

5.44 tonne MDM ECS  
**Pipe Insert Size – 0.08 meters**  
 Sch. 40 Wt. = 3.44 kg/0.31 m  
 Sch. 80 Wt. = 4.65 kg/3.12 m  
 A105B A53B

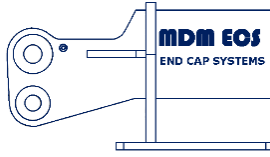
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight. Incl. shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
0.71	5.44	5.44	5.44	5.44	34.47	36.74	0.39
1.22	5.44	5.44	5.44	5.44	41.28	46.27	0.90
1.83	5.44	5.44	5.44	5.44	48.08	55.34	1.51
2.44	5.44	5.44	5.44	5.44	54.88	64.86	2.12
3.05	5.44	5.44	5.44	5.44	61.69	73.94	2.73
3.66	5.44	5.44	5.44	5.44	68.95	83.46	3.34
4.27	5.44	5.44	5.44	5.44	75.75	92.53	3.95
4.88	4.54	5.44	5.44	5.44	82.55	102.06	4.56

**Note** - Shaded Area indicates structural limit.

Offset – 0.16 m Span Adder per End Cap System = 0.32 m Insert Length = Span – 0.32 m * - Denotes Minimum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 3/4" - 4.75t Bottom Shackles 5/8" - 3.25t
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10.89 tonne MDM ECS  
 Pipe Insert Size – 0.10 m  
 Sch. 40 Wt. = 4.89 kg/3.29 m  
 Sch. 80 Wt. = 6.79 kg/4.56 m  
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight Inc. Shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
0.91	10.89	10.89	10.89	10.89	66.68	72.12	0.51
1.22	10.89	10.89	10.89	10.89	71.21	78.93	0.81
1.83	10.89	10.89	10.89	10.89	81.19	92.53	1.42
2.44	10.89	10.89	10.89	10.89	91.17	106.14	2.03
3.05	10.89	10.89	10.89	10.89	100.70	119.75	2.64
3.66	10.89	10.89	10.89	10.89	110.68	133.36	3.25
4.27	10.89	10.89	10.89	10.89	120.20	146.96	3.86
4.88	10.89	10.89	10.89	10.89	130.63	160.57	4.47
5.49	8.16	10.89	10.89	10.89	139.71	174.18	5.08
6.10	6.35	8.16	10.89	10.89	149.69	187.79	5.69

**Note** - Shaded Area indicates structural limit.

Offset – 0.20 m  
 Span Adder per End Cap System = 0.41 m  
 Insert Length = Span – 0.41 m  
 \* - Denotes Minimum Span

MEETS OR EXCEEDS  
 ASME BTH-1 & ASME B30.20  
 WELDS PER AWS D14.1

Top Shackles 1" - 8.5t  
 Bottom Shackles 7/8" - 6.5t



18.14 tonne MDMECS  
 Pipe Insert Size – 0.13 m  
 Sch. 40 Wt. = 6.63 kg/4.46 m  
 Sch. 80 Wt. = 9.43 kg/6.33 m  
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight Inc. Shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
1.12	18.14	18.14	18.14	18.14	117.03	122.92	0.61
1.22	18.14	18.14	18.14	18.14	130.63	141.52	0.70
1.83	18.114	18.14	18.14	18.14	143.79	160.57	1.31
2.44	18.14	18.14	18.14	18.14	156.94	179.62	1.92
3.05	18.14	18.14	18.14	18.14	170.55	198.22	2.53
3.66	18.14	18.14	18.14	18.14	183.70	217.27	3.14
4.27	18.14	18.14	18.14	18.14	196.86	236.32	3.75
4.88	18.14	18.14	18.14	18.14	210.47	254.92	4.36
5.49	18.14	18.14	18.14	18.14	223.62	273.97	4.97
6.10	14.51	18.14	18.14	18.14	236.78	293.02	5.58
6.71	11.79	15.42	18.41	18.14	249.93	311.62	6.19
7.32	9.07	11.79	15.42	18.14	263.54	330.67	6.80
7.62	8.16	10.89	13.61	18.14	273.06	340.19	7.11

**Note**

- Shaded Area indicates structural limit.

Offset – 0.26 m Span Adder per End Cap System = 0.51 m Insert Length = Span – 0.51 m * - Denotes Minimum Span ** - Denotes Maximum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 1-3/8" - 13.25t Bottom Shackles 1-1/4" - 12t
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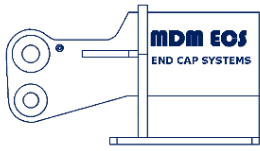
**31.75 tonne MDMECS**  
**Pipe Insert Size – 0.15 m**  
 Sch. 40 Wt. = 8.60 kg/5.78 m  
 Sch. 80 Wt. = 12.96 kg/8.71 m  
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight. Incl. shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
1.35	31.75	31.75	31.75	31.75	202.30	214.10	0.71
1.83	31.75	31.75	31.75	31.75	230.42	256.73	1.19
2.44	31.75	31.75	31.75	31.75	247.66	282.59	1.80
3.05	31.75	31.75	31.75	31.75	264.90	308.44	2.41
3.66	31.75	31.75	31.75	31.75	282.13	334.75	3.02
4.27	31.75	31.75	31.75	31.75	299.37	360.61	3.63
4.88	31.75	31.75	31.75	31.75	316.61	386.46	4.24
5.49	31.75	31.75	31.75	31.75	333.84	412.32	4.85
6.10	27.22	31.75	31.75	31.75	351.08	438.62	5.45
6.71	22.68	31.75	31.75	31.75	368.32	464.48	6.06
7.32	18.14	26.31	31.75	31.75	385.55	490.33	6.67
7.92	14.51	20.87	25.40	31.75	402.79	516.64	7.28
8.53	11.79	17.24	20.87	29.03	420.03	542.50	7.89
9.14	9.07	13.61	16.33	23.59	437.26	568.35	8.50

<b>Note</b>	- Shaded Area indicates structural limit.	
Offset – 0.32 m Span Adder per End Cap System = 0.64 m Insert Length = Span – 0.64 m * - Denotes Minimum Span ** - Denotes Maximum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 1-3/4" - 25t Bottom Shackles 1-1/2" - 17t



**48.99 tonne MDMECS**  
**Pipe Insert Size – 0.20m**  
 Sch. 40 Wt. = 12.95 kg/8.70 m  
 Sch. 80 Wt. = 19.68 kg/13.22 m  
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight. Incl. shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
1.35	48.99	48.99	48.99	48.99	365.60	385.55	0.71
1.83	48.99	48.99	48.99	48.99	404.15	444.52	1.03
2.44	48.99	48.99	48.99	48.99	430.46	483.98	1.64
3.05	48.99	48.99	48.99	48.99	456.31	523.45	2.25
3.66	48.99	48.99	48.99	48.99	482.17	562.45	2.86
4.27	48.99	48.99	48.99	48.99	508.02	601.92	3.47
4.88	48.99	48.99	48.99	48.99	533.88	641.83	4.08
5.49	48.99	48.99	48.99	48.99	559.73	680.39	4.69
6.10	48.99	48.99	48.99	48.99	585.59	719.85	5.30
6.71	48.99	48.99	48.99	48.99	611.44	759.31	5.91
7.32	44.45	48.99	48.99	48.99	637.30	798.78	6.52
7.92	39.01	48.99	48.99	48.99	663.15	837.79	7.12
8.53	33.57	48.99	48.99	48.99	689.01	877.25	7.73
9.14	28.12	40.92	48.99	48.99	716.22	916.71	8.34
9.75	23.59	34.47	41.73	48.99	740.72	955.72	8.95
10.36	19.96	29.03	34.47	48.99	766.57	995.18	9.56
10.97	16.33	23.59	29.03	40.82	792.43	1034.64	10.17
11.58	13.61	19.96	24.49	34.47	818.28	1073.65	10.78

**Note**

- Shaded Area indicates structural limit.

Offset – 0.40 m Span Adder per End Cap System = 0.80 m Insert Length = Span – 0.80 m * - Denotes Minimum Span ** - Denotes Maximum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 2" - 35t Bottom Shackles 1-3/4" -
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**68.85 tonne MDMECS**  
**Pipe Insert Size – 0.25 meters**  
 Sch. 40 Wt. = 18.36 kg/12.34 m  
 Sch. 80 Wt. = 29.18 kg/1.63 m  
 A105B A53B

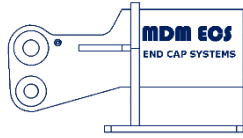
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight. Incl. shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
1.89	69.85	69.85	69.85	69.85	515.28	551.57	1.02
2.44	69.85	69.85	69.85	69.85	601.01	687.19	1.56
3.05	69.85	69.85	69.85	69.85	637.30	745.71	2.17
3.66	69.85	69.85	69.85	69.85	674.04	803.77	2.78
4.27	69.85	69.85	69.85	69.85	710.78	862.28	3.39
4.88	69.85	69.85	69.85	69.85	747.52	920.34	4.00
5.49	69.85	69.85	69.85	69.85	784.26	978.85	4.61
6.10	69.85	69.85	69.85	69.85	821.00	1036.91	5.22
6.71	69.85	69.85	69.85	69.85	857.74	1095.43	5.83
7.32	69.85	69.85	69.85	69.85	894.48	1153.49	6.44
7.92	69.85	69.85	69.85	69.85	930.77	1212.00	7.05
8.53	68.04	69.85	69.85	69.85	967.51	1270.06	7.66
9.14	59.87	69.85	69.85	69.85	1004.25	1328.57	8.27
9.75	52.62	69.85	69.85	69.85	1040.99	1386.63	8.88
10.36	46.27	69.85	69.85	69.85	1077.74	1445.15	9.49
10.97	40.82	60.78	69.85	69.85	1114.48	1503.21	10.10
11.58	35.38	52.62	60.78	69.85	1151.22	1561.72	10.71
12.19	29.94	45.36	51.71	69.85	1187.96	1619.78	11.32
12.80	25.40	38.10	44.45	65.32	1224.70	1678.29	11.93
13.41	21.77	32.66	38.10	57.15	1260.99	1736.35	12.53
14.02	19.05	28.12	32.66	48.99	1297.73	1794.87	13.14
14.63	16.33	23.59	28.12	41.73	1334.47	1852.92	13.75

**Note** - Shaded Area indicates structural limit.

Offset – 0.44 m Span Adder per End Cap System = 0.88 m Insert Length = Span – 0.88 meters * - Denotes Minimum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 2-1/2" - 55t Bottom Shackles 2" - 35t
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**109.77 tonne MDMECS**  
**Pipe Insert Size –0.30 meters**  
 Sch. 40 Wt. = 24.28 kg/16.32 m  
 Sch. 80 Wt. = 40.15 kg/26.98 m  
 A105B A53B

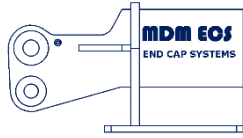
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight. Incl. shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
2.29	109.77	109.77	109.77	109.77	881.78	945.29	1.22
2.44	109.77	109.77	109.77	109.77	978.85	1105.86	1.37
3.05	109.77	109.77	109.77	109.77	1027.39	1186.60	1.98
3.66	109.77	109.77	109.77	109.77	1075.92	1266.88	2.59
4.27	109.77	109.77	109.77	109.77	1124.91	1347.62	3.20
4.88	109.77	109.77	109.77	109.77	1173.44	1427.91	3.81
5.49	109.77	109.77	109.77	109.77	1344.45	1508.65	4.42
6.10	109.77	109.77	109.77	109.77	1270.97	1588.93	5.03
6.71	109.77	109.77	109.77	109.77	1319.50	1669.67	5.64
7.32	109.77	109.77	109.77	109.77	1368.03	1749.96	6.25
7.92	109.77	109.77	109.77	109.77	1417.02	1830.25	6.86
8.53	107.05	109.77	109.77	109.77	1465.56	1910.98	7.47
9.14	99.79	109.77	109.77	109.77	1514.09	1991.27	8.08
9.75	90.72	109.77	109.77	109.77	1563.08	2072.01	8.69
10.36	81.65	109.77	109.77	109.77	1611.61	2152.30	9.30
10.97	73.48	109.77	109.77	109.77	1660.15	2233.04	9.91
11.58	66.22	104.33	109.77	109.77	1708.68	2313.32	10.52
12.19	59.87	93.44	102.51	109.77	1757.67	2394.06	11.13
12.80	52.62	81.65	90.72	109.77	1806.20	2474.35	11.73
13.41	46.27	71.67	79.83	109.77	1854.74	2555.09	12.34
14.02	40.82	62.60	69.85	109.77	1903.73	2635.37	12.95
14.63	35.38	54.43	60.78	95.25	1952.26	2715.66	13.56
15.24	30.84	47.17	53.52	81.65	2000.80	2796.40	14.17
15.85	26.31	40.82	46.27	70.76	2049.78	2876.68	14.78
16.46	22.68	35.38	39.92	60.78	2098.32	2957.42	15.39
17.07	19.96	29.94	34.47	52.62	2146.85	3037.71	16.00
17.68	17.24	26.31	29.94	45.36	2195.84	3118.45	16.61

**Note** - Shaded Area indicates structural limit.

Offset – 0.53 m Span Adder per End Cap System = 1.07 m Insert Length = Span – 1.07 m * - Denotes Minimum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 2-1/2" - 55t Bottom Shackles 2" - 35t
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**149.69 tonne MDMECS**  
**Pipe Insert Size –0.36 meters**  
 Sch. 40 Wt. = 28.88 kg/ 19.40 m  
 Sch. 80 Wt. = 48.13 kg/ 32.34 m  
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Spreader Span (meters)	Capacity at 45° Sling Angle (tonne)		Capacity at 60° Sling Angle (tonne)		Weight. Incl. shackles & Pipe (kg.)		Length of Insert (meters)
	SCH 40	SCH 80	SCH 40	SCH 80	SCH 40	SCH 80	
2.39	149.69	149.69	149.69	149.69	1282.31	1366.67	1.32
2.44	149.69	149.69	149.69	149.69	1387.99	1543.57	16.46
3.05	149.69	149.69	149.69	149.69	1445.60	1640.19	23.77
3.66	149.69	149.69	149.69	149.69	1502.75	1736.81	31.09
4.27	149.69	149.69	149.69	149.69	1560.36	1833.42	38.40
4.88	149.69	149.69	149.69	149.69	1617.96	1929.58	45.72
5.49	149.69	149.69	149.69	149.69	1675.57	2026.20	53.04
6.10	149.69	149.69	149.69	149.69	1733.18	2122.81	60.35
6.71	149.69	149.69	149.69	149.69	1790.78	2219.43	67.67
7.32	149.69	149.69	149.69	149.69	1848.39	2316.04	74.98
7.92	143.34	149.69	149.69	149.69	1906.00	2412.20	82.30
8.53	136.08	149.69	149.69	149.69	1963.60	2508.82	89.61
9.14	127.91	149.69	149.69	149.69	2021.21	2605.43	96.93
9.75	118.84	149.69	149.69	149.69	2078.81	2702.05	104.24
10.36	109.77	149.69	149.69	149.69	2136.42	2798.21	111.56
10.97	100.70	149.69	149.69	149.69	2193.57	2894.83	118.87
11.58	91.63	146.96	149.69	149.69	2251.18	2991.44	126.19
12.19	82.55	132.45	143.34	149.69	2308.79	3088.06	133.50
12.80	74.39	117.93	128.82	149.69	2366.39	3184.67	140.82
13.41	66.22	106.14	115.21	149.69	2424.00	3280.83	148.13
14.02	58.97	93.44	102.51	149.69	2481.60	3386.52	155.45
14.63	52.62	82.55	90.72	143.34	2539.21	3474.06	162.76
15.24	46.27	72.57	80.74	126.10	2596.82	3570.68	170.08
15.85	40.82	63.50	70.76	110.68	2654.42	3667.29	177.39
16.46	35.38	55.34	62.60	96.16	2712.03	3763.46	184.71
17.07	30.84	48.08	54.43	83.46	2769.64	3860.07	192.02
17.68	27.22	41.73	47.17	72.57	2827.24	3956.69	199.34
18.29	23.59	36.29	40.82	62.60	2884.39	4053.30	206.65
18.90	20.87	31.75	35.38	54.43	2942.00	4149.92	213.97
19.51	17.24	27.22	30.84	47.17	2999.61	4246.08	221.28

**Note** - Shaded Area indicates structural limit.

Offset – 2.13 m Span Adder per End Cap System = 1.07 m Insert Length = Span – 1.07 m * - Denotes Minimum Span	MEETS OR EXCEEDS ASME BTH-1 & ASME B30.20 WELDS PER AWS D14.1	Top Shackles 2-1/2" - 55t Bottom Shackles 2" - 35t
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