

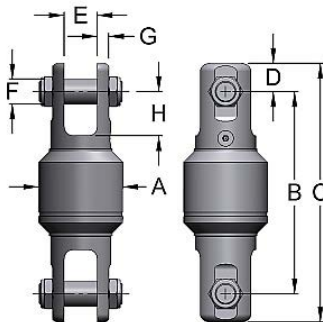
SWIVELS- HD-LINK, HEAVY DUTY (ANGULAR CONTACT)



- Heavy Duty (HD) barrel for maximized swivel life in rough conditions
- Thick-walled barrel protects bearings and seals from shock and dust
- Equipped with low torque angular contact ball bearings like Miller Y-Link
- Designed for high impact, abrasive environments as found in demolition, quarries, etc.
- Machined from solid forged alloy steel bar
- Zinc plating inside and out for effective protection against corrosion
- Grease fitting allows for easy, frequent lubrication
- For Working Loads from 5 to 35 tons and wire rope sizes 5/8" to 1 1/2"
- Higher capacities are available upon request

For demolition, the swivel selected should be one size larger than the normally recommended size, should be lubricated daily, and should be installed 4-6 feet above the breaking ball overhaul weight.

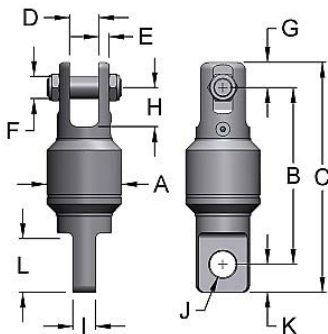
CLEVIS TO CLEVIS - TYPE 131



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	Weight Lbs.
5		5/8	3.5	7.94	10.19	1.13	1	.88	0.56	1.56	12
5	D-131	5/8	3.5	7.94	10.19	1.13	1	.88	0.56	1.56	12
8.5	EE-131	3/4	4	9.63	12.31	1.34	1.56	1.19	0.56	2.09	19.75
15	GG-131	1	5	14	17.5	1.75	1.75	1.5	0.81	3.5	50
35	HH-131	1 1/2	6	15.94	20.69	2.38	2	2	1.13	3.69	99
45	I-131		7	20.06	26.06	3	2.5	2.25	1.25	4	160

* Design factors for WLL=35T and below are 5:1; and 45T are 4:1

CLEVIS TO EYE - TYPE 132



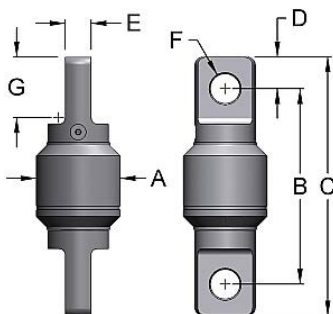
WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
5	D-132	5/8	3.5	7.88	10.19	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	11.38
8.5	EE-132	3/4	4	9.5	12.34	1.56	0.56	1.19	1.34	2.09	1.25	1.41	1.5	3.13	19.75
10	G-132	7/8	5	13.94	17.5	1.75	0.81	1.5	1.75	3.5	1.72	1.66	1.81	4.66	49
15	GG-132	1	5	13.63	17.5	1.75	0.81	1.5	1.75	3.5	2	2.03	2.13	4.91	50
35	HH-132	1 1/2	6	16.44	21.19	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	96
45	I-132		7	20.06	26.06	2.5	1.25	2.25	3	4	2.5	2.53	3	7	155

* Design factors for WLL=35T and below are 5:1; and 45T are 4:1



SWIVELS- HD-LINK, HEAVY DUTY (ANGULAR CONTACT)

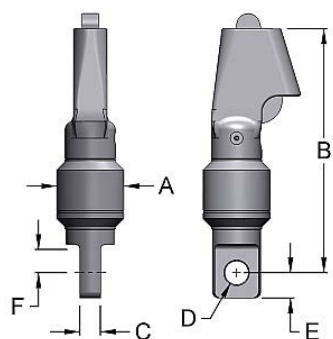
EYE TO EYE - TYPE 232



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
5	D-232	5/8	3.5	7.69	10.19	1.19	1	1.28	2.5	11
8.5	EE-232	3/4	4	9.31	12.34	1.5	1.25	1.41	3.13	19.25
10	G-232	7/8	5	13.88	17.5	1.81	1.72	1.66	4.66	47
15	GG-232	1	5	13.25	17.5	2.13	2	2.03	4.91	48
35	HH-232	1.5	6	16.5	21.19	2.38	2.25	2.31	5.25	93
45	I-232		7	20.06	26.06	3	2.5	2.53	7	150

* Design factors for WLL=35T and below are 5:1; and 45T are 4:1

WEDGE TO EYE - TYPE 732



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	Weight Lbs.
5	D-732	1/2, 5/8	3.5	12.5	1	1.28	1.19	1.31	15
8.5	EE-732	1/2, 5/8, 3/4	4	14.25	1.25	1.41	1.5	1.63	25
10	G-732	3/4, 7/8, 1	5	19.69	1.72	1.66	1.81	2.84	55
15	GG-732	3/4, 7/8, 1	5	19.38	2	2.03	2.13	2.78	56
25	H-732	1 1/8, 1 1/4	6	25.44	2.25	2.31	2.38	2.88	119
35	HH-732	1 1/8, 1 1/4	6	25.44	2.25	2.31	2.38	2.88	119

* Design factor 5:1

Load Handling SOLUTIONS

- ▶ Swivels
- ▶ Forged Hooks
- ▶ Blocks
- ▶ Sheaves

SCR Pull-in Swivel
375 metric tons working load

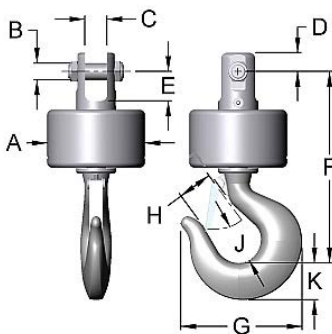
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SWIVELS- g-LINK, OVERHAUL (ANGULAR CONTACT)



- Miller's **g-Link** overhaul swivels weigh 2 ½ to nearly four times as much standard swivels of the same type
- Adds overhaul weight without increasing overall length
- Ideal for small truck cranes and low head room applications where only minimal overhaul weight is required
- For 1.5 to 8.5 ton Working Loads
- Angular contact ball bearings for low torque swivel motion
- Machined from forged alloy steel bar
- Zinc plating inside and out for effective protection against corrosion.
- The g-Link is available with many of the other end fittings shown in this catalog. If you do not see your requirement in the following tables, please inquire.

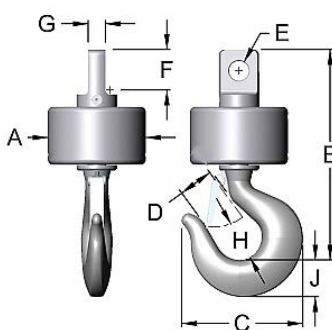
CLEVIS TO HOOK - TYPE 125



WLL* Tons	Model Number	Rope size	A	B	C	D	E	F	G	H	J	K	Weight Lbs.
1.5	B-125	3/8	4	0.5	0.5	.69	0.78	6.09	4.09	1.13	1.19	1.13	9
3	C-125	1/2	5	0.75	0.75	.94	1.19	8.38	4.94	1.34	1.38	1.48	17.94
5	D-125	5/8	7	0.88	1	1.13	1.56	12.63	6.5	1.69	1.75	1.81	43.81
8.5	EE-125	3/4	7	1.19	1.56	1.34	2.09	13.75	8.94	2.25	2.56	2.59	60

* Design factor 5:1 * Models 5 Ton and up include lubrication fitting.

EYE TO HOOK - TYPE 225



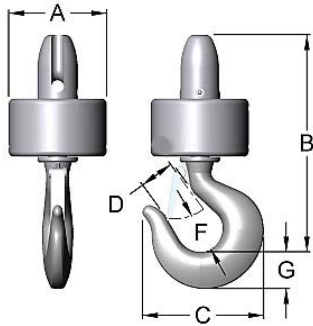
WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	J	Weight Lbs.
1.5	B-225	3/8	4	6.25	4.09	1.13	0.66	1.38	0.5	1.19	1.13	9
3	C-225	1/2	5	9.75	4.81	1.34	0.91	1.88	0.75	1.38	1.44	17.94
5	D-225	5/8	7	12.5	6.5	1.69	1.28	2.5	1	1.75	1.81	43.81
8.5	EE-225	3/4	7	13.5	8.69	2.25	1.41	3.13	1.25	2.56	2.59	60

* Design factor 5:1 * Models 5 Ton and up include lubrication fitting.



SWIVELS- g-LINK, OVERHAUL (ANGULAR CONTACT)

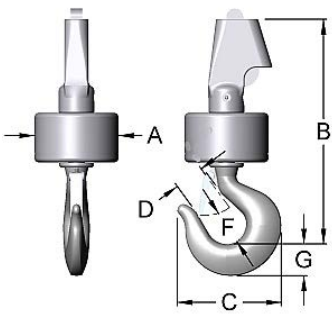
THIMBLE TO HOOK - TYPE 625



WLL* Tons	Model Number	Rope Size	A	B	C	D	F	G	Weight Lbs.
1.5	B-625	3/8	4	8.22	4.09	1.13	1.19	1.13	9.38
3	C-625	1/2	5	10.5	4.94	1.34	1.38	1.19	19.19
5	D-625	5/8	7	14.22	6.5	1.69	1.75	1.81	45.31
8.5	EE-625	3/4	7	15.5	8.69	2.25	2.19	2.59	56.25

* Design factor 5:1 * Models 5 Ton and up include lubrication fitting.

WEDGE TO HOOK - TYPE 725



WLL* Tons	Model Number	Rope Size	A	B	C	D	F	G	Weight Lbs.
3	C-725	1/2	5	12.69	4.94	1.34	1.13	1.19	20.38
5	D-725	1/2, 5/8	7	17.19	6.5	1.69	1.75	1.81	47.88
8.5	EE-725	1/2, 5/8, 3/4	7	18.5	8.69	2.25	2.56	2.59	65.25

* Design factor 5:1 * Models 5 Ton and up include lubrication fitting.

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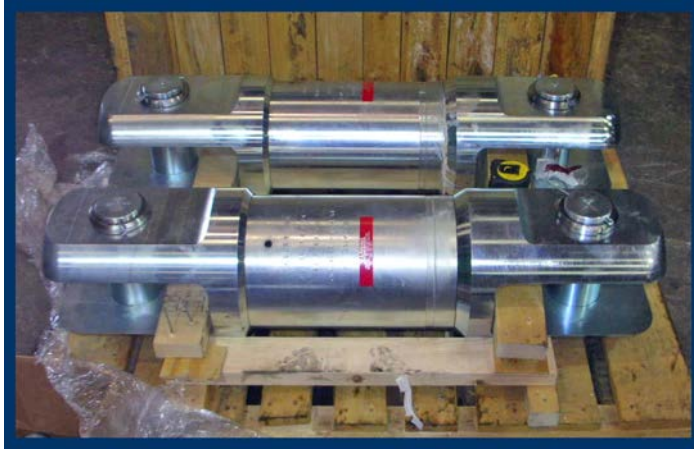
Load Handling SOLUTIONS

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CELEBRATING OUR 80TH YEAR!

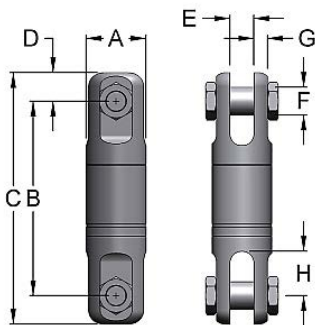
SWIVELS- Y-LINK/HP, HIGH PRESSURE



Miller Y-Link alloy steel swivels are available in a high pressure version in six popular configurations, suitable for use in submerged environments where corrosion exposure from long term unattended deployments are not a major concern. These swivels are based on our Y-Link models and contain special pressure compensating seals for reliable operation to ocean depths of 10,000 feet. Y-Link/HP models are slightly longer than standard Y-Link models due to the addition of special high pressure seals.

- **Y-Link/HP** high pressure swivels contain special pressure compensating seals and oil-filled cavities for reliable operation to depths of 10,000 feet
- Working Load Limits from 0.75 to 600 tons
- Angular contact bearing design extends the life of the wire rope, and maximizes efficiency, reliability and service life
- Alloy steel structural components are zinc plated inside and out for corrosion protection
- Design Factor of 5 to 1 minimum for swivels 35 ton and below
- Design Factor of 4 to 1 minimum for swivels 45 tons and above
- Proof Load is 2 x WLL
- Models 8.5 tons and up include lubrication fitting
- Special designs are available

CLEVIS TO CLEVIS - TYPE 111HP

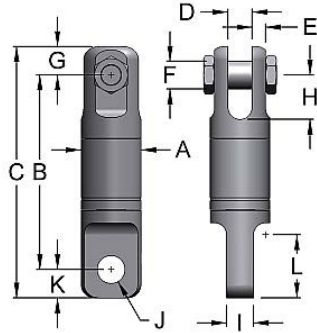


WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	Weight Lbs.
0.75	BB-111HP	.25	1.31	3.69	5.56	.44	0.31	.38	0.22	0.56	1
1.5	B-111HP	.375	1.63	5	6.38	.69	0.5	.5	0.31	0.78	2
3	C-111HP	.5	2	5.44	9.31	.94	0.75	.75	0.38	1.19	5
5	D-111HP	.625	2.5	9.19	11.44	1.13	1	.88	0.56	1.56	10
8.5	EE-111HP	.75	3	10.38	13.06	1.34	1.56	1.19	0.53	2.03	15
15	GG-111HP	1	4	15.5	19	1.75	1.75	1.5	0.81	3.5	43
35	HH-111HP	1.5	5	18.19	22.94	2.38	2	2	1.13	3.69	85
45	I-111HP		6	22.56	28.56	3	2.5	2.25	1.25	4	156
60	JJ-111HP		7	24	31	3.5	3	2.5	1.5	4.5	229
75	K-111HP		8	27	35	4	3.5	3	1.75	5	328
100	KK-111HP		10	36.5	47.5	5.5	4.06	4	2	6.75	747
200	L-111HP		11.5	36.52	48.02	5.75	5.06	4.5	2.56	7.75	985
300	M-111HP		14	44.2	59.2	7.5	6.13	4.75	3.94	9.5	1680

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

SWIVELS- Y-LINK/HP, HIGH PRESSURE

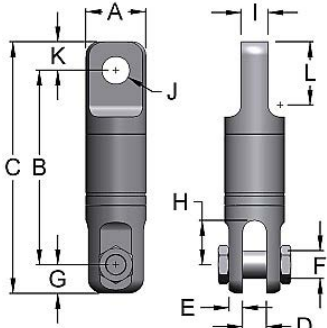
CLEVIS TO EYE - TYPE 112HP



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.75	BB-112HP	.25	1.31	4.75	5.56	.31	0.22	.38	0.44	0.56	.31	.38	.44	0.94	1
1.5	B-112HP	.375	1.63	5	6.31	0.5	0.31	.5	0.68	0.78	0.5	.66	.63	1.34	2
3	C-112HP	.5	2	7.31	9.31	0.75	0.38	.75	0.94	1.19	0.75	.91	1	1.94	5
5	D-112HP	.625	2.5	9.13	11.44	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	11
8.5	EE-112HP	.75	3	10.25	13.09	1.56	0.53	1.19	1.34	2.09	1.25	1.41	1.5	3.13	16
15	GG-112HP	1	4	15.25	19.13	1.75	0.81	1.5	1.75	3.5	2	2.03	2.13	4.91	43
35	HH-112HP	1.5	5	18.19	22.94	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	82
45	I-112HP		6	22.56	28.56	2.5	1.25	2.25	3	4	2.5	2.53	3	7	149
60	JJ-112HP		7	24	31	3	1.5	2.5	3.5	4.5	3.5	2.88	3.5	7	226
75	K-112HP		8	27	35	3.5	1.75	3	4	5	3.5	3.38	4	8.13	333
100	KK-112HP		10	36.5	47.5	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	698
200	L-112HP		11.5	35.52	47.27	5.06	2.56	4.5	5.75	7.75	5	4.81	6	13	925
300	M-112HP		14	44.2	59.2	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

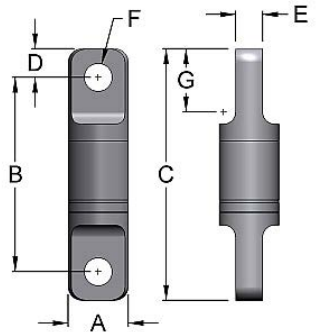
EYE TO CLEVIS - TYPE 211HP



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.75	BB-211HP	1/4	1.31	4.69	5.56	.31	0.22	.38	0.44	0.56	.31	.38	.44	0.94	1
1.5	B-211HP	3/8	1.63	5	6.31	0.5	0.31	.5	0.68	0.78	0.5	.66	.63	1.34	2
3	C-211HP	1/2	2	7.31	9.31	0.75	0.38	.75	0.94	1.19	0.75	.91	1	1.94	5
5	D-211HP	5/8	2.5	9.13	11.44	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	10
8.5	EE-211HP	3/4	3	10.25	13.09	1.56	0.53	1.19	1.34	2.09	1.25	1.41	1.5	3.13	16
15	GG-211HP	1	4	15.25	19.13	1.75	0.81	1.5	1.75	3.5	2	2.03	2.13	4.91	43
35	HH-211HP	1 1/2	5	18.19	22.94	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	80
45	I-211HP		6	22.56	28.56	2.5	1.25	2.25	3	4	2.5	2.53	3	7	149
60	JJ-211HP		7	24	31	3	1.5	2.5	3.5	4.5	3.5	2.88	3.5	7	233
75	K-211HP		8	27	35	3.5	1.75	3	4	5	3.5	3.38	4	8.25	333
100	KK-211HP		10	36.5	47.5	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	731
200	L-211HP		11.5	36.67	48.42	5.06	2.56	4.5	5.75	7.75	5	4.81	6	13	960
300	M-211HP		14	44.2	59.2	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

EYE TO EYE - TYPE 212HP

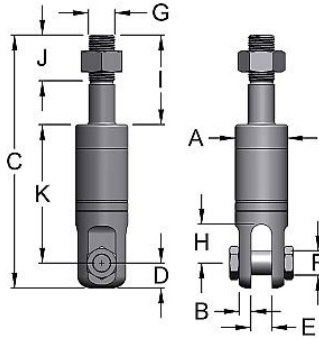


WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.75	BB-212HP	1/4	1.31	4.94	5.88	.44	0.31	.39	0.94	1
1.5	B-212HP	3/8	1.63	5	6.25	.69	0.5	.66	1.34	2
3	C-212HP	1/2	2	7.31	9.31	1	0.75	.91	1.94	5
5	D-212HP	5/8	2.5	9.06	11.44	1.19	1	1.28	2.5	10
8.5	EE-212HP	3/4	3	10.13	13.06	1.5	1.25	1.41	3.13	16
15	GG-212HP	1	4	15.13	19.38	2.13	2	2.03	4.91	43
35	HH-212HP	1 1/2	5	18.19	22.94	2.38	2.25	2.31	5.25	79
45	I-212HP		6	22.56	28.56	3	2.5	2.53	7	142
60	JJ-212HP		7	24	31	3.5	3.5	2.88	7	231
75	K-212HP		8	27	35	4	3.5	3.38	8.25	340
100	KK-212HP		10	36.5	47.5	5.5	4.5	4.03	11.38	704
200	L-212HP		11.5	35.67	47.67	6	5	4.81	13	900
300	M-212HP		14	43.2	59.2	8	6	6.06	17	1600

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

SWIVELS- Y-LINK/HP, HIGH PRESSURE

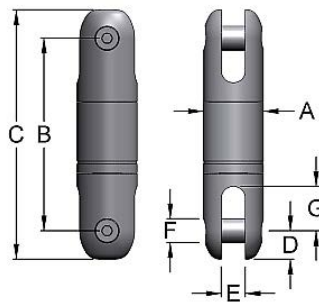
STUD TO CLEVIS - TYPE 311HP



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	Weight Lbs.
0.75	BB-311HP	1/4	1.31	0.22	5.81	.44	0.31	.38	0.63	0.56	2	1.5	4.38	1
1.5	B-311HP	3/8	1.63	0.31	7	.69	0.5	.75	0.75	0.78	2	1.5	4.31	2
3	C-311HP	1/2	2	0.38	10.44	.88	0.75	.75	0.88	1.19	3	2.63	5.25	5
5	D-311HP	5/8	2.5	0.56	11.19	1.13	1	.88	1.25	1.56	3.5	3.13	6.56	11
8.5	EE-311HP	3/4	3	0.53	13.78	1.34	1.56	1.19	1.5	2.09	4	3	8.44	15
15	GG-311HP	1	4	0.81	18.69	1.75	1.75	1.5	2	3.5	5.5	3	11.44	40
35	HH-311HP	1 1/2	5	1.13	25.56	2.38	2	2	2.5	3.69	8.5	4.25	14.69	84
45	I-311HP		6	1.25	28	3	2.5	2.25	3	4	8	4	17	141
60	JJ-311HP		7	1.5	31.5	3.5	3	2.5	3.25	4.5	8	4	20	219
75	K-311HP		8	1.75	36.5	4	3.5	3	3.75	5	10	5	22.5	295
100	KK-311HP		10	2	54.75	5.5	4.06	4	6.5	6.75	20.5	7.25	28.75	699

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

BULLET NOSE TO BULLET NOSE - TYPE 414HP

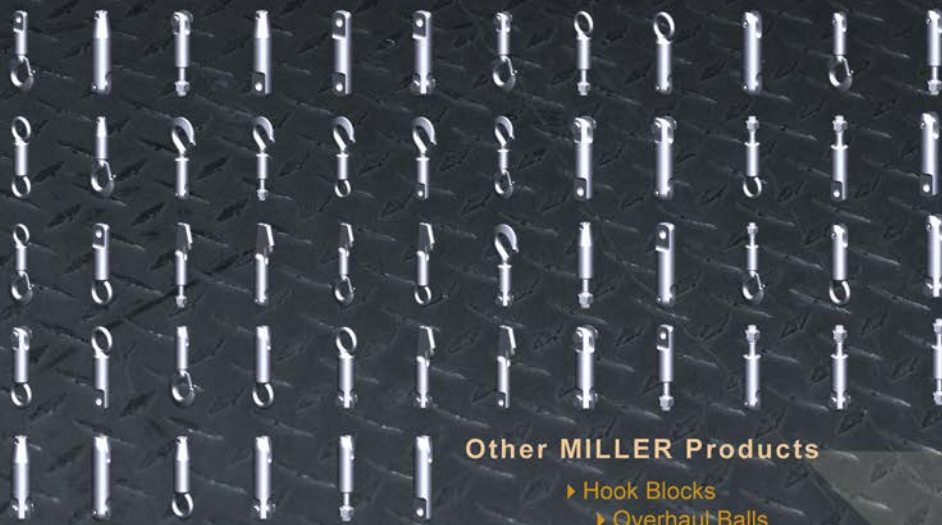


WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.75	BB-414HP	.25	1.31	4.88	5.63	.44	0.31	.38	0.56	1
1.5	B-414HP	3/8	1.63	5	6.25	.56	0.5	.44	0.81	2
3	C-414HP	3/8	2	6.5	8.13	.81	0.75	.63	0.94	4
5	D-414HP	5/8	2.5	9.25	11.38	1.13	1	.88	1.56	9
8.5	EE-414HP	3/4	3	10.56	13.13	1.25	1.28	1	2.13	16
15	GG-414HP	1	4	15	18.5	1.75	1.75	1.5	3.25	42
35	HH-414HP	1 1/2	5	18.16	22.91	2.38	2	2	3.69	87

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

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SWIVELS- HYDRO-LINK & HYDRO-LINK/HP

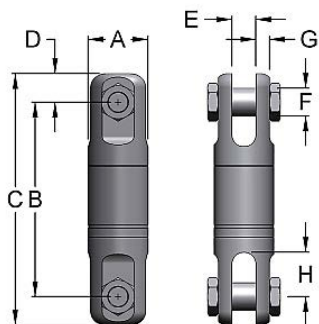
- Miller Hydro-Link swivels are machined from a special non-magnetic, austenitic stainless steel alloy of exceptionally high strength and corrosion resistance which maintains good mechanical properties at elevated and sub-zero temperatures.
- **Available in two configurations, standard Hydro-Link and high pressure Hydro-Link / HP**



- **Hydro-Link** swivels are intended for use with cable and chain in non-submerged corrosive environments such as sea air or harsh industrial environments
- **Hydro-Link / HP** high pressure swivels contain special pressure compensating seals and oil-filled cavities for reliable operation to depths of 10,000 feet
- Working Load Limits from 0.75 to 600 tons
- Angular contact bearing design extends the life of the wire rope, and maximizes efficiency, reliability and service life
- Stainless steel parts are passivated for added corrosion resistance
- Design Factor of 5 to 1 minimum for swivels 35 tons and below
- Design Factor of 4 to 1 minimum for swivels 45 tons and above
- Proof Load is 2 x WLL
- Models 8.5 tons and up include lubrication fitting
- Special designs available

SWIVELS- HYDRO LINK, STAINLESS STEEL

CLEVIS TO CLEVIS - TYPE 151, STAINLESS STEEL

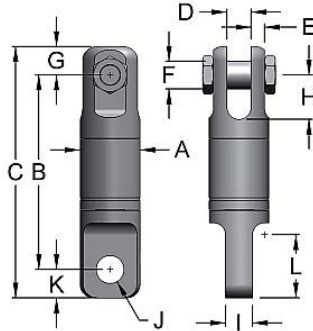


WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	H	G	Weight Lbs.
0.75	BB-151	1/4	1.31	3.5	4.38	0.44	0.31	.38	.56	0.22	0.93
1.5	B-151	3/8	1.63	4.06	5.44	0.69	0.5	.5	.78	0.31	2
3	C-151	1/2	2.00	6.25	8.09	0.94	0.75	.75	1.19	0.38	4.5
5	D-151	5/8	2.5	7.94	10.09	1.13	1	.88	1.56	0.56	9.5
8.5	EE-151	3/4	2.88	9.63	12.31	1.34	1.56	1.19	2.09	0.53	15.25
10	G-151	7/8	4.00	14	17.5	1.75	1.75	1.5	3.5	0.81	40
15	GG-151	1	4.00	14	17.5	1.75	1.75	1.5	3.5	0.81	40
25	H-151	1 1/4	5.00	15.94	20.69	2.38	2	2	3.69	1.13	78
35	HH-151	1 1/2	5.00	15.94	20.69	2.38	2	2	3.69	1.13	78
45	I-151		6.00	20.06	26.06	3	2.5	2.25	4	1.25	146
50	J-151		7.00	20.94	27.94	3.5	3	2.5	4.5	1.5	207
60	JJ-151		7.00	20.94	27.94	3.5	3	2.5	4.5	1.5	207
75	K-151		8.00	24	32	4	3.5	3	5	1.75	300
100	KK-151		10.00	32.38	43.38	5.5	4.06	4	6.75	2	692
150	KKK-151		10	32.88	43.88	5.5	4.06	4	6.75	2	692
200	L-151		11.25	36.31	48.31	6	5.06	4.5	8.25	3.09	885
300	M-151		14	43.95	58.95	7.5	6.13	4.75	9.5	3.94	1680

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

SWIVELS- HYDRO LINK, STAINLESS STEEL

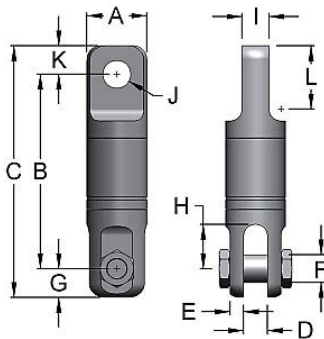
CLEVIS TO EYE - TYPE 152, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.75	BB-152	1/4	1.31	3.56	4.44	0.31	0.22	.38	0.44	0.56	0.31	.38	.44	0.94	0.94
1.5	B-152	3/8	1.63	4.13	5.38	0.5	0.31	.5	0.69	0.78	0.5	.66	.63	1.34	1.94
3	C-152	1/2	2.0	6.19	8.13	0.75	0.38	.75	0.94	1.19	0.75	.91	1	1.94	4.25
5	D-152	5/8	2.5	7.88	10.19	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	8.94
8.5	EE-152	3/4	2.88	9.5	12.34	1.56	0.53	1.19	1.34	2.19	1.25	1.41	1.5	3.13	15.25
10	G-152	7/8	4.0	13.94	17.5	1.75	0.81	1.5	1.75	3.5	1.72	1.66	1.81	4.66	39
15	GG-152	1	4.0	13.63	17.5	1.75	0.81	1.5	1.75	3.5	1.94	2.03	2.13	4.91	40
25	H-152	1 1/4	5.0	15.94	20.69	2	1.13	2.03	2.38	3.69	2.25	2.31	2.38	5.25	75
35	HH-152	1 1/2	5.0	15.94	20.69	2	1.13	2.03	2.38	3.69	2.25	2.31	2.38	5.25	75
45	I-152		6.0	20.06	26.06	2.5	1.25	2.25	3	4	2.5	2.53	3	7	139
50	J-152		7.0	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	205
60	JJ-152		7.0	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	205
75	K-152		8.0	24	32	3.5	1.75	3	4	5	3.5	3.38	4	8.13	305
100	KK-152		10.0	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	647
150	KKK-152		10	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.28	5.5	11.38	647
200	L-152		11.25	35.92	48.29	5.06	3.09	4.5	6	8.25	5	4.81	6.38	13.5	885
300	M-152		14	43.45	58.95	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

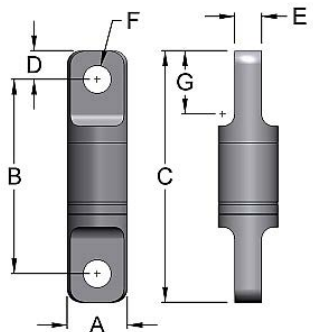
EYE TO CLEVIS - TYPE 251, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.75	BB-251	1/4	1.31	3.63	4.5	0.31	0.22	.38	0.44	0.44	0.31	.39	.44	0.94	0.94
1.5	B-251	3/8	1.63	4.13	5.44	0.5	0.31	.5	0.69	0.78	0.5	.66	.63	1.34	1.88
3	C-251	1/2	2.0	6.19	8.13	0.75	0.38	.75	0.94	1.19	0.75	.91	1	1.94	4.31
5	D-251	5/8	2.5	7.88	10.19	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	9.06
8.5	EE-251	3/4	2.88	9.5	12.34	1.56	0.53	1.19	1.34	2.19	1.25	1.41	1.5	3.13	14.75
10	G-251	7/8	4.0	13.94	17.5	1.75	0.81	1.5	1.75	3.5	1.72	1.66	1.81	4.66	39
15	GG-251	1	4.0	13.63	17.5	1.75	0.81	1.5	1.75	3.5	1.94	2.03	2.13	4.91	40
25	H-251	1 1/4	5.0	15.94	20.69	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	75
35	HH-251	1 1/2	5.0	15.94	20.69	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	75
45	I-251		6.0	20.06	26.06	2.5	1.25	2.25	3	4	2.5	2.53	3	7	139
50	J-251		7.0	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	211
60	JJ-251		7.0	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	211
75	K-251		8.0	24	32	3.5	1.75	3	4	5	3.5	3.38	4	8.13	305
100	KK-251		10.0	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	678
150	KKK-251		10	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.28	5.5	11.38	678
200	L-251		11.25	35.93	48.31	5.06	3.09	4.5	6	8.25	5	4.81	6.38	13.5	885
300	M-251		14	43.45	58.95	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

EYE TO EYE - TYPE 252, STAINLESS STEEL



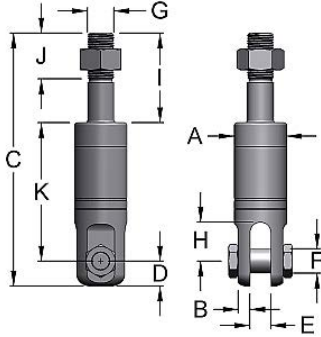
WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.75	BB-252	1/4	1.31	3.81	4.69	0.44	0.31	.39	0.94	0.93
1.5	B-252	3/8	1.63	4.13	5.38	0.63	0.5	.66	1.34	1.87
3	C-252	1/2	2	6.13	8.13	1	0.75	.91	1.94	4.06
5	D-252	5/8	2.5	7.81	10.19	1.19	1	1.28	2.5	8.5
8.5	EE-252	3/4	2.88	9.31	12.31	1.5	1.25	1.41	3.13	14.75
10	G-252	7/8	4	13.88	17.5	1.81	1.72	1.63	4.66	37
15	GG-252	1	4	13.25	17.5	2.13	1.94	2.03	4.91	39
25	H-252	1 1/4	5	15.94	20.69	2.38	2.25	2.31	5.25	72
35	HH-252	1 1/2	5	15.94	20.69	2.38	2.25	2.31	5.25	72
45	I-252		6	20.06	26.06	3	2.5	2.53	7	132
50	J-252		7	20.94	27.94	3.5	2.94	2.88	7	209
60	JJ-252		7	20.94	27.94	3.5	2.94	2.88	7	209
75	K-252		8	24	32	4	3.5	3.38	8.13	311
100	KK-252		10	32.88	43.41	5.5	4.5	4.03	11.38	653
150	KKK-252		10	32.88	43.88	5.5	4.5	4.28	11.38	657
200	L-252		11.25	35.56	48.31	6.38	5	4.81	13.5	880
300	M-252		14	42.95	58.95	8	6	6.06	17	1610

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1



SWIVELS- HYDRO LINK, STAINLESS STEEL

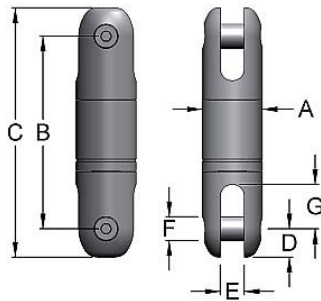
STUD TO CLEVIS - TYPE 351, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	Weight Lbs.
0.75	BB-351	1/4	1.31	0.22	5.63	0.44	0.31	.38	0.63	0.56	2	1.5	3.19	1.06
1.5	B-351	3/8	1.63	0.31	6.06	0.69	0.5	.5	0.75	0.78	2	1.5	3.75	1.87
3	C-351	1/2	2	0.38	9.19	0.94	0.75	.75	0.88	1.19	3	2.63	5.25	4.5
5	D-351	5/8	2.5	0.56	11.19	1.13	1	.88	1.25	1.56	3.5	3.13	6.56	9.75
8.5	EE-351	3/4	2.88	0.53	13.03	1.56	1.56	1.19	1.5	2.19	4	3	7.69	14.5
10	G-351	7/8	4	0.81	17.44	1.75	1.75	1.5	2	3.5	5.5	3	10.19	37
15	GG-351	1	4	0.81	17.44	1.75	1.75	1.5	2	3.5	5.5	3	10.19	37
25	H-351	1 1/4	5	1.13	23.31	2.38	2	2	2.5	3.69	8.5	4.25	12.44	78
35	HH-351	1 1/2	5	1.13	23.31	2.38	2	2	2.5	3.69	8.5	4.25	10.44	78
45	I-351		6	1.25	25.56	3	2.5	2.25	3	4	8	4	14.56	131
50	J-351		7	1.5	28.44	3.5	3	2.5	3.25	4.5	8	4	16.94	198
60	JJ-351		7	1.5	28.44	3.5	3	2.5	3.25	4.5	8	4	16.94	198
75	K-351		8	1.75	33.5	4	3.5	3	3.75	5	10	5	19.5	271
100	KK-351		10	2	51.13	5.5	4.06	4	6.5	6.75	20.5	7.25	25.13	648

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

BULLET NOSE TO BULLET NOSE - TYPE 454, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.75	BB-454	1/4	1.31	3.56	4.44	0.44	0.31	.38	0.56	1.12
1.5	B-454	3/8	1.63	4.06	5.19	0.56	0.5	.44	0.81	1.81
3	C-454	1/2	2	5.44	7.06	0.81	0.75	.63	0.94	3.87
5	D-454	5/8	2.5	7.88	10.19	1.13	1	.88	1.56	8.06
8.5	EE-454	3/4	2.88	9.81	12.31	1.25	1.28	1	2.13	14.5
10	G-454	7/8	4	13.25	16.75	1.75	1.75	1.5	3.25	40
15	GG-454	1	4	13.25	16.75	1.75	1.75	1.5	3.25	40
25	H-454	1 1/4	5	15.91	20.66	2.38	2	2	3.69	84
35	HH-454	1 1/2	5	15.91	20.66	2.38	2	2	3.69	84

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

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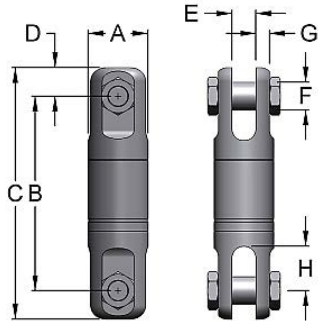
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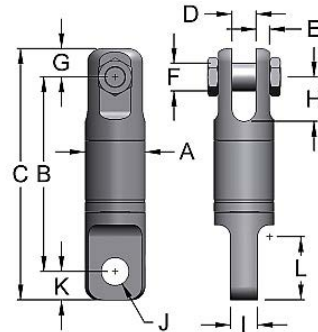
CLEVIS TO CLEVIS - TYPE 151HP, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	Weight Lbs.
0.75	BB-151HP	1/4	1.31	3.69	5.56	.44	0.31	.38	0.22	0.56	1
1.5	B-151HP	3/8	1.63	5	6.38	.69	0.5	.5	0.31	0.78	2
3	C-151HP	1/2	2	5.44	9.31	.94	0.75	.75	0.38	1.19	5
5	D-151HP	5/8	2.5	9.19	11.44	1.13	1	.88	0.56	1.56	10
8.5	EE-151HP	3/4	3	10.38	13.06	1.34	1.56	1.19	0.53	2.03	15
15	GG-151HP	1	4	15.5	19	1.75	1.75	1.5	0.81	3.5	43
35	HH-151HP	1 1/2	5	18.19	22.94	2.38	2	2	1.13	3.69	85
45	I-151HP		6	22.56	28.56	3	2.5	2.25	1.25	4	156
60	JJ-151HP		7	24	31	3.5	3	2.5	1.5	4.5	229
75	K-151HP		8	27	35	4	3.5	3	1.75	5	328
100	KK-151HP		10	36.5	47.5	5.5	4.06	4	2	6.75	747
200	L-151HP		11.25	36.31	48.31	6	5.06	4.5	3.09	8.25	885
300	M-151HP		14	44.2	59.2	7.5	6.13	4.75	3.94	9.5	1680

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

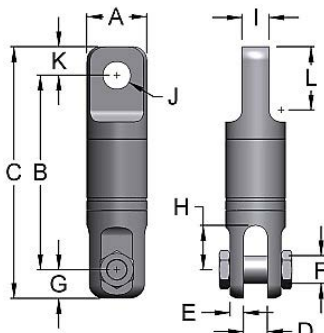
CLEVIS TO EYE - TYPE 152HP, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.75	BB-152HP	1/4	1.31	4.75	5.56	.31	0.22	.375	0.44	0.56	.31	.38	.44	0.94	1
1.5	B-152HP	3/8	1.63	5	6.31	0.5	0.31	.5	0.68	0.78	0.5	.66	.63	1.34	2
3	C-152HP	1/2	2	7.31	9.31	0.75	0.38	.75	0.94	1.19	0.75	.91	1	1.94	5
5	D-152HP	5/8	2.5	9.13	11.44	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	11
8.5	EE-152HP	3/4	3	10.25	13.09	1.56	0.53	1.06	1.34	2.09	1.25	1.41	1.5	3.13	16
15	GG-152HP	1	4	15.25	19.13	1.75	0.81	1.5	1.75	3.5	2	2.03	2.13	4.91	43
35	HH-152HP	1 1/2	5	18.19	22.94	2	1.13	2.03	2.38	3.69	2.25	2.31	2.38	5.25	82
45	I-152HP		6	22.56	28.56	2.5	1.25	2.25	3	4	2.5	2.53	3	7	149
60	JJ-152HP		7	24	31	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	226
75	K-152HP		8	27	35	3.5	1.75	3	4	5	3.5	3.38	4	8.13	333
100	KK-152HP		10	36.5	47.5	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	698
200	L-152HP		11.25	35.92	48.29	5.06	3.09	4.5	6	8.25	5	4.81	6.38	13.5	885
300	M-152HP		14	44.2	59.2	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

EYE TO CLEVIS - TYPE 251HP, STAINLESS STEEL

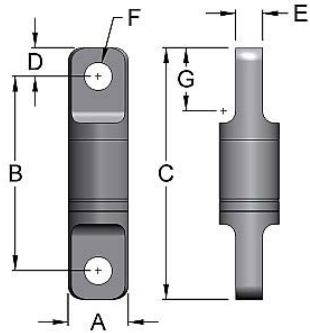


WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.75	BB-251HP	1/4	1.31	4.69	5.56	.31	0.22	.38	0.44	0.56	.31	.39	.44	0.94	1
1.5	B-251HP	3/8	1.63	5	6.31	0.5	0.31	.5	0.68	0.78	0.5	.66	.63	1.34	2
3	C-251HP	1/2	2	7.31	9.31	0.75	0.38	.75	0.94	1.19	0.75	.91	1	1.94	5
5	D-251HP	5/8	2.5	9.13	11.44	1	0.56	.88	1.13	1.56	1	1.28	1.19	2.5	10
8.5	EE-251HP	3/4	3	10.25	13.09	1.56	0.53	1.19	1.34	2.09	1.25	1.41	1.5	3.13	16
15	GG-251HP	1	4	15.25	19.13	1.75	0.81	1.5	1.75	3.5	2	2.03	2.13	4.91	43
35	HH-251HP	1 1/2	5	18.19	22.94	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	80
45	I-251HP		6	22.56	28.56	2.5	1.25	2.25	3	4	2.5	2.53	3	7	149
60	JJ-251HP		7	24	31	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	233
75	K-251HP		8	27	35	3.5	1.75	3	4	5	3.5	3.03	4	8.25	333
100	KK-251HP		10	36.5	47.5	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	731
200	L-251HP		11.25	35.93	48.31	5.06	3.09	4.5	6	8.25	5	4.81	6.38	13.5	885
300	M-251HP		14	44.2	59.2	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

SWIVELS- HYDRO LINK\HP, HIGH PRESSURE, STAINLESS STEEL

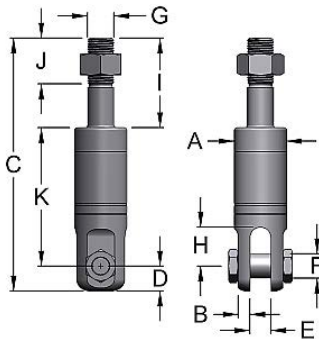
EYE TO EYE - TYPE 252HP, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.75	BB-252HP	1/4	1.31	4.94	5.88	.44	0.31	.39	0.94	1
1.5	B-252HP	3/8	1.63	5	6.25	.69	0.5	.66	1.34	2
3	C-252HP	1/2	2	7.31	9.31	1	0.75	.91	1.94	5
5	D-252HP	5/8	2.5	9.06	11.44	1.19	1	1.28	2.5	10
8.5	EE-252HP	3/4	3	10.13	13.06	1.5	1.25	1.41	3.13	16
15	GG-252HP	1	4	15.13	19.38	2.13	2	2.03	4.91	43
35	HH-252HP	1 1/2	5	18.19	22.94	2.38	2.25	2.31	5.25	79
45	II-252HP		6	22.56	28.56	3	2.5	2.53	7	142
60	JJ-252HP		7	24	31	3.5	2.94	2.88	7	231
75	K-252HP		8	27	35	4	3.5	3.38	8.25	340
100	KK-252HP		10	36.5	47.5	5.5	4.5	4.03	11.38	704
200	L-252HP		11.25	35.56	48.31	6.38	5	4.81	13.5	875
300	M-252HP		14	43.2	59.2	8	6	6.06	17	1600

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

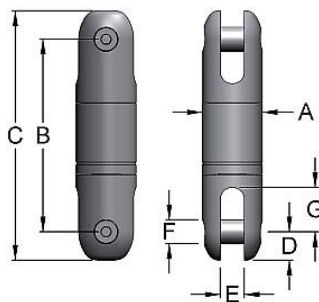
STUD TO CLEVIS - TYPE 351HP, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	Weight Lbs.
0.75	BB-351HP	1/4	1.31	0.22	5.81	.44	0.31	.38	0.63	0.56	2	1.5	4.38	1
1.5	B-351HP	3/8	1.63	0.31	7	.69	0.5	.5	0.75	0.78	2	1.5	4.31	2
3	C-351HP	1/2	2	0.38	10.44	.88	0.75	.75	0.88	1.19	3	2.63	5.25	5
5	D-351HP	5/8	2.5	0.56	11.19	1.13	1	.88	1.25	1.56	3.5	3.13	6.56	11
8.5	EE-351HP	3/4	3	0.53	13.78	1.34	1.56	1.19	1.5	2.09	4	3	8.44	15
15	GG-351HP	1	4	0.81	18.69	1.75	1.75	1.5	2	3.5	5.5	3	11.44	40
35	HH-351HP	1 1/2	5	1.13	25.56	2.38	2	2	2.5	3.69	8.5	4.25	14.69	84
45	II-351HP		6	1.25	28	3	2.5	2.25	3	4	8	4	17	141
60	JJ-351HP		7	1.5	31.5	3.5	3	2.5	3.25	4.5	8	4	20	219
75	K-351HP		8	1.75	36.5	4	3.5	3	3.75	5	10	5	22.5	295
100	KK-351HP		10	2	54.75	5.5	4.06	4	6.5	6.75	20.5	7.25	28.75	699

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

BULLET NOSE TO BULLET NOSE - TYPE 454HP, STAINLESS STEEL



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.75	BB-454HP	1/4	1.31	4.88	5.63	.44	0.31	.38	0.56	1
1.5	B-454HP	3/8	1.63	5	6.25	.56	0.5	.44	0.81	2
3	C-454HP	1/2	2	6.5	8.13	.81	0.75	.63	0.94	4
5	D-454HP	5/8	2.5	9.25	11.38	1.13	1	.88	1.56	9
8.5	EE-454HP	3/4	3	10.56	13.13	1.25	1.28	1	2.13	16
15	GG-454HP	1	4	15	18.5	1.75	1.75	1.5	3.25	42
35	HH-454HP	1 1/2	5	18.16	22.91	2.38	2	2	3.69	87

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

MILLER CUSTOM SWIVELS



CUSTOM Y-LINK SWIVEL QUOTE REQUEST

Requestor

Name: _____ Date: _____ Quantity _____
 Company: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ E-mail: _____

SWIVEL CONFIGURATION

CAP

CLEVIS__ EYE__ STUD__ BULLET__ SOCKET__ THIMBLE__ WEDGE__ HOOK__ EYEBOLT__

BARREL

STANDARD__ HEAVY DUTY__ HIGH PRESSURE__

SHANK

CLEVIS__ EYE__ STUD__ BULLET__ HOOK__ EYE BOLT__

SWIVEL MATERIAL

STANDARD__ STAINLESS STEEL__

SWIVEL CAPACITY & DIMENSIONS, WIRE ROPE

WORKING CAPACITY (LOAD LIMIT) _____
 (INDICATE US / METRIC TONS)

DESIGN FACTOR _____ WIRE ROPE SIZE _____

CLEVIS DIMENSIONS A _____ B _____ C _____

D _____

EYE DIMENSIONS E _____ F _____ G _____

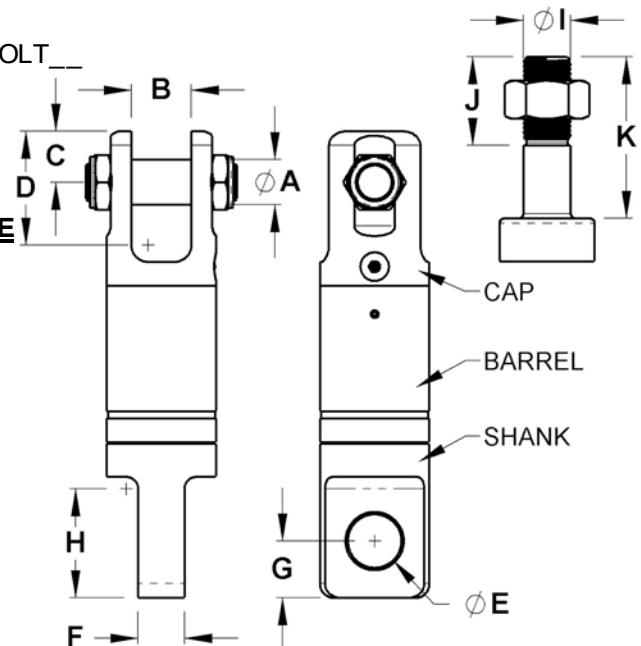
H _____

STUD DIMENSIONS I _____ J _____ K _____

OTHER REQUIEMENTS

ENVIRONMENT _____

SPECIAL TESTING, THIRD PARTY INSPECTION, ETC:



Miller Lifting Products

100A Sturbridge Rd.

Charlton, MA USA 01507

Tel.: (508) 248-3941 / Fax: (508) 248-0639

E-mail: sales@millerproducts.net

www.millerproducts.net

SWIVELS- PENGOMILLER, FOR LINE STRINGING



PENGO-MILLER Swivels



90 degree connectors

- The original PENGOMILLER tension line stringing swivels and 90° connectors.
- Designed specifically for horizontal pulling of tension lines and passage over sheaves, overhead or through conduit.
- Swivels have Working Loads up to 100,000 lbs. with a 3:1 design factor.
- Equipped with low friction angular contact ball bearings.
- Machined, heat treated from solid forged alloy steel bar. Single-piece shank.
- Zinc plating inside and out for effective protection against corrosion.
- Hex socket pins are standard. Optional slotted pins available for sizes A thru D.
- Factory lubricated and sealed with neoprene seals.
- 90° Connectors permit limited movement of connected cables in two perpendicular planes. Short, bullet shape accommodates passage through blocks. Mean Breaking Load up to 150,000 lbs.
- Order spare pins by type (hex or slotted), and by model number of the swivel or connector. For example, "two hex pins for A-13-L" or "two slotted pins for B-13-L-SL".



Green Dot = Proof Load Tested

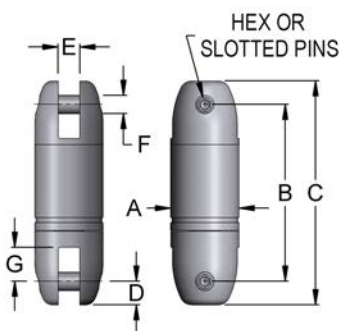
NEW

PROOF LOAD TESTED

All swivel models A-13-L, BB-13-L and B-13-L are individually proof load tested to 120% of their working load limit as indicated by a green proof test marking. Test certificates available. Other sizes tested upon request.

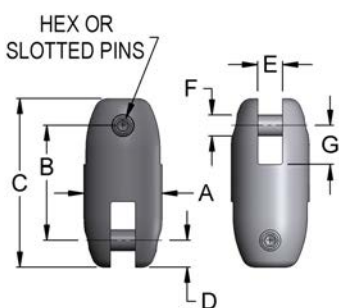
Safety Note: These swivels are designed for straight line pulling and will not support side loads as would be encountered traveling over a bull wheel. Miller line stringing swivels are not intended for general lifting applications. Swivel selection should be based on pulling line diameter, grip size, opening dimensions, pin sizes, working load, and sheave groove diameter. For general lifting applications, see Miller Y-Link and Miller Econo-Link Swivels.

LINE STRINGING SWIVELS



Model # Hex Pin	Model # Slotted Pin	WLL* Lbs.	A	B	C	D	E	F	G	Weight Lbs.
A13L	A13L-SL	1,800	.875	2.34	3.09	0.375	0.31	.31	0.47	0.38
BB13L	BB13L-SL	4,000	1.25	3.66	4.51	0.44	0.59	.38	0.69	1
B13L	B13L-SL	7,500	1.44	4	5.13	0.56	0.59	.44	0.81	1.38
C13L	C13L-SL	10,000	1.875	5.44	7.06	0.81	0.75	.62	0.94	3.63
D13L	D13L-SL	16,000	2.44	7.88	10.19	1.125	1	.88	1.56	8
EE13L	N/A	25,000	2.875	9.81	12.31	1.25	1.28	1	2.13	15
D13-4BL	N/A	30,000	2.5	8.91	11.16	1.125	1	.88	1.56	9
GG13L	N/A	50,000	3.875	13.25	16.75	1.75	1.75	1.5	3.5	40
HH13L	N/A	100,000	4.875	15.81	20.56	2.375	2	2	3.69	78

90° CONNECTORS



Model # Hex Pin	Model # Slotted Pin	MBL Lbs.	ROPE	A	B	C	D	E	F	G	Weight Lbs.
PL 1/4	PL 1/4-SL	5,400	1/4	.88	1.31	2.06	.38	0.31	.31	0.47	0.19
PL 3/8	PL 3/8-SL	12,000	3/8	1.25	1.75	2.63	.44	0.59	.38	0.69	0.38
PL 1/2	PL 1/2-SL	22,500	1/2	1.44	2.13	3.25	.56	0.59	.44	0.81	0.69
PL 5/8	PL 5/8-SL	30,000	5/8	1.88	2.5	4.13	.81	0.75	.62	0.94	1.69
PL 3/4	PL 3/4-SL	60,000	3/4	2.44	3.38	5.63	1.13	1	.88	1.31	3.75
PL 7/8	N/A	75,000	7/8	2.63	3.88	6.38	1.25	1	1	1.5	6.5
PL 1	N/A	150,000	1	3.88	8	11.5	1.75	1.75	1.5	3.5	18.5