	205.1	19,600				130
135	39.6	193.7	20,300	45.4	200.5	18,600	50.6	204.4	17,000	135
140	36.0	187.3	19,200	42.3	195.3	17,600	47.7	200.1	16,100	140
145	32.1	179.9	18,300	38.9	189.4	16,700	44.6	195.3	15,300	145
150	27.7	171.2	17,400	35.2	182.8	15,900	41.4	190.0	14,500	150
155	22.4	160.5	16,500	31.2	175.2	15,100	37.9	183.9	13,800	155
160	15.7	146.0	15,700	26.6	166.1	14,400	34.2	177.1	13,100	160
165				21.2	154.8	13,700	30.0	169.1	12,400	165
170				13.9	139.0	13,000	25.3	159.5	11,800	170
175							19.5	147.4	11,200	175
180							11.1	129.1	10,700	180

# MLC165 S-2

ASME B30.5



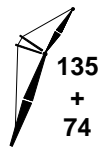
121,500 lb  
+  
35,300 lb



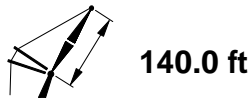
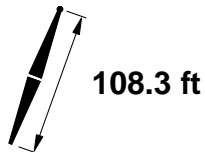
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	74.5	249.8	44,700 *c						50	
55	72.4	248.3	43,900 *b						55	
60	70.2	246.6	43,200 *b						60	
65	68.0	244.7	42,500 *b						65	
70	65.8	242.5	41,900 *	69.1	244.8	43,100 *			70	
75	63.5	240.2	40,700 *	66.9	242.8	42,500 *			75	
80	61.2	237.5	39,100 *	64.7	240.6	41,700 *	67.2	242.1	42,200 *	80
85	58.8	234.7	37,700 *	62.4	238.1	40,200 *	64.9	239.9	40,300	85
90	56.4	231.5	36,300 *	60.0	235.3	38,700 *	62.6	237.4	37,400	90
95	53.9	228.0	34,800 *	57.6	232.3	36,400	60.3	234.7	34,900	95
100	51.4	224.2	33,500 *	55.2	229.0	34,000	57.9	231.7	32,600	100
105	48.7	220.0	32,200 *	52.7	225.3	31,900	55.5	228.4	30,500	105
110	45.9	215.4	30,900 *	50.0	221.3	30,000	53.0	224.8	28,700	110
115	43.0	210.3	29,700 *	47.3	216.9	28,300	50.4	220.9	27,000	115
120	39.9	204.6	28,300	44.5	212.1	26,700	47.6	216.5	25,500	120
125	36.6	198.3	26,700	41.5	206.7	25,200	44.8	211.7	24,100	125
130	33.0	191.1	25,300	38.3	200.7	23,900	41.8	206.4	22,800	130
135	29.0	182.8	24,000	34.8	194.0	22,700	38.7	200.5	21,600	135
140	24.5	172.8	22,800	31.1	186.3	21,500	35.3	193.9	20,500	140
145	18.9	160.3	21,700	26.8	177.2	20,500	31.5	186.3	19,500	145
150	11.0	141.5	20,600	21.9	166.2	19,500	27.4	177.4	18,600	150
155				15.5	151.4	18,500	22.5	166.7	17,700	155
160				2.0	118.9	17,600	16.4	152.5	16,800	160
165							5.6	126.8	16,000	165
170										170
175										175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



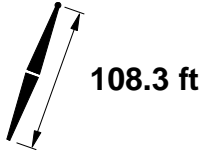
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.3	234.8	30,200							100
105	59.9	232.0	28,300							105
110	57.5	229.0	26,500							110
115	55.1	225.6	25,000							115
120	52.5	222.0	23,500	57.0	225.3	21,600				120
125	49.9	218.0	22,200	54.5	221.9	20,400				125
130	47.2	213.5	21,000	52.0	218.1	19,300				130
135	44.3	208.7	19,900	49.4	214.0	18,200				135
140	41.3	203.3	18,900	46.6	209.5	17,300	51.3	213.3	15,700	140
145	38.1	197.3	17,900	43.7	204.6	16,400	48.6	209.1	14,900	145
150	34.7	190.5	17,100	40.7	199.0	15,600	45.8	204.4	14,100	150
155	30.9	182.7	16,200	37.4	192.9	14,800	42.9	199.3	13,400	155
160	26.6	173.6	15,400	33.9	185.9	14,100	39.8	193.7	12,700	160
165	21.6	162.4	14,700	30.0	177.9	13,400	36.5	187.3	12,100	165
170	15.1	147.4	14,000	25.7	168.4	12,700	32.9	180.1	11,500	170
175				20.4	156.7	12,100	28.9	171.7	10,900	175
180				13.4	140.2	11,500	24.3	161.7	10,400	180
185							18.8	149.1	9,900	185
190							10.7	130.1	9,300	190

# MLC165 S-2

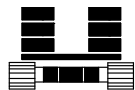
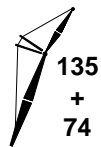
ASME B30.5



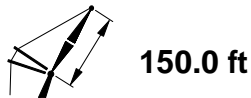
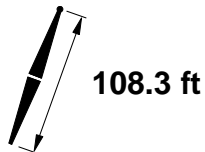
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.6	258.7	41,000 *b							55
60	71.6	257.2	40,400 *b							60
65	69.5	255.4	39,800 *b							65
70	67.5	253.4	38,900 *	70.6	255.5	40,100 *				70
75	65.4	251.2	37,500 *	68.5	253.6	39,600 *				75
80	63.3	248.8	36,000 *	66.5	251.5	38,300 *				80
85	61.1	246.2	34,600 *	64.4	249.3	36,900 *	66.7	250.8	38,200 *	85
90	58.9	243.3	33,200 *	62.2	246.7	35,600 *	64.6	248.6	37,000 *	90
95	56.7	240.2	31,900 *	60.0	244.0	34,200 *	62.5	246.1	34,700 *	95
100	54.3	236.7	30,600 *	57.8	241.0	32,800 *	60.3	243.4	32,500 *	100
105	52.0	233.0	29,300 *	55.5	237.7	31,500 *	58.1	240.4	30,400 *	105
110	49.5	228.9	28,100 *	53.2	234.1	29,900 *	55.8	237.1	28,600 *	110
115	46.9	224.4	26,900 *	50.7	230.2	28,200 *	53.5	233.6	26,900 *	115
120	44.3	219.5	25,700 *	48.2	225.9	26,600 *	51.0	229.7	25,400 *	120
125	41.4	214.1	24,700 *	45.6	221.2	25,100 *	48.5	225.5	24,000 *	125
130	38.5	208.2	23,700 *	42.9	216.1	23,800 *	45.9	220.9	22,700 *	130
135	35.3	201.5	22,700 *	40.0	210.4	22,600 *	43.2	215.8	21,600 *	135
140	31.8	194.0	21,800 *	36.9	204.1	21,500 *	40.3	210.2	20,500 *	140
145	28.0	185.3	20,800 *	33.6	197.1	20,400 *	37.3	204.0	19,400 *	145
150	23.6	175.0	20,100 *	30.0	189.0	19,400 *	34.0	197.0	18,500 *	150
155	18.3	161.9	19,300 *	25.9	179.6	18,500 *	30.4	189.1	17,600 *	155
160	10.6	142.5	18,700	21.1	168.1	17,600 *	26.4	179.8	16,800 *	160
165				15.0	152.8	16,800 *	21.7	168.6	16,000 *	165
170				1.9	119.1	16,000 *	15.8	153.9	15,300 *	170
175							5.4	127.3	14,500 *	175
180										180
185										185
190										190
195										195
200										200

# MLC165 S-2

ASME B30.5



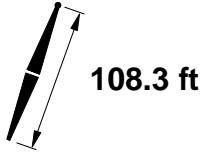
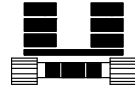
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.1	243.4	28,100							105
110	59.9	240.7	26,400							110
115	57.7	237.6	24,900							115
120	55.4	234.3	23,400							120
125	53.1	230.7	22,100	57.2	233.9	20,300				125
130	50.6	226.8	20,900	54.9	230.6	19,200				130
135	48.1	222.5	19,800	52.6	226.9	18,100				135
140	45.5	217.8	18,800	50.1	222.9	17,200				140
145	42.7	212.7	17,900	47.6	218.5	16,300	51.9	222.1	14,800	145
150	39.9	207.0	17,000	44.9	213.7	15,500	49.4	218.0	14,000	150
155	36.8	200.6	16,200	42.2	208.5	14,700	46.9	213.5	13,300	155
160	33.5	193.5	15,400	39.2	202.7	14,000	44.2	208.6	12,600	160
165	29.8	185.4	14,700	36.1	196.2	13,300	41.4	203.2	12,000	165
170	25.7	175.9	14,000	32.7	188.9	12,700	38.4	197.2	11,400	170
175	20.9	164.3	13,300	29.0	180.5	12,100	35.2	190.5	10,800	175
180	14.6	148.7	12,700	24.8	170.7	11,500	31.8	183.0	10,300	180
185				19.7	158.4	10,900	27.9	174.2	9,800	185
190				12.9	141.4	10,400	23.5	163.9	9,300	190
195							18.1	150.7	8,900	195
200							10.4	131.0	8,400	200

# MLC165 S-2

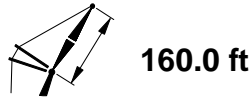
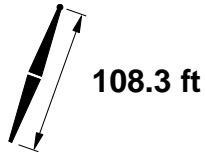
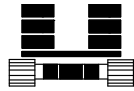
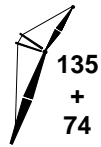
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.6	269.1	38,200 *b							55
60	72.8	267.7	37,600 *b							60
65	70.9	266.0	37,000 *b							65
70	69.0	264.2	35,500 *							70
75	67.0	262.2	34,200 *	69.9	264.3	36,200 *				75
80	65.1	259.9	32,800 *	68.0	262.4	34,800 *				80
85	63.1	257.5	31,400 *	66.1	260.3	33,500 *				85
90	61.1	254.9	30,100 *	64.1	257.9	32,300 *	66.3	259.6	33,500 *	90
95	59.0	252.0	28,800 *	62.1	255.4	31,000 *	64.3	257.3	32,200 *	95
100	56.9	248.8	27,500 *	60.0	252.6	29,700 *	62.3	254.8	31,000 *	100
105	54.7	245.4	26,300 *	57.9	249.6	28,300 *	60.3	252.0	29,800 *	105
110	52.5	241.8	25,100 *	55.8	246.4	27,100 *	58.2	249.1	28,300 *	110
115	50.2	237.8	23,900 *	53.6	242.8	25,900 *	56.1	245.8	26,600 *	115
120	47.8	233.4	22,800 *	51.4	239.0	24,700 *	53.9	242.3	25,100 *	120
125	45.4	228.7	21,700 *	49.0	234.8	23,600 *	51.6	238.5	23,700 *	125
130	42.8	223.5	20,700 *	46.6	230.3	22,500 *	49.3	234.4	22,400 *	130
135	40.1	217.9	19,700 *	44.1	225.4	21,400 *	46.9	229.9	21,300 *	135
140	37.2	211.6	18,800 *	41.5	220.0	20,400 *	44.4	225.0	20,200 *	140
145	34.1	204.6	17,900 *	38.7	214.0	19,400 *	41.8	219.7	19,200 *	145
150	30.8	196.8	17,100 *	35.7	207.4	18,500 *	39.0	213.8	18,200 *	150
155	27.1	187.7	16,300 *	32.5	200.0	17,700 *	36.1	207.3	17,300 *	155
160	22.9	177.0	15,600 *	29.0	191.6	16,900 *	32.9	200.0	16,500 *	160
165	17.7	163.5	14,900 *	25.1	181.9	16,100 *	29.4	191.7	15,800 *	165
170	10.3	143.4	14,100 *	20.5	169.9	15,400 *	25.6	182.1	15,000 *	170
175				14.5	154.0	14,600 *	21.0	170.5	14,300 *	175
180				1.9	119.2	13,900 *	15.3	155.3	13,700 *	180
185							5.3	127.7	13,000 *	185
190										190
195										195
200										200
205										205
210										210

# MLC165 S-2

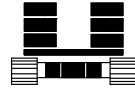
ASME B30.5



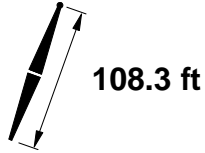
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.0	252.1	26,100							110
115	59.9	249.3	24,500							115
120	57.8	246.3	23,100							120
125	55.7	243.0	21,800							125
130	53.5	239.5	20,600	57.4	242.6	18,800				130
135	51.2	235.6	19,500	55.2	239.3	17,800				135
140	48.9	231.4	18,500	53.0	235.7	16,800				140
145	46.5	226.9	17,500	50.8	231.7	15,900				145
150	44.0	221.9	16,700	48.4	227.5	15,100	52.4	230.8	13,600	150
155	41.3	216.5	15,800	46.0	222.9	14,400	50.1	226.8	12,900	155
160	38.5	210.5	15,100	43.4	217.8	13,600	47.8	222.5	12,300	160
165	35.6	203.9	14,400	40.8	212.3	13,000	45.3	217.7	11,600	165
170	32.4	196.5	13,700	37.9	206.2	12,300	42.7	212.6	11,000	170
175	28.8	188.0	13,000	34.9	199.4	11,800	40.0	206.9	10,500	175
180	24.9	178.2	12,400	31.7	191.8	11,200	37.1	200.6	10,000	180
185	20.2	166.1	11,800	28.1	183.1	10,700	34.1	193.6	9,500	185
190	14.1	149.9	11,300	24.0	172.8	10,100	30.7	185.8	9,000	190
195				19.1	160.1	9,700	27.0	176.7	8,600	195
200				12.5	142.5	9,200	22.8	165.9	8,100	200
205							17.6	152.3	7,700	205
210							10.0	131.9	7,300	210

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

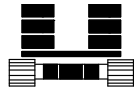
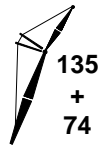


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	73.8	278.1	34,900 *b						60	
65	72.0	276.6	34,100 *b						65	
70	70.3	274.9	32,800 *						70	
75	68.5	273.0	31,400 *						75	
80	66.6	270.9	30,100 *	69.4	273.1	32,000 *			80	
85	64.8	268.6	28,800 *	67.6	271.2	30,800 *			85	
90	62.9	266.2	27,500 *	65.7	269.0	29,500 *	67.8	270.4	30,600 *	90
95	61.0	263.5	26,300 *	63.9	266.6	28,300 *	65.9	268.3	29,500 *	95
100	59.0	260.6	25,000 *	62.0	264.1	27,100 *	64.1	266.0	28,300 *	100
105	57.1	257.5	23,900 *	60.0	261.3	25,800 *	62.2	263.4	27,100 *	105
110	55.0	254.2	22,700 *	58.1	258.3	24,700 *	60.3	260.7	26,000 *	110
115	52.9	250.5	21,600 *	56.1	255.1	23,500 *	58.3	257.7	24,800 *	115
120	50.8	246.6	20,600 *	54.0	251.6	22,300 *	56.3	254.5	23,700 *	120
125	48.6	242.4	19,500 *	51.9	247.8	21,200 *	54.2	251.0	22,500 *	125
130	46.3	237.8	18,500 *	49.7	243.7	20,200 *	52.1	247.3	21,500 *	130
135	43.9	232.8	17,600 *	47.5	239.3	19,200 *	50.0	243.3	20,400 *	135
140	41.4	227.4	16,600 *	45.1	234.5	18,200 *	47.7	238.9	19,400 *	140
145	38.8	221.4	15,900 *	42.7	229.3	17,200 *	45.4	234.2	18,400 *	145
150	36.1	214.9	15,000 *	40.2	223.7	16,400 *	43.0	229.0	17,500 *	150
155	33.1	207.7	14,200 *	37.5	217.5	15,600 *	40.5	223.4	16,600 *	155
160	29.9	199.5	13,200 *	34.6	210.6	14,700 *	37.8	217.3	15,700 *	160
165	26.3	190.1	12,300 *	31.5	202.9	13,800 *	35.0	210.5	14,900 *	165
170	22.2	179.0	11,400 *	28.1	194.2	12,800 *	31.9	202.9	14,000 *	170
175	17.2	165.0	10,700 *	24.3	184.0	11,900 *	28.6	194.3	13,000 *	175
180	10.0	144.3	9,900 *	19.8	171.7	11,100 *	24.8	184.4	12,100 *	180
185				14.0	155.3	10,300 *	20.4	172.4	11,200 *	185
190				1.8	119.4	9,700 *	14.8	156.6	10,500 *	190
195							5.1	128.2	9,800 *	195
200										200
205										205
210										210
215										215
220										220

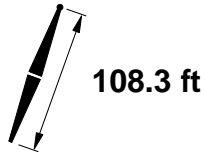


# MLC165 S-2

ASME B30.5



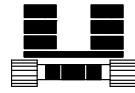
121,500 lb  
+  
35,300 lb



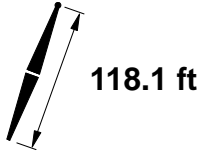
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.9	260.8	24,200							115
120	59.9	258.0	22,800							120
125	58.0	255.0	21,500							125
130	56.0	251.7	20,300							130
135	53.9	248.2	19,200	57.6	251.3	17,500				135
140	51.8	244.4	18,200	55.5	248.0	16,600				140
145	49.6	240.3	17,300	53.5	244.4	15,700				145
150	47.4	235.9	16,400	51.3	240.6	14,900				150
155	45.0	231.1	15,600	49.1	236.4	14,100	52.9	239.6	12,700	155
160	42.6	225.9	14,800	46.9	231.9	13,400	50.8	235.7	12,000	160
165	40.0	220.2	14,100	44.5	227.0	12,700	48.5	231.4	11,400	165
170	37.3	214.0	13,500	42.1	221.7	12,100	46.3	226.8	10,800	170
175	34.5	207.1	12,800	39.5	215.9	11,500	43.9	221.8	10,200	175
180	31.4	199.3	12,200	36.8	209.6	11,000	41.4	216.4	9,700	180
185	28.0	190.6	11,700	33.8	202.5	10,400	38.8	210.5	9,200	185
190	24.1	180.3	11,100	30.7	194.6	9,900	36.0	203.9	8,800	190
195	19.6	167.9	10,600	27.2	185.5	9,400	33.0	196.6	8,300	195
200	13.7	151.2	10,100	23.2	174.9	9,000	29.8	188.5	7,900	200
205				18.5	161.8	8,500	26.2	179.0	7,500	205
210				12.1	143.6	8,100	22.1	167.9	7,100	210
215							17.0	153.8	6,700	215
220							9.7	132.8	6,400	220

# MLC165 S-2

ASME B30.5



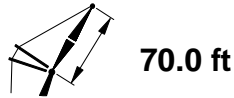
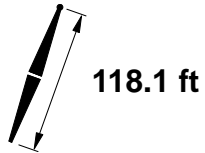
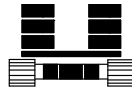
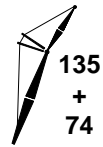
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
32	74.3	192.1	93,900 *d						32	
34	72.6	191.5	93,900 *d						34	
36	70.9	190.8	93,900 *d						36	
38	69.1	190.1	93,900 *d						38	
40	67.4	189.3	93,800 *c						40	
45	62.9	187.0	87,800 *c	70.2	189.7	95,400 *c			45	
50	58.2	184.2	79,400 *c	65.8	187.6	85,000 c			50	
55	53.2	180.7	72,600 *b	61.2	185.1	75,200 b	66.8	187.1	72,300 c	55
60	47.9	176.6	67,100 *b	56.4	182.1	67,300 b	62.2	184.7	64,700 b	60
65	42.1	171.6	62,500 *b	51.4	178.5	60,800	57.5	181.8	58,400 b	65
70	35.6	165.4	58,200	45.9	174.1	55,400	52.5	178.3	53,200 b	70
75	27.8	157.3	53,300	39.9	168.7	50,700	47.1	174.1	48,700	75
80	17.1	145.2	49,100	33.0	161.9	46,700	41.3	168.9	44,900	80
85				24.5	152.8	43,200	34.6	162.5	41,600	85
90				11.0	137.1	40,100	26.5	154.1	38,600	90
95							15.0	140.9	35,900	95
100										100
105										105
110										110
115										115
120										120
125										125

# MLC165 S-2

ASME B30.5



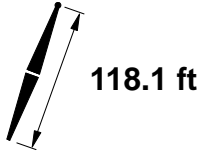
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	62.2	182.3	49,600 <b>b</b>							70
75	57.5	179.4	45,400 <b>b</b>							75
80	52.5	175.9	41,800 <b>b</b>							80
85	47.2	171.7	38,700	57.3	176.0	35,900 <b>b</b>				85
90	41.3	166.5	36,000	52.3	172.4	33,400				90
95	34.6	160.1	33,500	46.9	168.2	31,100				95
100	26.6	151.7	31,300	41.0	163.0	29,100	51.7	167.9	26,800	100
105	15.0	138.5	29,300	34.3	156.5	27,200	46.3	163.5	25,100	105
110				26.2	147.9	25,600	40.3	158.2	23,600	110
115				14.3	134.3	24,000	33.5	151.6	22,200	115
120							25.1	142.6	20,900	120
125							12.3	127.9	19,600	125

# MLC165 S-2

ASME B30.5



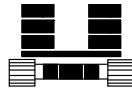
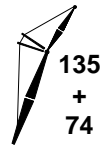
121,500 lb  
+  
35,300 lb



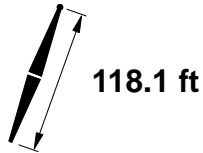
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
34	74.8	201.9	86,400 *d							34
36	73.4	201.3	86,300 *d							36
38	71.9	200.7	86,300 *d							38
40	70.3	200.0	86,200 *c							40
45	66.5	198.0	86,000 *c							45
50	62.5	195.7	79,200 *c	69.0	198.5	84,700 c				50
55	58.4	192.8	72,300 *b	65.1	196.4	74,900 b				55
60	54.1	189.5	66,500 *b	61.1	193.8	67,000 b	65.9	195.8	64,300 b	60
65	49.5	185.5	61,900 *b	56.9	190.8	60,500	62.0	193.4	58,100 b	65
70	44.6	180.9	57,900 *	52.5	187.3	55,100	57.8	190.5	52,900 b	70
75	39.3	175.3	53,200	47.8	183.1	50,500	53.5	187.1	48,400	75
80	33.2	168.5	49,000	42.8	178.1	46,500	48.9	183.0	44,600	80
85	26.0	159.7	45,400	37.2	172.2	43,100	43.9	178.3	41,300	85
90	16.0	146.7	42,100	30.8	164.8	40,000	38.5	172.6	38,400	90
95				22.9	154.9	37,300	32.3	165.5	35,800	95
100				10.3	138.1	34,800	24.8	156.3	33,500	100
105							14.0	142.1	31,300	105
110										110
115										115
120										120
125										125
130										130
135										135

# MLC165 S-2

ASME B30.5



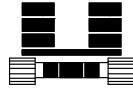
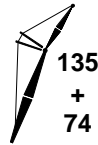
121,500 lb  
+  
35,300 lb



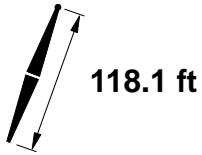
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.0	191.0	45,000 <b>b</b>							75
80	57.8	188.1	41,500							80
85	53.5	184.6	38,400							85
90	48.9	180.6	35,600	57.6	184.6	32,900				90
95	43.9	175.9	33,200	53.3	181.2	30,700				95
100	38.5	170.2	31,100	48.7	177.1	28,700				100
105	32.3	163.1	29,100	43.7	172.3	26,900	52.8	176.6	24,700	105
110	24.8	154.0	27,400	38.2	166.6	25,300	48.1	172.5	23,200	110
115	14.1	139.8	25,700	32.0	159.5	23,800	43.1	167.6	21,800	115
120				24.4	150.2	22,400	37.6	161.7	20,600	120
125				13.4	135.6	21,100	31.3	154.5	19,400	125
130							23.5	144.8	18,300	130
135							11.5	128.9	17,300	135

# MLC165 S-2

ASME B30.5



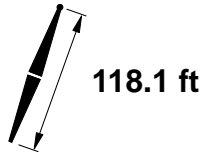
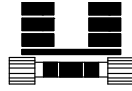
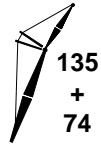
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	73.9	211.2	78,100 *d							38
40	72.6	210.6	78,000 *d							40
45	69.2	208.8	77,800 *c							45
50	65.8	206.8	76,600 *c							50
55	62.2	204.3	72,500 *b	68.0	207.2	74,700 b				55
60	58.6	201.5	66,600 *b	64.5	205.0	66,800 b				60
65	54.8	198.2	61,700 *b	60.9	202.5	60,300 b	65.3	204.5	57,800 b	65
70	50.8	194.4	57,600 *	57.2	199.5	54,900	61.7	202.0	52,600 b	70
75	46.5	190.0	53,100	53.4	196.0	50,300	58.1	199.1	48,200	75
80	42.0	184.9	48,900	49.3	192.0	46,400	54.2	195.8	44,400	80
85	37.0	178.8	45,300	44.9	187.4	42,900	50.2	191.9	41,100	85
90	31.3	171.4	42,100	40.2	181.9	39,900	45.9	187.4	38,200	90
95	24.5	162.0	39,300	35.0	175.4	37,200	41.3	182.2	35,700	95
100	15.0	148.0	36,700	29.0	167.4	34,800	36.2	175.9	33,400	100
105				21.5	156.8	32,600	30.4	168.3	31,300	105
110				9.7	138.9	30,600	23.4	158.5	29,400	110
115							13.2	143.3	27,600	115
120										120
125										125
130										130
135										135
140										140
145										145

# MLC165 S-2

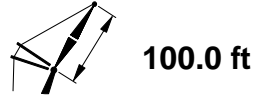
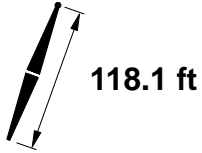
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.7	199.6	41,200 <b>b</b>							80
85	58.1	196.7	38,100							85
90	54.2	193.4	35,400							90
95	50.2	189.5	33,000	57.9	193.3	30,500				95
100	45.9	185.0	30,900	54.1	189.9	28,500				100
105	41.3	179.8	29,000	50.0	186.0	26,700				105
110	36.2	173.5	27,200	45.7	181.5	25,100				110
115	30.4	165.9	25,700	41.1	176.2	23,600	49.6	181.4	21,600	115
120	23.4	156.1	24,200	36.0	169.9	22,300	45.2	176.8	20,400	120
125	13.3	141.0	22,800	30.1	162.3	21,000	40.5	171.4	19,200	125
130				23.0	152.3	19,900	35.4	165.0	18,200	130
135				12.6	136.7	18,800	29.4	157.2	17,200	135
140							22.1	146.8	16,300	140
145							10.9	129.9	15,400	145

# MLC165 S-2

ASME B30.5

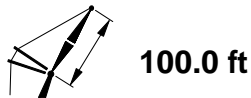
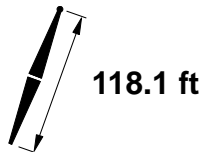
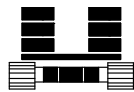
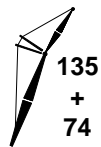


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.4	221.0	71,700 *d							40
45	71.4	219.4	71,300 *c							45
50	68.3	217.6	71,000 *c							50
55	65.2	215.5	68,600 *b	70.3	217.9	71,900 *b				55
60	62.0	213.0	65,900 *b	67.2	216.0	66,500 b				60
65	58.7	210.1	61,600 *b	64.1	213.7	60,000	67.9	215.4	57,500 b	65
70	55.3	206.9	57,400 *	60.8	211.1	54,600	64.8	213.2	52,300 b	70
75	51.7	203.2	52,900	57.5	208.2	50,000	61.6	210.7	47,900	75
80	48.0	199.0	48,700	54.0	204.7	46,100	58.3	207.8	44,100	80
85	44.0	194.2	45,100	50.4	200.9	42,600	54.8	204.5	40,800	85
90	39.7	188.6	41,900	46.6	196.5	39,600	51.2	200.7	37,900	90
95	35.0	182.0	39,100	42.5	191.4	37,000	47.5	196.4	35,300	95
100	29.6	174.1	36,600	38.1	185.5	34,600	43.4	191.5	33,100	100
105	23.2	164.1	34,300	33.2	178.5	32,400	39.1	185.8	31,000	105
110	14.3	149.3	32,200	27.5	169.9	30,500	34.3	179.1	29,200	110
115				20.4	158.7	28,700	28.8	171.0	27,500	115
120				9.2	139.8	27,100	22.2	160.5	25,900	120
125							12.5	144.5	24,500	125
130										130
135										135
140										140
145										145
150										150
155										155



# MLC165 S-2

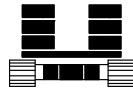
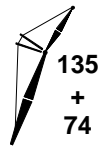
ASME B30.5



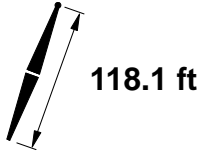
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.6	208.3	37,800							85
90	58.3	205.4	35,100							90
95	54.8	202.1	32,700							95
100	51.2	198.3	30,500							100
105	47.5	194.0	28,600	54.7	198.6	26,300				105
110	43.4	189.1	26,900	51.1	194.9	24,700				110
115	39.1	183.4	25,300	47.3	190.5	23,200				115
120	34.3	176.7	23,900	43.3	185.6	21,900	50.7	190.3	19,900	120
125	28.8	168.6	22,600	38.9	179.9	20,700	46.9	185.9	18,800	125
130	22.2	158.1	21,400	34.1	173.1	19,600	42.8	180.9	17,800	130
135	12.6	142.1	20,200	28.6	164.9	18,500	38.4	175.0	16,800	135
140				21.8	154.2	17,500	33.5	168.1	15,900	140
145				11.9	137.8	16,600	27.9	159.7	15,100	145
150							21.0	148.7	14,300	150
155							10.3	130.8	13,500	155

# MLC165 S-2

ASME B30.5



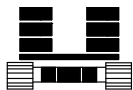
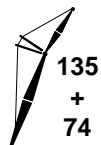
121,500 lb  
+  
35,300 lb



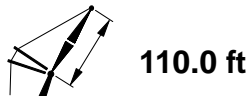
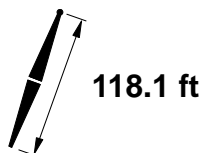
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.1	229.9	65,700 *c							45
50	70.4	228.3	65,400 *c							50
55	67.6	226.4	63,900 *b							55
60	64.8	224.2	61,800 *b	69.4	226.8	65,400 *b				60
65	61.8	221.7	59,900 *b	66.6	224.7	59,900				65
70	58.8	218.8	56,600 *	63.7	222.4	54,500	67.2	224.2	52,200	70
75	55.7	215.6	52,800	60.8	219.8	49,900	64.3	221.9	47,800	75
80	52.5	212.0	48,700	57.7	216.8	46,000	61.4	219.4	44,000	80
85	49.2	207.9	45,100	54.6	213.5	42,600	58.4	216.5	40,700	85
90	45.6	203.3	41,900	51.3	209.7	39,600	55.3	213.2	37,900	90
95	41.9	198.1	39,100	47.9	205.4	36,900	52.1	209.5	35,300	95
100	37.8	192.1	36,600	44.3	200.6	34,600	48.7	205.4	33,000	100
105	33.3	185.1	34,400	40.4	195.2	32,400	45.1	200.7	31,000	105
110	28.2	176.7	32,300	36.2	188.8	30,500	41.3	195.4	29,200	110
115	22.1	166.1	30,500	31.6	181.4	28,800	37.2	189.3	27,500	115
120	13.6	150.5	28,800	26.2	172.3	27,200	32.6	182.1	25,900	120
125				19.5	160.4	25,700	27.4	173.5	24,500	125
130				8.8	140.6	24,300	21.1	162.4	23,200	130
135							11.9	145.5	22,000	135
140										140
145										145
150										150
155										155
160										160
165										165

# MLC165 S-2

ASME B30.5



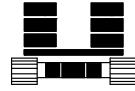
121,500 lb  
+  
35,300 lb



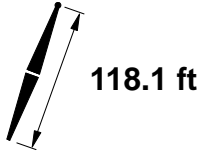
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.4	217.0	35,000							90
95	58.4	214.1	32,600							95
100	55.3	210.8	30,500							100
105	52.1	207.1	28,600							105
110	48.7	203.0	26,900	55.2	207.4	24,600				110
115	45.1	198.3	25,300	51.9	203.7	23,200				115
120	41.3	193.0	23,900	48.5	199.5	21,900				120
125	37.2	186.9	22,600	45.0	194.8	20,700	51.6	199.1	18,800	125
130	32.7	179.7	21,400	41.1	189.4	19,600	48.2	194.9	17,800	130
135	27.5	171.1	20,300	37.0	183.3	18,500	44.6	190.1	16,800	135
140	21.1	160.0	19,200	32.4	176.1	17,600	40.7	184.7	15,900	140
145	12.0	143.2	18,200	27.2	167.4	16,700	36.5	178.4	15,100	145
150				20.8	156.1	15,800	31.9	171.1	14,300	150
155				11.4	138.8	15,000	26.6	162.1	13,600	155
160							20.0	150.5	12,900	160
165							9.8	131.7	12,200	165

# MLC165 S-2

ASME B30.5



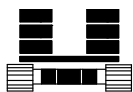
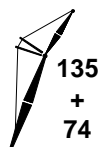
121,500 lb  
+  
35,300 lb



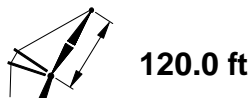
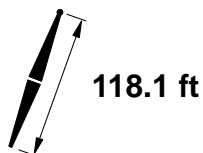
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.6	240.4	50,700 *c							45
50	72.1	238.9	49,700 *c							50
55	69.6	237.1	48,900 *b							55
60	67.0	235.1	48,000 *b							60
65	64.4	232.9	47,200 *b	68.6	235.6	49,100 *				65
70	61.7	230.3	46,400 *	66.0	233.5	48,500 *				70
75	58.9	227.5	45,600 *	63.4	231.1	47,900 *	66.6	232.9	47,500	75
80	56.1	224.3	44,900 *	60.7	228.5	45,700	64.0	230.6	43,700	80
85	53.2	220.7	43,900 *	57.9	225.5	42,300	61.3	228.0	40,400	85
90	50.1	216.8	41,400 *	55.1	222.2	39,300	58.5	225.1	37,500	90
95	47.0	212.4	38,900	52.1	218.5	36,600	55.7	221.9	35,000	95
100	43.6	207.4	36,400	49.0	214.4	34,300	52.8	218.3	32,700	100
105	40.0	201.8	34,100	45.8	209.8	32,200	49.7	214.3	30,700	105
110	36.1	195.4	32,100	42.3	204.6	30,300	46.5	209.8	28,800	110
115	31.9	188.0	30,300	38.7	198.8	28,500	43.1	204.8	27,200	115
120	27.0	179.2	28,600	34.7	192.0	26,900	39.5	199.1	25,700	120
125	21.2	168.0	27,100	30.2	184.2	25,500	35.6	192.6	24,300	125
130	13.0	151.7	25,600	25.0	174.6	24,100	31.2	185.0	23,000	130
135				18.6	162.1	22,900	26.3	175.9	21,800	135
140				8.4	141.3	21,700	20.2	164.2	20,700	140
145							11.4	146.6	19,600	145
150										150
155										155
160										160
165										165
170										170
175										175

# MLC165 S-2

ASME B30.5



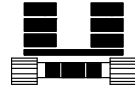
121,500 lb  
+  
35,300 lb



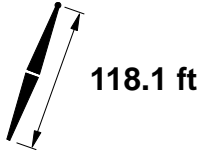
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.3	225.6	32,200							100
105	58.6	222.7	30,100							105
110	55.7	219.5	28,200							110
115	52.8	215.9	26,500							115
120	49.7	211.9	25,000	55.6	216.1	22,800				120
125	46.5	207.4	23,600	52.6	212.4	21,500				125
130	43.1	202.4	22,300	49.6	208.4	20,300				130
135	39.5	196.7	21,100	46.3	203.9	19,200	52.3	207.9	17,300	135
140	35.6	190.2	20,000	43.0	198.8	18,200	49.2	203.8	16,400	140
145	31.2	182.6	19,000	39.3	193.1	17,200	46.0	199.2	15,500	145
150	26.3	173.5	18,000	35.4	186.6	16,400	42.6	194.1	14,700	150
155	20.2	161.8	17,100	31.0	178.9	15,500	38.9	188.3	14,000	155
160	11.5	144.2	16,200	26.0	169.7	14,800	34.9	181.6	13,300	160
165				19.9	157.9	14,000	30.5	173.9	12,600	165
170				10.9	139.8	13,300	25.4	164.4	12,000	170
175							19.1	152.2	11,400	175
							9.4	132.5	10,800	175

# MLC165 S-2

ASME B30.5



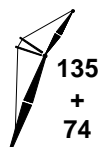
121,500 lb  
+  
35,300 lb



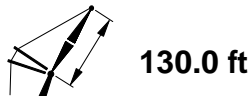
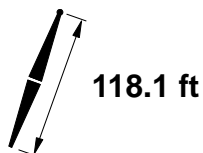
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.5	249.3	46,800 *c							50
55	71.2	247.7	46,000 *b							55
60	68.8	245.9	45,300 *b							60
65	66.5	243.9	44,500 *b	70.3	246.2	46,000 *				65
70	64.0	241.6	43,800 *	68.0	244.3	45,400 *				70
75	61.6	239.0	43,200 *	65.6	242.2	44,900 *				75
80	59.0	236.1	42,500 *	63.1	239.8	44,400 *	66.1	241.6	43,400	80
85	56.4	233.0	41,200 *	60.7	237.1	42,100	63.7	239.3	40,200	85
90	53.7	229.5	39,400 *	58.1	234.2	39,100	61.2	236.7	37,300	90
95	50.9	225.6	37,400 *	55.5	230.9	36,400	58.7	233.8	34,700	95
100	48.0	221.4	35,400 *	52.7	227.3	34,100	56.0	230.6	32,500	100
105	45.0	216.6	33,500 *	49.9	223.3	32,000	53.3	227.1	30,500	105
110	41.8	211.3	31,600 *	47.0	218.8	30,000	50.5	223.1	28,600	110
115	38.4	205.4	29,800 *	43.9	213.9	28,300	47.6	218.8	27,000	115
120	34.7	198.6	28,200 *	40.6	208.4	26,700	44.6	214.0	25,500	120
125	30.6	190.8	26,600 *	37.1	202.2	25,300	41.3	208.6	24,100	125
130	25.9	181.5	25,200 *	33.3	195.1	24,000	37.9	202.6	22,800	130
135	20.3	169.8	23,900 *	29.0	186.8	22,700	34.1	195.7	21,600	135
140	12.5	152.8	22,800 *	24.0	176.8	21,600	30.0	187.7	20,500	140
145				17.9	163.7	20,500	25.2	178.1	19,500	145
150				8.1	142.0	19,500	19.4	166.0	18,600	150
155							11.0	147.5	17,600	155
160										160
165										165
170										170
175										175
180										180
185										185

# MLC165 S-2

ASME B30.5



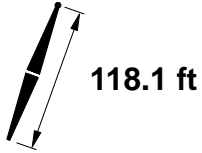
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.2	234.3	29,900							100
105	58.7	231.4	28,000							105
110	56.0	228.2	26,300							110
115	53.3	224.6	24,700							115
120	50.6	220.7	23,300	55.9	224.7	21,200				120
125	47.6	216.4	22,000	53.2	221.2	20,000				125
130	44.6	211.6	20,900	50.4	217.3	18,900				130
135	41.3	206.2	19,800	47.5	212.9	17,900	52.9	216.6	16,100	135
140	37.9	200.2	18,800	44.4	208.1	17,000	50.1	212.7	15,300	140
145	34.1	193.3	17,800	41.2	202.7	16,100	47.2	208.3	14,500	145
150	30.0	185.3	16,900	37.7	196.6	15,300	44.1	203.4	13,700	150
155	25.2	175.8	16,100	34.0	189.7	14,600	40.8	197.9	13,000	155
160	19.4	163.6	15,300	29.8	181.6	13,800	37.3	191.7	12,400	160
165	11.0	145.2	14,600	25.0	172.0	13,200	33.5	184.7	11,800	165
170				19.1	159.6	12,500	29.3	176.5	11,200	170
175				10.5	140.7	11,900	24.4	166.6	10,600	175
180							18.4	153.9	10,100	180
185							9.0	133.3	9,500	185

# MLC165 S-2

ASME B30.5

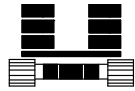
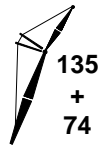


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.7	259.7	43,800 *c							50
55	72.6	258.3	43,100 *b							55
60	70.4	256.6	42,300 *b							60
65	68.2	254.7	41,700 *b							65
70	66.0	252.6	41,100 *	69.6	255.1	42,300 *				70
75	63.8	250.2	40,500 *	67.4	253.1	41,800 *				75
80	61.4	247.7	39,100 *	65.2	250.9	41,400 *	67.9	252.5	41,400 *	80
85	59.1	244.8	37,600 *	62.9	248.5	40,300 *	65.7	250.4	39,800	85
90	56.7	241.7	36,200 *	60.6	245.8	38,800	63.4	248.0	36,900	90
95	54.2	238.2	34,900 *	58.2	242.8	36,100	61.1	245.4	34,400	95
100	51.6	234.4	33,500 *	55.8	239.6	33,800	58.8	242.5	32,200	100
105	49.0	230.3	32,100 *	53.3	236.0	31,700	56.3	239.3	30,100	105
110	46.2	225.7	30,600 *	50.7	232.1	29,800	53.8	235.8	28,300	110
115	43.3	220.7	28,900 *	48.0	227.8	28,000	51.3	232.0	26,700	115
120	40.2	215.1	27,500 *	45.2	223.1	26,500	48.6	227.8	25,100	120
125	36.9	208.8	26,100 *	42.2	217.8	25,000	45.8	223.1	23,800	125
130	33.4	201.7	24,700 *	39.1	212.0	23,700	42.9	218.0	22,500	130
135	29.4	193.5	23,400 *	35.7	205.5	22,500	39.8	212.3	21,300	135
140	25.0	183.8	22,300 *	32.0	198.0	21,400	36.4	205.9	20,300	140
145	19.6	171.6	21,200 *	27.9	189.3	20,300	32.8	198.7	19,200	145
150	12.0	153.9	20,300 *	23.2	178.9	19,300	28.9	190.3	18,300	150
155				17.2	165.3	18,400	24.3	180.3	17,400	155
160				7.8	142.7	17,500	18.7	167.6	16,600	160
165							10.6	148.5	15,800	165
170										170
175										175
180										180
185										185
190										190
195										195

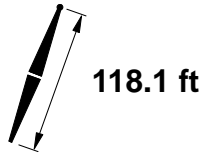


# MLC165 S-2

ASME B30.5



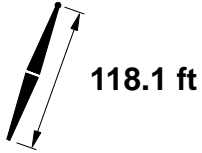
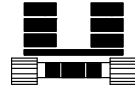
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.1	242.9	27,600							105
110	58.8	240.1	25,900							110
115	56.3	236.9	24,400							115
120	53.8	233.4	23,000							120
125	51.3	229.6	21,700	56.2	233.4	19,700				125
130	48.6	225.4	20,500	53.7	229.9	18,600				130
135	45.8	220.7	19,400	51.1	226.1	17,600				135
140	42.9	215.6	18,400	48.5	221.9	16,600				140
145	39.8	209.9	17,500	45.7	217.2	15,800	50.9	221.5	14,100	145
150	36.5	203.5	16,600	42.7	212.1	15,000	48.2	217.2	13,300	150
155	32.9	196.3	15,800	39.6	206.4	14,200	45.3	212.5	12,600	155
160	28.9	187.9	15,000	36.3	199.9	13,500	42.4	207.3	12,000	160
165	24.3	178.0	14,300	32.7	192.7	12,800	39.3	201.6	11,400	165
170	18.7	165.3	13,600	28.7	184.2	12,200	35.9	195.1	10,800	170
175	10.6	146.2	13,000	24.1	174.2	11,600	32.3	187.7	10,300	175
180				18.4	161.3	11,000	28.2	179.1	9,800	180
185				10.1	141.6	10,500	23.5	168.8	9,300	185
190							17.7	155.5	8,800	190
195							8.7	134.1	8,300	195

# MLC165 S-2

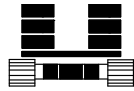
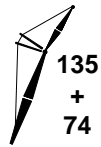
ASME B30.5



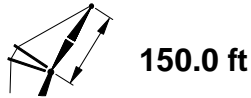
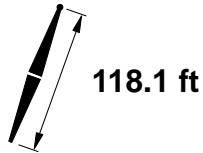
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.8	268.7	40,300 *b							55
60	71.8	267.2	39,700 *b							60
65	69.8	265.4	39,000 *b							65
70	67.7	263.5	38,500 *							70
75	65.6	261.3	37,300 *	69.0	263.9	38,900 *				75
80	63.5	258.9	35,900 *	67.0	261.8	38,300 *				80
85	61.4	256.3	34,500 *	64.9	259.6	37,000 *	67.4	261.3	38,100 *	85
90	59.2	253.5	33,200 *	62.7	257.1	35,700 *	65.3	259.1	36,800	90
95	56.9	250.3	31,900 *	60.6	254.4	34,300 *	63.2	256.7	34,300	95
100	54.6	246.9	30,600 *	58.3	251.5	33,000 *	61.0	254.0	32,000	100
105	52.2	243.2	29,400 *	56.1	248.3	31,500	58.8	251.1	30,000	105
110	49.8	239.2	28,100 *	53.7	244.8	29,700	56.6	248.0	28,200	110
115	47.2	234.7	27,000 *	51.3	240.9	27,900	54.3	244.5	26,500	115
120	44.5	229.9	25,900 *	48.8	236.7	26,400	51.9	240.8	25,000	120
125	41.7	224.6	24,800 *	46.3	232.2	24,900	49.4	236.7	23,700	125
130	38.8	218.7	23,700 *	43.5	227.2	23,600	46.8	232.2	22,400	130
135	35.6	212.1	22,800 *	40.7	221.6	22,400	44.2	227.3	21,200	135
140	32.2	204.6	21,900 *	37.7	215.5	21,300	41.3	221.9	20,200	140
145	28.4	196.1	20,900 *	34.4	208.6	20,200	38.4	215.9	19,200	145
150	24.1	185.9	19,800 *	30.9	200.8	19,300	35.2	209.2	18,200	150
155	18.9	173.3	19,000 *	26.9	191.8	18,300	31.7	201.6	17,400	155
160	11.6	154.9	18,200 *	22.4	180.9	17,500	27.9	192.9	16,500	160
165				16.6	166.8	16,700	23.4	182.4	15,800	165
170				7.5	143.4	15,900	18.0	169.2	15,000	170
175							10.2	149.4	14,300	175
180										180
185										185
190										190
195										195
200										200
205										205

# MLC165 S-2

ASME B30.5



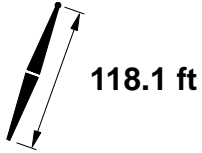
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.1	251.6	25,800							110
115	58.8	248.7	24,300							115
120	56.6	245.6	22,900							120
125	54.3	242.1	21,600							125
130	51.9	238.4	20,400	56.5	242.1	18,500				130
135	49.4	234.3	19,300	54.2	238.7	17,400				135
140	46.8	229.8	18,300	51.8	234.9	16,500				140
145	44.2	224.9	17,400	49.3	230.8	15,700				145
150	41.4	219.5	16,500	46.7	226.3	14,900	51.5	230.3	13,200	150
155	38.4	213.5	15,700	44.0	221.3	14,100	49.0	226.2	12,500	155
160	35.2	206.8	15,000	41.2	215.9	13,400	46.4	221.6	11,900	160
165	31.7	199.2	14,300	38.2	209.9	12,800	43.7	216.6	11,300	165
170	27.9	190.5	13,600	35.0	203.2	12,100	40.9	211.1	10,700	170
175	23.5	180.1	13,000	31.5	195.5	11,600	37.9	205.1	10,200	175
180	18.1	166.9	12,300	27.7	186.7	11,000	34.7	198.2	9,700	180
185	10.3	147.1	11,700	23.2	176.2	10,500	31.1	190.5	9,200	185
190				17.8	162.9	10,000	27.2	181.6	8,700	190
195				9.8	142.5	9,500	22.7	170.8	8,300	195
200							17.1	157.0	7,900	200
205							8.4	134.9	7,400	205

# MLC165 S-2

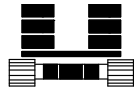
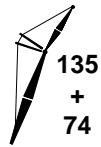
ASME B30.5



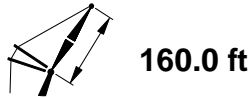
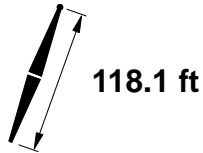
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.8	279.1	37,500 *b							55
60	72.9	277.6	36,900 *b							60
65	71.1	276.0	36,300 *b							65
70	69.2	274.2	35,300 *							70
75	67.2	272.2	34,000 *	70.4	274.5	36,000 *				75
80	65.3	270.0	32,700 *	68.5	272.6	34,800 *				80
85	63.3	267.6	31,400 *	66.5	270.6	33,600 *				85
90	61.3	265.0	30,000 *	64.6	268.3	32,300 *	67.0	270.0	33,500 *	90
95	59.2	262.1	28,800 *	62.6	265.8	31,100 *	65.0	267.8	32,400 *	95
100	57.1	259.0	27,600 *	60.5	263.1	29,800 *	63.0	265.3	31,200 *	100
105	54.9	255.6	26,400 *	58.5	260.2	28,600 *	61.0	262.7	29,700 *	105
110	52.7	252.0	25,100 *	56.3	257.0	27,400 *	58.9	259.8	27,900 *	110
115	50.4	248.0	24,000 *	54.1	253.5	26,100 *	56.8	256.6	26,200 *	115
120	48.1	243.7	22,900 *	51.9	249.7	25,000 *	54.6	253.2	24,700 *	120
125	45.6	239.0	21,900 *	49.6	245.6	23,900 *	52.4	249.5	23,400 *	125
130	43.1	233.9	20,800 *	47.2	241.2	22,800 *	50.1	245.5	22,100 *	130
135	40.4	228.3	19,900 *	44.7	236.4	21,700 *	47.7	241.2	20,900 *	135
140	37.5	222.1	18,900 *	42.1	231.1	20,700 *	45.3	236.4	19,900 *	140
145	34.5	215.2	18,000 *	39.4	225.3	19,700 *	42.7	231.2	18,900 *	145
150	31.2	207.5	17,200 *	36.4	218.8	18,800 *	40.0	225.6	17,900 *	150
155	27.5	198.6	16,400 *	33.3	211.7	18,000 *	37.1	219.3	17,100 *	155
160	23.3	188.0	15,700 *	29.9	203.5	17,100 *	34.0	212.3	16,300 *	160
165	18.3	174.9	15,000 *	26.1	194.1	16,300 *	30.7	204.4	15,500 *	165
170	11.3	155.9	14,300 *	21.6	182.8	15,600 *	27.0	195.3	14,800 *	170
175				16.1	168.2	15,000 *	22.7	184.5	14,100 *	175
180				7.3	144.0	14,100 *	17.5	170.8	13,500 *	180
185							9.9	150.3	12,800 *	185
190										190
195										195
200										200
205										205
210										210
215										215

# MLC165 S-2

ASME B30.5



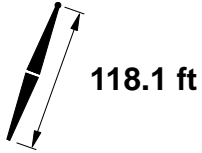
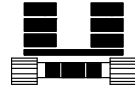
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.0	260.3	23,900							115
120	58.9	257.4	22,500							120
125	56.8	254.2	21,200							125
130	54.6	250.8	20,100							130
135	52.4	247.1	19,000	56.7	250.8	17,100				135
140	50.1	243.1	18,000	54.5	247.4	16,200				140
145	47.7	238.8	17,100	52.3	243.7	15,300				145
150	45.3	234.0	16,200	50.0	239.6	14,500				150
155	42.7	228.8	15,400	47.6	235.3	13,800	52.1	239.1	12,200	155
160	40.0	223.2	14,700	45.2	230.5	13,100	49.7	235.1	11,500	160
165	37.1	216.9	14,000	42.6	225.3	12,400	47.4	230.6	10,900	165
170	34.0	209.9	13,300	39.9	219.6	11,800	44.9	225.8	10,400	170
175	30.7	202.0	12,700	37.0	213.3	11,200	42.3	220.6	9,800	175
180	27.0	192.9	12,100	33.9	206.3	10,700	39.5	214.8	9,300	180
185	22.7	182.1	11,500	30.5	198.3	10,200	36.6	208.4	8,800	185
190	17.5	168.4	11,000	26.8	189.2	9,700	33.5	201.3	8,400	190
195	9.9	148.0	10,400	22.5	178.3	9,200	30.1	193.2	8,000	195
200				17.2	164.4	8,700	26.3	183.9	7,600	200
205				9.4	143.3	8,300	22.0	172.8	7,200	205
210							16.5	158.5	6,800	210
215							8.1	135.6	6,400	215

# MLC165 S-2

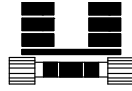
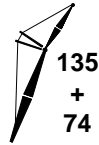
ASME B30.5



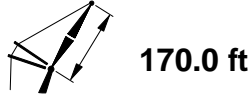
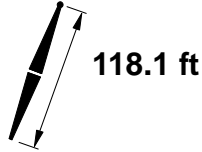
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	74.0	288.1	33,900 *b						60	
65	72.2	286.6	33,300 *b						65	
70	70.4	284.9	32,500 *						70	
75	68.6	283.0	31,300 *						75	
80	66.8	281.0	30,000 *	69.8	283.3	31,900 *			80	
85	65.0	278.7	28,700 *	68.0	281.4	30,800 *			85	
90	63.1	276.3	27,500 *	66.2	279.3	29,600 *			90	
95	61.2	273.6	26,300 *	64.3	277.0	28,400 *	66.6	278.7	29,600 *	95
100	59.3	270.8	25,100 *	62.4	274.5	27,200 *	64.7	276.5	28,500 *	100
105	57.3	267.7	23,900 *	60.5	271.8	26,000 *	62.8	274.0	27,400 *	105
110	55.2	264.3	22,800 *	58.5	268.8	24,900 *	60.9	271.3	26,300 *	110
115	53.2	260.7	21,700 *	56.5	265.6	23,700 *	59.0	268.5	25,100 *	115
120	51.0	256.8	20,600 *	54.5	262.2	22,700 *	57.0	265.3	24,000 *	120
125	48.8	252.6	19,700 *	52.4	258.5	21,500 *	55.0	262.0	22,900 *	125
130	46.5	248.1	18,700 *	50.2	254.5	20,500 *	52.9	258.3	21,900 *	130
135	44.2	243.2	17,700 *	48.0	250.2	19,500 *	50.7	254.4	20,700 *	135
140	41.7	237.8	16,800 *	45.7	245.5	18,500 *	48.5	250.1	19,600 *	140
145	39.1	231.9	16,000 *	43.3	240.4	17,600 *	46.2	245.5	18,600 *	145
150	36.4	225.4	15,100 *	40.8	234.9	16,700 *	43.8	240.5	17,700 *	150
155	33.4	218.3	14,300 *	38.1	228.8	15,800 *	41.3	235.1	16,900 *	155
160	30.2	210.2	13,400 *	35.3	222.1	15,000 *	38.7	229.1	16,100 *	160
165	26.7	201.0	12,400 *	32.3	214.6	14,100 *	36.0	222.6	15,300 *	165
170	22.6	190.1	11,600 *	29.0	206.2	13,100 *	33.0	215.3	14,500 *	170
175	17.7	176.5	10,700 *	25.3	196.4	12,200 *	29.7	207.1	13,400 *	175
180	10.9	156.9	10,000 *	21.0	184.7	11,400 *	26.1	197.7	12,500 *	180
185				15.6	169.6	10,500 *	22.0	186.5	11,600 *	185
190				7.0	144.7	9,800 *	16.9	172.3	10,800 *	190
195							9.6	151.1	10,000 *	195
200										200
205										205
210										210
215										215

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



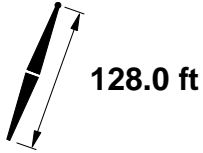
	75°			70°			
	ft	ft	lb	ft	ft	lb	
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	62.8	271.6	23,600				115
120	60.9	268.9	22,200				120
125	59.0	266.0	21,000				125
130	57.0	262.9	19,800				130
135	55.0	259.5	18,700				135
140	52.9	255.9	17,700	56.9	259.5	15,900	140
145	50.7	252.0	16,800	54.9	256.1	15,000	145
150	48.5	247.7	16,000	52.8	252.4	14,200	150
155	46.2	243.1	15,200	50.6	248.5	13,500	155
160	43.8	238.1	14,400	48.4	244.2	12,800	160
165	41.4	232.7	13,700	46.1	239.6	12,200	165
170	38.7	226.7	13,100	43.7	234.6	11,600	170
175	36.0	220.2	12,400	41.2	229.1	11,000	175
180	33.0	212.9	11,800	38.6	223.2	10,400	180
185	29.7	204.7	11,300	35.8	216.6	9,900	185
190	26.1	195.3	10,800	32.8	209.3	9,400	190
195	22.0	184.1	10,300	29.6	201.0	9,000	195
200	17.0	170.0	9,800	26.0	191.5	8,500	200
205	9.6	148.8	9,300	21.8	180.2	8,100	205
210				16.7	165.9	7,700	210
215				9.2	144.1	7,300	215

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

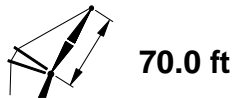
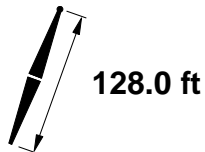
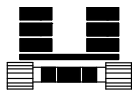
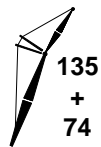


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
32	74.8	202.0	89,900 *d						32	
34	73.1	201.5	89,900 *d						34	
36	71.3	200.8	89,900 *d						36	
38	69.6	200.1	89,800 *d						38	
40	67.8	199.3	89,800 *c						40	
45	63.3	197.1	83,500 *c						45	
50	58.7	194.3	77,500 *c	66.9	197.9	83,700 *c			50	
55	53.7	191.0	71,000 *b	62.3	195.6	74,700 b			55	
60	48.5	186.9	65,700 *b	57.6	192.7	66,800 b	63.8	195.3	63,900 b	60
65	42.8	182.0	61,200 *b	52.6	189.2	60,400 b	59.1	192.6	57,700 b	65
70	36.3	176.0	57,600 *	47.2	185.0	55,000	54.2	189.3	52,600 b	70
75	28.7	168.1	53,200	41.4	179.9	50,400	49.0	185.3	48,200	75
80	18.5	156.7	49,000	34.7	173.5	46,400	43.3	180.5	44,400	80
85				26.7	165.1	42,900	37.0	174.6	41,100	85
90				15.3	152.1	39,800	29.5	167.0	38,200	90
95							19.7	156.0	35,500	95
100										100
105										105
110										110
115										115
120										120
125										125
130										130



# MLC165 S-2

ASME B30.5



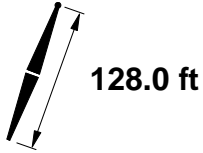
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.9	190.4	44,500 <b>b</b>							75
80	55.1	187.3	41,000 <b>b</b>							80
85	49.9	183.4	38,000							85
90	44.4	178.8	35,300	55.7	184.1	32,400 <b>b</b>				90
95	38.1	173.1	32,900	50.6	180.4	30,200				95
100	30.9	165.8	30,700	45.0	175.8	28,200				100
105	21.7	155.7	28,800	38.9	170.3	26,400	50.8	176.1	24,100	105
110				31.8	163.2	24,800	45.3	171.6	22,600	110
115				22.9	153.6	23,300	39.2	166.1	21,300	115
120				7.1	134.9	21,900	32.2	159.2	20,000	120
125							23.4	149.7	18,900	125
130							8.5	132.2	17,700	130

# MLC165 S-2

ASME B30.5



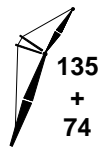
121,500 lb  
+  
35,300 lb



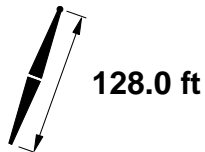
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36	73.7	211.3	82,200 *d							36
38	72.2	210.7	82,200 *d							38
40	70.7	210.0	82,100 *d							40
45	66.9	208.1	79,600 *c							45
50	62.9	205.7	74,400 *c	69.9	208.7	79,800 *c				50
55	58.8	203.0	69,700 *b	66.0	206.7	74,300 b				55
60	54.5	199.7	65,200 *b	62.0	204.2	66,500 b	67.3	206.3	63,500 b	60
65	50.0	195.8	60,700 *b	57.9	201.3	60,100 b	63.3	204.0	57,400 b	65
70	45.2	191.2	56,900 *	53.6	197.9	54,700	59.2	201.2	52,200 b	70
75	39.9	185.8	53,100	49.0	193.9	50,100	55.0	198.0	47,800	75
80	33.9	179.1	48,900	44.0	189.2	46,200	50.5	194.2	44,100	80
85	26.8	170.6	45,300	38.6	183.5	42,700	45.7	189.7	40,800	85
90	17.3	158.2	42,000	32.4	176.5	39,700	40.4	184.3	37,900	90
95				25.0	167.4	37,000	34.5	177.8	35,300	95
100				14.3	153.3	34,600	27.6	169.5	33,100	100
105							18.4	157.7	31,000	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

# MLC165 S-2

ASME B30.5



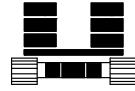
121,500 lb  
+  
35,300 lb



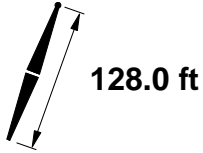
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.0	199.1	40,600 <b>b</b>							80
85	55.7	196.0	37,600							85
90	51.3	192.3	34,900							90
95	46.5	187.9	32,500	56.2	192.8	29,800				95
100	41.4	182.7	30,400	51.8	189.2	27,800				100
105	35.6	176.4	28,500	47.1	184.9	26,100				105
110	28.9	168.5	26,800	42.0	179.8	24,500	52.0	184.9	22,200	110
115	20.3	157.6	25,200	36.3	173.7	23,000	47.3	180.7	20,900	115
120				29.7	166.0	21,700	42.2	175.6	19,700	120
125				21.4	155.5	20,500	36.6	169.6	18,600	125
130				6.6	135.5	19,300	30.1	162.0	17,500	130
135							21.9	151.7	16,500	135
140							8.0	132.9	15,600	140

# MLC165 S-2

ASME B30.5



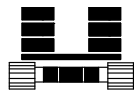
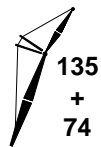
121,500 lb  
+  
35,300 lb



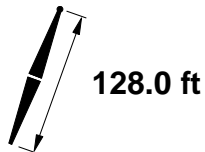
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	74.3	221.1	75,100 *d							38
40	72.9	220.5	75,100 *d							40
45	69.6	218.9	74,700 *c							45
50	66.1	216.8	72,100 *c							50
55	62.6	214.4	67,800 *b	68.8	217.5	72,300 *b				55
60	59.0	211.6	63,700 *b	65.4	215.4	66,300 b				60
65	55.2	208.4	60,100 *b	61.8	212.9	59,900 b	66.5	215.0	57,100 b	65
70	51.2	204.6	56,300 *	58.1	210.0	54,500	63.0	212.6	52,000 b	70
75	47.0	200.3	53,000 *	54.3	206.7	49,900	59.3	209.9	47,600	75
80	42.5	195.3	48,800	50.3	202.8	46,000	55.6	206.7	43,900	80
85	37.5	189.3	45,200	46.0	198.3	42,600	51.6	203.0	40,600	85
90	31.9	182.1	42,000	41.4	193.1	39,600	47.4	198.7	37,700	90
95	25.3	172.9	39,200	36.3	186.9	36,900	42.9	193.8	35,200	95
100	16.3	159.7	36,600	30.5	179.3	34,500	38.0	187.9	32,900	100
105				23.5	169.5	32,400	32.5	180.8	30,900	105
110				13.5	154.6	30,400	26.0	171.9	29,000	110
115							17.3	159.3	27,300	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

# MLC165 S-2

ASME B30.5



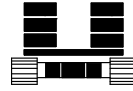
121,500 lb  
+  
35,300 lb



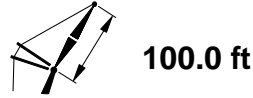
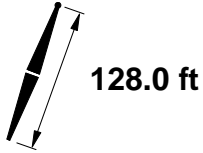
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.0	207.8	37,300							85
90	56.2	204.7	34,700							90
95	52.3	201.1	32,300							95
100	48.1	196.9	30,200	56.7	201.5	27,600				100
105	43.7	192.1	28,400	52.8	198.0	25,800				105
110	38.9	186.4	26,600	48.6	193.9	24,300				110
115	33.5	179.5	25,100	44.3	189.1	22,800	52.9	193.7	20,600	115
120	27.2	171.0	23,700	39.5	183.5	21,500	48.8	189.6	19,400	120
125	19.1	159.3	22,300	34.2	176.9	20,300	44.5	184.9	18,300	125
130				28.0	168.6	19,200	39.7	179.4	17,300	130
135				20.2	157.4	18,200	34.4	172.8	16,400	135
140				6.2	136.1	17,100	28.3	164.6	15,500	140
145							20.6	153.6	14,700	145
150							7.5	133.6	13,800	150

# MLC165 S-2

ASME B30.5



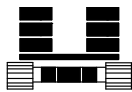
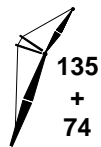
121,500 lb  
+  
35,300 lb



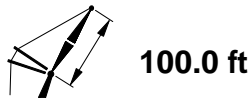
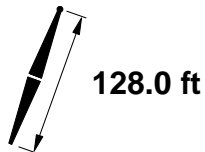
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
40	74.7	231.0	69,100 *d						40	
45	71.7	229.4	68,700 *c						45	
50	68.7	227.6	68,400 *c						50	
55	65.5	225.5	65,400 *b						55	
60	62.4	223.1	61,800 *b	68.0	226.3	65,700 *b			60	
65	59.1	220.3	58,400 *b	64.8	224.1	59,500 b			65	
70	55.7	217.1	55,300 *	61.6	221.6	54,200	65.9	223.7	51,600 b	70
75	52.1	213.4	52,300 *	58.3	218.7	49,600	62.7	221.3	47,300	75
80	48.4	209.3	48,600	54.9	215.4	45,700	59.4	218.5	43,500	80
85	44.4	204.5	45,000	51.3	211.6	42,300	56.0	215.4	40,300	85
90	40.2	199.0	41,800	47.5	207.3	39,300	52.5	211.8	37,400	90
95	35.5	192.6	39,000	43.5	202.4	36,700	48.8	207.7	34,900	95
100	30.2	184.9	36,500	39.2	196.7	34,300	44.8	203.0	32,600	100
105	23.9	175.1	34,300	34.4	190.1	32,200	40.6	197.6	30,600	105
110	15.4	161.1	32,200	28.9	182.0	30,300	36.0	191.2	28,800	110
115				22.3	171.5	28,500	30.8	183.6	27,100	115
120				12.8	155.7	26,900	24.6	174.1	25,600	120
125							16.4	160.8	24,100	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



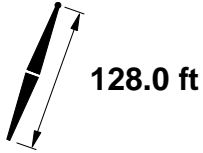
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.0	216.4	34,300							90
95	56.6	213.3	32,000							95
100	53.1	209.8	29,900							100
105	49.4	205.8	28,000	57.0	210.2	25,400				105
110	45.5	201.2	26,300	53.5	206.7	23,900				110
115	41.4	195.9	24,800	49.9	202.8	22,500				115
120	36.8	189.8	23,400	46.0	198.2	21,200				120
125	31.7	182.4	22,100	41.9	193.1	20,000	50.0	198.5	17,900	125
130	25.8	173.3	20,900	37.4	187.0	18,900	46.2	194.0	16,900	130
135	18.1	160.9	19,800	32.4	179.8	17,900	42.1	188.9	16,000	135
140				26.5	171.0	16,900	37.6	182.9	15,100	140
145				19.1	159.1	16,000	32.6	175.8	14,300	145
150				5.9	136.6	15,100	26.8	167.0	13,600	150
155							19.6	155.3	12,900	155
160							7.1	134.3	12,100	160

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

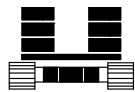
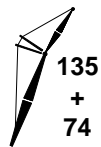


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.4	239.9	63,500 *c							45
50	70.7	238.3	63,100 *c							50
55	67.9	236.4	61,900 *b							55
60	65.1	234.2	59,100 *b	70.1	237.0	63,200 *b				60
65	62.1	231.8	56,200 *b	67.3	235.0	59,400 b				65
70	59.2	228.9	53,200 *	64.4	232.8	54,100				70
75	56.1	225.8	50,100 *	61.5	230.2	49,500	65.3	232.4	47,200	75
80	52.9	222.2	47,100 *	58.5	227.3	45,600	62.4	230.0	43,500	80
85	49.5	218.2	44,300 *	55.4	224.1	42,200	59.5	227.2	40,200	85
90	46.0	213.6	41,500 *	52.1	220.4	39,300	56.4	224.1	37,400	90
95	42.3	208.5	38,800 *	48.8	216.3	36,600	53.2	220.5	34,800	95
100	38.2	202.6	36,300 *	45.2	211.6	34,300	49.9	216.6	32,600	100
105	33.8	195.7	34,100 *	41.4	206.3	32,200	46.4	212.1	30,600	105
110	28.8	187.5	31,900 *	37.3	200.2	30,300	42.6	207.0	28,800	110
115	22.8	177.1	30,100 *	32.7	193.1	28,500	38.6	201.2	27,100	115
120	14.7	162.4	27,900 *	27.6	184.5	26,900	34.3	194.4	25,600	120
125				21.3	173.5	25,500	29.3	186.3	24,200	125
130				12.2	156.8	24,100	23.5	176.3	22,900	130
135							15.7	162.2	21,700	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

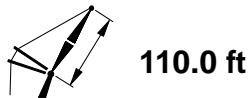
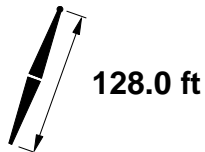


# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



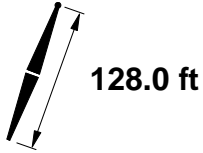
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.9	227.8	34,200							90
95	60.0	225.1	31,900							95
100	56.9	222.0	29,800							100
105	53.7	218.6	27,900							105
110	50.4	214.7	26,300	57.3	218.9	23,800				110
115	47.0	210.3	24,700	54.1	215.4	22,400				115
120	43.3	205.3	23,300	50.8	211.6	21,100				120
125	39.4	199.6	22,100	47.4	207.3	20,000				125
130	35.0	193.0	20,900	43.7	202.4	18,900	51.0	207.3	16,900	130
135	30.2	185.2	19,800	39.8	196.8	17,900	47.6	203.0	16,000	135
140	24.6	175.6	18,800	35.6	190.3	16,900	43.9	198.2	15,100	140
145	17.2	162.5	17,800	30.8	182.7	16,100	40.0	192.6	14,300	145
150				25.3	173.3	15,300	35.8	186.2	13,600	150
155				18.3	160.8	14,500	31.1	178.6	12,900	155
160				5.6	137.1	13,700	25.6	169.3	12,300	160
165							18.6	157.0	11,600	165
170							6.8	134.9	11,000	170

# MLC165 S-2

ASME B30.5



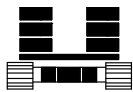
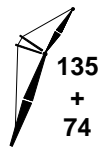
+  
35,300 lb



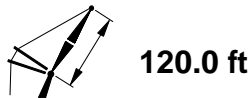
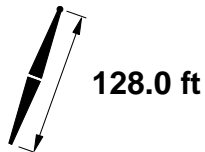
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	74.8	250.3	49,600 *c							45
50	72.3	248.9	48,700 *c							50
55	69.8	247.1	47,900 *b							55
60	67.3	245.2	47,000 *b							60
65	64.6	242.9	46,300 *b	69.2	245.8	48,100 *				65
70	62.0	240.4	45,500 *	66.7	243.8	47,600 *				70
75	59.2	237.6	44,800 *	64.0	241.5	47,000 *	67.5	243.3	46,800	75
80	56.4	234.5	43,800 *	61.4	238.9	45,300	64.9	241.1	43,100	80
85	53.5	231.0	41,500 *	58.6	236.0	41,900	62.2	238.6	39,900	85
90	50.5	227.0	39,200 *	55.8	232.8	39,000	59.5	235.9	37,000	90
95	47.3	222.7	37,000 *	52.8	229.2	36,300	56.7	232.7	34,500	95
100	43.9	217.8	34,900 *	49.8	225.2	34,000	53.8	229.3	32,300	100
105	40.4	212.3	32,800 *	46.6	220.7	31,900	50.8	225.4	30,300	105
110	36.6	206.0	30,900 *	43.2	215.7	30,000	47.6	221.1	28,400	110
115	32.3	198.7	29,200 *	39.6	210.0	28,300	44.3	216.2	26,800	115
120	27.5	190.0	27,500 *	35.6	203.5	26,700	40.7	210.8	25,300	120
125	21.8	179.1	26,000 *	31.3	195.9	25,300	36.9	204.6	23,900	125
130	14.1	163.7	24,700 *	26.4	186.9	23,900	32.8	197.4	22,700	130
135				20.3	175.3	22,700	28.0	188.9	21,500	135
140				11.7	157.9	21,500	22.4	178.3	20,400	140
145							15.0	163.5	19,400	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

# MLC165 S-2

ASME B30.5



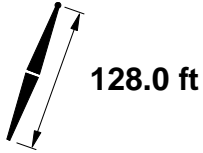
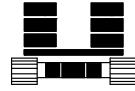
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.7	236.5	31,500							100
105	60.0	233.8	29,400							105
110	57.2	230.7	27,600							110
115	54.3	227.3	25,900							115
120	51.3	223.5	24,400	57.5	227.5	22,000				120
125	48.2	219.3	23,000	54.6	224.2	20,700				125
130	44.9	214.5	21,700	51.6	220.4	19,600				130
135	41.4	209.2	20,600	48.5	216.2	18,500				135
140	37.6	203.1	19,500	45.3	211.6	17,500	51.8	216.1	15,600	140
145	33.5	196.1	18,500	41.8	206.3	16,600	48.7	212.0	14,700	145
150	28.9	187.9	17,600	38.1	200.3	15,700	45.4	207.3	13,900	150
155	23.5	177.7	16,700	34.0	193.4	14,900	42.0	202.1	13,200	155
160	16.5	164.0	15,800	29.5	185.4	14,200	38.3	196.2	12,500	160
165				24.2	175.5	13,500	34.2	189.3	11,900	165
170				17.5	162.3	12,800	29.7	181.3	11,300	170
175				5.4	137.6	12,100	24.5	171.6	10,700	175
180							17.8	158.6	10,200	180
							6.5	135.4	9,600	180

# MLC165 S-2

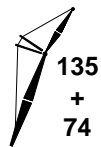
ASME B30.5



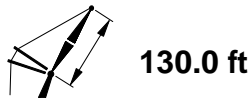
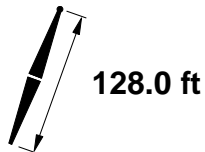
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.7	259.3	45,800 *c							50
55	71.4	257.7	45,100 *b							55
60	69.1	255.9	44,400 *b							60
65	66.7	253.9	43,700 *b	70.9	256.4	45,000 *				65
70	64.3	251.6	43,000 *	68.6	254.6	44,500 *				70
75	61.8	249.1	42,400 *	66.2	252.5	44,100 *				75
80	59.3	246.3	41,200 *	63.7	250.2	43,600 *	66.9	252.1	42,800	80
85	56.7	243.1	39,300 *	61.3	247.6	41,700	64.5	249.8	39,600	85
90	54.0	239.7	37,400 *	58.7	244.7	38,700	62.1	247.3	36,800	90
95	51.2	235.9	35,400 *	56.1	241.5	36,100	59.5	244.5	34,300	95
100	48.3	231.6	33,600 *	53.4	237.9	33,800	56.9	241.4	32,000	100
105	45.3	227.0	31,900 *	50.6	234.0	31,700	54.3	238.0	30,000	105
110	42.1	221.7	30,100 *	47.7	229.7	29,800	51.5	234.2	28,200	110
115	38.7	215.9	28,500 *	44.6	224.9	28,100	48.6	230.0	26,600	115
120	35.1	209.2	26,900 *	41.4	219.5	26,500	45.6	225.4	25,100	120
125	31.0	201.5	25,500 *	37.9	213.5	25,100	42.5	220.2	23,700	125
130	26.4	192.4	24,100 *	34.2	206.6	23,800	39.1	214.4	22,500	130
135	21.0	181.0	22,900 *	30.1	198.7	22,500	35.4	207.9	21,300	135
140	13.5	164.9	21,900 *	25.3	189.2	21,400	31.4	200.3	20,200	140
145				19.5	177.0	20,300	26.9	191.3	19,200	145
150				11.2	158.9	19,300	21.6	180.2	18,300	150
155							14.4	164.8	17,400	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



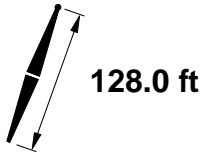
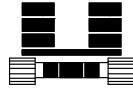
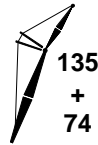
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.5	245.2	29,200							100
105	60.0	242.4	27,300							105
110	57.4	239.4	25,600							110
115	54.7	236.0	24,100							115
120	52.0	232.3	22,800	57.7	236.2	20,500				120
125	49.1	228.2	21,500	55.1	232.9	19,300				125
130	46.2	223.6	20,300	52.3	229.2	18,200				130
135	43.0	218.5	19,300	49.5	225.1	17,300				135
140	39.7	212.9	18,300	46.5	220.6	16,300	52.4	224.9	14,500	140
145	36.1	206.4	17,400	43.4	215.6	15,500	49.6	220.9	13,700	145
150	32.2	199.1	16,500	40.1	210.0	14,700	46.7	216.4	13,000	150
155	27.7	190.4	15,700	36.5	203.7	14,000	43.5	211.4	12,300	155
160	22.6	179.7	14,900	32.6	196.4	13,300	40.2	205.8	11,700	160
165	15.9	165.4	14,200	28.3	187.9	12,600	36.7	199.6	11,100	165
170				23.2	177.6	12,000	32.8	192.4	10,500	170
175				16.8	163.8	11,400	28.5	183.9	10,000	175
180				5.2	138.1	10,800	23.5	173.7	9,500	180
185							17.1	160.2	9,000	185
190							6.2	136.0	8,500	190

# MLC165 S-2

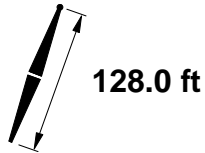
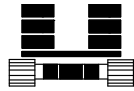
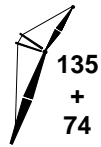
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.9	269.7	42,900 *c							50
55	72.8	268.2	42,200 *b							55
60	70.6	266.6	41,500 *b							60
65	68.5	264.7	40,900 *b							65
70	66.2	262.6	40,300 *	70.2	265.3	41,400 *				70
75	64.0	260.3	39,800 *	68.0	263.3	41,000 *				75
80	61.7	257.8	38,300 *	65.7	261.2	40,600 *				80
85	59.3	254.9	36,800 *	63.5	258.8	40,100 *	66.5	260.8	39,300	85
90	56.9	251.8	35,200 *	61.2	256.2	38,400	64.2	258.5	36,400	90
95	54.4	248.4	33,600 *	58.8	253.3	35,800	61.9	256.0	33,900	95
100	51.9	244.7	32,100 *	56.4	250.2	33,500	59.6	253.2	31,700	100
105	49.2	240.6	30,500 *	53.9	246.7	31,400	57.2	250.1	29,700	105
110	46.5	236.0	29,100 *	51.3	242.8	29,500	54.7	246.7	27,900	110
115	43.6	231.0	27,600 *	48.6	238.6	27,800	52.1	243.0	26,300	115
120	40.5	225.5	26,200 *	45.8	234.0	26,200	49.5	238.9	24,800	120
125	37.3	219.3	24,900 *	42.9	228.9	24,800	46.8	234.5	23,400	125
130	33.8	212.3	23,600 *	39.8	223.2	23,500	43.9	229.5	22,200	130
135	29.9	204.2	22,400 *	36.5	216.9	22,300	40.8	224.0	21,000	135
140	25.5	194.7	21,400 *	32.9	209.7	21,100	37.6	217.9	19,900	140
145	20.2	182.8	20,300 *	28.9	201.3	20,100	34.1	211.0	18,900	145
150	13.0	166.0	19,500 *	24.4	191.4	19,100	30.3	203.0	18,000	150
155				18.8	178.7	18,200	25.9	193.7	17,100	155
160				10.8	159.8	17,300	20.8	182.1	16,300	160
165							13.9	166.1	15,500	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

# MLC165 S-2

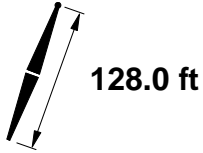
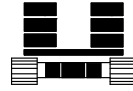
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.3	253.8	26,900							105
110	60.0	251.1	25,300							110
115	57.6	248.0	23,800							115
120	55.1	244.7	22,400							120
125	52.6	241.1	21,100	57.9	244.9	18,900				125
130	50.0	237.1	20,000	55.4	241.6	17,800				130
135	47.2	232.6	18,900	52.9	238.0	16,900				135
140	44.4	227.8	17,900	50.3	234.0	16,000				140
145	41.4	222.4	17,000	47.6	229.6	15,100				145
150	38.2	216.4	16,200	44.7	224.8	14,300	50.4	229.7	12,600	150
155	34.7	209.6	15,400	41.7	219.5	13,600	47.7	225.4	11,900	155
160	31.0	201.9	14,600	38.6	213.6	12,900	44.9	220.6	11,300	160
165	26.7	192.8	13,900	35.2	206.9	12,300	41.9	215.3	10,700	165
170	21.7	181.7	13,200	31.4	199.3	11,700	38.7	209.4	10,100	170
175	15.3	166.7	12,600	27.2	190.4	11,100	35.3	202.8	9,600	175
180				22.4	179.6	10,600	31.6	195.2	9,100	180
185				16.2	165.3	10,000	27.5	186.4	8,700	185
190				5.0	138.5	9,500	22.6	175.7	8,200	190
195							16.5	161.6	7,800	195
200							6.0	136.5	7,300	200

# MLC165 S-2

ASME B30.5

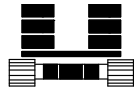
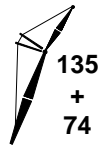


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55			39,400 *b							55
60			38,900 *b							60
65			38,300 *b							65
70			37,700 *							70
75			36,600 *	69.5	274.1	38,200 *				75
80	74.0	278.7	35,500 *	67.5	272.1	37,800 *				80
85	72.0	277.1	34,300 *	65.4	269.9	36,900 *				85
90	70.0	275.4	33,000 *	63.2	267.5	35,700 *	66.0	269.5	36,300	90
95	67.9	273.5	31,700 *	61.1	264.9	34,400 *	63.9	267.2	33,800	95
100	65.8	271.4	30,400 *	58.9	262.0	33,100 *	61.8	264.6	31,600	100
105	54.8	257.1	29,200 *	56.6	258.8	31,300	59.6	261.8	29,600	105
110	52.5	253.4	27,900 *	54.3	255.4	29,400	57.4	258.8	27,800	110
115	50.0	249.4	26,600 *	51.9	251.6	27,700	55.1	255.4	26,200	115
120	47.5	245.0	25,400 *	49.4	247.5	26,100	52.7	251.8	24,700	120
125	44.8	240.2	24,200 *	46.9	243.1	24,700	50.3	247.8	23,300	125
130	42.0	235.0	23,100 *	44.2	238.2	23,400	47.7	243.4	22,100	130
135	39.1	229.1	22,000 *	41.4	232.8	22,200	45.1	238.7	20,900	135
140	36.0	222.6	20,900 *	38.4	226.8	21,100	42.3	233.5	19,900	140
145	32.6	215.3	20,000 *	35.2	220.1	20,000	39.4	227.7	18,900	145
150	28.8	206.9	19,100 *	31.8	212.6	19,100	36.3	221.2	17,900	150
155	24.6	196.9	18,200 *	27.9	203.9	18,200	32.9	214.0	17,100	155
160	19.5	184.6	17,600 *	23.5	193.5	17,300	29.2	205.7	16,300	160
165	12.6	167.2		18.2	180.4	16,500	25.0	195.9	15,500	165
170				10.4	160.8	15,700	20.0	183.9	14,800	170
175							13.4	167.3	14,100	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

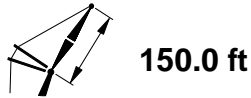
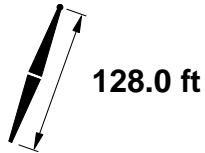


# MLC165 S-2

ASME B30.5



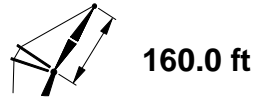
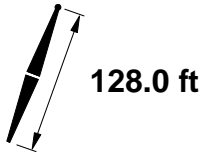
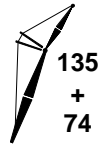
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.2	262.5	25,100							110
115	60.0	259.7	23,600							115
120	57.7	256.7	22,300							120
125	55.5	253.4	21,000							125
130	53.1	249.8	19,900							130
135	50.7	245.9	18,800	55.7	250.3	16,800				135
140	48.2	241.6	17,800	53.4	246.7	15,900				140
145	45.5	236.9	16,900	51.0	242.8	15,000				145
150	42.8	231.8	16,100	48.5	238.6	14,200				150
155	39.9	226.1	15,300	45.9	234.0	13,500	51.1	238.6	11,800	155
160	36.8	219.8	14,500	43.1	228.9	12,800	48.6	234.3	11,200	160
165	33.5	212.7	13,900	40.3	223.3	12,200	46.0	229.7	10,600	165
170	29.9	204.6	13,200	37.2	217.0	11,600	43.3	224.7	10,100	170
175	25.8	195.1	12,600	33.9	210.0	11,000	40.4	219.1	9,500	175
180	21.0	183.6	12,000	30.3	202.1	10,500	37.4	212.9	9,000	180
185	14.8	168.1	11,400	26.3	192.8	10,000	34.1	205.9	8,600	185
190				21.6	181.5	9,500	30.5	198.0	8,100	190
195				15.6	166.7	9,000	26.5	188.8	7,700	195
200				4.8	139.0	8,500	21.8	177.7	7,300	200
205							15.9	163.1	6,900	205
210							5.8	137.0	6,500	210

# MLC165 S-2

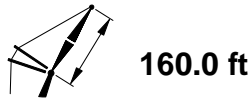
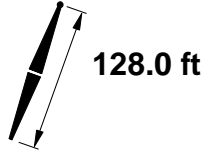
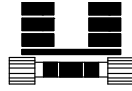
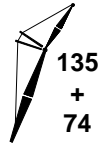
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.1	287.6	36,000 *b							60
65	71.3	286.0	35,200 *b							65
70	69.4	284.2	34,400 *							70
75	67.4	282.3	33,500 *	70.8	284.7	35,300 *				75
80	65.5	280.1	32,500 *	68.9	282.9	34,700 *				80
85	63.5	277.7	31,200 *	67.0	280.9	33,500 *				85
90	61.5	275.1	30,000 *	65.0	278.6	32,400 *	67.6	280.4	33,200 *	90
95	59.4	272.3	28,800 *	63.0	276.2	31,200 *	65.7	278.3	32,400 *	95
100	57.3	269.2	27,500 *	61.0	273.5	30,000 *	63.7	275.9	31,200 *	100
105	55.2	265.8	26,400 *	59.0	270.7	28,800 *	61.7	273.3	29,300 *	105
110	53.0	262.2	25,300 *	56.8	267.5	27,600 *	59.6	270.5	27,500 *	110
115	50.7	258.3	24,100 *	54.7	264.1	26,400 *	57.5	267.4	25,800 *	115
120	48.3	254.0	23,000 *	52.4	260.4	25,300 *	55.4	264.1	24,400 *	120
125	45.9	249.4	22,000 *	50.2	256.4	24,200 *	53.2	260.5	23,000 *	125
130	43.3	244.3	21,000 *	47.8	252.1	23,100 *	50.9	256.6	21,800 *	130
135	40.6	238.7	20,000 *	45.3	247.3	21,900 *	48.6	252.4	20,600 *	135
140	37.8	232.6	19,100 *	42.7	242.2	20,800 *	46.1	247.8	19,500 *	140
145	34.8	225.8	18,200 *	40.0	236.5	19,800 *	43.6	242.8	18,600 *	145
150	31.5	218.1	17,300 *	37.2	230.2	18,800 *	40.9	237.3	17,600 *	150
155	27.9	209.4	16,600 *	34.1	223.2	17,900 *	38.1	231.2	16,800 *	155
160	23.8	199.1	15,800 *	30.7	215.4	17,100 *	35.1	224.5	16,000 *	160
165	18.9	186.3	15,200 *	27.0	206.3	16,300 *	31.9	216.9	15,200 *	165
170	12.2	168.3	14,400 *	22.8	195.5	15,500 *	28.3	208.3	14,500 *	170
175				17.6	181.9	14,800 *	24.2	198.1	13,900 *	175
180				10.1	161.7	14,100 *	19.4	185.6	13,200 *	180
185							13.0	168.4	12,600 *	185
190										190
195										195
200										200
205										205
210										210

# MLC165 S-2

ASME B30.5



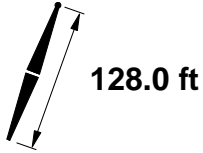
	75°			70°			
	ft	ft	lb	ft	ft	lb	
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	62.0	271.2	23,300				115
120	60.0	268.4	21,900				120
125	57.9	265.4	20,700				125
130	55.7	262.1	19,500				130
135	53.6	258.6	18,500				135
140	51.3	254.7	17,500	56.0	259.0	15,500	140
145	49.0	250.5	16,600	53.8	255.5	14,600	145
150	46.5	246.0	15,700	51.6	251.6	13,900	150
155	44.0	241.0	15,000	49.2	247.5	13,200	155
160	41.4	235.6	14,200	46.8	243.0	12,500	160
165	38.6	229.7	13,500	44.3	238.1	11,900	165
170	35.6	223.1	12,900	41.7	232.7	11,300	170
175	32.4	215.7	12,300	38.9	226.9	10,700	175
180	28.9	207.2	11,700	36.0	220.3	10,200	180
185	25.0	197.4	11,100	32.8	213.0	9,700	185
190	20.3	185.4	10,600	29.3	204.7	9,200	190
195	14.3	169.3	10,100	25.5	195.1	8,700	195
200				20.9	183.4	8,300	200
205				15.1	168.0	7,900	205
210				4.7	139.4	7,400	210

# MLC165 S-2

ASME B30.5



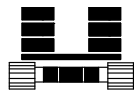
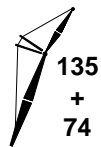
121,500 lb  
+  
35,300 lb



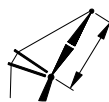
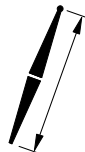
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	74.2	298.1	32,500 *b							60
65	72.4	296.6	31,900 *b							65
70	70.6	294.9	31,300 *							70
75	68.8	293.0	30,600 *							75
80	67.0	291.0	29,800 *	70.2	293.5	30,900 *				80
85	65.2	288.8	28,600 *	68.4	291.7	30,600 *				85
90	63.3	286.4	27,400 *	66.6	289.6	29,600 *				90
95	61.4	283.8	26,300 *	64.7	287.3	28,500 *	67.2	289.2	29,000 *	95
100	59.5	280.9	25,200 *	62.9	284.9	27,300 *	65.3	287.0	28,600 *	100
105	57.5	277.8	24,000 *	61.0	282.2	26,200 *	63.5	284.6	27,500 *	105
110	55.5	274.5	22,900 *	59.0	279.3	25,100 *	61.6	282.0	26,500 *	110
115	53.4	271.0	21,800 *	57.0	276.2	24,000 *	59.6	279.2	25,400 *	115
120	51.3	267.1	20,800 *	55.0	272.8	22,900 *	57.7	276.1	24,100	120
125	49.1	262.9	19,700 *	52.9	269.2	21,800 *	55.7	272.8	22,800	125
130	46.8	258.4	18,800 *	50.8	265.3	20,800 *	53.6	269.3	21,500	130
135	44.4	253.5	17,900 *	48.6	261.0	19,800 *	51.5	265.4	20,400	135
140	42.0	248.2	16,900 *	46.3	256.4	18,800 *	49.3	261.3	19,300	140
145	39.4	242.4	16,100 *	43.9	251.4	17,900 *	47.0	256.8	18,300	145
150	36.6	236.0	15,200 *	41.4	246.0	16,900 *	44.7	252.0	17,400	150
155	33.7	228.9	14,400 *	38.8	240.1	16,100 *	42.2	246.7	16,600	155
160	30.6	220.9	13,500 *	36.0	233.5	15,300 *	39.6	240.9	15,800	160
165	27.1	211.8	12,600 *	33.0	226.2	14,500 *	36.9	234.6	15,000	165
170	23.1	201.1	11,700 *	29.8	218.1	13,500 *	34.0	227.6	14,300	170
175	18.3	187.9	10,800 *	26.2	208.7	12,500 *	30.9	219.7	13,700	175
180	11.8	169.3	10,100 *	22.1	197.5	11,600 *	27.4	210.7	12,900 *	180
185				17.1	183.5	10,800 *	23.5	200.2	11,900 *	185
190				9.8	162.5	10,000 *	18.8	187.3	11,100 *	190
195							12.6	169.5	10,300 *	195
200										200
205										205
210										210
215										215
220										220

# MLC165 S-2

ASME B30.5



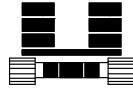
121,500 lb  
+  
35,300 lb



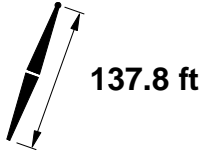
	75°			70°			
	ft	ft	lb	ft	ft	lb	
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120	61.9	279.8	21,600				120
125	60.0	277.1	20,400				125
130	58.0	274.0	19,300				130
135	56.0	270.8	18,200				135
140	53.9	267.3	17,200				140
145	51.8	263.5	16,300	56.2	267.7	14,400	145
150	49.7	259.4	15,500	54.2	264.2	13,600	150
155	47.4	255.0	14,700	52.1	260.4	12,900	155
160	45.1	250.2	14,000	49.9	256.4	12,200	160
165	42.6	245.0	13,300	47.7	252.0	11,600	165
170	40.1	239.3	12,600	45.4	247.3	11,000	170
175	37.4	233.1	12,000	42.9	242.1	10,400	175
180	34.5	226.2	11,500	40.4	236.5	9,900	180
185	31.4	218.5	10,900	37.7	230.3	9,400	185
190	28.0	209.8	10,400	34.9	223.5	9,000	190
195	24.2	199.6	9,900	31.8	215.9	8,500	195
200	19.7	187.2	9,400	28.5	207.3	8,100	200
205	13.9	170.6	9,000	24.7	197.3	7,700	205
210				20.3	185.2	7,300	210
215				14.7	169.3	6,900	215
220				4.5	139.8	6,500	220

# MLC165 S-2

ASME B30.5



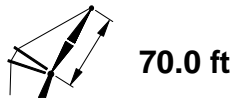
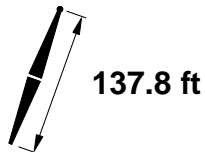
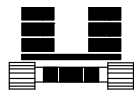
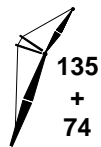
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
34	73.5	211.5	85,900 *d							34
36	71.8	210.8	85,900 *d							36
38	70.0	210.1	85,800 *d							38
40	68.3	209.4	85,700 *d							40
45	63.8	207.2	81,100 *c							45
50	59.2	204.4	75,300 *c	67.9	208.2	81,400 *c				50
55	54.3	201.2	69,200 *b	63.4	205.9	74,100 b				55
60	49.0	197.2	64,100 *b	58.7	203.2	66,300 b	65.3	205.8	63,200 c	60
65	43.4	192.4	59,900 *b	53.8	199.8	59,900 b	60.8	203.2	57,000 b	65
70	37.0	186.5	56,300 *	48.6	195.8	54,600	55.9	200.2	51,900 b	70
75	29.6	178.9	53,200	42.9	190.9	50,000	50.8	196.4	47,600 b	75
80	19.7	168.0	48,900	36.4	184.9	46,100	45.3	192.0	43,800	80
85				28.8	177.1	42,600	39.3	186.5	40,600	85
90				18.7	165.7	39,600	32.3	179.5	37,700	90
95							23.5	170.1	35,100	95
100							8.7	152.7	32,700	100
105										105
110										110
115										115
120										120
125										125
130										130

# MLC165 S-2

ASME B30.5



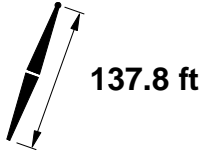
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.3	201.4	43,600 <b>b</b>							75
80	57.6	198.5	40,100 <b>b</b>							80
85	52.6	195.0	37,100 <b>b</b>							85
90	47.3	190.8	34,500							90
95	41.4	185.7	32,200	54.0	192.2	29,200 <b>b</b>				95
100	34.8	179.3	30,100	48.8	188.2	27,300				100
105	26.8	170.9	28,200	43.1	183.4	25,600				105
110	15.3	157.9	26,400	36.7	177.4	24,000	49.9	184.3	21,600	110
115				29.2	169.7	22,600	44.3	179.7	20,300	115
120				19.2	158.6	21,200	38.1	174.0	19,100	120
125							30.9	166.7	18,000	125
130							21.6	156.6	17,000	130

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

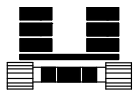
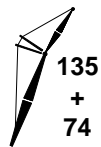


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
36	74.1	221.3	78,800 *d						36	
38	72.6	220.7	78,700 *d						38	
40	71.1	220.0	78,600 *d						40	
45	67.3	218.1	77,200 *c						45	
50	63.3	215.8	72,300 *c	70.8	218.9	77,300 *c			50	
55	59.3	213.1	67,800 *b	67.0	217.0	72,600 *b			55	
60	55.0	209.9	63,500 *b	63.0	214.6	66,000 b			60	
65	50.5	206.1	59,200 *b	58.9	211.8	59,600 b	64.7	214.5	56,700 b	65
70	45.7	201.6	55,500 *	54.6	208.6	54,300	60.7	211.9	51,600 b	70
75	40.4	196.2	52,400 *	50.1	204.7	49,700	56.5	208.8	47,200 b	75
80	34.6	189.7	48,900	45.3	200.2	45,800	52.0	205.2	43,500	80
85	27.6	181.4	45,200	40.0	194.7	42,400	47.4	201.0	40,300	85
90	18.5	169.7	42,000	34.0	188.1	39,400	42.3	196.0	37,400	90
95				26.9	179.6	36,700	36.6	189.9	34,900	95
100				17.5	167.3	34,300	30.1	182.3	32,600	100
105							22.0	172.1	30,600	105
110							8.1	153.4	28,600	110
115										115
120										120
125										125
130										130
135										135
140										140

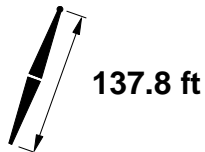


# MLC165 S-2

ASME B30.5



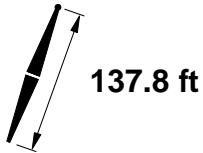
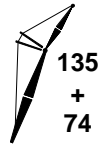
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.0	210.0	39,700 <b>b</b>							80
85	57.9	207.1	36,700 <b>b</b>							85
90	53.6	203.7	34,100							90
95	49.0	199.7	31,800							95
100	44.0	195.0	29,700	54.8	200.9	26,900				100
105	38.6	189.3	27,900	50.3	197.1	25,200				105
110	32.5	182.3	26,200	45.5	192.6	23,600				110
115	25.0	173.2	24,600	40.2	187.2	22,200	51.3	193.2	19,800	115
120	14.3	159.2	23,200	34.3	180.6	21,000	46.5	188.8	18,700	120
125				27.3	172.2	19,800	41.3	183.6	17,600	125
130				18.0	160.2	18,600	35.6	177.3	16,600	130
135							28.9	169.4	15,700	135
140							20.2	158.4	14,800	140

# MLC165 S-2

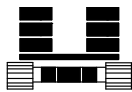
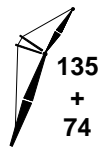
ASME B30.5



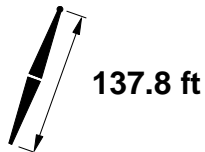
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	74.6	231.1	72,200 *d							38
40	73.3	230.5	72,000 *d							40
45	69.9	228.9	71,700 *c							45
50	66.5	226.9	69,900 *c							50
55	63.0	224.5	65,800 *b	69.6	227.7	70,000 *c				55
60	59.3	221.8	62,000 *b	66.2	225.7	65,800 b				60
65	55.6	218.6	58,400 *b	62.7	223.3	59,400 b	67.7	225.4	56,400 b	65
70	51.6	214.9	54,900 *b	59.0	220.5	54,100	64.2	223.2	51,300 b	70
75	47.4	210.6	51,600 *	55.2	217.3	49,500	60.6	220.6	47,000 b	75
80	42.9	205.6	47,900 *	51.3	213.5	45,700	56.9	217.5	43,300	80
85	38.0	199.8	44,600 *	47.1	209.2	42,300	53.0	214.0	40,100	85
90	32.5	192.7	41,500 *	42.5	204.2	39,300	48.9	209.9	37,300	90
95	26.0	183.8	38,800 *	37.6	198.2	36,600	44.5	205.2	34,700	95
100	17.4	171.2	36,400 *	32.0	191.0	34,300	39.7	199.7	32,500	100
105				25.4	181.9	32,200	34.5	193.1	30,500	105
110				16.4	168.8	30,200	28.4	184.9	28,700	110
115							20.7	173.9	27,000	115
120							7.6	154.1	25,400	120
125										125
130										130
135										135
140										140
145										145
150										150

# MLC165 S-2

ASME B30.5



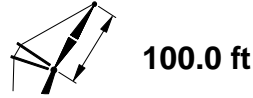
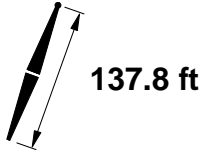
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.8	218.7	36,500 <b>b</b>							85
90	58.1	215.8	33,900							90
95	54.3	212.5	31,600							95
100	50.3	208.6	29,500							100
105	46.0	204.1	27,700	55.4	209.6	24,900				105
110	41.4	198.9	26,000	51.4	205.9	23,400				110
115	36.3	192.7	24,500	47.2	201.6	22,000				115
120	30.6	185.1	23,100	42.7	196.6	20,800	52.3	202.0	18,400	120
125	23.5	175.3	21,800	37.8	190.7	19,600	48.1	197.8	17,400	125
130	13.5	160.4	20,600	32.3	183.6	18,500	43.7	193.0	16,400	130
135				25.7	174.6	17,500	38.9	187.3	15,500	135
140				16.9	161.8	16,600	33.5	180.4	14,700	140
145							27.2	171.9	13,900	145
150							19.1	160.2	13,200	150

# MLC165 S-2

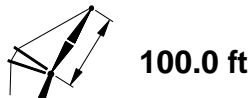
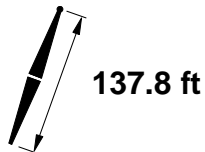
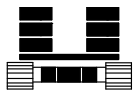
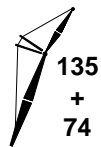
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
40	75.0	240.9	66,400 *d						40	
45	72.0	239.4	66,100 *c						45	
50	69.0	237.7	65,600 *c						50	
55	65.9	235.6	62,400 *b						55	
60	62.7	233.2	59,200 *b	68.7	236.5	63,500 *b			60	
65	59.4	230.4	55,900 *b	65.6	234.4	59,100 b			65	
70	56.0	227.3	52,600 *b	62.4	232.0	53,800	66.9	234.2	51,000 b	70
75	52.5	223.7	49,300 *	59.1	229.2	49,200	63.8	231.9	46,700 b	75
80	48.8	219.6	46,100 *	55.7	226.0	45,300	60.5	229.2	43,000	80
85	44.9	214.9	43,200 *	52.2	222.3	42,000	57.2	226.2	39,700	85
90	40.6	209.5	40,300 *	48.5	218.2	39,000	53.7	222.8	36,900	90
95	36.0	203.1	37,700 *	44.5	213.4	36,400	50.1	218.8	34,400	95
100	30.8	195.6	35,200 *	40.3	208.0	34,000	46.2	214.3	32,200	100
105	24.7	186.0	33,000 *	35.6	201.5	31,900	42.1	209.2	30,200	105
110	16.5	172.7	31,100 *	30.3	193.8	30,000	37.6	203.2	28,400	110
115				24.1	184.1	28,300	32.6	196.1	26,700	115
120				15.6	170.2	26,700	26.9	187.4	25,200	120
125							19.6	175.7	23,800	125
130							7.3	154.8	22,500	130
135										135
140										140
145										145
150										150
155										155
160										160

# MLC165 S-2

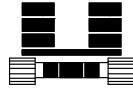
ASME B30.5



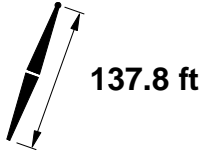
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.6	227.4	33,500							90
95	58.3	224.5	31,200							95
100	54.9	221.2	29,100							100
105	51.3	217.4	27,300							105
110	47.5	213.1	25,700	55.9	218.3	23,000				110
115	43.5	208.2	24,200	52.3	214.7	21,600				115
120	39.2	202.6	22,800	48.6	210.6	20,400				120
125	34.4	195.9	21,500	44.7	205.9	19,200				125
130	28.9	187.8	20,400	40.4	200.4	18,200	49.4	206.7	16,000	130
135	22.3	177.3	19,300	35.8	194.1	17,200	45.5	202.1	15,100	135
140	12.8	161.6	18,200	30.6	186.4	16,300	41.3	196.8	14,300	140
145				24.4	176.8	15,400	36.8	190.7	13,500	145
150				16.1	163.2	14,600	31.7	183.3	12,800	150
155							25.8	174.2	12,100	155
160							18.1	161.8	11,500	160

# MLC165 S-2

ASME B30.5



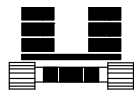
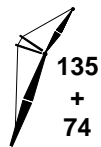
121,500 lb  
+  
35,300 lb



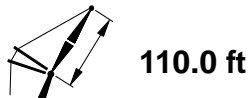
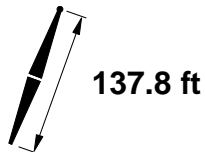
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	73.7	249.9	61,200 *c							45
50	71.0	248.3	60,100 *c							50
55	68.2	246.5	57,700 *b							55
60	65.3	244.3	55,200 *b	70.7	247.2	60,900 *b				60
65	62.4	241.9	52,500 *b	67.9	245.3	58,000 *b				65
70	59.5	239.1	49,800 *b	65.1	243.1	53,700				70
75	56.4	235.9	47,000 *	62.2	240.6	49,200	66.3	242.9	46,600	75
80	53.2	232.4	44,300 *	59.2	237.8	45,300	63.4	240.5	42,900	80
85	49.9	228.5	41,700 *	56.1	234.7	41,900	60.5	237.9	39,700	85
90	46.4	224.0	39,100 *	52.9	231.1	38,900	57.4	234.9	36,900	90
95	42.7	218.9	36,800 *	49.6	227.1	36,300	54.3	231.5	34,400	95
100	38.7	213.1	34,500 *	46.1	222.6	34,000	51.0	227.7	32,200	100
105	34.3	206.3	32,400 *	42.3	217.4	31,900	47.6	223.4	30,200	105
110	29.3	198.2	30,500 *	38.3	211.5	30,000	43.9	218.5	28,400	110
115	23.5	188.2	28,700 *	33.9	204.7	28,300	40.1	212.9	26,700	115
120	15.7	174.1	27,200 *	28.9	196.5	26,700	35.8	206.5	25,200	120
125				22.9	186.2	25,300	31.1	199.0	23,900	125
130				14.9	171.6	23,900	25.6	189.7	22,600	130
135							18.7	177.4	21,400	135
140							6.9	155.4	20,300	140
145										145
150										150
155										155
160										160
165										165
170										170

# MLC165 S-2

ASME B30.5



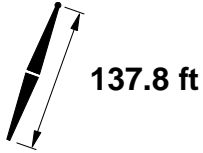
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.5	236.0	31,100							100
105	58.5	233.1	29,100							105
110	55.4	229.9	27,300							110
115	52.1	226.2	25,600							115
120	48.8	222.1	24,100	56.3	227.0	21,600				120
125	45.2	217.4	22,800	53.1	223.5	20,300				125
130	41.4	212.1	21,500	49.7	219.5	19,200				130
135	37.3	206.0	20,400	46.2	215.0	18,100				135
140	32.8	198.9	19,300	42.5	209.9	17,200	50.4	215.6	15,100	140
145	27.6	190.3	18,300	38.5	204.0	16,300	47.0	211.2	14,300	145
150	21.3	179.3	17,400	34.1	197.2	15,400	43.3	206.2	13,500	150
155	12.2	162.7	16,500	29.1	189.1	14,700	39.3	200.5	12,800	155
160				23.2	178.9	13,900	35.0	193.9	12,200	160
165				15.3	164.6	13,200	30.2	186.1	11,500	165
170							24.5	176.5	10,900	170
							17.2	163.3	10,400	170

# MLC165 S-2

ASME B30.5

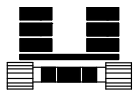
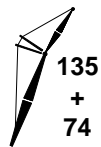


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	72.6	258.8	47,600 *c							50
55	70.1	257.2	46,800 *b							55
60	67.5	255.2	46,000 *b							60
65	64.9	253.0	45,300 *b	69.9	256.0	47,000 *b				65
70	62.2	250.5	44,600 *	67.3	254.0	46,600 *				70
75	59.5	247.7	43,400 *	64.7	251.8	46,000 *				75
80	56.7	244.6	41,200 *	62.0	249.3	45,000	65.8	251.6	42,500	80
85	53.8	241.2	39,100 *	59.3	246.5	41,600	63.1	249.2	39,300	85
90	50.8	237.3	37,000 *	56.5	243.4	38,600	60.4	246.5	36,500	90
95	47.6	233.0	35,000 *	53.5	239.8	36,000	57.7	243.5	34,000	95
100	44.3	228.1	33,000 *	50.5	235.9	33,700	54.8	240.2	31,800	100
105	40.8	222.7	31,200 *	47.3	231.6	31,600	51.8	236.5	29,800	105
110	37.0	216.5	29,400 *	44.0	226.7	29,700	48.7	232.3	28,000	110
115	32.8	209.3	27,800 *	40.4	221.2	28,000	45.4	227.7	26,400	115
120	28.1	200.8	26,300 *	36.6	214.9	26,500	42.0	222.4	24,900	120
125	22.5	190.2	24,900 *	32.4	207.6	25,000	38.3	216.5	23,600	125
130	15.0	175.5	23,700 *	27.6	199.0	23,700	34.2	209.7	22,300	130
135				21.9	188.2	22,500	29.7	201.7	21,200	135
140				14.2	172.8	21,300	24.5	191.9	20,100	140
145							17.9	179.0	19,100	145
150							6.6	156.0	18,100	150
155										155
160										160
165										165
170										170
175										175
180										180

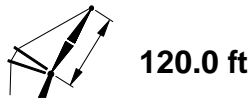
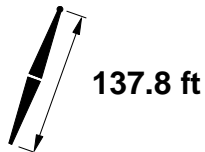


# MLC165 S-2

ASME B30.5



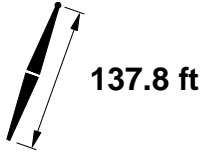
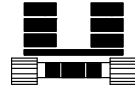
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.4	244.7	28,700							100
105	58.6	241.8	26,900							105
110	55.8	238.6	25,200							110
115	52.8	235.0	23,800							115
120	49.8	231.0	22,400	56.6	235.7	19,900				120
125	46.6	226.5	21,200	53.7	232.2	18,800				125
130	43.2	221.5	20,000	50.6	228.3	17,700				130
135	39.6	215.8	19,000	47.5	224.0	16,800				135
140	35.7	209.3	18,000	44.2	219.2	15,900	51.3	224.4	13,900	140
145	31.3	201.8	17,100	40.6	213.7	15,100	48.1	220.2	13,100	145
150	26.4	192.7	16,200	36.8	207.4	14,300	44.9	215.4	12,400	150
155	20.4	181.1	15,400	32.6	200.2	13,600	41.4	210.1	11,800	155
160	11.7	163.7	14,600	27.9	191.6	12,900	37.6	204.0	11,200	160
165				22.2	180.9	12,300	33.5	197.0	10,600	165
170				14.6	165.9	11,600	28.9	188.8	10,000	170
175							23.5	178.6	9,500	175
180							16.5	164.8	9,000	180

# MLC165 S-2

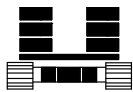
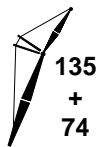
ASME B30.5



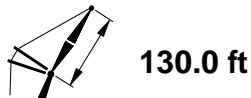
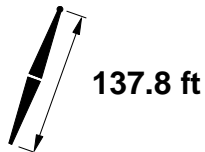
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50	74.0	269.3	44,700 *c						50	
55	71.7	267.7	44,000 *b						55	
60	69.3	266.0	43,400 *b						60	
65	67.0	264.0	42,700 *b						65	
70	64.5	261.7	42,100 *b	69.1	264.8	43,500 *			70	
75	62.1	259.2	40,600 *	66.7	262.8	43,100 *			75	
80	59.5	256.4	38,800 *	64.3	260.5	42,600 *	67.8	262.5	42,300	80
85	57.0	253.3	37,000 *	61.9	258.0	41,400	65.4	260.3	39,100	85
90	54.3	249.9	35,300 *	59.3	255.2	38,400	62.9	257.9	36,300	90
95	51.5	246.1	33,500 *	56.7	252.0	35,800	60.4	255.2	33,800	95
100	48.7	241.9	31,900 *	54.1	248.6	33,500	57.8	252.2	31,600	100
105	45.6	237.3	30,200 *	51.3	244.8	31,400	55.2	248.9	29,600	105
110	42.5	232.1	28,600 *	48.4	240.5	29,500	52.5	245.2	27,800	110
115	39.1	226.3	27,100 *	45.4	235.9	27,800	49.6	241.2	26,200	115
120	35.5	219.8	25,700 *	42.2	230.7	26,300	46.7	236.7	24,700	120
125	31.5	212.2	24,300 *	38.8	224.8	24,900	43.6	231.7	23,400	125
130	26.9	203.2	23,100 *	35.1	218.2	23,500	40.3	226.2	22,100	130
135	21.6	192.2	22,000 *	31.1	210.5	22,300	36.7	219.9	21,000	135
140	14.5	176.8	21,000 *	26.5	201.4	21,200	32.9	212.7	19,900	140
145				21.1	190.1	20,200	28.5	204.3	18,900	145
150				13.7	174.1	19,200	23.5	194.0	18,000	150
155							17.2	180.6	17,100	155
160							6.4	156.6	16,300	160
165										165
170										170
175										175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



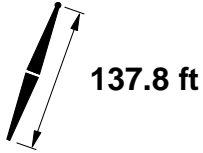
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.3	253.4	26,600							105
110	58.7	250.5	25,000							110
115	56.1	247.3	23,500							115
120	53.4	243.7	22,200							120
125	50.6	239.8	20,900	56.8	244.4	18,500				125
130	47.7	235.5	19,800	54.2	241.0	17,500				130
135	44.6	230.7	18,700	51.4	237.2	16,500				135
140	41.4	225.3	17,800	48.5	233.0	15,600				140
145	38.0	219.3	16,900	45.5	228.3	14,800	52.0	233.2	12,800	145
150	34.2	212.5	16,000	42.3	223.1	14,100	49.1	229.1	12,100	150
155	30.1	204.5	15,200	38.9	217.3	13,400	46.1	224.5	11,500	155
160	25.3	195.0	14,500	35.3	210.7	12,700	43.0	219.4	10,900	160
165	19.5	182.9	13,800	31.3	203.1	12,100	39.7	213.8	10,300	165
170	11.2	164.7	13,100	26.7	194.1	11,500	36.1	207.3	9,800	170
175				21.3	182.8	10,900	32.1	200.0	9,300	175
180				14.1	167.2	10,300	27.7	191.3	8,800	180
185							22.5	180.6	8,400	185
190							15.8	166.2	7,900	190

# MLC165 S-2

ASME B30.5



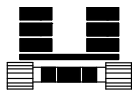
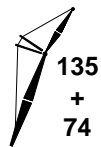
121,500 lb  
+  
35,300 lb



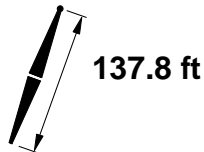
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	73.0	278.2	41,200 *b						55	
60	70.9	276.6	40,600 *b						60	
65	68.7	274.8	40,000 *b						65	
70	66.5	272.7	39,000 *b	70.7	275.5	40,500 *			70	
75	64.2	270.4	37,600 *	68.5	273.6	40,100 *			75	
80	61.9	267.9	36,300 *	66.3	271.5	39,800 *			80	
85	59.6	265.1	34,800 *	64.0	269.2	39,400 *	67.2	271.2	38,700	85
90	57.2	262.0	33,400 *	61.7	266.6	38,100	65.0	269.0	35,900	90
95	54.7	258.6	31,900 *	59.4	263.8	35,500	62.7	266.6	33,400	95
100	52.2	254.9	30,400 *	57.0	260.7	33,200	60.4	263.9	31,200	100
105	49.5	250.8	29,000 *	54.5	257.3	31,100	58.0	260.9	29,300	105
110	46.8	246.3	27,600 *	51.9	253.6	29,200	55.5	257.6	27,500	110
115	43.9	241.4	26,200 *	49.3	249.5	27,500	53.0	254.0	25,900	115
120	40.9	235.9	24,900 *	46.5	244.9	26,000	50.4	250.1	24,400	120
125	37.6	229.8	23,700 *	43.6	240.0	24,600	47.7	245.7	23,100	125
130	34.1	222.9	22,500 *	40.6	234.4	23,300	44.9	240.9	21,800	130
135	30.3	215.0	21,500 *	37.3	228.2	22,100	41.9	235.7	20,700	135
140	25.9	205.6	20,400 *	33.8	221.3	20,900	38.7	229.8	19,600	140
145	20.8	194.0	19,500 *	29.9	213.2	19,900	35.3	223.1	18,600	145
150	13.9	178.0	18,700 *	25.5	203.7	18,900	31.6	215.6	17,700	150
155				20.3	191.9	18,000	27.5	206.8	16,900	155
160				13.2	175.2	17,200	22.7	196.1	16,100	160
165							16.6	182.0	15,300	165
170							6.1	157.1	14,500	170
175										175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



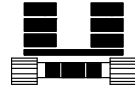
121,500 lb  
+  
35,300 lb



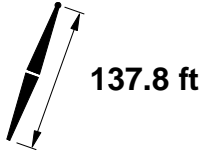
	75°			70°			
	ft	ft	lb	ft	ft	lb	
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	61.2	262.0	24,600				110
115	58.8	259.1	23,100				115
120	56.4	256.0	21,800				120
125	53.9	252.5	20,500				125
130	51.3	248.6	19,400	57.1	253.1	17,100	130
135	48.6	244.4	18,400	54.6	249.7	16,100	135
140	45.9	239.8	17,400	52.0	246.0	15,300	140
145	42.9	234.7	16,500	49.4	241.9	14,400	145
150	39.8	229.0	15,700	46.7	237.4	13,700	150
155	36.5	222.7	14,900	43.8	232.4	13,000	155
160	32.9	215.5	14,200	40.7	226.9	12,300	160
165	28.9	207.1	13,500	37.5	220.7	11,700	165
170	24.4	197.2	12,800	34.0	213.8	11,100	170
175	18.8	184.6	12,200	30.1	205.8	10,600	175
180	10.8	165.7	11,600	25.7	196.4	10,000	180
185				20.5	184.7	9,500	185
190				13.6	168.4	9,000	190

# MLC165 S-2

ASME B30.5



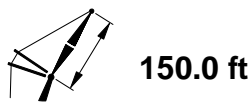
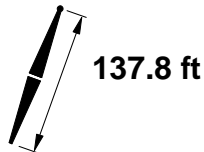
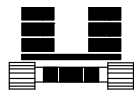
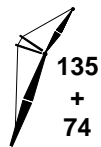
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
55	74.2	288.7	38,600 *c						55	
60	72.2	287.1	37,800 *b						60	
65	70.2	285.4	36,900 *b						65	
70	68.1	283.5	35,800 *b						70	
75	66.1	281.4	34,800 *	70.0	284.3	37,300 *			75	
80	63.9	279.1	33,700 *	67.9	282.4	37,000 *			80	
85	61.8	276.5	32,500 *	65.9	280.2	36,600 *			85	
90	59.6	273.7	31,300 *	63.8	277.9	35,500 *	66.8	280.0	35,800	90
95	57.4	270.7	30,100 *	61.6	275.3	34,400 *	64.7	277.7	33,300	95
100	55.1	267.3	28,900 *	59.4	272.5	33,100	62.5	275.2	31,100	100
105	52.7	263.7	27,700 *	57.2	269.4	31,000	60.4	272.5	29,100	105
110	50.3	259.7	26,500 *	54.9	266.0	29,100	58.1	269.5	27,400	110
115	47.7	255.3	25,300 *	52.5	262.3	27,400	55.9	266.3	25,800	115
120	45.1	250.6	24,100 *	50.1	258.3	25,900	53.5	262.8	24,300	120
125	42.3	245.4	23,000 *	47.5	254.0	24,500	51.1	258.9	22,900	125
130	39.4	239.6	22,000 *	44.9	249.2	23,200	48.6	254.7	21,700	130
135	36.3	233.1	20,900 *	42.1	243.9	22,000	46.0	250.1	20,600	135
140	32.9	225.9	20,000 *	39.2	238.1	20,900	43.3	245.0	19,500	140
145	29.2	217.6	19,000 *	36.0	231.6	19,800	40.4	239.4	18,600	145
150	25.1	207.9	18,200 *	32.6	224.2	18,900	37.4	233.2	17,600	150
155	20.1	195.8	17,400 *	28.9	215.8	18,000	34.1	226.3	16,800	155
160	13.5	179.2	16,800 *	24.7	205.9	17,100	30.5	218.4	16,000	160
165				19.6	193.6	16,300	26.5	209.2	15,300	165
170				12.7	176.4	15,600	21.9	198.0	14,500	170
175							16.0	183.5	13,900	175
180							5.9	157.6	13,200	180
185										185
190										190
195										195
200										200

# MLC165 S-2

ASME B30.5



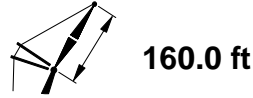
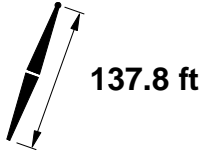
ft	75°			70°			ft
	ft	ft	lb	ft	ft	lb	
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	61.1	270.7	23,000				115
120	58.9	267.8	21,700				120
125	56.6	264.6	20,400				125
130	54.3	261.2	19,300				130
135	51.9	257.4	18,300	57.3	261.7	16,000	135
140	49.5	253.4	17,300	55.0	258.4	15,100	140
145	46.9	248.9	16,400	52.6	254.7	14,300	145
150	44.2	244.0	15,600	50.2	250.7	13,600	150
155	41.4	238.6	14,800	47.6	246.4	12,900	155
160	38.4	232.6	14,100	45.0	241.6	12,200	160
165	35.2	225.9	13,400	42.2	236.3	11,600	165
170	31.8	218.4	12,800	39.3	230.5	11,000	170
175	27.9	209.7	12,200	36.2	224.1	10,500	175
180	23.6	199.3	11,600	32.8	216.8	10,000	180
185	18.2	186.2	11,000	29.1	208.5	9,500	185
190	10.5	166.6	10,500	24.9	198.6	9,000	190
195				19.8	186.5	8,500	195
200				13.1	169.5	8,100	200

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

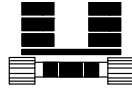
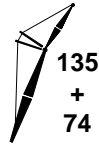


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.3	297.6	34,200 *b							60
65	71.5	296.0	33,500 *b							65
70	69.6	294.3	32,700 *b							70
75	67.6	292.3	31,900 *							75
80	65.7	290.1	31,000 *	69.4	293.1	33,900 *				80
85	63.7	287.8	30,100 *	67.5	291.1	33,400 *				85
90	61.7	285.2	29,100 *	65.5	289.0	32,200 *				90
95	59.6	282.4	28,200 *	63.5	286.6	31,200 *	66.3	288.7	31,900 *	95
100	57.5	279.3	27,100 *	61.5	284.0	30,100 *	64.4	286.4	30,800	100
105	55.4	276.0	26,100 *	59.5	281.1	28,900 *	62.4	283.9	28,800	105
110	53.2	272.4	25,100 *	57.4	278.1	27,800 *	60.3	281.2	27,000	110
115	50.9	268.5	24,100 *	55.2	274.7	26,600 *	58.2	278.2	25,400	115
120	48.6	264.3	23,100 *	53.0	271.1	25,500 *	56.1	275.0	24,000	120
125	46.1	259.7	22,100 *	50.7	267.2	24,200	53.9	271.5	22,600	125
130	43.6	254.7	21,100 *	48.4	262.9	22,900	51.7	267.7	21,400	130
135	40.9	249.2	20,100 *	45.9	258.3	21,700	49.4	263.6	20,300	135
140	38.1	243.1	19,200 *	43.4	253.2	20,600	47.0	259.1	19,200	140
145	35.1	236.4	18,300 *	40.7	247.7	19,600	44.5	254.2	18,200	145
150	31.9	228.8	17,500 *	37.9	241.5	18,600	41.8	248.9	17,300	150
155	28.3	220.2	16,700 *	34.8	234.8	17,700	39.1	243.0	16,500	155
160	24.2	210.0	16,000 *	31.6	227.1	16,900	36.1	236.5	15,700	160
165	19.4	197.6	15,200 *	28.0	218.4	16,100	33.0	229.3	15,000	165
170	13.0	180.4	14,600 *	23.9	208.1	15,400	29.5	221.0	14,300	170
175				19.0	195.3	14,700	25.7	211.5	13,600	175
180				12.3	177.5	14,000	21.2	199.9	13,000	180
185							15.5	184.8	12,400	185
190							5.7	158.1	11,800	190
195										195
200										200
205										205
210										210

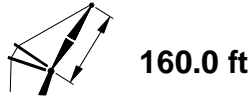
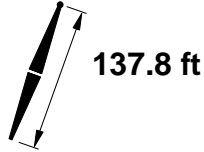


# MLC165 S-2

ASME B30.5



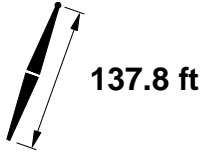
121,500 lb  
+  
35,300 lb



	75°			70°			
	ft	ft	lb	ft	ft	lb	
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120	61.0	279.3	21,300				120
125	59.0	276.5	20,100				125
130	56.8	273.3	19,000				130
135	54.7	269.9	17,900				135
140	52.5	266.2	17,000	57.4	270.4	14,800	140
145	50.2	262.2	16,100	55.3	267.1	13,900	145
150	47.8	257.9	15,300	53.1	263.5	13,200	150
155	45.3	253.1	14,500	50.8	259.6	12,500	155
160	42.7	248.0	13,800	48.5	255.3	11,900	160
165	40.0	242.3	13,100	46.0	250.7	11,200	165
170	37.2	236.0	12,500	43.5	245.7	10,700	170
175	34.1	229.0	11,900	40.8	240.1	10,100	175
180	30.7	221.2	11,300	38.0	234.0	9,600	180
185	27.0	212.1	10,800	35.0	227.3	9,100	185
190	22.8	201.3	10,200	31.7	219.7	8,700	190
195	17.6	187.8	9,700	28.1	211.0	8,200	195
200	10.1	167.5	9,200	24.1	200.8	7,800	200
205				19.2	188.2	7,400	205
210				12.7	170.7	7,000	210

# MLC165 S-2

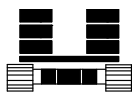
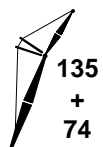
ASME B30.5



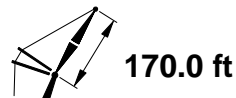
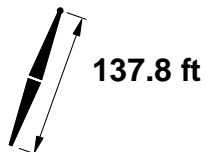
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	74.3	308.0	31,000 *b						60	
65	72.6	306.5	30,400 *b						65	
70	70.8	304.9	29,800 *b						70	
75	69.0	303.1	29,200 *						75	
80	67.2	301.0	28,500 *	70.7	303.7	29,900 *			80	
85	65.4	298.9	27,700 *	68.9	301.9	29,600 *			85	
90	63.5	296.5	27,000 *	67.0	299.9	29,400 *			90	
95	61.6	293.9	26,100 *	65.2	297.7	28,500 *	67.8	299.6	28,000 *	95
100	59.7	291.0	25,200 *	63.3	295.2	27,400 *	66.0	297.4	27,900 *	100
105	57.7	288.0	24,000 *	61.4	292.6	26,400 *	64.1	295.1	27,600 *	105
110	55.7	284.7	23,000 *	59.5	289.8	25,300 *	62.2	292.6	26,600 *	110
115	53.6	281.2	21,900 *	57.5	286.7	24,200 *	60.3	289.8	25,200 *	115
120	51.5	277.3	20,900 *	55.5	283.4	23,100 *	58.4	286.9	23,700 *	120
125	49.3	273.2	19,900 *	53.4	279.9	22,000 *	56.4	283.7	22,400 *	125
130	47.0	268.7	18,900 *	51.3	276.0	21,100 *	54.3	280.2	21,200 *	130
135	44.7	263.9	17,900 *	49.1	271.8	20,000 *	52.2	276.5	20,000 *	135
140	42.2	258.6	17,000 *	46.8	267.3	19,000 *	50.0	272.4	19,000 *	140
145	39.7	252.8	16,200 *	44.5	262.4	18,100 *	47.8	268.1	18,000 *	145
150	36.9	246.5	15,400 *	42.0	257.1	17,200 *	45.5	263.4	17,100 *	150
155	34.0	239.5	14,600 *	39.4	251.3	16,300 *	43.1	258.2	16,300 *	155
160	30.9	231.6	13,600 *	36.7	244.9	15,500 *	40.5	252.6	15,500 *	160
165	27.4	222.7	12,700 *	33.8	237.8	14,800 *	37.9	246.5	14,700 *	165
170	23.5	212.2	11,800 *	30.6	229.9	13,800 *	35.0	239.7	14,100 *	170
175	18.8	199.3	11,000 *	27.1	220.8	12,800 *	32.0	232.2	13,400 *	175
180	12.6	181.5	10,200 *	23.1	210.2	11,900 *	28.6	223.6	12,800 *	180
185				18.4	197.0	11,000 *	24.9	213.7	12,200 *	185
190				11.9	178.5	10,300 *	20.5	201.8	11,500 *	190
195							15.0	186.2	10,700 *	195
200							5.6	158.6	10,000 *	200
205										205
210										210

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



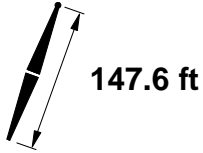
	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	62.9	290.7	21,000
125	61.0	288.0	19,800
130	59.0	285.1	18,700
135	57.0	282.0	17,700
140	55.0	278.6	16,700
145	52.9	275.0	15,800
150	50.8	271.1	15,000
155	48.6	266.8	14,200
160	46.3	262.2	13,500
165	43.9	257.2	12,800
170	41.4	251.8	12,200
175	38.8	245.9	11,600
180	36.0	239.3	11,100
185	33.0	232.1	10,500
190	29.8	223.9	10,000
195	26.2	214.5	9,500
200	22.1	203.3	9,100
205	17.1	189.3	8,600
210	9.8	168.4	8,200

# MLC165 S-2

ASME B30.5



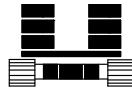
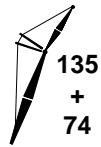
121,500 lb  
+  
35,300 lb



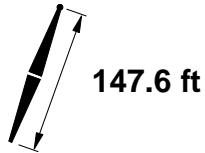
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
34	73.9	221.4	82,100 *d							34
36	72.2	220.8	82,000 *d							36
38	70.5	220.1	81,900 *d							38
40	68.8	219.4	81,800 *d							40
45	64.3	217.2	79,000 *c							45
50	59.6	214.6	72,900 *c	69.0	218.4	79,200 *c				50
55	54.8	211.4	67,100 *b	64.5	216.3	73,600 c				55
60	49.6	207.5	62,300 *b	59.9	213.7	65,900 b	66.9	216.2	62,500 c	60
65	44.0	202.8	58,200 *b	55.0	210.5	59,500 b	62.3	213.9	56,500 b	65
70	37.7	197.0	54,800 *	49.9	206.6	54,200	57.6	211.0	51,400 b	70
75	30.4	189.6	52,000 *	44.3	202.0	49,600	52.6	207.5	47,100 b	75
80	21.0	179.2	48,800	38.1	196.3	45,700	47.3	203.3	43,400	80
85				30.8	189.0	42,300	41.4	198.2	40,200	85
90				21.5	178.8	39,300	34.8	191.8	37,300	90
95							26.8	183.4	34,800	95
100							15.4	170.4	32,500	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135

# MLC165 S-2

ASME B30.5



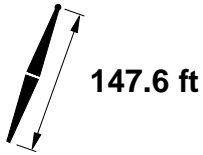
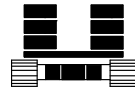
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.0	209.5	39,500 <b>b</b>							80
85	55.2	206.3	36,500 <b>b</b>							85
90	50.0	202.5	33,900							90
95	44.5	197.9	31,600	57.4	203.8	28,500 <b>b</b>				95
100	38.3	192.2	29,600	52.4	200.3	26,600 <b>b</b>				100
105	31.1	185.0	27,700	47.0	196.0	25,000				105
110	21.9	175.0	26,000	41.1	190.8	23,400				110
115	2.0	151.3	24,300	34.4	184.4	22,000	49.0	192.5	19,600	115
120				26.3	175.9	20,800	43.3	187.7	18,500	120
125				14.6	162.5	19,500	37.0	181.8	17,400	125
130							29.5	174.2	16,400	130
135							19.7	163.3	15,500	135

# MLC165 S-2

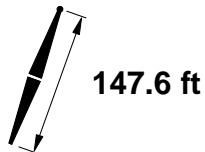
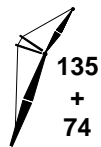
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36	74.5	231.3	75,400 *d							36
38	73.0	230.7	75,300 *d							38
40	71.5	230.0	75,200 *d							40
45	67.7	228.2	74,900 *c							45
50	63.8	225.9	70,600 *c							50
55	59.7	223.2	66,200 *b	67.9	227.2	70,700 *c				55
60	55.4	220.1	61,500 *b	64.0	225.0	65,500 b				60
65	51.0	216.3	57,400 *b	59.9	222.3	59,200 b	66.0	225.0	56,100 b	65
70	46.2	211.9	53,900 *	55.7	219.2	53,900	62.1	222.5	51,000 b	70
75	41.0	206.7	50,400 *	51.2	215.5	49,400	57.9	219.6	46,800 b	75
80	35.2	200.3	46,800 *	46.5	211.1	45,500	53.6	216.2	43,100	80
85	28.4	192.2	43,700 *	41.3	205.9	42,100	49.0	212.2	39,900	85
90	19.6	181.0	41,000 *	35.5	199.6	39,100	44.1	207.5	37,000	90
95				28.8	191.6	36,500	38.6	201.8	34,500	95
100				20.1	180.6	34,100	32.5	194.8	32,300	100
105							25.0	185.7	30,300	105
110							14.4	171.7	28,400	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145

# MLC165 S-2

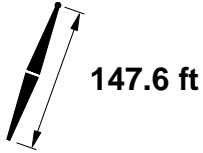
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.0	218.2	36,100 <b>b</b>							85
90	55.8	215.0	33,600							90
95	51.4	211.4	31,300							95
100	46.6	207.0	29,200	57.7	212.4	26,200 <b>b</b>				100
105	41.5	201.8	27,400	53.4	209.0	24,500				105
110	35.7	195.6	25,700	48.8	205.0	23,000				110
115	29.0	187.7	24,200	43.8	200.2	21,700				115
120	20.4	176.8	22,800	38.4	194.5	20,400	50.5	201.4	18,000	120
125	1.8	151.4	21,400	32.1	187.4	19,300	45.7	196.9	17,000	125
130				24.6	178.1	18,200	40.4	191.6	16,000	130
135				13.7	163.7	17,200	34.5	185.0	15,200	135
140							27.6	176.7	14,300	140
145							18.4	165.0	13,500	145

# MLC165 S-2

ASME B30.5

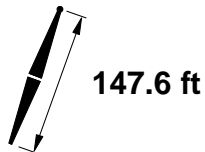
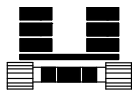
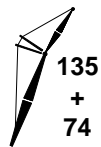


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	74.9	241.1	69,200 *d							38
40	73.6	240.5	69,100 *d							40
45	70.3	238.9	68,800 *c							45
50	66.9	236.9	66,100 *c							50
55	63.3	234.6	62,600 *b	70.4	237.9	67,900 *c				55
60	59.7	231.9	59,000 *b	67.0	236.0	64,300 *b				60
65	56.0	228.7	55,400 *b	63.5	233.7	59,000 b				65
70	52.0	225.1	51,800 *b	59.9	231.0	53,700 b	65.4	233.7	50,800 b	70
75	47.9	220.9	48,400 *	56.2	227.9	49,200	61.8	231.2	46,500 b	75
80	43.4	216.0	45,200 *	52.2	224.3	45,300	58.2	228.3	42,800	80
85	38.6	210.3	42,200 *	48.1	220.1	41,900	54.3	225.0	39,700	85
90	33.1	203.4	39,400 *	43.7	215.2	39,000	50.3	221.1	36,900	90
95	26.7	194.7	36,900 *	38.8	209.5	36,400	46.0	216.6	34,400	95
100	18.5	182.7	34,700 *	33.4	202.7	34,000	41.4	211.4	32,100	100
105				27.1	194.1	31,900	36.3	205.2	30,200	105
110				19.0	182.3	30,000	30.6	197.6	28,300	110
115							23.6	187.8	26,700	115
120							13.6	173.0	25,100	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155



# MLC165 S-2

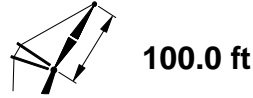
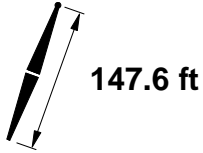
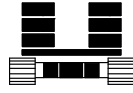
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.0	226.8	33,300 <b>b</b>							90
95	56.3	223.7	31,000							95
100	52.4	220.1	29,000							100
105	48.2	216.0	27,200	58.0	221.1	24,300				105
110	43.8	211.2	25,600	54.1	217.7	22,800				110
115	39.0	205.5	24,100	50.1	213.9	21,400				115
120	33.6	198.7	22,700	45.8	209.3	20,200				120
125	27.3	190.2	21,400	41.2	204.1	19,100	51.6	210.2	16,700	125
130	19.3	178.6	20,300	36.1	197.8	18,000	47.4	206.0	15,800	130
135	1.7	151.6	19,000	30.3	190.2	17,100	42.9	201.0	14,900	135
140				23.2	180.2	16,100	38.0	195.1	14,100	140
145				12.9	164.9	15,300	32.5	188.1	13,400	145
150							26.0	179.1	12,700	150
155							17.3	166.5	12,000	155

# MLC165 S-2

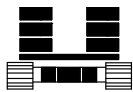
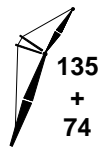
ASME B30.5



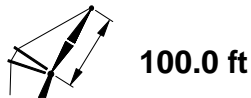
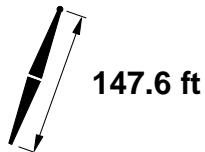
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	72.3	249.4	63,500 *c						45	
50	69.3	247.7	60,900 *c						50	
55	66.2	245.7	58,200 *b						55	
60	63.0	243.3	55,300 *b	69.4	246.7	61,600 *b			60	
65	59.8	240.6	52,200 *b	66.3	244.7	58,500 *b			65	
70	56.4	237.4	49,200 *b	63.2	242.4	53,300	68.0	244.6	50,400 b	70
75	52.9	233.9	46,300 *	59.9	239.6	48,900	64.9	242.4	46,100 b	75
80	49.2	229.8	43,400 *	56.6	236.5	45,000	61.6	239.9	42,500	80
85	45.3	225.2	40,700 *	53.0	233.0	41,600	58.3	237.0	39,300	85
90	41.1	219.9	38,200 *	49.4	229.0	38,700	54.9	233.7	36,500	90
95	36.5	213.7	35,800 *	45.5	224.4	36,100	51.3	229.9	34,000	95
100	31.4	206.2	33,500 *	41.3	219.1	33,800	47.6	225.6	31,800	100
105	25.4	197.0	31,500 *	36.8	213.0	31,700	43.5	220.7	29,800	105
110	17.5	184.2	29,800 *	31.7	205.6	29,800	39.2	215.1	28,100	110
115				25.7	196.5	28,000	34.4	208.4	26,400	115
120				18.0	184.0	26,400	29.0	200.3	24,900	120
125							22.3	189.9	23,600	125
130							12.9	174.1	22,200	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165

# MLC165 S-2

ASME B30.5



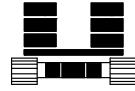
121,500 lb  
+  
35,300 lb



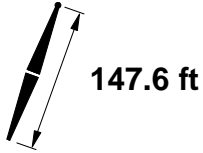
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	60.0	235.5	30,600							100
105	56.7	232.4	28,600							105
110	53.2	228.9	26,800							110
115	49.5	224.9	25,200							110
115	45.6	220.3	23,700	54.7	226.5	21,000				115
120	41.4	215.1	22,400	51.1	222.7	19,800				120
125	36.9	208.9	21,100	47.4	218.4	18,700				125
130	31.8	201.6	20,000	43.3	213.4	17,700	52.5	219.0	15,400	130
135	25.9	192.5	18,900	39.0	207.7	16,700	48.8	214.9	14,500	135
140	18.3	180.2	17,900	34.2	201.0	15,800	44.8	210.2	13,700	140
145	1.6	151.7	16,900	28.7	192.8	15,000	40.6	204.8	13,000	145
150				22.0	182.2	14,200	36.0	198.5	12,300	150
155				12.2	166.0	13,400	30.8	190.9	11,600	155
160							24.6	181.4	11,000	160
165							16.4	168.0	10,400	165

# MLC165 S-2

ASME B30.5



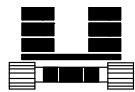
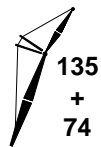
121,500 lb  
+  
35,300 lb



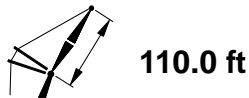
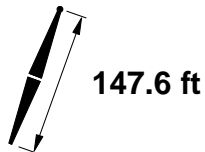
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
45	74.0	259.9	58,000 *c							45
50	71.2	258.3	56,100 *c							50
55	68.5	256.5	53,900 *b							55
60	65.6	254.4	51,600 *b							60
65	62.7	252.0	49,200 *b	68.6	255.5	56,200 *b				65
70	59.8	249.2	46,600 *b	65.8	253.4	53,300				70
75	56.7	246.1	44,200 *	62.9	251.0	48,800	67.3	253.3	46,100 b	75
80	53.5	242.6	41,700 *	59.9	248.3	44,900	64.4	251.1	42,400	80
85	50.2	238.7	39,300 *	56.9	245.2	41,600	61.5	248.5	39,200	85
90	46.8	234.3	37,000 *	53.7	241.8	38,600	58.5	245.6	36,400	90
95	43.1	229.3	34,800 *	50.4	237.9	36,000	55.4	242.4	34,000	95
100	39.1	223.5	32,800 *	46.9	233.5	33,700	52.2	238.7	31,800	100
105	34.8	216.9	30,800 *	43.3	228.5	31,700	48.8	234.6	29,800	105
110	29.9	209.0	29,100 *	39.3	222.8	29,800	45.2	229.9	28,000	110
115	24.2	199.2	27,500 *	35.0	216.2	28,100	41.4	224.6	26,400	115
120	16.7	185.7	26,100 *	30.2	208.4	26,500	37.3	218.5	24,900	120
125				24.5	198.7	25,100	32.8	211.4	23,600	125
130				17.1	185.5	23,700	27.6	202.8	22,300	130
135							21.3	191.8	21,200	135
140							12.3	175.2	20,100	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175

# MLC165 S-2

ASME B30.5



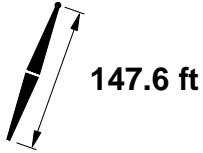
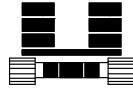
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	63.0	246.9	30,600							95
100	60.0	244.2	28,600							100
105	57.0	241.1	26,800							105
110	53.8	237.6	25,100							110
115	50.5	233.8	23,700							115
120	47.0	229.4	22,300	55.2	235.2	19,800				120
125	43.4	224.4	21,100	52.0	231.5	18,600				125
130	39.4	218.7	20,000	48.6	227.3	17,600				130
135	35.1	212.2	18,900	45.0	222.6	16,700				135
140	30.3	204.4	17,900	41.2	217.3	15,800	49.9	223.8	13,700	140
145	24.7	194.8	17,000	37.1	211.2	15,000	46.4	219.3	13,000	145
150	17.4	181.8	16,200	32.5	204.0	14,200	42.6	214.2	12,300	150
155	1.6	151.9	15,300	27.3	195.3	13,500	38.6	208.4	11,600	155
160				20.9	184.1	12,800	34.3	201.6	11,000	160
165				11.6	167.0	12,100	29.3	193.6	10,500	165
170							23.5	183.5	9,900	170
175							15.7	169.4	9,400	175

# MLC165 S-2

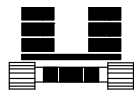
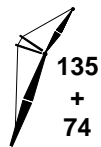
ASME B30.5



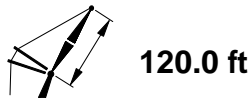
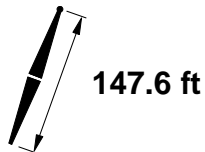
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	72.9	268.8	46,400 *c							50
55	70.3	267.2	45,600 *b							55
60	67.8	265.3	44,900 *b							60
65	65.2	263.1	44,200 *b	70.5	266.2	45,900 *b				65
70	62.5	260.6	42,800 *	67.9	264.3	45,400 *				70
75	59.8	257.9	40,800 *	65.3	262.1	45,000 *				75
80	57.0	254.8	38,900 *	62.7	259.7	44,500 *	66.7	262.1	42,000	80
85	54.1	251.4	36,900 *	59.9	257.0	41,300	64.1	259.8	38,900	85
90	51.1	247.5	35,000 *	57.1	253.9	38,300	61.4	257.2	36,100	90
95	48.0	243.3	33,100 *	54.2	250.5	35,700	58.6	254.3	33,600	95
100	44.6	238.5	31,300 *	51.2	246.7	33,400	55.8	251.1	31,400	100
105	41.1	233.1	29,600 *	48.1	242.4	31,400	52.8	247.5	29,500	105
110	37.4	227.0	28,000 *	44.8	237.7	29,500	49.8	243.5	27,700	110
115	33.2	219.9	26,400 *	41.3	232.3	27,800	46.6	239.0	26,100	115
120	28.6	211.6	25,000 *	37.6	226.3	26,200	43.2	234.0	24,600	120
125	23.1	201.3	23,800 *	33.5	219.3	24,800	39.6	228.3	23,300	125
130	16.0	187.2	22,800 *	28.8	211.0	23,500	35.7	221.8	22,100	130
135				23.4	200.8	22,300	31.3	214.3	20,900	135
140				16.4	187.0	21,200	26.4	205.2	19,800	140
145							20.4	193.6	18,800	145
150							11.7	176.3	17,900	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185

# MLC165 S-2

ASME B30.5



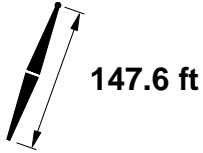
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.7	255.5	28,100							100
105	60.0	252.8	26,400							105
110	57.2	249.8	24,800							110
115	54.3	246.4	23,300							115
120	51.3	242.6	22,000							120
125	48.2	238.4	20,700	55.6	243.9	18,200				125
130	44.9	233.6	19,600	52.7	240.3	17,200				130
135	41.4	228.3	18,600	49.6	236.2	16,300				135
140	37.7	222.2	17,600	46.4	231.7	15,400				140
145	33.6	215.3	16,700	43.0	226.7	14,600	50.8	232.6	12,500	145
150	29.0	207.0	15,900	39.4	221.0	13,900	47.6	228.3	11,900	150
155	23.6	196.9	15,100	35.5	214.4	13,200	44.3	223.5	11,200	155
160	16.7	183.3	14,300	31.1	206.8	12,500	40.7	218.0	10,600	160
165	1.5	152.0	13,500	26.1	197.7	11,900	36.9	211.8	10,100	165
170				20.0	185.9	11,300	32.8	204.6	9,600	170
175				11.2	168.0	10,700	28.0	196.1	9,100	175
180							22.4	185.5	8,600	180
185							15.0	170.8	8,100	185

# MLC165 S-2

ASME B30.5

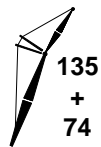


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.2	279.3	43,700 *c							50
55	71.9	277.7	42,900 *b							55
60	69.6	276.0	42,400 *b							60
65	67.2	274.0	41,400 *b							65
70	64.8	271.8	39,900 *b	69.7	275.0	42,500 *				70
75	62.3	269.3	38,300 *	67.3	273.1	42,100 *				75
80	59.8	266.5	36,700 *	64.9	270.8	41,600 *				80
85	57.2	263.5	35,000 *	62.5	268.4	41,000	66.2	270.8	38,600	85
90	54.6	260.1	33,300 *	59.9	265.6	38,100	63.8	268.4	35,800	90
95	51.8	256.3	31,800 *	57.4	262.6	35,500	61.3	265.8	33,400	95
100	49.0	252.2	30,100 *	54.7	259.2	33,200	58.7	263.0	31,200	100
105	46.0	247.6	28,700 *	52.0	255.5	31,100	56.1	259.8	29,200	105
110	42.8	242.5	27,200 *	49.1	251.4	29,300	53.4	256.2	27,500	110
115	39.5	236.8	25,800 *	46.1	246.8	27,600	50.6	252.3	25,900	115
120	35.9	230.3	24,500 *	43.0	241.7	26,000	47.7	248.0	24,400	120
125	31.9	222.9	23,200 *	39.6	236.0	24,600	44.6	243.2	23,100	125
130	27.4	214.1	22,000 *	36.0	229.6	23,300	41.4	237.8	21,800	130
135	22.2	203.3	21,000 *	32.1	222.2	22,100	38.0	231.8	20,700	135
140	15.3	188.6	20,100 *	27.7	213.5	21,000	34.2	225.0	19,700	140
145				22.5	202.8	20,000	30.1	217.0	18,700	145
150				15.8	188.4	19,000	25.3	207.5	17,800	150
155							19.6	195.4	16,900	155
160							11.3	177.3	16,100	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

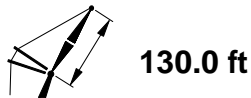
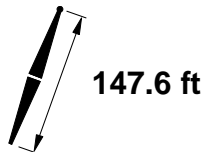


# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



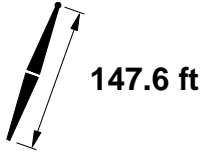
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.5	264.2	26,100							105
110	60.0	261.5	24,500							110
115	57.4	258.4	23,000							115
120	54.8	255.1	21,700							120
125	52.0	251.4	20,500							125
130	49.2	247.3	19,400	56.0	252.6	16,900				130
135	46.2	242.7	18,300	53.3	249.0	16,000				135
140	43.1	237.7	17,400	50.5	245.1	15,200				140
145	39.7	232.0	16,500	47.6	240.7	14,400				145
150	36.2	225.6	15,700	44.5	235.9	13,600	51.5	241.5	11,600	150
155	32.2	218.2	14,900	41.3	230.5	12,900	48.6	237.3	11,000	155
160	27.8	209.6	14,200	37.8	224.5	12,300	45.6	232.6	10,400	160
165	22.7	199.0	13,500	34.0	217.6	11,600	42.5	227.5	9,800	165
170	16.0	184.7	12,800	29.9	209.6	11,100	39.1	221.7	9,300	170
175	1.4	152.1	12,100	25.1	199.9	10,500	35.4	215.1	8,800	175
180				19.2	187.7	10,000	31.4	207.5	8,400	180
185				10.7	169.0	9,500	26.9	198.6	7,900	185
190							21.6	187.5	7,500	190
195							14.4	172.1	7,100	195

# MLC165 S-2

ASME B30.5



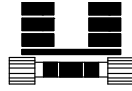
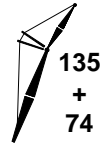
121,500 lb  
+  
35,300 lb



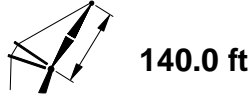
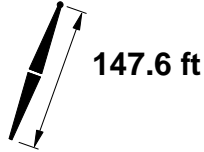
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
55	73.2	288.2	40,200 *b							55
60	71.1	286.6	39,200 *b							60
65	68.9	284.8	38,100 *b							65
70	66.7	282.8	36,900 *b							70
75	64.5	280.5	35,600 *b	69.0	283.8	39,200 *				75
80	62.2	278.0	34,200 *	66.8	281.8	38,800 *				80
85	59.8	275.2	32,900 *	64.6	279.5	38,400 *	68.0	281.6	38,200 *	85
90	57.4	272.1	31,500 *	62.3	277.0	37,800	65.8	279.5	35,500	90
95	55.0	268.8	30,200 *	59.9	274.3	35,200	63.5	277.1	33,000	95
100	52.4	265.1	28,800 *	57.6	271.3	32,900	61.2	274.5	30,800	100
105	49.8	261.1	27,400 *	55.1	267.9	30,800	58.8	271.6	28,900	105
110	47.1	256.7	26,200 *	52.6	264.3	29,000	56.4	268.4	27,100	110
115	44.2	251.8	24,900 *	49.9	260.2	27,300	53.9	265.0	25,500	115
120	41.2	246.3	23,700 *	47.2	255.8	25,700	51.3	261.1	24,100	120
125	38.0	240.3	22,500 *	44.3	251.0	24,300	48.7	256.9	22,700	125
130	34.5	233.5	21,400 *	41.3	245.6	23,000	45.9	252.3	21,500	130
135	30.7	225.7	20,500 *	38.1	239.6	21,900	42.9	247.2	20,400	135
140	26.4	216.5	19,500 *	34.7	232.8	20,800	39.8	241.5	19,300	140
145	21.4	205.2	18,700 *	30.9	225.0	19,700	36.5	235.2	18,400	145
150	14.8	189.9	18,000 *	26.7	215.9	18,800	32.9	228.0	17,500	150
155				21.7	204.8	17,900	29.0	219.6	16,600	155
160				15.2	189.8	17,000	24.4	209.7	15,800	160
165							18.9	197.1	15,100	165
170							10.9	178.2	14,300	170
175										175
180										180
185										185
190										190
195										195

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



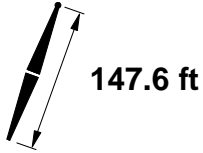
	75°			70°			
	ft	ft	lb	ft	ft	lb	
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	62.4	272.9	24,100				110
115	60.0	270.1	22,600				115
120	57.6	267.1	21,300				120
125	55.2	263.8	20,100				125
130	52.6	260.1	19,000				130
135	50.0	256.1	18,000	56.3	261.2	15,600	135
140	47.3	251.7	17,000	53.8	257.8	14,700	140
145	44.4	246.9	16,100	51.2	253.9	14,000	145
150	41.4	241.5	15,300	48.5	249.7	13,200	150
155	38.2	235.5	14,600	45.7	245.1	12,500	155
160	34.8	228.8	13,800	42.8	239.9	11,900	160
165	31.0	221.1	13,200	39.7	234.2	11,300	165
170	26.8	212.0	12,500	36.4	227.8	10,700	170
175	21.8	200.9	11,900	32.8	220.6	10,200	175
180	15.4	186.1	11,300	28.8	212.2	9,700	180
185	1.4	152.3	10,700	24.2	202.1	9,200	185
190				18.5	189.3	8,700	190
195				10.3	169.9	8,200	195

# MLC165 S-2

ASME B30.5



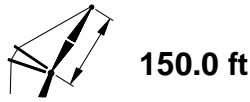
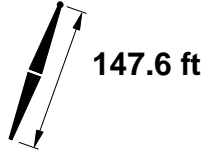
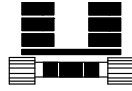
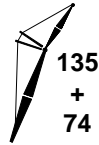
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.4	298.6	36,600 *c							55
60	72.4	297.1	35,800 *b							60
65	70.4	295.5	35,000 *b							65
70	68.3	293.6	34,000 *b							70
75	66.3	291.5	33,000 *	70.5	294.5	36,500 *				75
80	64.2	289.2	32,000 *	68.4	292.6	36,100 *				80
85	62.0	286.6	30,900 *	66.4	290.5	35,800 *				85
90	59.8	283.9	29,700 *	64.3	288.2	35,400 *	67.5	290.4	35,000 *	90
95	57.6	280.8	28,600 *	62.1	285.7	34,300 *	65.4	288.2	32,900	95
100	55.3	277.5	27,400 *	59.9	282.9	32,800	63.3	285.8	30,700	100
105	53.0	273.9	26,300 *	57.7	279.9	30,700	61.1	283.2	28,800	105
110	50.5	269.9	25,100 *	55.4	276.6	28,900	58.9	280.3	27,000	110
115	48.0	265.6	24,000 *	53.1	273.0	27,200	56.6	277.1	25,400	115
120	45.4	260.9	22,900 *	50.6	269.1	25,600	54.3	273.7	24,000	120
125	42.6	255.7	21,900 *	48.1	264.8	24,200	51.9	269.9	22,600	125
130	39.7	250.0	20,900 *	45.5	260.1	23,000	49.5	265.8	21,400	130
135	36.6	243.7	19,900 *	42.8	255.0	21,800	46.9	261.4	20,300	135
140	33.3	236.5	19,000 *	39.9	249.3	20,700	44.2	256.5	19,300	140
145	29.6	228.4	18,200 *	36.8	243.0	19,700	41.4	251.1	18,300	145
150	25.5	218.8	17,400 *	33.5	235.8	18,700	38.4	245.1	17,400	150
155	20.6	207.0	16,700 *	29.8	227.7	17,800	35.3	238.4	16,600	155
160	14.3	191.1	16,100 *	25.7	218.2	17,000	31.8	230.9	15,800	160
165				20.9	206.7	16,200	28.0	222.2	15,000	165
170				14.7	191.1	15,400	23.6	211.8	14,300	170
175							18.2	198.7	13,700	175
180							10.5	179.2	13,000	180
185										185
190										190
195										195
200										200
205										205

# MLC165 S-2

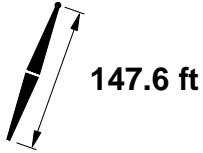
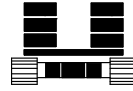
ASME B30.5



	75°			70°			
	ft	ft	lb	ft	ft	lb	
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	62.2	281.6	22,500				115
120	60.0	278.8	21,200				120
125	57.8	275.8	20,000				125
130	55.5	272.5	18,900				130
135	53.1	268.9	17,900				135
140	50.7	265.0	16,900	56.5	269.9	14,600	140
145	48.2	260.7	16,100	54.2	266.5	13,800	145
150	45.6	256.0	15,200	51.8	262.7	13,100	150
155	42.9	250.9	14,500	49.3	258.6	12,400	155
160	40.0	245.2	13,800	46.8	254.1	11,800	160
165	36.9	238.9	13,100	44.1	249.2	11,200	165
170	33.6	231.9	12,500	41.3	243.8	10,600	170
175	30.0	223.8	11,900	38.3	237.8	10,100	175
180	25.9	214.3	11,300	35.1	231.0	9,600	180
185	21.1	202.8	10,800	31.6	223.5	9,100	185
190	14.9	187.4	10,200	27.8	214.7	8,600	190
195	1.3	152.4	9,700	23.3	204.2	8,200	195
200				17.9	190.9	7,800	200
205				10.0	170.8	7,400	205

# MLC165 S-2

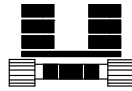
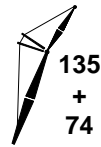
ASME B30.5



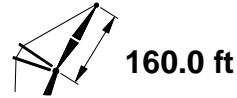
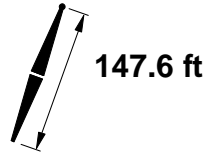
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.5	307.6	32,500 *b							60
65	71.7	306.0	31,900 *b							65
70	69.8	304.3	31,100 *b							70
75	67.8	302.3	30,300 *							75
80	65.9	300.2	29,500 *	69.8	303.3	32,600 *				80
85	63.9	297.9	28,600 *	67.9	301.4	32,400 *				85
90	61.9	295.3	27,700 *	66.0	299.3	32,100 *				90
95	59.8	292.5	26,700 *	64.0	296.9	31,100 *	67.0	299.1	30,700 *	95
100	57.8	289.5	25,800 *	62.0	294.4	30,000 *	65.1	296.9	30,400 *	100
105	55.6	286.2	24,800 *	60.0	291.6	28,900 *	63.1	294.5	28,400 *	105
110	53.4	282.6	23,800 *	57.9	288.6	27,900 *	61.0	291.8	26,700 *	110
115	51.1	278.8	22,900 *	55.7	285.3	26,800 *	59.0	288.9	25,100 *	115
120	48.8	274.6	22,000 *	53.5	281.8	25,300 *	56.9	285.8	23,600 *	120
125	46.4	270.0	21,100 *	51.3	277.9	23,900 *	54.7	282.4	22,300 *	125
130	43.9	265.0	20,200 *	48.9	273.7	22,700 *	52.5	278.7	21,100 *	130
135	41.2	259.6	19,300 *	46.5	269.2	21,500 *	50.2	274.7	20,000 *	135
140	38.4	253.6	18,500 *	44.0	264.2	20,400 *	47.8	270.4	18,900 *	140
145	35.4	246.9	17,700 *	41.3	258.8	19,400 *	45.3	265.6	18,000 *	145
150	32.2	239.5	17,000 *	38.6	252.8	18,400 *	42.8	260.5	17,100 *	150
155	28.7	231.0	16,300 *	35.6	246.2	17,500 *	40.0	254.8	16,300 *	155
160	24.7	221.0	15,600 *	32.4	238.8	16,700 *	37.2	248.5	15,500 *	160
165	20.0	208.8	15,000 *	28.9	230.4	15,900 *	34.1	241.6	14,700 *	165
170	13.8	192.4	14,500 *	24.9	220.5	15,200 *	30.8	233.7	14,000 *	170
175				20.2	208.5	14,500 *	27.1	224.6	13,400 *	175
180				14.2	192.3	13,800 *	22.8	213.9	12,800 *	180
185							17.6	200.3	12,200 *	185
190							10.2	180.1	11,600 *	190
195										195
200										200
205										205

# MLC165 S-2

ASME B30.5



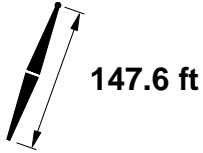
121,500 lb  
+  
35,300 lb



	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	62.1	290.2	20,800
125	60.0	287.5	19,600
130	57.9	284.5	18,500
135	55.8	281.2	17,500
140	53.6	277.6	16,600
145	51.3	273.8	15,700
150	49.0	269.6	14,900
155	46.6	265.1	14,100
160	44.1	260.2	13,400
165	41.4	254.7	12,800
170	38.6	248.8	12,100
175	35.7	242.2	11,500
180	32.5	234.8	11,000
185	29.0	226.4	10,500
190	25.0	216.6	10,000
195	20.4	204.7	9,500
200	14.4	188.7	9,000
205	1.3	152.5	8,500

# MLC165 S-2

ASME B30.5

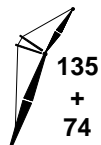


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	74.5	318.0	29,600 *b							60
65	72.8	316.5	29,100 *b							65
70	71.0	314.9	28,500 *b							70
75	69.2	313.1	27,800 *							75
80	67.4	311.1	27,100 *							80
85	65.5	308.9	26,400 *	69.3	312.1	28,600 *				85
90	63.7	306.5	25,700 *	67.5	310.1	28,400 *				90
95	61.8	304.0	24,900 *	65.6	308.0	28,200 *				95
100	59.9	301.2	24,100 *	63.8	305.6	27,400 *	66.6	307.9	26,900 *	100
105	57.9	298.2	23,300 *	61.9	303.0	26,400 *	64.8	305.6	26,800 *	105
110	55.9	294.9	22,500 *	60.0	300.3	25,400 *	62.9	303.2	26,400 *	110
115	53.8	291.4	21,700 *	58.0	297.3	24,300 *	61.0	300.5	24,800 *	115
120	51.7	287.6	20,900 *	56.0	294.0	23,300 *	59.0	297.6	23,400 *	120
125	49.5	283.5	20,000 *	53.9	290.5	22,300 *	57.0	294.5	22,100 *	125
130	47.3	279.0	19,000 *	51.8	286.7	21,300 *	55.0	291.1	20,800 *	130
135	44.9	274.2	18,100 *	49.6	282.6	20,300 *	52.9	287.5	19,700 *	135
140	42.5	269.0	17,200 *	47.4	278.2	19,300 *	50.8	283.6	18,700 *	140
145	39.9	263.3	16,400 *	45.0	273.4	18,400 *	48.6	279.3	17,700 *	145
150	37.2	257.0	15,500 *	42.6	268.2	17,500 *	46.3	274.7	16,900 *	150
155	34.3	250.1	14,700 *	40.1	262.5	16,600 *	43.9	269.7	16,000 *	155
160	31.2	242.3	13,800 *	37.4	256.3	15,800 *	41.4	264.3	15,200 *	160
165	27.8	233.5	12,900 *	34.5	249.4	15,000 *	38.8	258.4	14,500 *	165
170	23.9	223.2	12,000 *	31.4	241.7	14,100 *	36.0	251.8	13,800 *	170
175	19.4	210.6	11,100 *	28.0	232.9	13,100 *	33.1	244.6	13,200 *	175
180	13.4	193.6	10,400 *	24.2	222.7	12,200 *	29.8	236.4	12,600 *	180
185				19.6	210.2	11,300 *	26.2	227.0	12,000 *	185
190				13.8	193.6	10,500 *	22.1	215.9	11,400 *	190
195							17.1	201.8	10,900 *	195
200							9.9	181.0	10,300 *	200
205										205
210										210
215										215

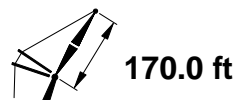
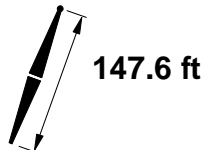


# MLC165 S-2

ASME B30.5



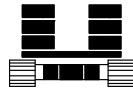
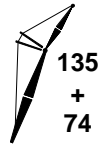
121,500 lb  
+  
35,300 lb



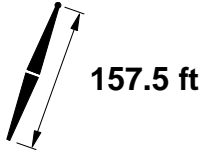
ft	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125	61.9	298.9	19,300
130	60.0	296.1	18,200
135	58.1	293.1	17,200
140	56.0	289.9	16,300
145	54.0	286.4	15,400
150	51.9	282.6	14,600
155	49.7	278.5	13,900
160	47.5	274.1	13,200
165	45.1	269.3	12,500
170	42.7	264.1	11,900
175	40.1	258.5	11,300
180	37.5	252.2	10,800
185	34.6	245.4	10,200
190	31.5	237.7	9,700
195	28.1	228.9	9,300
200	24.3	218.8	8,800
205	19.8	206.4	8,400
210	14.0	190.0	8,000
215	1.3	152.6	7,500

# MLC165 S-2

ASME B30.5



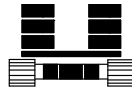
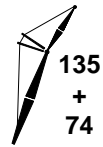
121,500 lb  
+  
35,300 lb



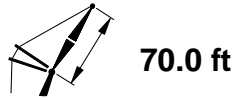
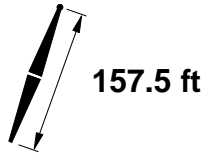
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
34	74.4	231.4	77,900 *d						34	
36	72.7	230.8	77,800 *d						36	
38	70.9	230.2	77,700 *d						38	
40	69.2	229.4	77,500 *d						40	
45	64.8	227.3	74,500 *c						45	
50	60.1	224.7	70,000 *c	70.0	228.7	75,200 *d			50	
55	55.3	221.5	65,000 *b	65.6	226.6	70,900 *c			55	
60	50.1	217.7	60,500 *b	61.0	224.1	65,400 b			60	
65	44.6	213.1	56,700 *b	56.2	221.1	59,100 b	63.9	224.4	55,800 c	65
70	38.4	207.5	53,000 *b	51.1	217.4	53,800 b	59.3	221.7	50,700 b	70
75	31.2	200.3	49,400 *	45.7	212.9	49,300	54.4	218.4	46,500 b	75
80	22.1	190.3	46,200 *	39.6	207.5	45,400	49.2	214.5	42,800	80
85	3.7	168.5	43,100 *	32.7	200.7	42,000	43.5	209.7	39,600	85
90				24.1	191.4	39,000	37.2	203.8	36,800	90
95				10.1	175.1	36,300	29.7	196.3	34,300	95
100							20.0	185.5	32,100	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

# MLC165 S-2

ASME B30.5



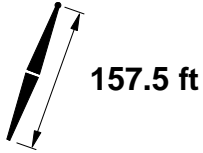
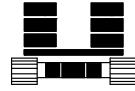
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.4	220.4	38,600 <b>b</b>							80
85	57.7	217.5	35,700 <b>b</b>							85
90	52.7	214.1	33,100 <b>b</b>							90
95	47.4	209.9	30,900							95
100	41.5	204.8	28,900	55.8	211.9	25,700 <b>b</b>				100
105	34.9	198.4	27,100	50.7	208.2	24,000 <b>b</b>				105
110	26.9	190.1	25,400	45.1	203.7	22,600				110
115	15.6	177.2	23,900	39.0	198.2	21,200				115
120				32.0	191.1	20,000	48.1	200.7	17,500	120
125				23.1	181.6	18,800	42.3	195.8	16,500	125
130				7.7	163.4	17,700	35.8	189.6	15,500	130
135							28.1	181.6	14,700	135
140							17.5	169.7	13,800	140

# MLC165 S-2

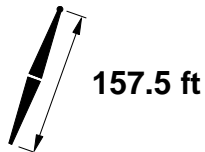
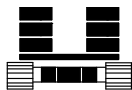
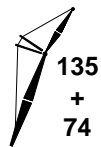
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
36	74.9	241.2	72,100 *d						36	
38	73.4	240.7	72,000 *d						38	
40	71.9	240.0	71,900 *d						40	
45	68.1	238.2	69,400 *c						45	
50	64.2	236.0	65,800 *c						50	
55	60.1	233.4	61,900 *b	68.8	237.5	68,000 *c			55	
60	55.9	230.2	58,000 *b	64.9	235.3	64,200 *b			60	
65	51.5	226.6	54,200 *b	60.9	232.8	58,700 b	67.4	235.4	55,300 c	65
70	46.7	222.2	50,700 *	56.7	229.7	53,500 b	63.4	233.1	50,400 b	70
75	41.6	217.1	47,200 *	52.3	226.2	49,000	59.4	230.4	46,100 b	75
80	35.8	210.8	44,100 *	47.6	222.0	45,100	55.1	227.1	42,500	80
85	29.2	203.0	41,200 *	42.6	217.0	41,800	50.6	223.4	39,300	85
90	20.7	192.2	38,700 *	37.0	211.0	38,800	45.8	218.9	36,500	90
95	3.5	168.8	36,900 *	30.5	203.5	36,200	40.6	213.6	34,100	95
100				22.5	193.5	33,800	34.7	207.1	31,900	100
105				9.4	176.0	31,600	27.8	198.8	29,900	105
110							18.7	187.2	28,000	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

# MLC165 S-2

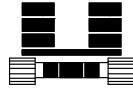
ASME B30.5



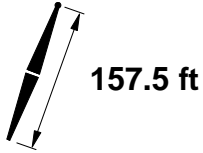
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.1	229.1	35,200 <b>b</b>							85
90	58.0	226.2	32,700 <b>b</b>							90
95	53.7	222.8	30,500							95
100	49.1	218.8	28,500							100
105	44.1	214.1	26,700	56.3	220.6	23,600 <b>b</b>				105
110	38.7	208.4	25,100	51.9	217.0	22,100				110
115	32.6	201.5	23,600	47.2	212.7	20,800				115
120	25.2	192.4	22,300	42.1	207.7	19,600				120
125	14.6	178.6	21,000	36.4	201.6	18,500	49.7	209.6	16,000	125
130				29.9	193.9	17,500	44.8	205.0	15,100	130
135				21.6	183.5	16,500	39.5	199.5	14,300	135
140				7.2	164.1	15,500	33.4	192.7	13,500	140
145							26.2	184.0	12,700	145
150							16.4	171.2	12,000	150

# MLC165 S-2

ASME B30.5



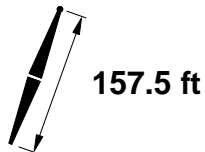
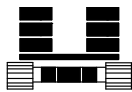
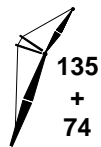
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
40	74.0	250.5	66,200 *d							40
45	70.6	248.9	64,200 *c							45
50	67.2	247.0	61,200 *c							50
55	63.7	244.7	58,000 *b							55
60	60.1	242.0	54,800 *b	67.9	246.2	61,800 *b				60
65	56.4	238.9	51,600 *b	64.4	244.0	58,500 b				65
70	52.4	235.3	48,400 *b	60.8	241.4	53,300 b	66.6	244.1	50,100 b	70
75	48.3	231.2	45,400 *	57.1	238.4	48,800	63.1	241.8	45,900 b	75
80	43.9	226.4	42,500 *	53.2	234.9	44,900	59.4	239.0	42,300 b	80
85	39.1	220.7	39,700 *	49.1	230.9	41,600	55.7	235.8	39,100	85
90	33.7	214.0	37,200 *	44.7	226.2	38,700	51.7	232.2	36,300	90
95	27.5	205.5	35,000 *	40.0	220.8	36,100	47.5	227.9	33,900	95
100	19.5	194.0	33,000 *	34.8	214.2	33,800	43.0	223.0	31,700	100
105	3.3	169.1	31,100 *	28.7	206.1	31,700	38.1	217.1	29,700	105
110				21.2	195.4	29,700	32.6	210.1	27,900	110
115				8.9	176.8	27,900	26.2	201.2	26,300	115
120							17.6	188.8	24,800	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

# MLC165 S-2

ASME B30.5



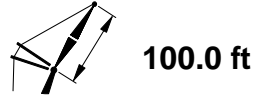
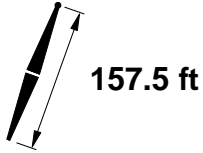
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.9	237.8	32,500 <b>b</b>							90
95	58.2	234.9	30,300							95
100	54.4	231.5	28,300							100
105	50.4	227.7	26,500							105
110	46.1	223.2	24,900	56.7	229.3	21,900				110
115	41.5	218.0	23,400	52.8	225.8	20,600				115
120	36.4	211.8	22,100	48.7	221.7	19,400				120
125	30.7	204.3	20,900	44.3	217.0	18,300				125
130	23.7	194.6	19,700	39.6	211.4	17,300	50.9	218.5	14,900	130
135	13.8	179.8	18,600	34.3	204.8	16,400	46.7	214.1	14,000	135
140				28.1	196.5	15,500	42.1	209.0	13,300	140
145				20.4	185.4	14,600	37.1	203.0	12,600	145
150				6.8	164.7	13,800	31.5	195.6	11,900	150
155							24.7	186.3	11,200	155
160							15.4	172.6	10,600	160

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

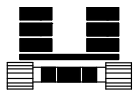
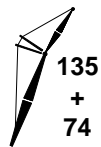


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
45	72.6	259.4	58,900 *c							45
50	69.6	257.7	56,600 *c							50
55	66.5	255.7	54,000 *b							55
60	63.3	253.4	51,400 *b	70.2	257.0	59,100 *b				60
65	60.1	250.7	48,700 *b	67.1	255.0	56,300 *b				65
70	56.7	247.6	46,000 *b	63.9	252.7	52,900 b				70
75	53.2	244.1	43,300 *	60.7	250.1	48,500	65.9	252.9	45,500 b	75
80	49.6	240.1	40,800 *	57.4	247.1	44,600	62.8	250.4	41,900 b	80
85	45.7	235.6	38,300 *	53.9	243.7	41,300	59.5	247.7	38,700	85
90	41.5	230.3	36,000 *	50.3	239.8	38,400	56.1	244.5	36,000	90
95	37.0	224.2	33,800 *	46.4	235.3	35,800	52.6	241.0	33,500	95
100	31.9	216.9	31,700 *	42.3	230.2	33,500	48.9	236.9	31,400	100
105	26.0	207.9	30,000 *	37.9	224.3	31,400	44.9	232.2	29,400	105
110	18.5	195.7	28,300 *	32.9	217.3	29,500	40.7	226.8	27,600	110
115	3.1	169.4	27,100 *	27.2	208.6	27,800	36.1	220.5	26,000	115
120				20.1	197.2	26,200	30.9	212.9	24,600	120
125				8.4	177.5	24,700	24.8	203.5	23,200	125
130							16.7	190.3	21,900	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

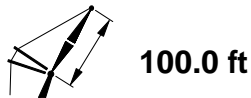
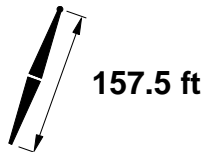


# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



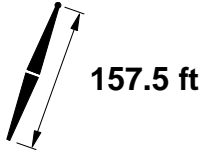
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.7	246.4	29,800							100
105	58.4	243.5	27,900							105
110	55.0	240.3	26,100							110
115	51.4	236.5	24,500							115
120	47.6	232.2	23,100	57.1	238.0	20,100				120
125	43.6	227.3	21,800	53.6	234.5	19,000				125
130	39.3	221.7	20,500	49.9	230.6	17,900				130
135	34.5	215.0	19,400	46.1	226.1	16,900				135
140	29.1	207.0	18,400	42.0	220.9	16,000	51.9	227.3	13,600	140
145	22.5	196.6	17,400	37.5	214.9	15,100	48.1	223.1	12,800	145
150	13.1	181.0	16,500	32.5	207.7	14,300	44.2	218.3	12,100	150
155				26.7	198.9	13,600	39.9	212.7	11,500	155
160				19.3	187.1	12,800	35.2	206.2	10,900	160
165				6.4	165.3	12,100	29.8	198.4	10,300	165
170							23.4	188.4	9,700	170
							14.6	173.9	9,200	170

# MLC165 S-2

ASME B30.5



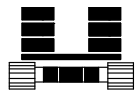
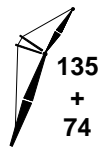
121,500 lb  
+  
35,300 lb



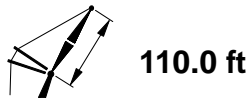
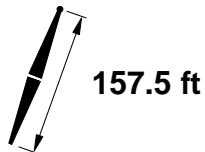
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
45	74.3	269.9	48,800 *c							45
50	71.5	268.3	47,900 *c							50
55	68.8	266.5	47,100 *b							55
60	65.9	264.4	46,300 *b							60
65	63.0	262.0	44,900 *b	69.3	265.8	47,600 *b				65
70	60.1	259.3	42,700 *b	66.5	263.7	47,100 *b				70
75	57.0	256.3	40,600 *	63.6	261.4	46,600 *				75
80	53.9	252.8	38,500 *	60.6	258.8	44,600	65.4	261.6	41,800	80
85	50.6	249.0	36,400 *	57.6	255.8	41,200	62.5	259.1	38,700	85
90	47.1	244.6	34,400 *	54.5	252.4	38,300	59.5	256.4	35,900	90
95	43.5	239.6	32,400 *	51.2	248.6	35,700	56.5	253.2	33,500	95
100	39.5	234.0	30,600 *	47.8	244.3	33,400	53.3	249.7	31,300	100
105	35.2	227.4	28,900 *	44.2	239.5	31,400	49.9	245.7	29,400	105
110	30.4	219.7	27,400 *	40.3	234.0	29,500	46.5	241.3	27,600	110
115	24.8	210.1	25,900 *	36.1	227.6	27,800	42.7	236.2	26,000	115
120	17.6	197.2	24,700 *	31.4	220.1	26,300	38.8	230.4	24,600	120
125	2.9	169.6	23,800 *	25.9	211.0	24,900	34.4	223.7	23,200	125
130				19.1	198.9	23,500	29.5	215.6	22,000	130
135				8.0	178.3	22,300	23.6	205.6	20,900	135
140							15.9	191.7	19,800	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



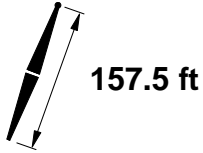
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.5	255.1	27,800							100
105	58.5	252.2	26,100							105
110	55.4	249.0	24,500							110
115	52.2	245.3	23,000							115
120	48.8	241.2	21,700	57.3	246.7	18,900				120
125	45.3	236.5	20,500	54.2	243.3	17,800				125
130	41.5	231.2	19,400	50.9	239.4	16,900				130
135	37.4	225.2	18,400	47.5	235.1	15,900				135
140	32.8	218.0	17,400	43.8	230.2	15,100	52.6	236.1	12,800	140
145	27.7	209.5	16,600	39.9	224.6	14,300	49.3	232.0	12,100	145
150	21.4	198.5	15,700	35.7	218.2	13,600	45.8	227.4	11,500	150
155	12.5	182.1	14,900	30.9	210.6	12,900	42.0	222.2	10,800	155
160				25.4	201.2	12,200	37.9	216.3	10,300	160
165				18.4	188.8	11,600	33.5	209.3	9,700	165
170				6.1	165.8	11,000	28.4	201.0	9,200	170
175							22.3	190.4	8,700	175
180							14.0	175.2	8,200	180

# MLC165 S-2

ASME B30.5



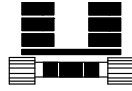
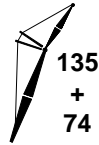
121,500 lb  
+  
35,300 lb



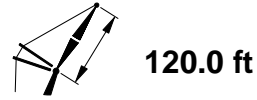
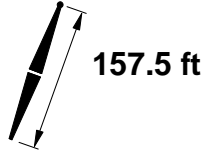
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.1	278.8	45,100 *c							50
55	70.6	277.2	44,400 *b							55
60	68.1	275.3	43,500 *b							60
65	65.5	273.1	41,800 *b							65
70	62.8	270.7	40,100 *b	68.5	274.6	44,200 *b				70
75	60.1	268.0	38,200 *	65.9	272.5	43,800 *				75
80	57.3	265.0	36,400 *	63.3	270.1	43,200 *	67.6	272.5	41,400	80
85	54.4	261.6	34,700 *	60.6	267.4	40,900	65.0	270.3	38,300	85
90	51.4	257.8	32,900 *	57.8	264.4	38,000	62.3	267.8	35,600	90
95	48.3	253.6	31,200 *	54.9	261.1	35,400	59.6	265.0	33,100	95
100	45.0	248.8	29,600 *	52.0	257.4	33,100	56.8	261.9	31,000	100
105	41.5	243.5	28,000 *	48.9	253.3	31,100	53.9	258.4	29,000	105
110	37.8	237.5	26,500 *	45.6	248.7	29,200	50.8	254.6	27,300	110
115	33.7	230.5	25,100 *	42.2	243.5	27,500	47.7	250.3	25,700	115
120	29.1	222.4	23,800 *	38.5	237.6	26,000	44.4	245.5	24,200	120
125	23.7	212.3	22,700 *	34.5	230.8	24,600	40.8	240.0	22,900	125
130	16.8	198.8	21,700 *	30.0	222.9	23,300	37.0	233.8	21,700	130
135	2.8	169.9	20,700 *	24.8	213.2	22,100	32.9	226.7	20,600	135
140				18.3	200.6	21,000	28.2	218.2	19,500	140
145				7.7	179.0	19,900	22.6	207.7	18,500	145
150							15.2	193.1	17,600	150
155										155
160										160
165										165
170										170
175										175
180										180

# MLC165 S-2

ASME B30.5



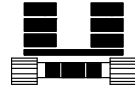
121,500 lb  
+  
35,300 lb



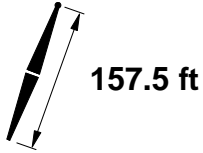
	75°			70°			
	ft	ft	lb	ft	ft	lb	
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105	61.4	263.8	25,600				105
110	58.7	260.9	24,100				110
115	55.8	257.7	22,600				115
120	52.9	254.1	21,300				120
125	49.8	250.1	20,100	57.6	255.3	17,400	125
130	46.6	245.6	19,000	54.7	252.0	16,400	130
135	43.2	240.6	18,000	51.7	248.2	15,500	135
140	39.6	234.9	17,100	48.6	244.1	14,700	140
145	35.7	228.5	16,200	45.3	239.4	13,900	145
150	31.4	220.9	15,400	41.9	234.1	13,200	150
155	26.5	211.9	14,600	38.1	228.2	12,500	155
160	20.5	200.4	13,900	34.1	221.3	11,900	160
165	11.9	183.2	13,200	29.6	213.3	11,300	165
170				24.3	203.4	10,700	170
175				17.6	190.4	10,100	175
180				5.9	166.4	9,600	180

# MLC165 S-2

ASME B30.5



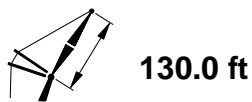
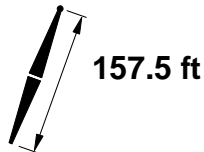
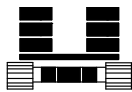
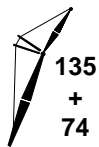
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.4	289.2	42,400 *c							50
55	72.1	287.7	41,400 *c							55
60	69.8	286.0	40,200 *b							60
65	67.4	284.1	38,900 *b							65
70	65.0	281.9	37,500 *b	70.3	285.2	41,300 *b				70
75	62.6	279.4	35,900 *	67.9	283.3	40,900 *				75
80	60.1	276.7	34,400 *	65.5	281.2	40,600 *				80
85	57.5	273.6	32,900 *	63.0	278.8	40,200 *	67.0	281.2	38,000	85
90	54.8	270.3	31,400 *	60.5	276.1	37,800	64.6	279.0	35,300	90
95	52.1	266.6	29,900 *	58.0	273.1	35,200	62.1	276.5	32,900	95
100	49.3	262.5	28,500 *	55.3	269.8	32,900	59.6	273.7	30,700	100
105	46.3	257.9	27,000 *	52.6	266.2	30,900	57.0	270.6	28,800	105
110	43.1	252.9	25,700 *	49.8	262.2	29,000	54.3	267.2	27,000	110
115	39.8	247.2	24,400 *	46.8	257.7	27,300	51.6	263.4	25,500	115
120	36.2	240.8	23,200 *	43.7	252.8	25,800	48.7	259.2	24,000	120
125	32.3	233.5	22,100 *	40.5	247.2	24,400	45.7	254.6	22,700	125
130	27.9	224.9	21,000 *	36.9	241.0	23,100	42.5	249.4	21,500	130
135	22.8	214.3	20,000 *	33.1	233.8	21,900	39.2	243.7	20,400	135
140	16.2	200.2	19,200 *	28.8	225.5	20,800	35.5	237.1	19,300	140
145	2.7	170.1	18,600 *	23.8	215.4	19,800	31.6	229.6	18,400	145
150				17.6	202.2	18,800	27.0	220.7	17,500	150
155				7.4	179.6	17,900	21.7	209.6	16,600	155
160							14.6	194.4	15,800	160
165										165
170										170
175										175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



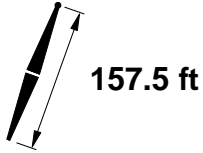
	75°			70°			
	ft	ft	lb	ft	ft	lb	
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	61.3	272.4	23,800				110
115	58.8	269.5	22,400				115
120	56.2	266.3	21,100				120
125	53.5	262.8	19,900				125
130	50.7	258.9	18,800	57.8	264.0	16,200	130
135	47.7	254.6	17,800	55.1	260.7	15,300	135
140	44.7	249.8	16,900	52.4	257.0	14,400	140
145	41.5	244.5	16,000	49.5	253.0	13,700	145
150	38.0	238.5	15,200	46.6	248.5	12,900	150
155	34.3	231.6	14,400	43.5	243.5	12,300	155
160	30.2	223.7	13,700	40.1	237.9	11,600	160
165	25.4	214.2	13,100	36.6	231.6	11,000	165
170	19.7	202.1	12,400	32.7	224.3	10,500	170
175	11.5	184.2	11,800	28.4	215.9	10,000	175
180				23.3	205.6	9,400	180
185				16.9	191.9	9,000	185
190				5.7	166.9	8,400	190

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

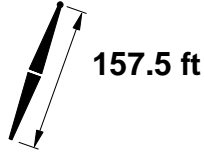
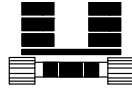
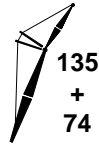


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.5	298.2	37,900 *c							55
60	71.3	296.6	36,900 *b							60
65	69.1	294.8	35,900 *b							65
70	66.9	292.8	34,700 *b							70
75	64.7	290.6	33,500 *	69.5	294.1	38,100 *				75
80	62.4	288.1	32,300 *	67.3	292.1	37,800 *				80
85	60.1	285.3	31,000 *	65.1	289.9	37,200 *				85
90	57.7	282.3	29,700 *	62.8	287.4	36,400 *	66.5	290.0	34,900	90
95	55.2	279.0	28,500 *	60.5	284.7	34,900	64.3	287.7	32,500	95
100	52.7	275.3	27,200 *	58.1	281.8	32,600	62.0	285.1	30,400	100
105	50.1	271.4	26,000 *	55.7	278.5	30,500	59.6	282.3	28,400	105
110	47.3	267.0	24,700 *	53.2	274.9	28,700	57.2	279.3	26,700	110
115	44.5	262.1	23,600 *	50.6	271.0	27,000	54.8	275.9	25,100	115
120	41.5	256.8	22,500 *	47.9	266.7	25,500	52.2	272.2	23,700	120
125	38.3	250.8	21,400 *	45.0	262.0	24,100	49.6	268.1	22,400	125
130	34.9	244.0	20,400 *	42.1	256.7	22,800	46.8	263.7	21,200	130
135	31.1	236.3	19,500 *	38.9	250.8	21,600	44.0	258.7	20,000	135
140	26.9	227.3	18,600 *	35.5	244.3	20,500	40.9	253.3	19,000	140
145	21.9	216.3	17,800 *	31.9	236.8	19,500	37.7	247.1	18,100	145
150	15.6	201.6	17,100 *	27.7	228.0	18,600	34.2	240.3	17,200	150
155	2.6	170.4	16,600 *	22.9	217.5	17,700	30.4	232.3	16,300	155
160				16.9	203.7	16,800	26.0	223.0	15,500	160
165				7.1	180.2	16,000	20.9	211.5	14,800	165
170							14.1	195.7	14,100	170
175										175
180										180
185										185
190										190
195										195
200										200



# MLC165 S-2

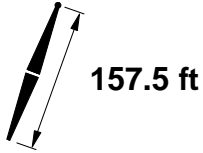
ASME B30.5



	75°			70°			
	ft	ft	lb	ft	ft	lb	
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115	61.2	281.1	22,000				115
120	58.9	278.2	20,700				120
125	56.4	275.0	19,500				125
130	53.9	271.6	18,400				130
135	51.4	267.7	17,400	57.9	272.7	14,800	135
140	48.7	263.5	16,500	55.5	269.4	14,000	140
145	45.9	258.9	15,600	52.9	265.8	13,200	145
150	43.0	253.8	14,800	50.3	261.8	12,500	150
155	39.9	248.2	14,100	47.6	257.5	11,900	155
160	36.6	241.8	13,400	44.8	252.7	11,300	160
165	33.0	234.6	12,700	41.8	247.4	10,700	165
170	29.0	226.3	12,100	38.6	241.5	10,100	170
175	24.5	216.4	11,500	35.2	234.8	9,600	175
180	19.0	203.8	10,900	31.5	227.2	9,100	180
185	11.0	185.2	10,400	27.3	218.3	8,600	185
190				22.5	207.6	8,200	190
195				16.3	193.4	7,700	195
200				5.4	167.4	7,300	200

# MLC165 S-2

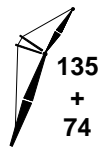
ASME B30.5



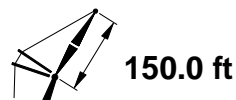
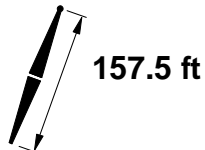
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.6	308.6	34,600 *c							55
60	72.6	307.1	33,800 *b							60
65	70.6	305.5	33,000 *b							65
70	68.5	303.6	32,100 *b							70
75	66.5	301.5	31,100 *	71.0	304.7	34,900 *				75
80	64.4	299.2	30,100 *	68.9	302.9	34,600 *				80
85	62.2	296.7	29,100 *	66.9	300.8	34,100 *				85
90	60.1	294.0	28,000 *	64.8	298.6	33,500 *				90
95	57.8	291.0	26,900 *	62.6	296.1	32,800 *	66.1	298.7	32,400	95
100	55.5	287.7	25,900 *	60.5	293.4	32,000 *	64.0	296.4	30,200	100
105	53.2	284.1	24,800 *	58.3	290.4	30,400	61.8	293.8	28,300	105
110	50.8	280.2	23,800 *	56.0	287.2	28,600	59.7	291.0	26,600	110
115	48.3	275.9	22,700 *	53.6	283.7	26,900	57.4	287.9	25,000	115
120	45.7	271.3	21,800 *	51.2	279.8	25,400	55.1	284.6	23,600	120
125	42.9	266.1	20,800 *	48.7	275.6	24,000	52.8	281.0	22,300	125
130	40.0	260.5	19,800 *	46.1	271.1	22,700	50.3	277.0	21,100	130
135	37.0	254.2	19,000 *	43.4	266.0	21,600	47.8	272.6	20,000	135
140	33.7	247.1	18,100 *	40.6	260.5	20,500	45.2	267.9	18,900	140
145	30.0	239.1	17,300 *	37.6	254.3	19,500	42.4	262.7	18,000	145
150	26.0	229.7	16,600 *	34.3	247.4	18,500	39.5	256.9	17,100	150
155	21.2	218.2	16,000 *	30.7	239.6	17,600	36.4	250.5	16,300	155
160	15.0	202.9	15,400 *	26.8	230.5	16,800	33.0	243.3	15,500	160
165	2.5	170.6	14,900 *	22.2	219.5	16,000	29.3	235.0	14,800	165
170				16.4	205.2	15,300	25.1	225.3	14,100	170
175				6.9	180.9	14,500	20.2	213.3	13,400	175
180							13.6	196.9	12,800	180
185										185
190										190
195										195

# MLC165 S-2

ASME B30.5



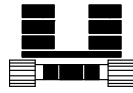
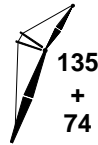
121,500 lb  
+  
35,300 lb



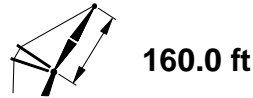
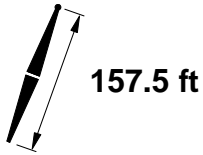
	75°		
	ft	ft	lb
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	61.1	289.7	20,600
125	58.9	286.9	19,400
130	56.7	283.7	18,300
135	54.4	280.3	17,300
140	52.0	276.5	16,400
145	49.5	272.4	15,500
150	46.9	268.0	14,700
155	44.3	263.1	14,000
160	41.5	257.7	13,300
165	38.5	251.7	12,600
170	35.3	245.1	12,000
175	31.9	237.5	11,500
180	28.0	228.9	10,900
185	23.6	218.5	10,400
190	18.3	205.5	9,900
195	10.7	186.1	9,400

# MLC165 S-2

ASME B30.5



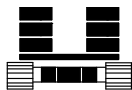
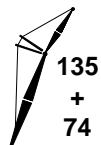
121,500 lb  
+  
35,300 lb



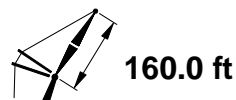
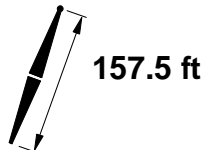
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	73.7	317.6	30,900 *b						60	
65	71.8	316.0	30,200 *b						65	
70	69.9	314.3	29,500 *b						70	
75	68.0	312.4	28,700 *						75	
80	66.1	310.3	27,900 *	70.3	313.5	31,100 *			80	
85	64.1	307.9	27,000 *	68.4	311.6	30,900 *			85	
90	62.1	305.4	26,200 *	66.5	309.6	30,500 *			90	
95	60.1	302.6	25,300 *	64.5	307.3	30,000 *	67.7	309.6	29,300 *	95
100	58.0	299.6	24,400 *	62.5	304.8	29,500 *	65.7	307.4	29,300 *	100
105	55.8	296.4	23,500 *	60.4	302.1	28,800 *	63.7	305.0	28,000 *	105
110	53.6	292.8	22,600 *	58.4	299.1	27,900 *	61.7	302.5	26,200 *	110
115	51.4	289.0	21,700 *	56.2	295.9	26,600 *	59.7	299.7	24,700 *	115
120	49.1	284.8	20,800 *	54.1	292.4	25,100 *	57.6	296.6	23,200 *	120
125	46.6	280.3	20,000 *	51.8	288.6	23,700 *	55.4	293.3	21,900 *	125
130	44.1	275.4	19,200 *	49.5	284.5	22,400 *	53.2	289.7	20,700 *	130
135	41.5	270.0	18,300 *	47.1	280.1	21,300 *	51.0	285.8	19,600 *	135
140	38.7	264.1	17,600 *	44.6	275.2	20,200 *	48.6	281.6	18,600 *	140
145	35.7	257.5	16,900 *	42.0	269.9	19,200 *	46.2	277.0	17,700 *	145
150	32.6	250.1	16,200 *	39.2	264.1	18,200 *	43.6	272.0	16,800 *	150
155	29.1	241.7	15,500 *	36.3	257.6	17,300 *	41.0	266.5	15,900 *	155
160	25.1	231.9	14,900 *	33.2	250.4	16,500 *	38.2	260.4	15,200 *	160
165	20.5	220.1	14,300 *	29.7	242.3	15,800 *	35.2	253.7	14,500 *	165
170	14.6	204.2	13,900 *	25.9	232.8	15,000 *	31.9	246.2	13,800 *	170
175	2.4	170.8	13,500 *	21.4	221.4	14,300 *	28.4	237.6	13,100 *	175
180				15.8	206.6	13,700 *	24.3	227.5	12,500 *	180
185				6.7	181.5	13,000 *	19.5	215.1	11,900 *	185
190							13.2	198.0	11,400 *	190
195										195
200										200
205										205

# MLC165 S-2

ASME B30.5



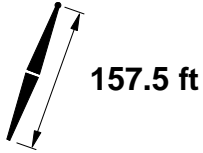
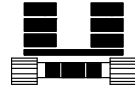
121,500 lb  
+  
35,300 lb



ft	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125	61.1	298.4	19,000
130	59.0	295.5	17,900
135	56.9	292.4	16,900
140	54.7	289.0	16,000
145	52.5	285.3	15,200
150	50.2	281.3	14,400
155	47.8	277.0	13,600
160	45.4	272.2	12,900
165	42.8	267.1	12,300
170	40.1	261.4	11,700
175	37.2	255.2	11,100
180	34.1	248.2	10,600
185	30.8	240.3	10,100
190	27.1	231.3	9,600
195	22.9	220.6	9,100
200	17.7	207.1	8,600
205	10.3	187.0	8,200

# MLC165 S-2

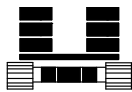
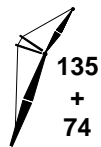
ASME B30.5



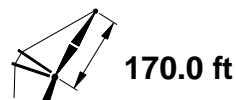
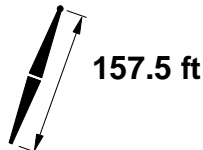
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
60	74.7	328.0	28,100 *b						60	
65	72.9	326.5	27,600 *b						65	
70	71.2	324.9	27,000 *b						70	
75	69.4	323.1	26,400 *						75	
80	67.6	321.1	25,800 *						80	
85	65.7	319.0	25,100 *	69.7	322.3	27,500 *			85	
90	63.9	316.6	24,300 *	67.9	320.4	27,300 *			90	
95	62.0	314.1	23,600 *	66.1	318.3	27,100 *			95	
100	60.1	311.3	22,900 *	64.2	316.0	26,900 *	67.2	318.3	25,800 *	100
105	58.1	308.3	22,100 *	62.3	313.5	26,300 *	65.4	316.1	25,700 *	105
110	56.1	305.1	21,300 *	60.4	310.7	25,400 *	63.5	313.7	25,700 *	110
115	54.0	301.6	20,600 *	58.5	307.8	24,400 *	61.6	311.1	24,400 *	115
120	51.9	297.8	19,800 *	56.5	304.6	23,400 *	59.7	308.3	23,000 *	120
125	49.7	293.7	19,100 *	54.4	301.1	22,500 *	57.7	305.3	21,700 *	125
130	47.5	289.3	18,400 *	52.3	297.4	21,500 *	55.7	302.0	20,500 *	130
135	45.2	284.6	17,700 *	50.2	293.4	20,500 *	53.6	298.4	19,400 *	135
140	42.7	279.4	17,000 *	47.9	289.1	19,500 *	51.5	294.6	18,400 *	140
145	40.2	273.7	16,300 *	45.6	284.4	18,600 *	49.3	290.5	17,400 *	145
150	37.5	267.5	15,600 *	43.2	279.3	17,700 *	47.1	286.0	16,500 *	150
155	34.6	260.6	14,900 *	40.7	273.7	16,900 *	44.7	281.2	15,700 *	155
160	31.6	253.0	14,000 *	38.0	267.6	16,000 *	42.3	275.9	14,900 *	160
165	28.2	244.3	13,100 *	35.2	260.9	15,200 *	39.7	270.2	14,200 *	165
170	24.4	234.1	12,100 *	32.2	253.4	14,400 *	37.0	263.8	13,600 *	170
175	19.9	221.8	11,300 *	28.8	244.9	13,400 *	34.1	256.8	12,900 *	175
180	14.1	205.5	10,500 *	25.1	235.1	12,500 *	31.0	249.0	12,300 *	180
185	2.4	171.0	9,800 *	20.8	223.3	11,600 *	27.5	240.1	11,700 *	185
190				15.4	207.9	10,800 *	23.6	229.6	11,200 *	190
195				6.5	182.0	10,000 *	19.0	216.8	10,700 *	195
200							12.8	199.2	10,200 *	200
205										205
210										210
215										215

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125	62.9	309.7	18,700
130	61.0	307.1	17,600
135	59.1	304.2	16,700
140	57.1	301.1	15,700
145	55.0	297.7	14,900
150	53.0	294.1	14,100
155	50.8	290.1	13,400
160	48.6	285.9	12,700
165	46.3	281.3	12,000
170	43.9	276.3	11,400
175	41.5	270.9	10,900
180	38.8	265.0	10,300
185	36.1	258.5	9,800
190	33.1	251.2	9,300
195	29.9	243.1	8,900
200	26.3	233.7	8,400
205	22.2	222.6	8,000
210	17.2	208.6	7,600
215	10.0	187.9	7,200

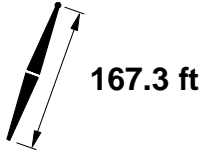
REFERENCE ONLY!

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

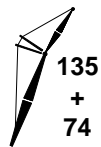


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
34	74.8	241.4	74,200 *d						34	
36	73.1	240.8	74,100 *d						36	
38	71.4	240.2	73,900 *d						38	
40	69.7	239.5	72,900 *d						40	
45	65.2	237.4	69,100 *c						45	
50	60.6	234.8	65,000 *c						50	
55	55.8	231.7	61,000 *b	66.7	236.9	66,400 *c			55	
60	50.7	228.0	57,100 *b	62.1	234.5	62,500 *b			60	
65	45.2	223.5	53,300 *b	57.4	231.6	58,500 b	65.5	234.9	55,000 c	65
70	39.1	217.9	49,800 *b	52.4	228.1	53,300 b	60.9	232.4	50,000 b	70
75	32.0	211.0	46,500 *	47.0	223.9	48,800	56.1	229.3	45,800 b	75
80	23.2	201.4	43,600 *	41.1	218.7	45,000	51.0	225.6	42,200 b	80
85	7.9	183.4	40,800 *	34.5	212.3	41,600	45.5	221.2	39,100	85
90				26.4	203.7	38,700	39.4	215.7	36,300	90
95				14.7	190.4	36,000	32.4	208.8	33,900	95
100							23.7	199.4	31,600	100
105							9.3	182.6	29,500	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145

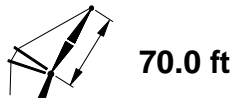
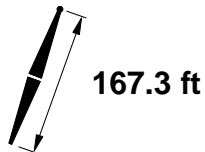


# MLC165 S-2

ASME B30.5



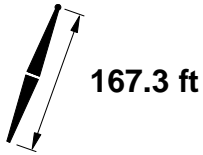
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	60.1	228.6	34,800 <b>b</b>							85
90	55.3	225.4	32,300 <b>b</b>							90
95	50.1	221.6	30,100 <b>b</b>							95
100	44.6	217.0	28,200							100
105	38.4	211.4	26,400	54.1	220.0	23,100 <b>b</b>				105
110	31.2	204.2	24,800	48.9	216.1	21,700 <b>b</b>				110
115	22.1	194.2	23,300	43.2	211.3	20,400				115
120	3.6	172.2	21,800	36.9	205.3	19,200	52.5	213.1	16,500	120
125				29.4	197.6	18,100	47.2	208.9	15,500	125
130				19.5	186.6	17,100	41.3	203.7	14,600	130
135							34.6	197.3	13,800	135
140							26.6	188.9	13,000	140
145							15.1	175.8	12,300	145

# MLC165 S-2

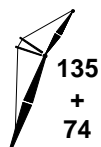
ASME B30.5



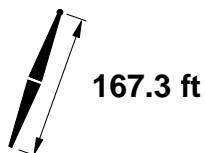
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	73.8	250.6	68,100 *d							38
40	72.3	250.0	67,100 *d							40
45	68.5	248.2	64,100 *c							45
50	64.6	246.1	60,800 *c							50
55	60.5	243.5	57,400 *b	69.7	247.7	63,800 *c				55
60	56.3	240.4	54,000 *b	65.9	245.7	60,300 *c				60
65	51.9	236.8	50,600 *b	61.9	243.2	56,900 *b				65
70	47.2	232.5	47,400 *b	57.7	240.3	53,000 b	64.8	243.6	49,600 b	70
75	42.1	227.5	44,400 *	53.4	236.9	48,500	60.8	241.0	45,500 b	75
80	36.5	221.4	41,600 *	48.8	232.8	44,700	56.6	238.0	41,900 b	80
85	29.9	213.7	39,000 *	43.8	228.0	41,400	52.2	234.4	38,700	85
90	21.7	203.4	36,700 *	38.4	222.3	38,500	47.5	230.2	36,000	90
95	7.4	184.1	35,000 *	32.2	215.2	35,900	42.4	225.2	33,600	95
100				24.6	206.0	33,500	36.8	219.1	31,400	100
105				13.7	191.6	31,400	30.3	211.6	29,400	105
110							22.2	201.5	27,600	110
115							8.7	183.4	25,900	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155

# MLC165 S-2

ASME B30.5



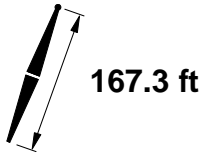
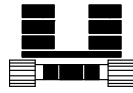
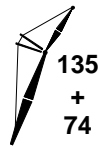
121,500 lb  
+  
35,300 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.1	237.2	31,900 <b>b</b>							90
95	55.9	234.1	29,700 <b>b</b>							95
100	51.4	230.4	27,800							100
105	46.7	226.1	26,000							105
110	41.6	221.0	24,400	54.9	228.8	21,200 <b>b</b>				110
115	35.8	214.7	23,000	50.4	224.9	20,000				115
120	29.2	206.9	21,700	45.6	220.4	18,800				120
125	20.6	196.1	20,400	40.3	215.1	17,700				125
130	3.3	172.5	19,200	34.4	208.5	16,700	48.9	217.8	14,200	130
135				27.4	200.2	15,800	44.0	213.1	13,400	135
140				18.2	188.3	14,900	38.5	207.4	12,600	140
145							32.3	200.3	11,900	145
150							24.9	191.2	11,300	150
155							14.1	177.0	10,600	155

# MLC165 S-2

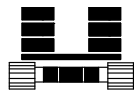
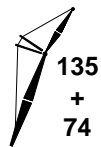
ASME B30.5



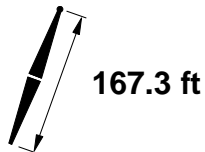
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	74.3	260.5	61,700 *d							40
45	71.0	258.9	59,300 *c							45
50	67.6	257.0	56,700 *c							50
55	64.1	254.8	53,900 *b							55
60	60.5	252.1	51,000 *b	68.7	256.5	58,200 *c				60
65	56.8	249.1	48,100 *b	65.2	254.4	55,200 *b				65
70	52.9	245.6	45,300 *b	61.7	251.9	52,300 *b	67.8	254.5	49,400 b	70
75	48.8	241.5	42,600 *	58.0	249.0	48,300	64.3	252.3	45,200 b	75
80	44.4	236.8	40,000 *	54.1	245.6	44,500	60.7	249.7	41,600 b	80
85	39.6	231.2	37,500 *	50.1	241.7	41,200	57.0	246.7	38,500	85
90	34.3	224.6	35,300 *	45.8	237.2	38,300	53.1	243.2	35,800	90
95	28.2	216.3	33,200 *	41.2	231.9	35,700	49.0	239.1	33,400	95
100	20.4	205.2	31,400 *	36.1	225.7	33,400	44.6	234.4	31,200	100
105	6.9	184.7	29,500 *	30.3	218.0	31,400	39.9	228.9	29,300	105
110				23.2	208.1	29,500	34.6	222.4	27,500	110
115				12.9	192.8	27,700	28.5	214.2	25,900	115
120							20.9	203.4	24,400	120
125							8.2	184.1	23,000	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165

# MLC165 S-2

ASME B30.5



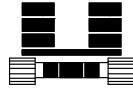
121,500 lb  
+  
35,300 lb



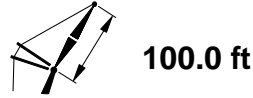
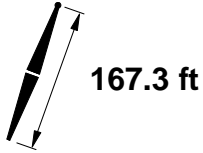
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.1	245.9	29,500 <b>b</b>							95
100	56.4	242.8	27,500							100
105	52.4	239.2	25,800							105
110	48.3	235.1	24,200							110
115	43.9	230.3	22,800	55.5	237.5	19,700				115
120	39.1	224.6	21,500	51.5	233.8	18,600				120
125	33.7	217.8	20,300	47.3	229.5	17,500				125
130	27.5	209.4	19,200	42.8	224.5	16,500				130
135	19.4	197.9	18,100	37.9	218.6	15,600	50.2	226.7	13,100	135
140	3.2	172.8	17,100	32.4	211.5	14,800	45.9	222.2	12,400	140
145				25.8	202.5	14,000	41.3	217.0	11,700	145
150				17.1	189.8	13,200	36.2	210.7	11,100	150
155							30.4	203.1	10,500	155
160							23.4	193.3	9,900	160
165							13.3	178.2	9,300	165

# MLC165 S-2

ASME B30.5



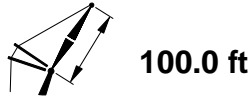
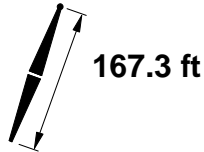
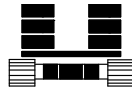
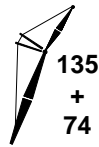
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	72.9	269.4	54,600 *c							45
50	69.9	267.7	52,500 *c							50
55	66.8	265.8	50,200 *b							55
60	63.7	263.5	47,900 *b	70.9	267.1	55,600 *c				60
65	60.4	260.8	45,400 *b	67.8	265.3	53,000 *b				65
70	57.1	257.8	43,000 *b	64.7	263.1	50,400 *b				70
75	53.6	254.3	40,600 *	61.5	260.5	47,900 *	67.0	263.3	44,800 b	75
80	50.0	250.4	38,300 *	58.2	257.6	44,200	63.8	261.0	41,200 b	80
85	46.1	245.9	36,100 *	54.7	254.3	40,900	60.6	258.4	38,100	85
90	42.0	240.7	34,000 *	51.2	250.5	38,000	57.3	255.4	35,400	90
95	37.5	234.7	32,000 *	47.4	246.2	35,400	53.8	251.9	33,000	95
100	32.5	227.6	30,100 *	43.3	241.3	33,100	50.2	248.0	30,900	100
105	26.7	218.7	28,500 *	39.0	235.6	31,100	46.3	243.5	28,900	105
110	19.4	207.0	27,000 *	34.2	228.8	29,200	42.2	238.4	27,200	110
115	6.6	185.3	25,900 *	28.7	220.7	27,500	37.7	232.5	25,600	115
120				22.0	210.1	26,000	32.8	225.4	24,200	120
125				12.3	193.9	24,500	27.0	216.7	22,800	125
130							19.8	205.2	21,600	130
135							7.8	184.8	20,400	135
140										140
145										145
150										150
155										155
160										160

# MLC165 S-2

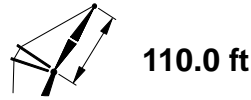
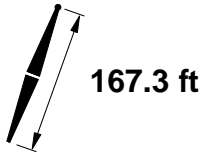
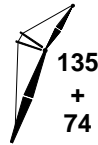
ASME B30.5



	75°			70°			
	ft	ft	lb	ft	ft	lb	
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100	60.1	254.6	27,100				100
105	56.7	251.5	25,400				105
110	53.2	248.0	23,800				110
115	49.6	244.0	22,400				115
120	45.7	239.4	21,100	55.9	246.2	18,100	120
125	41.5	234.2	19,900	52.4	242.5	17,100	125
130	37.0	228.1	18,900	48.7	238.4	16,100	130
135	31.9	220.8	17,800	44.8	233.7	15,200	135
140	26.0	211.8	16,900	40.5	228.3	14,400	140
145	18.4	199.5	16,000	35.9	222.0	13,600	145
150	3.0	173.1	15,100	30.7	214.3	12,900	150
155				24.5	204.8	12,200	155
160				16.3	191.3	11,600	160

# MLC165 S-2

ASME B30.5

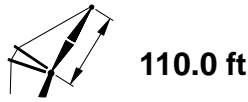
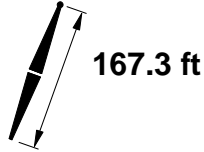
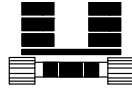
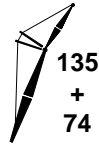


	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
45	74.5	279.8	47,300 *c						45	
50	71.8	278.3	46,500 *c						50	
55	69.0	276.5	45,700 *c						55	
60	66.2	274.5	43,900 *b						60	
65	63.3	272.1	42,000 *b	69.9	276.0	46,200 *b			65	
70	60.4	269.5	40,000 *b	67.1	274.0	45,700 *b			70	
75	57.4	266.4	38,100 *	64.3	271.8	45,200 *			75	
80	54.2	263.0	36,100 *	61.4	269.2	43,200 *	66.4	272.0	41,200 b	80
85	50.9	259.2	34,300 *	58.4	266.3	40,800	63.5	269.7	38,100	85
90	47.5	254.9	32,400 *	55.2	263.0	37,900	60.6	267.0	35,400	90
95	43.8	250.0	30,600 *	52.0	259.3	35,400	57.5	264.0	33,000	95
100	39.9	244.4	29,000 *	48.6	255.2	33,100	54.4	260.7	30,800	100
105	35.7	238.0	27,400 *	45.0	250.5	31,100	51.1	256.8	28,900	105
110	30.9	230.4	26,000 *	41.2	245.2	29,200	47.7	252.6	27,200	110
115	25.4	221.1	24,700 *	37.1	239.0	27,500	44.0	247.7	25,600	115
120	18.5	208.7	23,600 *	32.6	231.8	26,000	40.2	242.2	24,200	120
125	6.3	185.9	22,700 *	27.3	223.2	24,600	35.9	235.8	22,800	125
130				21.0	212.0	23,300	31.2	228.2	21,600	130
135				11.7	194.9	22,100	25.8	219.0	20,500	135
140							18.9	206.9	19,400	140
145							7.4	185.5	18,400	145
150										150
155										155
160										160
165										165
170										170



# MLC165 S-2

ASME B30.5



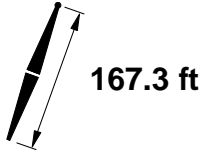
	75°			70°			
	ft	ft	lb	ft	ft	lb	
45							45
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105	60.1	263.2	25,300				105
110	57.0	260.2	23,800				110
115	53.9	256.7	22,400				115
120	50.6	252.9	21,100				120
125	47.1	248.5	19,900	56.3	254.8	17,000	125
130	43.4	243.5	18,800	53.1	251.3	16,100	130
135	39.5	237.9	17,800	49.8	247.3	15,200	135
140	35.2	231.3	16,900	46.3	242.8	14,400	140
145	30.4	223.6	16,000	42.6	237.7	13,600	145
150	24.8	214.0	15,200	38.6	231.9	12,900	150
155	17.6	201.1	14,500	34.2	225.1	12,200	155
160	2.8	173.4	13,700	29.2	217.0	11,600	160
165				23.3	206.9	11,000	165
170				15.5	192.7	10,400	170

# MLC165 S-2

ASME B30.5



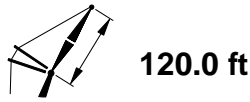
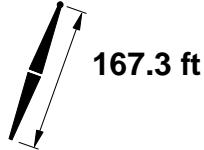
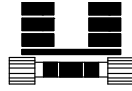
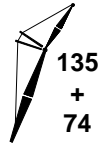
121,500 lb  
+  
35,300 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	73.4	288.8	43,500 *c							50
55	70.9	287.2	42,100 *c							55
60	68.3	285.3	40,700 *b							60
65	65.7	283.2	39,100 *b							65
70	63.1	280.8	37,600 *b	69.1	284.8	42,800 *b				70
75	60.4	278.1	35,900 *	66.6	282.8	42,400 *				75
80	57.6	275.1	34,300 *	63.9	280.4	41,600 *				80
85	54.7	271.8	32,600 *	61.2	277.9	39,800 *	65.9	280.7	37,700	85
90	51.7	268.0	31,000 *	58.5	275.0	37,600	63.2	278.4	35,000	90
95	48.6	263.9	29,500 *	55.6	271.7	35,100	60.5	275.7	32,600	95
100	45.3	259.2	28,000 *	52.7	268.1	32,800	57.7	272.7	30,500	100
105	41.9	253.9	26,500 *	49.6	264.1	30,800	54.9	269.4	28,500	105
110	38.2	248.0	25,200 *	46.4	259.6	28,900	51.9	265.6	26,800	110
115	34.1	241.1	23,900 *	43.0	254.5	27,300	48.8	261.5	25,300	115
120	29.6	233.1	22,700 *	39.4	248.8	25,700	45.5	256.9	23,800	120
125	24.3	223.3	21,700 *	35.5	242.3	24,300	42.1	251.6	22,500	125
130	17.7	210.2	20,700 *	31.1	234.7	23,100	38.4	245.7	21,300	130
135	6.0	186.4	20,000 *	26.1	225.5	21,900	34.4	238.9	20,200	135
140				20.1	213.8	20,700	29.9	231.0	19,200	140
145				11.2	195.9	19,700	24.6	221.3	18,200	145
150							18.1	208.5	17,300	150
155							7.1	186.1	16,400	155
160										160
165										165
170										170
175										175
180										180

# MLC165 S-2

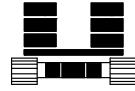
ASME B30.5



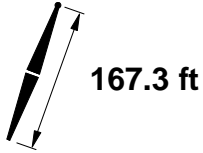
	75°			70°			
	ft	ft	lb	ft	ft	lb	
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105	62.8	274.6	24,900				105
110	60.1	271.9	23,400				110
115	57.3	268.8	22,000				115
120	54.4	265.5	20,700				120
125	51.4	261.7	19,500				125
130	48.3	257.5	18,500	56.6	263.5	15,600	130
135	45.0	252.7	17,500	53.7	260.1	14,800	135
140	41.5	247.4	16,600	50.7	256.2	14,000	140
145	37.8	241.4	15,700	47.5	251.8	13,200	145
150	33.7	234.4	14,900	44.2	247.0	12,500	150
155	29.1	226.2	14,200	40.7	241.5	11,900	155
160	23.7	216.2	13,500	36.9	235.3	11,300	160
165	16.8	202.6	12,800	32.7	228.1	10,700	165
170	2.7	173.6	12,100	28.0	219.6	10,100	170
175				22.3	208.9	9,600	175
180				14.8	194.0	9,100	180

# MLC165 S-2

ASME B30.5



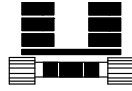
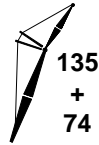
121,500 lb  
+  
35,300 lb



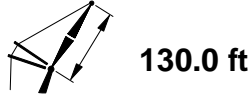
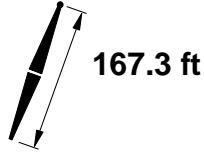
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
50	74.7	299.2	39,900 *c							50
55	72.4	297.7	38,900 *c							55
60	70.1	296.0	37,700 *b							60
65	67.7	294.1	36,500 *b							65
70	65.3	291.9	35,200 *b	70.8	295.4	40,100 *b				70
75	62.8	289.5	33,800 *	68.5	293.6	39,500 *				75
80	60.3	286.8	32,400 *	66.1	291.5	38,800 *				80
85	57.8	283.8	31,000 *	63.6	289.1	37,900 *	67.8	291.6	37,400	85
90	55.1	280.5	29,600 *	61.2	286.5	36,800 *	65.4	289.5	34,700	90
95	52.4	276.8	28,200 *	58.6	283.6	34,800	63.0	287.0	32,300	95
100	49.6	272.8	26,900 *	56.0	280.4	32,600	60.5	284.4	30,200	100
105	46.6	268.3	25,600 *	53.3	276.9	30,500	57.9	281.4	28,300	105
110	43.5	263.3	24,300 *	50.5	272.9	28,700	55.3	278.1	26,600	110
115	40.2	257.7	23,100 *	47.6	268.6	27,000	52.5	274.4	25,000	115
120	36.6	251.4	22,000 *	44.5	263.8	25,500	49.7	270.4	23,600	120
125	32.7	244.1	21,000 *	41.3	258.4	24,100	46.8	265.9	22,300	125
130	28.4	235.7	20,000 *	37.8	252.3	22,900	43.6	261.0	21,100	130
135	23.4	225.4	19,100 *	34.0	245.4	21,700	40.4	255.4	20,000	135
140	17.0	211.8	18,300 *	29.9	237.4	20,600	36.8	249.1	19,000	140
145	5.8	186.9	17,500 *	25.1	227.8	19,600	33.0	242.0	18,000	145
150				19.3	215.5	18,600	28.7	233.6	17,100	150
155				10.7	196.9	17,700	23.7	223.4	16,300	155
160							17.4	210.0	15,500	160
165							6.8	186.7	14,700	165
170										170
175										175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



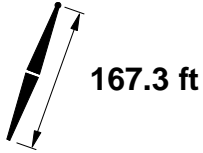
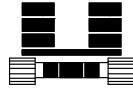
121,500 lb  
+  
35,300 lb



	75°			70°			
	ft	ft	lb	ft	ft	lb	
50							50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110	62.6	283.3	23,100				110
115	60.1	280.5	21,700				115
120	57.5	277.5	20,400				120
125	54.8	274.2	19,300				125
130	52.1	270.5	18,200				130
135	49.2	266.4	17,200	56.9	272.2	14,500	135
140	46.3	261.8	16,300	54.2	268.8	13,700	140
145	43.1	256.8	15,500	51.5	265.0	12,900	145
150	39.8	251.1	14,700	48.6	260.8	12,300	150
155	36.2	244.7	13,900	45.6	256.1	11,600	155
160	32.3	237.4	13,300	42.4	251.0	11,000	160
165	27.9	228.8	12,600	39.0	245.2	10,400	165
170	22.8	218.2	12,000	35.4	238.6	9,900	170
175	16.2	204.1	11,400	31.4	231.0	9,400	175
180	2.6	173.8	10,800	26.8	222.0	8,900	180
185				21.4	210.8	8,400	185
190				14.2	195.3	8,000	190

# MLC165 S-2

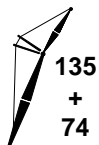
ASME B30.5



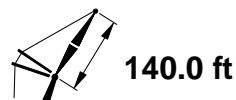
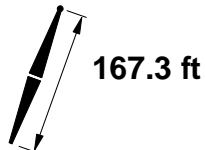
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	73.7	308.2	35,600 *c							55
60	71.5	306.6	34,700 *b							60
65	69.4	304.8	33,700 *b							65
70	67.2	302.8	32,700 *b							70
75	64.9	300.6	31,500 *	70.1	304.3	36,000 *				75
80	62.6	298.2	30,400 *	67.9	302.3	35,500 *				80
85	60.3	295.4	29,200 *	65.7	300.2	34,900 *				85
90	57.9	292.5	28,000 *	63.4	297.8	34,100 *	67.3	300.4	34,300	90
95	55.5	289.2	26,800 *	61.1	295.2	33,300 *	65.0	298.2	32,000	95
100	53.0	285.6	25,700 *	58.7	292.3	32,200	62.8	295.7	29,800	100
105	50.3	281.6	24,500 *	56.3	289.1	30,200	60.4	293.0	27,900	105
110	47.6	277.3	23,400 *	53.8	285.6	28,400	58.1	290.0	26,200	110
115	44.8	272.5	22,300 *	51.2	281.8	26,700	55.6	286.8	24,700	115
120	41.8	267.2	21,300 *	48.5	277.5	25,200	53.1	283.2	23,300	120
125	38.6	261.3	20,300 *	45.7	272.9	23,800	50.5	279.2	22,000	125
130	35.2	254.6	19,400 *	42.8	267.8	22,600	47.8	274.9	20,800	130
135	31.5	247.0	18,500 *	39.7	262.1	21,400	45.0	270.2	19,700	135
140	27.4	238.2	17,700 *	36.4	255.7	20,300	42.0	264.9	18,700	140
145	22.5	227.4	17,000 *	32.8	248.4	19,300	38.8	259.0	17,700	145
150	16.3	213.2	16,300 *	28.8	240.0	18,400	35.4	252.4	16,800	150
155	5.6	187.4	15,600 *	24.2	230.0	17,500	31.7	244.9	16,000	155
160				18.6	217.2	16,600	27.6	236.1	15,200	160
165				10.4	197.8	15,800	22.8	225.5	14,500	165
170							16.7	211.5	13,800	170
175							6.6	187.3	13,100	175
180										180
185										185
190										190

# MLC165 S-2

ASME B30.5



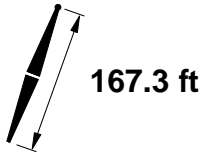
121,500 lb  
+  
35,300 lb



	75°		
ft	ft	ft	lb
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115	62.4	292.0	21,300
120	60.1	289.2	20,000
125	57.7	286.2	18,900
130	55.2	282.9	17,800
135	52.7	279.2	16,800
140	50.1	275.2	15,900
145	47.3	270.8	15,100
150	44.5	266.0	14,300
155	41.5	260.6	13,600
160	38.3	254.7	12,900
165	34.9	247.9	12,300
170	31.1	240.2	11,700
175	26.9	231.2	11,100
180	21.9	220.2	10,500
185	15.6	205.5	10,000
190	2.5	174.1	9,400

# MLC165 S-2

ASME B30.5

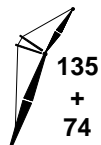


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	74.8	318.6	32,600 *c							55
60	72.8	317.1	31,900 *b							60
65	70.8	315.5	31,100 *b							65
70	68.8	313.6	30,300 *b							70
75	66.7	311.6	29,400 *							75
80	64.6	309.3	28,500 *	69.4	313.1	32,500 *				80
85	62.5	306.8	27,400 *	67.4	311.1	32,100 *				85
90	60.3	304.1	26,400 *	65.3	308.9	31,500 *				90
95	58.1	301.1	25,500 *	63.2	306.5	30,900 *	66.8	309.1	31,500 *	95
100	55.8	297.9	24,500 *	61.0	303.8	30,100 *	64.7	306.9	29,700	100
105	53.4	294.3	23,400 *	58.8	300.9	29,400 *	62.6	304.4	27,800	105
110	51.0	290.4	22,500 *	56.5	297.8	28,300	60.4	301.7	26,100	110
115	48.5	286.2	21,500 *	54.2	294.3	26,600	58.2	298.7	24,600	115
120	45.9	281.6	20,600 *	51.8	290.6	25,100	55.9	295.5	23,100	120
125	43.2	276.5	19,700 *	49.3	286.5	23,700	53.6	291.9	21,900	125
130	40.3	270.9	18,800 *	46.8	282.0	22,500	51.2	288.1	20,700	130
135	37.3	264.7	18,000 *	44.1	277.0	21,300	48.7	283.9	19,600	135
140	34.0	257.7	17,300 *	41.3	271.6	20,200	46.1	279.3	18,600	140
145	30.4	249.8	16,500 *	38.3	265.6	19,200	43.4	274.2	17,600	145
150	26.4	240.6	15,900 *	35.1	258.9	18,300	40.5	268.6	16,800	150
155	21.7	229.4	15,200 *	31.6	251.3	17,400	37.5	262.5	15,900	155
160	15.8	214.6	14,700 *	27.8	242.5	16,600	34.2	255.5	15,200	160
165	5.4	187.9	14,300 *	23.3	232.1	15,800	30.6	247.7	14,500	165
170				17.9	218.8	15,100	26.6	238.5	13,800	170
175				10.0	198.7	14,400	22.0	227.4	13,100	175
180							16.2	213.0	12,500	180
185							6.4	187.9	11,900	185
190										190
195										195
200										200

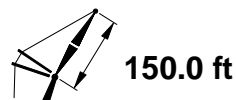
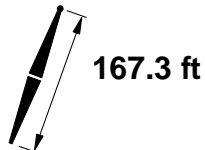


# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



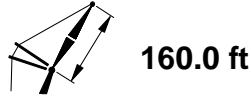
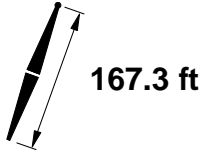
	75°		
	ft	ft	lb
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120	62.2	300.6	19,900
125	60.1	297.9	18,800
130	57.8	294.9	17,700
135	55.5	291.6	16,700
140	53.2	288.0	15,800
145	50.8	284.1	15,000
150	48.3	279.8	14,200
155	45.6	275.1	13,500
160	42.9	270.0	12,800
165	40.0	264.4	12,200
170	37.0	258.1	11,600
175	33.7	251.0	11,000
180	30.0	243.0	10,500
185	26.0	233.6	10,000
190	21.2	222.1	9,500
195	15.0	206.8	9,000
200	2.4	174.3	8,500

# MLC165 S-2

ASME B30.5



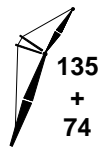
121,500 lb  
+  
35,300 lb



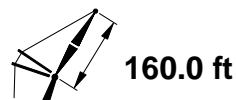
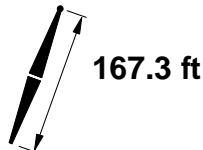
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	73.9	327.6	29,200 *b							60
65	72.0	326.0	28,600 *b							65
70	70.1	324.3	27,800 *b							70
75	68.2	322.4	27,200 *							75
80	66.3	320.3	26,400 *	70.8	323.7	29,500 *				80
85	64.3	318.0	25,600 *	68.9	321.9	29,200 *				85
90	62.3	315.5	24,700 *	66.9	319.8	28,800 *				90
95	60.3	312.8	23,900 *	65.0	317.6	28,400 *				95
100	58.2	309.8	23,100 *	63.0	315.2	27,800 *	66.4	317.8	27,900 *	100
105	56.1	306.6	22,200 *	60.9	312.5	27,200 *	64.4	315.6	27,500 *	105
110	53.9	303.1	21,400 *	58.9	309.6	26,500 *	62.4	313.1	25,800 *	110
115	51.6	299.2	20,500 *	56.8	306.5	25,900 *	60.4	310.3	24,200 *	115
120	49.3	295.1	19,700 *	54.6	303.0	24,800 *	58.3	307.4	22,800 *	120
125	46.9	290.6	18,900 *	52.4	299.3	23,400 *	56.2	304.2	21,500 *	125
130	44.4	285.7	18,200 *	50.1	295.3	22,200 *	54.0	300.7	20,300 *	130
135	41.8	280.4	17,400 *	47.7	291.0	21,000 *	51.7	296.9	19,200 *	135
140	39.0	274.5	16,700 *	45.2	286.2	19,900 *	49.4	292.8	18,200 *	140
145	36.1	268.0	16,000 *	42.6	281.0	18,900 *	47.0	288.3	17,300 *	145
150	32.9	260.7	15,400 *	39.9	275.3	18,000 *	44.5	283.4	16,400 *	150
155	29.4	252.5	14,700 *	37.0	269.0	17,100 *	41.9	278.1	15,600 *	155
160	25.6	242.9	14,200 *	34.0	262.0	16,300 *	39.2	272.3	14,900 *	160
165	21.0	231.2	13,700 *	30.6	254.1	15,600 *	36.2	265.8	14,200 *	165
170	15.3	216.0	13,200 *	26.9	245.0	14,800 *	33.1	258.6	13,500 *	170
175	5.2	188.3	12,900 *	22.6	234.1	14,100 *	29.6	250.4	12,800 *	175
180				17.4	220.4	13,500 *	25.8	240.8	12,200 *	180
185				9.7	199.6	12,900 *	21.3	229.4	11,700 *	185
190							15.6	214.4	11,100 *	190
195							6.2	188.4	10,600 *	195
200										200
205										205
210										210

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb

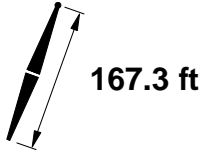
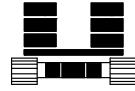


	75°		
	ft	ft	lb
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125	62.1	309.3	18,400
130	60.1	306.5	17,300
135	58.0	303.5	16,300
140	55.8	300.3	15,500
145	53.6	296.7	14,600
150	51.4	292.9	13,900
155	49.1	288.7	13,100
160	46.6	284.2	12,500
165	44.1	279.3	11,800
170	41.5	273.9	11,200
175	38.7	267.9	10,700
180	35.7	261.3	10,100
185	32.6	254.0	9,600
190	29.1	245.6	9,200
195	25.1	235.8	8,700
200	20.5	223.9	8,300
205	14.6	208.1	7,800
210	2.4	174.5	7,400

PREFERENCE ONLY!

# MLC165 S-2

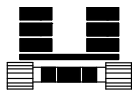
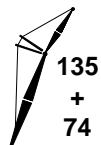
ASME B30.5



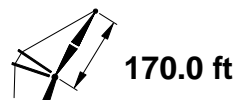
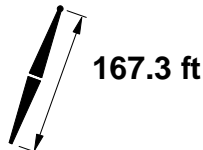
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	73.5	336.8	26,100 *b							65
70	71.7	335.2	25,600 *b							70
75	69.9	333.5	25,000 *							75
80	68.1	331.6	24,500 *							80
85	66.3	329.5	23,800 *	70.5	332.9	25,700 *				85
90	64.4	327.2	23,200 *	68.7	331.0	25,500 *				90
95	62.6	324.7	22,500 *	66.9	329.0	25,300 *				95
100	60.6	322.0	21,800 *	65.0	326.8	25,100 *				100
105	58.7	319.1	21,100 *	63.2	324.4	24,800 *	66.4	327.0	24,000 *	105
110	56.7	315.9	20,400 *	61.3	321.7	23,900 *	64.5	324.7	23,900 *	110
115	54.7	312.5	19,700 *	59.3	318.9	23,100 *	62.7	322.3	23,900 *	115
120	52.6	308.8	19,100 *	57.3	315.8	22,100 *	60.7	319.6	22,600	120
125	50.4	304.8	18,300 *	55.3	312.5	21,300 *	58.8	316.6	21,300	125
130	48.2	300.5	17,600 *	53.2	308.9	20,300 *	56.8	313.5	20,100	130
135	45.9	295.9	17,000 *	51.1	305.0	19,500 *	54.8	310.1	19,000	135
140	43.5	290.8	16,400 *	48.9	300.8	18,600 *	52.7	306.4	18,000	140
145	41.0	285.3	15,600 *	46.6	296.2	17,700 *	50.5	302.5	17,100	145
150	38.3	279.3	14,900 *	44.3	291.3	16,900 *	48.3	298.2	16,200	150
155	35.5	272.6	14,100 *	41.8	286.0	16,100 *	46.0	293.5	15,400	155
160	32.5	265.2	13,400 *	39.2	280.1	15,400 *	43.6	288.5	14,700	160
165	29.2	256.9	12,400 *	36.5	273.7	14,600 *	41.1	283.0	14,000	165
170	25.6	247.2	11,500 *	33.5	266.5	13,900 *	38.5	277.0	13,300	170
175	21.3	235.7	10,800 *	30.3	258.5	12,900 *	35.7	270.4	12,700	175
180	16.1	220.9	10,000 *	26.8	249.3	12,000 *	32.7	263.1	12,100	180
185	8.0	197.5	9,200 *	22.8	238.5	11,200 *	29.4	254.8	11,500	185
190				18.0	225.1	10,400 *	25.8	245.2	11,000	190
195				11.3	205.9	9,700 *	21.6	233.8	10,500	195
200							16.4	219.3	10,000	200
205							8.6	196.8	9,500	205
210										210
215										215
220										220

# MLC165 S-2

ASME B30.5



121,500 lb  
+  
35,300 lb



	75°		
ft	ft	ft	lb
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			
125			
130	62.4	318.5	17,100
135	60.4	315.8	16,100
140	58.5	312.8	15,200
145	56.5	309.6	14,400
150	54.4	306.2	13,600
155	52.3	302.5	12,900
160	50.2	298.5	12,200
165	47.9	294.1	11,600
170	45.6	289.4	11,000
175	43.2	284.3	10,500
180	40.7	278.8	9,900
185	38.1	272.7	9,400
190	35.2	266.0	9,000
195	32.2	258.5	8,500
200	28.9	250.0	8,100
205	25.2	240.2	7,700
210	20.9	228.4	7,300
215	15.4	213.2	6,900
220	6.6	187.5	6,500