

LIFTING POINTS

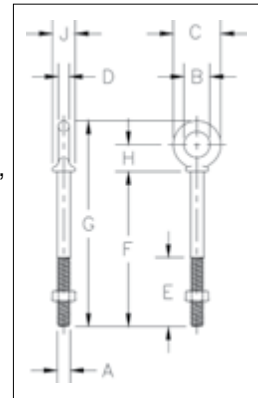
A wide range of high-quality lifting points for every application.



G-277



- Forged steel, Quenched & Tempered.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Working Load Limits shown are for in-line pull. For angle loading, see applications and warning section.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these bolts meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- All bolts hot-dip galvanized after threading (UNC).
- Furnished with standard hot-dip galvanized, heavy hex nuts.



G-277 Shoulder Nut Eye Bolts

Shank Diameter & Length (in)	Stock No.	Working Load Limit (lb)	Weight Each (lb)	Dimensions (in)									
				A	B	C	D	E	F	G	H	J	
5/16 x 2-1/4	1045050	1200	0.13	.31	.62	1.12	.25	1.50	2.25	3.50	.69	.56	
5/16 x 4-1/4	1045078	1200	0.19	.31	.62	1.12	.25	2.50	4.25	5.50	.69	.56	
3/8 x 2-1/2	1045096	1550	0.21	.38	.75	1.38	.31	1.50	2.50	3.97	.78	.66	
3/8 x 4-1/2	1045112	1550	0.25	.38	.75	1.38	.31	2.50	4.50	5.97	.78	.66	
1/2 x 3-1/4	1045130	2600	0.43	.50	1.00	1.75	.38	1.50	3.25	5.12	1.00	.91	
1/2 x 6	1045158	2600	0.57	.50	1.00	1.75	.38	3.00	6.00	7.88	1.00	.91	
5/8 x 4	1045176	5200	0.69	.62	1.25	2.25	.50	2.00	4.00	6.44	1.31	1.12	
5/8 x 6	1045194	5200	1.02	.62	1.25	2.25	.50	3.00	6.00	8.44	1.31	1.12	
3/4 x 4-1/2	1045210	7200	1.45	.75	1.50	2.75	.62	2.00	4.50	7.44	1.56	1.38	
3/4 x 6	1045238	7200	1.68	.75	1.50	2.75	.62	3.00	6.00	8.94	1.56	1.38	
7/8 x 5	1045256	10600	2.25	.88	1.75	3.25	.75	2.50	5.00	8.46	1.84	1.56	
1 x 6	1045292	13300	3.66	1.00	2.00	3.75	.88	3.00	6.00	9.97	2.09	1.81	
1 x 9	1045318	13300	4.23	1.00	2.00	3.75	.88	4.00	9.00	12.97	2.09	1.81	
1-1/4 x 8	1045336	21000	6.50	1.25	2.50	4.50	1.00	4.00	8.00	12.72	2.47	2.28	
1-1/4 x 12	1045354	21000	7.95	1.25	2.50	4.50	1.00	4.00	12.00	16.72	2.47	2.28	
1-1/2 x 15	1045372	24000	14.25	1.50	3.00	5.50	1.25	6.00	15.00	20.75	3.00	2.75	

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.

Fatigue Rated

QT

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APPLICATION AND WARNING INFORMATION
SECTION 17



S-276 Shoulder Rivet Eye Bolts

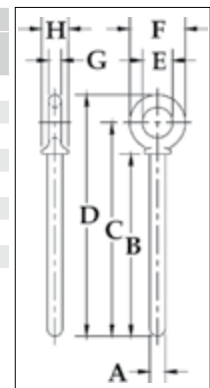
- Forged steel - Quenched & Tempered.

Shank Dia. & Length (in)	Stock No.	Weight Per 100 (lb)	Dimensions (in)									
			A	B	C	D	E	F	G	H		
1/2 x 3-1/4	1045862	33.00	.50	3.25	4.25	5.12	1.00	1.75	.38	.91		
3/4 x 4-1/2	1045942	125.00	.75	4.50	6.06	7.44	1.50	2.75	.62	1.38		
3/4 x 6	1045960	150.00	.75	6.00	7.56	8.94	1.50	2.75	.62	1.38		
7/8 x 5	1045988	200.00	.88	5.00	6.84	8.46	1.75	3.25	.75	1.56		
1 x 6	1046022	298.00	1.00	6.00	8.09	9.97	2.00	3.75	.88	1.81		
1 x 9	1046040	425.00	1.00	9.00	11.09	12.97	2.00	3.75	.88	1.81		
1-1/4 x 8	1046068	654.00	1.25	8.00	10.47	12.72	2.50	4.50	1.00	2.28		
1-1/4 x 12	1046086	712.00	1.25	12.00	14.47	16.72	2.50	4.50	1.00	2.28		
1-1/2 x 15	1046102	1425.00	1.50	15.00	18.00	20.75	3.00	5.50	1.25	2.75		

QUIC-CHECK®

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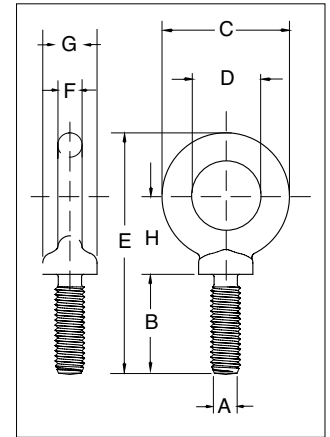
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S-279 / M-279



- Forged steel - Quenched & Tempered.
- Working Load Limits shown are for in-line pull. For angle loading, see Warnings & Applications.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Recommended for in-line pull.
- S-279 threaded UNC.
- M-279 metric threaded.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



S-279 UNC Shoulder Type Machinery Eye Bolts

Size (in)	Stock No.	Working Load Limit (lb)	Weight Per 100 (lb)	Dimensions (in)							
				A* Thread	B	C	D	E	F	G	H
3/8 x 1-1/4	9900208	1550	15.00	3/8 - 16	127	162	1.00	3.07	.31	.69	1.05
1/2 x 1-1/2	9900217	2600	28.00	1/2 - 13	153	195	1.19	3.70	.38	.91	1.27
5/8 x 1-3/4	9900226	5200	55.00	5/8 - 11	179	238	1.38	4.45	.50	1.13	1.53
3/4 x 2	9900235	7200	96.00	3/4 - 10	205	276	1.50	5.07	.63	1.38	1.71
7/8 x 2-1/4	9900244	10600	154.00	7/8 - 9	231	325	1.75	5.87	.75	1.56	2.00
1 x 2-1/2	9900253	13300	238.00	1 - 8	257	376	2.00	6.66	.88	1.81	2.30
1-1/8 x 2-3/4	9900257	15000	320.00	1-1/8 - 7	275	419	2.25	7.20	.97	2.06	2.35
1-1/4 x 3	9900262	21000	399.00	1-1/4 - 7	309	450	2.50	7.95	1.00	2.28	2.73
1-1/2 x 3-1/2	9900271	24000	720.00	1-1/2 - 6	360	550	3.00	9.49	1.25	2.75	3.28
1-3/4 x 3-3/4	9900280	34000	1040.00	1-3/4 - 5	375	626	3.50	10.48	1.38	3.00	3.60
2 x 4	9900289	42000	1880.00	2 - 4-1/2	400	762	4.00	12.31	1.81	3.38	4.50
2-1/2 x 5	9900298	65000	3250.00	2-1/2 - 4	500	876	4.50	14.88	2.12	4.25	5.50

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. *All bolts threaded UNC.

Fatigue Rated

QT

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APPLICATION AND WARNING INFORMATION
SECTION 17

11

M-279 Metric Shoulder Type Machinery Eye Bolts

Size (mm)	Stock No.	Working Load Limit (kg)	Weight Each (kg)	Dimensions (mm)							
				A* Thread	B	C	D	E	F	G	H
M6 x 13	1045753	200	.03	M6 x 1.0	13.0	28.7	19.1	47.0	4.9	13.5	19.6
M8 x 13	1045789	400	.05	M8 x 1.25	13.0	35.1	22.4	54.6	6.4	15.0	24.1
M10 x 17	1045833	640	.07	M10 x 1.5	170	41.1	25.4	64.3	7.9	17.5	26.5
M12 x 20.5	1045869	1000	.11	M12 x 1.75	20.5	49.5	30.2	77.7	9.7	23.1	32.8
M16 x 27	1045913	1800	.25	M16 x 2.0	270	60.5	35.1	96.0	12.7	28.7	38.9
M20 x 30	1045995	2500	.42	M20 x 2.5	30.0	70.0	38.1	108	16.0	35.1	43.4
M24 x 36	1046029	4000	1.05	M24 x 3.0	36.0	95.5	51.0	142	22.4	46.0	58.4
M27 x 69.8	1046038	5000	1.42	M27 x 3.0	69.8	107	57.1	183	24.6	52.3	59.7
M30 x 45	1046075	6000	1.77	M30 x 3.5	45.0	114	63.5	171	25.4	58.0	69.3
M36 x 54	1046109	8500	3.12	M36 x 4.0	54.0	140	76.0	207	31.8	70.0	83.3
M42 x 95.2	1046118	14000	4.58	M42 x 4.5	95.2	159	88.9	266	35.0	76.2	91.4
M48 x 102	1046127	17300	8.71	M48 x 5.0	102	194	101	313	46.0	85.9	114
M64 x 127	1046136	29500	14.74	M64 x 6.0	127	223	114	378	53.8	108	140

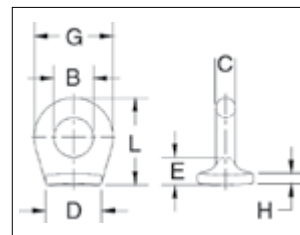
5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.

QT

S-264



- Forged steel - Quenched & Tempered.
- Forged from 1035 carbon steel.
- Excellent welding qualities.
- Widely used on farm machinery, trucks, steel hulled marine vessels and material handling equipment.
- Reference American Welding Society specifications for proper welding procedures.



S-264 Pad Eyes

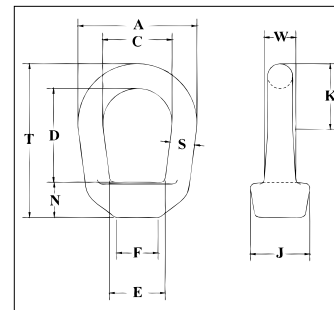
Size No.	Stock No.	Weight Per 100 (lb)	Dimensions (in)						
			B	C	D	E	G	H	L
* 0	1090722	2.80	.25	.19	.63	.31	.63	.09	.75
* 1	1090740	6.50	.38	.25	.88	.41	.88	.13	1.03
* 1-1/2	1090768	10.40	.63	.25	1.00	.44	1.13	.16	1.31
2	1090786	21.10	.75	.38	1.06	.50	1.50	.19	1.63
4	1090802	52.20	1.00	.56	1.44	.78	2.13	.22	2.34
5	1090820	82.50	1.25	.69	1.75	.81	2.63	.25	2.75

*Meets the requirements of Military Specification MS-51930A.

G-400



- Forged steel - Quenched & Tempered.
- Hot-dip galvanized
- Tapped with standard UNC class 2 threads after galvanizing.
- Also available in blank (as forged) item (S-4028).
- Meets or exceeds all requirements of ASME B30.26.



G-400 Eye Nuts

Size No.	"S" Stock Size (in)	Stock No	Std. Tap Size (in)	Working Load Limit (lb)	Weight Each (lb)	Dimensions (in)									
						A	C	D	E	F	J	K	N	T	W
1	.25	1090438	1/4	520	.09	1.25	.75	1.00	.75	.50	.69	.63	.38	1.72	.31
2	.31	1090474	3/8	1250	.17	1.62	1.00	1.20	.83	.56	.81	.89	.50	2.09	.41
3A	.38	1090517	1/2	2250	.28	2.00	1.25	1.44	1.08	.81	1.00	1.09	.62	2.55	.50
4	.50	1090535	5/8	3600	.60	2.50	1.50	1.92	1.35	1.00	1.31	1.31	.69	3.25	.69
5	.63	1090553	3/4	5200	1.00	3.00	1.75	2.38	1.59	1.12	1.50	1.57	.88	3.89	.84
6	.75	1090571	7/8	7200	1.65	3.50	2.00	2.63	1.96	1.38	1.88	1.77	.94	4.32	1.00
7	.88	1090599	1	10000	2.69	4.00	2.25	3.06	2.21	1.56	2.13	2.02	1.07	5.01	1.19
8	1.00	1090633	1-1/4	15500	4.38	4.50	2.50	3.50	2.46	1.88	2.38	2.27	1.25	5.78	1.38
9	1.13	1090651	1-3/8	18500	5.00	5.00	2.75	4.00	2.69	2.00	2.56	2.53	1.38	6.51	1.50
10	1.25	1090679	1-1/2	22500	6.78	5.62	3.12	4.31	3.09	2.25	3.00	2.82	1.50	7.06	1.66
11	1.50	1090697	2	40000	14.60	7.12	4.10	6.20	4.09	3.13	3.75	3.68	2.06	9.91	1.94

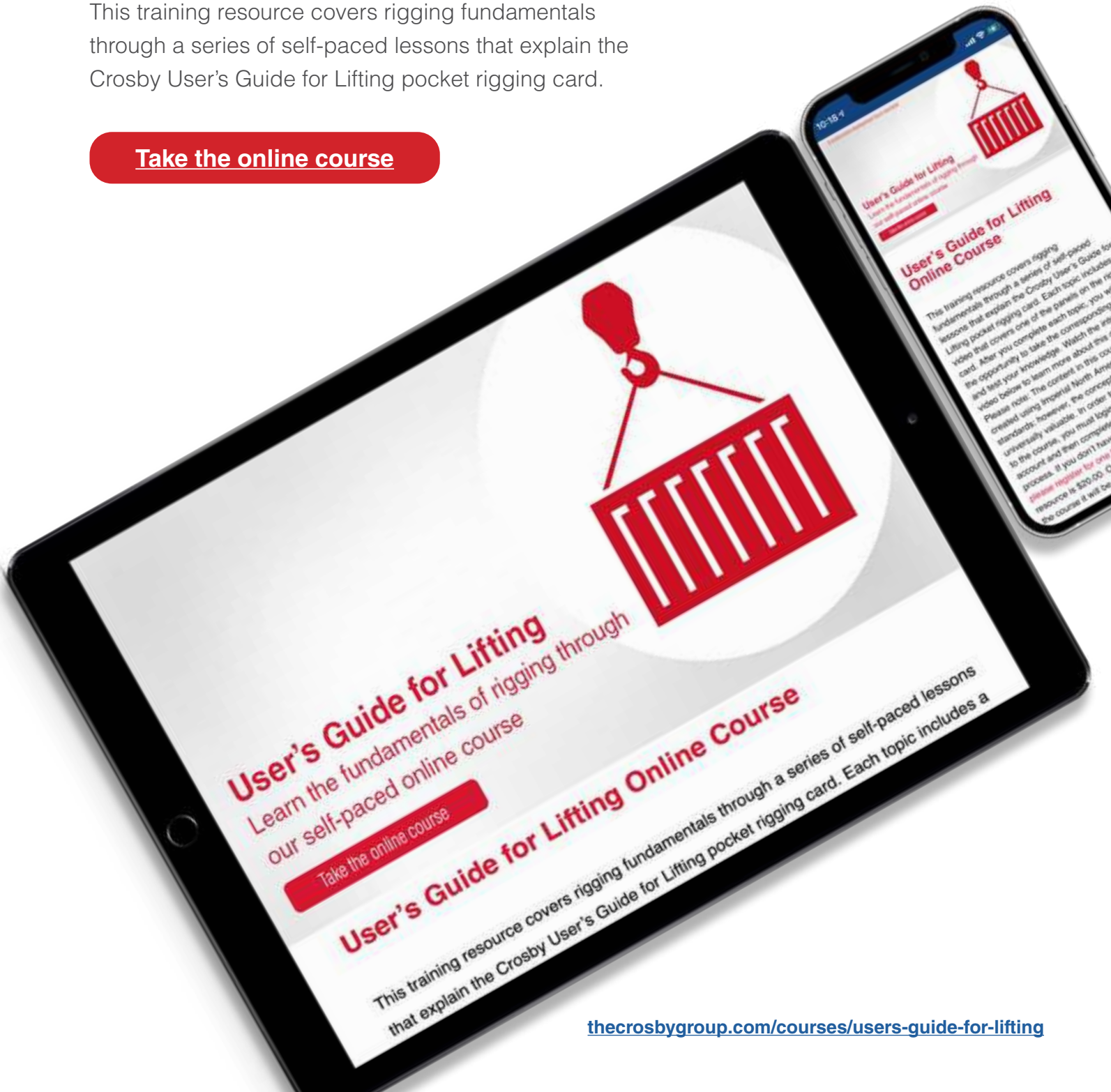
5:1 Design Factor. Working Load Limit shown is for In-Line pull. Rating based on standard tap size.



User's Guide for Lifting Online Course

This training resource covers rigging fundamentals through a series of self-paced lessons that explain the Crosby User's Guide for Lifting pocket rigging card.

[Take the online course](#)



Swivel Hoist Ring



HR-125M
Swivel Hoist Ring

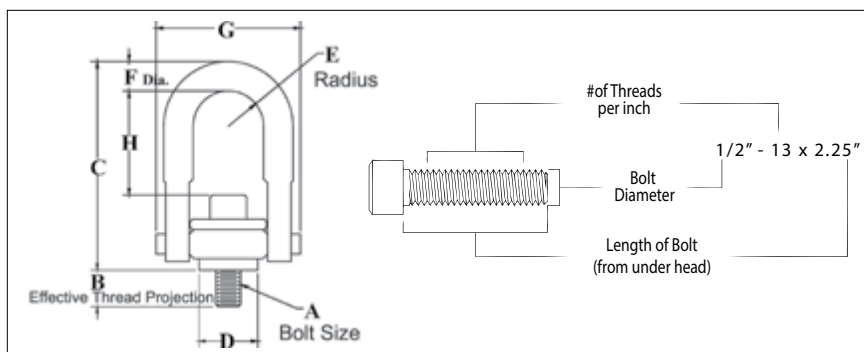
Color coded to distinguish between UNC (Red) and Metric (Silver) thread types.



HR-125
Swivel Hoist Ring

- Available in UNC and Metric thread sizes.
- UNC threads available in sizes from 800 pounds to 100,000 pounds Working Load Limit, with a design factor of 5 to 1.
- Metric threads available in sizes from 400kg to 16,900kg and dual rated in both a 4 to 1 and 5 to 1 design factor.
- All components are alloy steel - Quenched & Tempered.
- Designed to be used at full WLL within angular loading range.
- 100% individually proof tested to 2-1/2 times the Working Load Limit with certification and Statistically Magnetic Particle inspected. (Can be furnished 100% Magnetic Particle inspected when requested at time of order.)
- Each product has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby or "CG" stamped into it.
- 360° swivel and 180° pivot action.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Individually packaged along with proper application instructions and warning information.
- Bolt is secured with E-clip, threads are grooved. This method allows for easy disassembly and assembly of hoist ring for thorough examination of all components. Replacement kits are available.
- Bolts are individually Proof Tested.
- Multiple bolt length available to meet specific application requirements.
- Zinc plated (yellow chromate) finish for increased corrosion protection.
- Meets or exceeds all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these hoist rings meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

HR-125



- Top washer has the following features:
 - The Working Load Limit and recommended torque value are permanently stamped into each washer.
 - Washer is color-coded for easy identification: Red - UNC thread.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- Bolt specification is an alloy socket head cap screw to ASTM A 574.
- All threads listed are UNC.
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

HR-125 UNC Threads

Frame Size No.	Stock No.	Working Load Limit (lb)	Torque in ft-lb	Dimensions (in)								Weight Each (lb)
				Bolt Size A	Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
1 †	1016887	800	7	5/16 - 18 x 1.50	.58	2.72	.97	.46	.34	1.87	1.12	.37
1 †	1016898	1000	12	3/8 - 16 x 1.50	.58	2.72	.97	.46	.34	1.87	1.05	.39
2	1016909	2500	28	1/2 - 13 x 2.00	.70	4.85	1.96	.87	.75	3.35	2.29	2.33
2 †	1016912	2500	28	1/2 - 13 x 2.50	1.20	4.85	1.96	.87	.75	3.35	2.29	2.36
2	1016920	4000	60	5/8 - 11 x 2.00	.70	4.85	1.96	.87	.75	3.35	2.16	2.41
2 †	1016924	4000	60	5/8 - 11 x 2.75	1.45	4.85	1.96	.87	.75	3.35	2.16	2.47
2	1016931	5000	100	3/4 - 10 x 2.25	.95	4.85	1.96	.87	.75	3.35	2.04	2.52
2 †	1016935	5000	100	3/4 - 10 x 2.75	1.45	4.85	1.96	.87	.75	3.35	2.04	2.59
3	1016942	7000*	100	3/4 - 10 x 2.75	.89	6.57	2.96	1.36	.94	4.87	2.97	6.72
3 †	1016946	7000*	100	3/4 - 10 x 3.50	1.64	6.57	2.96	1.36	.94	4.87	2.97	6.81
3	1016953	8000	160	7/8 - 9 x 2.75	.89	6.57	2.96	1.36	.94	4.87	2.84	6.84
3 †	1016957	8000	160	7/8 - 9 x 3.50	1.64	6.57	2.96	1.36	.94	4.87	2.84	6.96
3	1016964	10000	230	1 - 8 x 3.00	1.14	6.57	2.96	1.36	.94	4.87	2.72	7.09
3 †	1016969	10000	230	1 - 8 x 4.00	2.14	6.57	2.96	1.36	.94	4.87	2.72	7.31
4	1016975	15000	470	1-1/4 - 7 x 4.50	2.21	8.72	3.71	1.75	1.19	6.18	3.93	14.51
5	1016986	24000	800	1-1/2 - 6 x 6.75	3.00	12.55	4.71	2.39	1.75	8.48	5.52	37.73
5	1016997	30000	1100	2 - 4-1/2 x 6.75	3.00	12.55	4.71	2.39	1.75	8.48	5.02	40.69
6	1017001	50000	2100	2-1/2 - 4 x 8.0	4.00	16.88	5.75	3.00	2.25	11.00	8.03	88.00
7	1017005	75000	4300	3 - 4 x 10.5	5.00	19.50	6.45	3.75	2.75	14.16	8.50	166.00
8	1017009	100000	5100	3-1/2 - 4 x 13.0 #	7.00	22.09	7.75	4.00	3.25	15.91	9.28	265.00

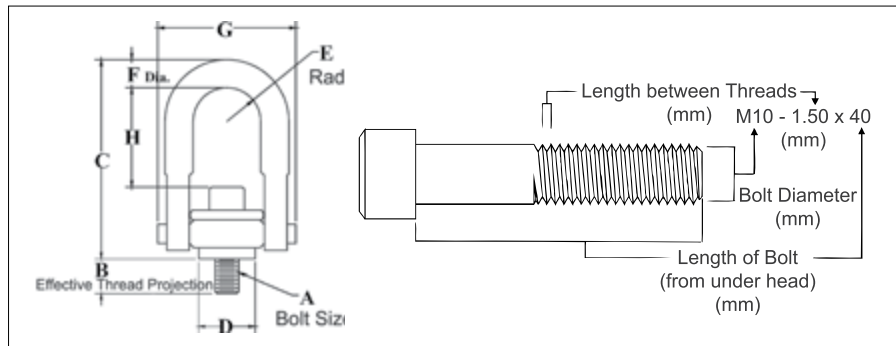
5:1 Design Factor. *4:1 Design Factor when tested in 90 degree orientation. †Long Bolts are designed to be used with soft metal (i.e., aluminum) workpiece. While the long bolts may also be used with ferrous metal (i.e., steel & iron) workpiece, short bolts are designed for ferrous workpieces only. Hex head bolt used on Frame 8 (100,000 lb) Hoist Ring.

Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION
SECTION 17

HR-125M

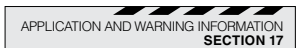


- Top washer has the following features:
 - The Working Load Limit and recommended torque value are permanently stamped into each washer.
 - Washer is color-coded for easy identification: Silver - Metric thread.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- Bolt specification is a Grade 12.9 alloy socket head cap screw to DIN 912. All threads listed are metric (ASME B18.3.1m).
- Designed to be used with ferrous workpiece only.
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

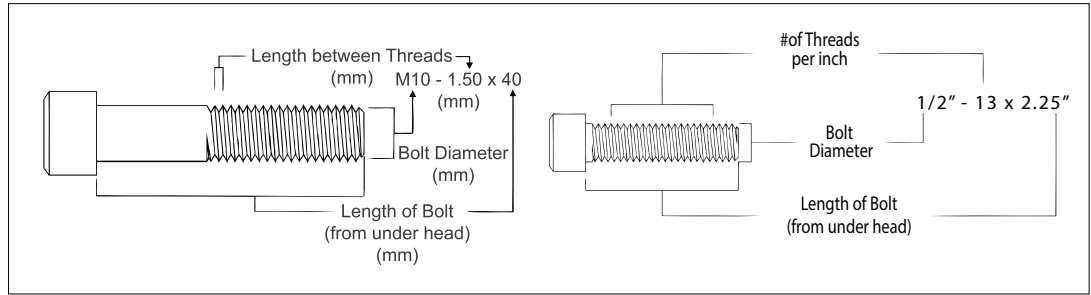
HR-125M Metric Threads

Frame Size No.	Stock No.	Working Load Limit (kg)		Torque in Nm	Dimensions (mm)								Weight Each (kg)
		At a 5:1 Design Factor †	At a 4:1 Design Factor †		Bolt Size A	Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
1	1016602	400	500	10	M8X1.25X40	16.9	69.9	24.6	11.8	8.5	47.5	29.9	.17
1	1016613	450	550	16	M10X1.50X40	16.9	69.9	24.6	11.8	8.5	47.5	28.1	.18
2	1016624	1050	1300	38	M12X1.75X50	16.9	123	49.8	22.3	17.5	85.1	60.4	1.05
2	1016635	1900	2400	81	M16X2.00X60	26.9	123	49.8	22.3	17.5	85.1	56.3	1.11
2	1016644	2150	2700	136	M20X2.50X65	31.9	123	49.8	22.3	17.5	85.1	52.3	1.17
3	1016657	3000	3750	136	M20X2.50X75	27.8	167	75.2	34.7	25.4	124	76.6	3.09
3	1016668	4200	5250	312	M24X3.00X80	32.8	167	75.2	34.7	25.4	124	70.5	3.21
4	1016679	7000	8750	637	M30X3.50X120	61.7	222	94.2	44.5	30.5	157	102	6.53
5	1016690	11000	13750	1005	M36X4.00X150	54.0	318	120	60.7	44.5	215	142	16.8
5	1016701	12500	15600	1005	M42X4.50X160	64.0	318	120	60.7	44.5	215	136	17.4
5	1016712	13500	16900	1350	M48X5.00X160	74.0	318	120	60.7	44.5	215	130	18.0

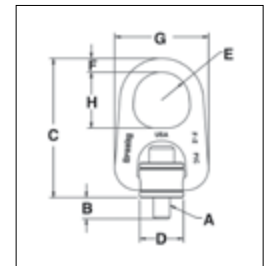
† Individually proof loaded to 2-1/2 times the Working Load Limit based on the 4:1 design factor.



HR-1000



- Forged bail provides the following:
 - Easily readable raised lettering showing the name Crosby or "CG" and PIC for material traceability.
 - Greater durability providing the increased "Toughness" desired in potentially abusive field conditions.
 - Larger opening than standard hoist ring bail.
- Top washer is color-coded for easy identification (Red for UNC threads and Silver for Metric threads)
- The Working Load Limit and recommended torque value are permanently stamped into each washer.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- Available in both UNC thread and Metric thread style.
- UNC bolt specification is an alloy socket head cap screw to ASTM A 574. Metric bolt specification is a Grade 12.9 alloy socket head cap screw to DIN 912.
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing. Illustration shows meaning of each dimension given.



HR-1000 UNC Threads

Frame Size No.	Stock No.	Working Load Limit (lb)	Torque in Ft. Lbs	Dimensions (in)								Weight Each (lb)
				Bolt Size A	Eff. Thread Projection Length B	C	D	Radius E	F	G	H	
1	1068002	800	7	5/16 - 18 x 1.50	.52	3.69	.97	.62	.44	2.27	1.38	.60
1	1068006	1000	12	3/8 - 16 x 1.50	.52	3.69	.97	.62	.44	2.27	1.38	.62
2	1068010	2500	28	1/2 - 13 x 2.25	.69	6.26	1.96	1.25	.75	4.20	2.50	3.05
2 †	1068014	2500	28	1/2 - 13 x 2.75	1.19	6.26	1.96	1.25	.75	4.20	2.50	3.07
2	1068018	4000	60	5/8 - 11 x 2.25	.69	6.26	1.96	1.25	.75	4.20	2.50	3.11
2 †	1068022	4000	60	5/8 - 11 x 3.00	1.44	6.26	1.96	1.25	.75	4.20	2.50	3.18
2	1068026	5000	100	3/4 - 10 x 2.50	.94	6.26	1.96	1.25	.75	4.20	2.50	3.24
2 †	1068030	5000	100	3/4 - 10 x 3.00	1.44	6.26	1.96	1.25	.75	4.20	2.50	3.30
3	1068034	7000*	100	3/4 - 10 x 3.00	.85	8.66	2.96	1.63	1.00	6.25	3.25	10.09
3 †	1068038	7000*	100	3/4 - 10 x 3.50	1.35	8.66	2.96	1.63	1.00	6.25	3.25	10.21
3	1068042	8000	160	7/8 - 9 x 3.00	.85	8.66	2.96	1.63	1.00	6.24	3.25	10.21
3 †	1068046	8000	160	7/8 - 9 x 3.50	1.35	8.66	2.96	1.63	1.00	6.24	3.25	10.40
3	1068050	10000	230	1 - 8 x 3.50	1.35	8.66	2.96	1.63	1.00	6.24	3.25	10.50
3 †	1068054	10000	230	1 - 8 x 4.50	2.35	8.66	2.96	1.63	1.00	6.24	3.25	10.72
4	1068058	15000	470	1-1/4 - 7 x 5.00	2.09	11.21	3.71	2.00	1.25	7.82	4.00	21.90
4	1068062	24000	800	1-1/2 - 6 x 5.50	2.59	11.21	3.71	2.00	1.44	7.82	4.00	23.00

5:1 Design Factor. *4.5:1 Design Factor when tested in 90 degree orientation. †Long Bolts are designed to be used with soft metal (i.e., aluminum) workpiece.

HR-1000M Metric Threads

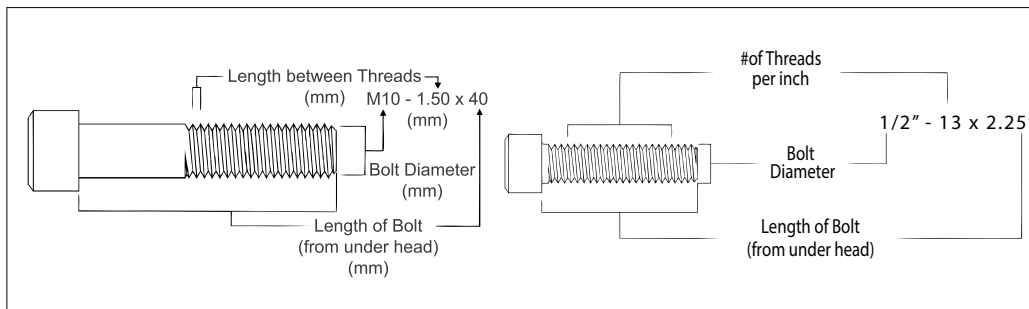
Frame Size No.	Stock No.	Working Load Limit (kg)		Torque in Nm	Dimensions (mm)								Weight Each (kg)
		At a 5:1 Design Factor*	At a 4:1 Design Factor*		Bolt Size A	Eff. Thread Projection Length B	C	D	Radius E	F	G	H	
1	1068307	400	500	10	M8 x 1.25 x 40	15.2	93.7	24.6	15.7	11.2	57.7	35.1	0.3
1	1068316	450	550	16	M10 x 1.50 x 40	15.2	93.7	24.6	15.7	11.2	57.7	35.1	0.3
2	1068325	1050	1300	38	M12 x 1.75 x 55	15.5	162	49.8	31.8	19.1	107	63.5	1.5
2	1068334	1900	2400	81	M16 x 2.00 x 65	25.5	162	49.8	31.8	19.1	107	63.5	1.5
2	1068343	2150	2700	136	M20 x 2.50 x 70	30.5	162	49.8	31.8	19.1	107	63.5	1.6
3	1068352	3000	3750	136	M20 x 2.50 x 80	25.4	220	75.2	41.4	25.4	159	82.6	4.6
3	1068361	4200	5250	312	M24 x 3.00 x 90	35.4	220	75.2	41.4	25.4	159	82.6	4.8
4	1068370	7000	8750	637	M30 x 3.50 x 140	66.2	285	94.2	50.8	31.8	199	102	9.7
4	1068389	11000	13750	1005	M36 x 4.00 x 130	56.2	285	94.2	50.8	31.8	199	102	10.2

*Individually proof loaded to 2-1/2 times the Working Load Limit based on the 4:1 Design Factor.

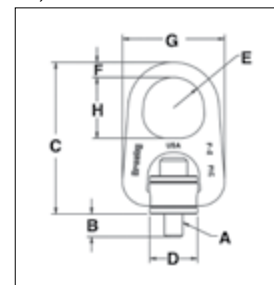
Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION
SECTION 17



- All load bearing components are heat treated, Quenched & Tempered alloy steel.
- All components, with the exception of the retaining ring, are produced with maximum material hardness of 34 HRC.
- All primary load-bearing components have Charpy impact testing. The body, bushing, washer and bail meet impact requirements of 31 ft-lb min. avg. at -4°F. The bolt meets impact requirements of 20 ft-lb min. avg. at -150°F.
- Individually magnetic particle inspected with certification.
- Forged bail provides the following:
 - Easily readable raised lettering showing the name Crosby or "CG" and PIC for material traceability.
 - Greater durability providing the increased toughness desired in potentially abusive field conditions.
 - Larger opening than standard hoist ring bail.
- Bolt specification is an alloy socket head cap screw to ASTM A320 Grade L7 or L43.
- Top washer is color-coded for easy identification (blue for UN threads and grey for Metric threads).
- The Working Load Limit and recommended torque value are permanently stamped into each washer.
- Individually Proof Tested to 2 times Working Load Limit (90° and in-line).
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.
- Type approval and certification in accordance with DNV Offshore Standard DNV-OS-E101, Drilling Plant, Standard for Certification DNVGL-ST-0378, Lifting Appliances, and DNVGL-SI-0166.
- Individually serialized.
- 100% MPI all primary load bearing components.
- Coating: Thermo-diffusion galvanized.
- Optional bolt sizes available upon request.



HR-1000CT UNC Threads

Frame Size No.	Stock No.	Working Load Limit (lb)	Torque (ft-lb)	Dimensions (in)								Mass Each (lb)
				Bolt Size A	Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
2	6608103	1900	28	1/2 - 13 x 2.25	0.70	6.32	1.96	1.25	0.75	4.20	2.50	3
2	6608112	1900	28	1/2 - 13 x 2.75	1.20	6.32	1.96	1.25	0.75	4.20	2.50	3
2	6608121	3000	60	5/8 - 11 x 2.25	0.70	6.32	1.96	1.25	0.75	4.20	2.50	3
3	6608130	4800	100	3/4 - 10 x 3.00	0.85	8.59	2.96	1.63	1.00	6.25	3.25	11
3	6608139	6200	160	7/8 - 9 x 3.00	0.85	8.59	2.96	1.63	1.00	6.25	3.25	11
3	6608148	8300	230	1 - 8 x 3.50	1.35	8.59	2.96	1.63	1.00	6.25	3.25	11
4	6608149	12500	470	1-1/4 - 7 x 5.00	2.10	11.31	3.71	2.00	1.44	8.13	4.00	24
4	6607669	20000	800	1-1/2 - 6 x 5.50	2.60	11.31	3.71	2.00	1.44	8.13	4.00	27
4	6607727	20000	800	1-1/2 - 8 x 5.50	2.60	11.31	3.71	2.00	1.44	8.13	4.00	27
5	6607670	28000	1100	2 - 4.5 x 7.50	3.20	15.15	4.00	2.69	1.75	11.64	5.00	69
6	6607671	45000	2100	2 1/2 - 4 x 9.50	3.73	19.93	5.75	3.00	2.75	14.47	5.62	157

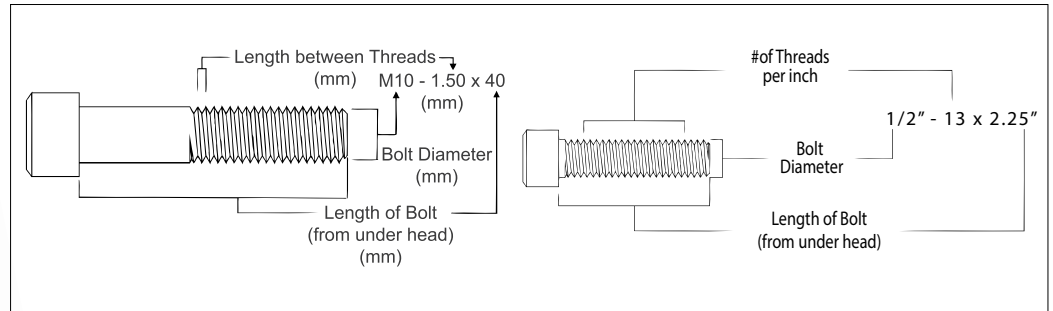
5:1 Design Factor.

Load Rated

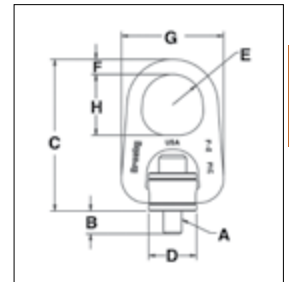
Fatigue Rated

APPLICATION AND WARNING INFORMATION
SECTION 17

HR-1000MCT



- All load bearing components are heat treated, Quenched & Tempered alloy steel.
- All components, with the exception of the retaining ring, are produced with maximum material hardness of 34 HRC.
- All primary load-bearing components have Charpy impact testing. The body, bushing, washer and bail meet impact requirements of 31 ft-lb min. avg. at -4°F. The bolt meets impact requirements of 20 ft-lb min. avg. at -150°F.
- Individually magnetic particle inspected with certification.
- Forged bail provides the following:
 - Easily readable raised lettering showing the name Crosby or "CG" and PIC Code for material traceability.
 - Greater durability providing the increased toughness desired in potentially abusive field conditions.
 - Larger opening than standard hoist ring bail.
- Bolt specification is an alloy socket head cap screw to ASTM A320 Grade L7 or L43.
- Top washer is color-coded for easy identification (blue for UN threads and grey for Metric threads).
- The Working Load Limit and recommended torque value are permanently stamped into each washer.
- Individually Proof Tested to 2 times Working Load Limit (90° and in-line).
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.
- Type approval and certification in accordance with DNV Offshore Standard DNV-OS-E101, Drilling Plant, Standard for Certification DNVGL-ST-0378, Lifting Appliances, and DNVGL-SI-0166.
- Individually serialized.
- 100% MPI all primary load bearing components.
- Coating: Thermo-diffusion galvanized.
- Optional bolt sizes available upon request.



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HR-1000MCT Metric Threads

Frame Size No.	Stock No.	Working Load Limit (kg)		Torque (Nm)	Dimensions (mm)								Mass Each (kg)
		Design Factor 5:1	Design Factor 4:1		Bolt Size A	Eff. Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
2	6630058	825	1,030	38	M12 x 1.75 x 55	15.6	160.6	49.7	31.8	19.1	106.7	63.5	1
2	6630059	1,350	1,690	81	M16 x 2.00 x 65	25.5	160.6	49.7	31.8	19.1	106.7	63.5	1
3	6630060	2,250	2,810	136	M20 x 2.50 x 80	25.3	218.2	75.1	41.4	25.4	158.8	82.6	5
3	6630061	3,175	3,970	312	M24 x 3.00 x 90	35.4	218.2	75.1	41.4	25.4	158.8	82.6	5
4	6630062	5,450	6,810	637	M30 x 3.50 x 140	65.9	287.3	94.1	50.8	36.6	206.5	101.6	11
4	6630063	7,450	9,310	1,005	M36 x 4.00 x 130	56.3	287.3	94.1	50.8	36.6	206.5	101.6	12
5	6630064	13,250	16,560	1,350	M48 x 5.00 x 180	70.7	384.9	101.6	68.3	44.5	295.6	127.0	30

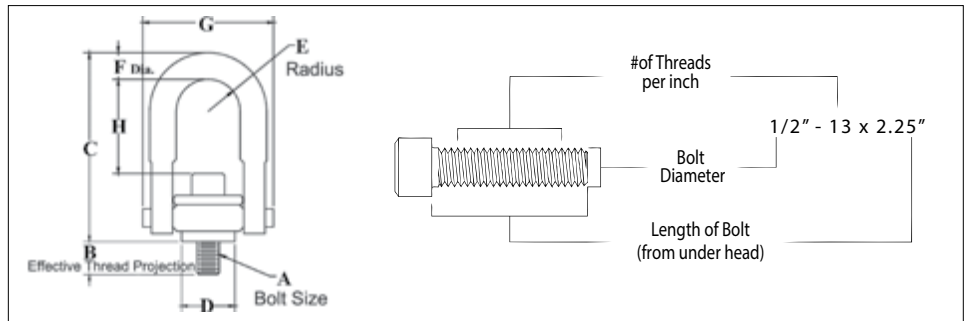
5:1 Design Factor.

Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION
SECTION 17

SS-125UNC



- All components are 316 stainless steel, except bolt retainers, which are made from 15-7 PH (UNS 15700) magnetic stainless steel.
- Rated at 100 percent at 90 degree angle.
- Each product has a Product Identification Code (PIC) for material traceability, along with the Working Load Limit and the name Crosby or "CG" stamped into it.
- Individually proof tested to 2 times the Working Load Limit with certification.
- Fatigue Rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Washer is color-coded for easy identification (Red - UNC thread).
- Bolt specification is 316 stainless steel socket head cap screw to ASTM F837 Group 1 (316).
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

SS-125UNC Threads

Frame Size No.	Stock No.	Working Load Limit (lb)	Torque (ft-lb)	Dimensions (in)								Weight Each (lb)
				Bolt Size A	Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
1	1065000	400	3.5	5/16 - 18 x 1.0	.29	2.67	.85	.43	.34	1.84	1.27	.30
1	1065004	400	3.5	5/16 - 18 x 1.25	.54	2.67	.85	.43	.34	1.84	1.27	.30
1	1065008	500	6	3/8 - 16 x 1.25	.54	2.67	.85	.43	.34	1.84	1.27	.30
2	1065016	1250	14	1/2 - 13 x 2.0	.78	4.78	1.45	.88	.69	3.52	2.31	2.6
2	1065020	1250	14	1/2 - 13 x 2.25	1.03	4.78	1.45	.88	.69	3.52	2.31	2.6
2	1065024	1250	14	1/2 - 13 x 2.5	1.28	4.78	1.45	.88	.69	3.52	2.31	2.6
2	1065028	2000	30	5/8 - 11 x 2.0	.78	4.78	1.45	.88	.69	3.52	2.18	2.6
2	1065032	2000	30	5/8 - 11 x 2.25	1.03	4.78	1.45	.88	.69	3.52	2.18	2.6
2	1065036	2000	30	5/8 - 11 x 2.5	1.28	4.78	1.45	.88	.69	3.52	2.18	2.6
2	1065040	2500	50	3/4 - 10 x 2.25	1.03	4.78	1.45	.88	.69	3.52	2.06	3.0
2	1065044	2500	50	3/4 - 10 x 2.75	1.53	4.78	1.45	.88	.69	3.52	2.06	3.0
3	1065048	3500	50	3/4 - 10 x 2.75	1.04	6.52	2.20	1.40	.94	5.14	3.06	7.0
3	1065052	3500	50	3/4 - 10 x 3.25	1.54	6.52	2.20	1.40	.94	5.14	3.06	7.0
3	1065056	4000	80	7/8 - 9 x 2.75	1.04	6.52	2.20	1.40	.94	5.14	2.93	7.0
3	1065060	4000	80	7/8 - 9 x 3.0	1.29	6.52	2.20	1.40	.94	5.14	2.93	7.0
3	1065064	5000	115	1 - 8 x 3.0	1.29	6.52	2.20	1.40	.94	5.14	2.81	7.5
3	1065068	5000	115	1 - 8 x 3.25	1.54	6.52	2.20	1.40	.94	5.14	2.81	7.5
3	1065072	5000	115	1 - 8 x 4.0	2.29	6.52	2.20	1.40	.94	5.14	2.81	7.5
4	1065080	7500	235	1-1/4 - 7 x 4.0	1.89	8.73	3.19	1.75	1.25	6.50	4.12	14.0
5	1065084	12000	400	1-1/2 - 6 x 5.5	2.70	12.47	4.87	2.25	1.75	8.55	6.41	34.0
5	1065088	15000	550	2 - 4.5 x 5.75	2.96	12.47	4.87	2.25	1.75	8.55	5.91	36.0
6	1065092	25000	1050	2-1/2 - 4 x 8.0	4.00	16.87	6.52	3.00	2.25	11.67	8.03	88.0
6	1065096	25000	1050	2-1/2 - 8 x 8.0	4.00	16.87	6.52	3.00	2.25	11.67	8.03	88.0
7	1065100	37500	2150	3 - 4 x 10.25	5.00	19.50	8.10	3.75	2.75	14.15	8.48	166.0
8	1065104	50000	2550	3-1/2 - 4 x 13	7.00	22.09	8.60	4.00	3.25	15.90	9.28	265.0

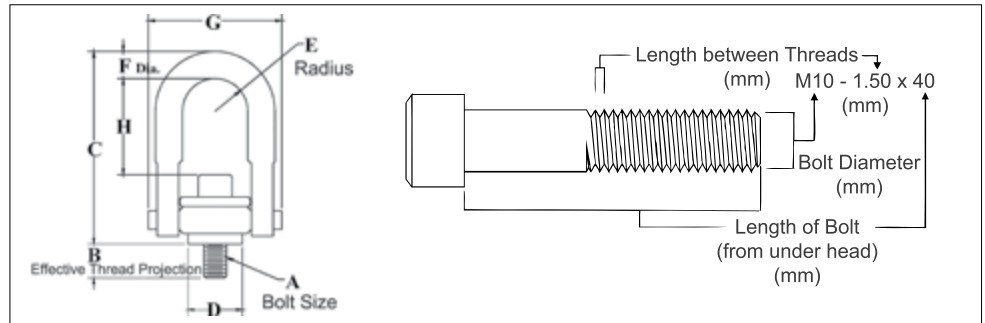
5:1 Design Factor.

Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION
SECTION 17

SS-125M



- All components are 316 stainless steel, except bolt retainers, which are made from 15-7 PH (UNS 15700) magnetic stainless steel.
- Rated at 100 percent at 90 degree angle.
- Each product has a Product Identification Code (PIC) for material traceability, along with the Working Load Limit and the name Crosby or "CG" stamped into it.
- Individually proof tested to 2 times the Working Load Limit with certification.
- Fatigue Rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Washer is color-coded for easy identification (Silver - Metric thread)).
- Bolt specification is 316 stainless steel socket head cap screw to ASTM F 837M (316).
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

SS-125M Metric Threads

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque in Nm	Dimensions (mm)								Weight Each (kg)
				Bolt Size A	Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
1	1065203	200	4	M8 x 1.25	13	68	21.6	11	8.5	47	32	.17
1	1065207	250	8	M10 x 1.50	18	68	21.6	11	8.5	47	30	.17
2	1065211	525	18	M12 x 1.75	19	121	37	22	17.5	89	60	1.1
2	1065215	950	40	M16 x 2.00	29	121	37	22	17.5	89	56	1.1
2	1065219	1075	68	M20 x 2.50	34	121	37	22	17.5	89	52	1.2
3	1065223	1500	68	M20 x 2.50	32	166	56	36	25	131	78	3.0
3	1065227	2100	108	M24 x 3.00	37	166	56	36	25	131	74	3.1
3	1065231	2100	108	M30 x 3.50	58	206	56	36	25	131	108	3.1
4	1065235	3500	318	M30 x 3.50	42	222	81	45	31	165	106	6.3
4	1065239	3500	318	M30 x 3.50	62	222	81	45	31	165	106	6.4
5	1065243	5500	542	M36 x 4.00	64	317	124	57	43	217	166	15.5
5	1065247	6250	542	M42 x 4.50	82	317	124	57	43	217	160	16.0
5	1065251	6750	542	M48 x 5.00	82	317	124	57	43	217	154	16.8
6	1065255	11150	1423	M64 x 6.00	101	428	165	76	56	296	204	39.0
7	1065259	15750	2915	M72 x 6.00	132	495	206	95	69	359	220	74.0
8	1065263	22300	3459	M90 x 6.00	177	561	216	102	83	404	235	118.0

5:1 Design Factor

Load Rated

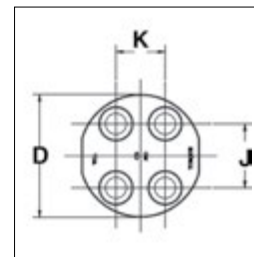
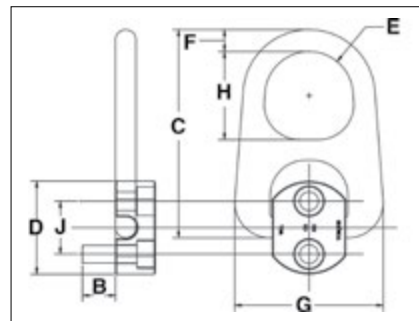
Fatigue Rated

APPLICATION AND WARNING INFORMATION
SECTION 17

HR-100UNC



- Forged bail provides the following:
 - Easily readable raised lettering showing the name Crosby or “CG” and PIC for material traceability.
 - More durability provides the increased toughness desired in potentially abusive field conditions.
 - Larger opening than standard hoist ring bails.
- 180 degree pivot action at full capacity.
- Bolts included as part of assembly.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- UNC Bolt specification is a Grade 8 alloy socket head cap screw to ASTM A574.



HR-100 Pivot Hoist Rings Coil Threads

Frame Size No.	Stock No.	Working Load Limit (lb)	Torque (ft-lb)	No. of Bolts	Weight Each (lb)	Dimensions (in)									
						Bolt Size A	Effective Thread Projection Length B	C	Diameter D	Radius E	F	G	H	J	K
1	1067408	2000	7	2	.6	5/16-18 x 1.25	.82	3.43	2.00	.62	.44	2.27	1.38	1.00	-
2	1067417	2500	12	2	3.1	3/8-16 x 1.25	.65	6.03	2.25	1.25	.75	4.20	2.50	1.13	-
2	1067426	5000	28	2	3.3	1/2-13 x 2.00	1.40	6.03	2.63	1.25	.75	4.20	2.50	1.50	-
3	1067435	12000	28	4	10.5	1/2-13 x 2.75	1.65	8.27	3.13	1.63	1.00	6.25	3.25	1.63	1.25
4	1067444	20000	60	4	22.0	5/8-11 x 3.25	1.65	10.63	4.47	2.00	1.25	7.82	4.00	2.06	1.25

5:1 Design Factor

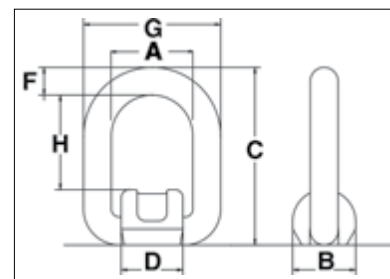


APPLICATION AND WARNING INFORMATION
SECTION 17

S-265



- Widely used on farm machinery, trucks, steel hulled marine vessels and material handling equipment.
- Forged link and bracket — Quenched & Tempered.
- Excellent welding qualities.
- Reference American Welding Society specifications for proper welding procedures.



APPLICATION AND WARNING INFORMATION
SECTION 17

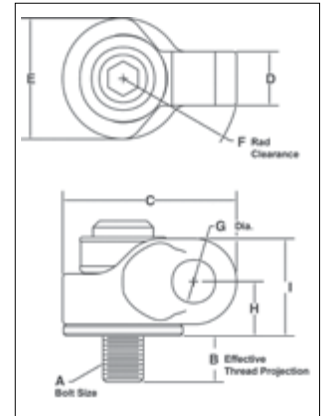
S-265 Forged Link

Working Load Limit (lb)		Stock No.	Weight Each (lb)	Dimensions (in)						
Design Factor 5:1	Design Factor 4:1			A	B	C	D	F	G	H
2200	2600	1290839	0.8	1.57	1.42	3.27	1.38	0.51	2.60	1.65
5500	7050	1290848	1.3	1.77	1.73	3.90	1.65	0.71	3.19	1.89
9250	11650	1290857	2.6	2.17	1.97	4.84	1.93	0.87	3.90	2.24
14100	17600	1290866	5.2	2.76	2.52	5.67	2.52	1.02	4.80	2.64
26450	33050	1290875	13.0	3.82	3.54	7.60	3.39	1.34	6.50	3.70

HR-1200



- Body components are alloy steel - Quenched & Tempered.
- Rated at 100% of Working Load Limit for angles up to 90 degrees.
- Each product is stamped with a Product Identification Code (PIC) for material traceability, along with a Working Load Limit, and the name Crosby or "CG."
- Hoist ring body is furnished with a yellow chromate finish for improved corrosion resistance.
- Utilize standard Crosby Red Pin® Shackles to connect to wire rope or synthetic slings (sold separately).
- Multiple bolt lengths available to meet specific application requirements.
- Individually Proof Tested to 2-1/2 times Working Load Limit.



HR-1200 UNC Side Pull Hoist Rings

Weight Each (lb)	Working Load Limit (lb)	Stock No.	Hoist Ring Bolt Torque (ft-lb)	Bolt Size A	Eff. Thread Proj. (in) B	Dimensions (in)							Recommended Shackles			
						C	D	E	F	Dia. G	H	I	Shackles 209, 210, 213, 215, 2130, 2150		Web Shackles S-281	
													Nominal Size (in)	WLL (t)	Web Size (in)	WLL (t)
.35	650	1067700	7	5/16-18x1.50	.59	1.93	.72	1.00	1.56	.80	.85	1.43	1/2, 5/8	2, 3-1/4	2	3-1/4
.36	800	1067704	12	3/8-16x1.50	.59	1.93	.72	1.00	1.56	.80	.85	1.43	1/2, 5/8	2, 3-1/4	2	3-1/4
1.4	2000	1067708	28	1/2-13x2.00	.71	2.97	.97	2.00	2.13	.93	1.07	1.79	5/8, 3/4	3-1/4, 4-3/4	2, 1.5	3-1/4, 4-1/2
1.4	2000	1067712	28	1/2-13x2.50	1.21	2.97	.97	2.00	2.13	.93	1.07	1.79	5/8, 3/4	3-1/4, 4-3/4	2, 1.5	3-1/4, 4-1/2
1.5	3000	1067716	60	5/8-11x2.00	.71	2.97	.97	2.00	2.13	.93	1.07	1.79	5/8, 3/4	3-1/4, 4-3/4	2, 1.5	3-1/4, 4-1/2
1.5	3000	1067720	60	5/8-11x2.75	1.46	2.97	.97	2.00	2.13	.93	1.07	1.79	5/8, 3/4	3-1/4, 4-3/4	2, 1.5	3-1/4, 4-1/2
4.5	5000	1067724	100	3/4-10x2.75	.90	4.32	1.34	3.00	3.00	1.07	1.35	2.42	7/8	6-1/2	2	6-1/4
4.6	5000	1067728	100	3/4-10x3.50	1.65	4.32	1.34	3.00	3.00	1.07	1.35	2.42	7/8	6-1/2	2	6-1/4
4.6	6500	1067732	160	7/8-9x2.75	.90	4.32	1.34	3.00	3.00	1.07	1.35	2.42	7/8	6-1/2	2	6-1/4
4.8	6500	1067736	160	7/8-9x3.50	1.65	4.32	1.34	3.00	3.00	1.07	1.35	2.42	7/8	6-1/2	2	6-1/4
4.8	8000	1067740	230	1-8x3.00	1.15	4.32	1.34	3.00	3.00	1.07	1.35	2.42	7/8	6-1/2	2	6-1/4
5.0	8000	1067744	230	1-8x4.00	2.15	4.32	1.34	3.00	3.00	1.07	1.35	2.42	7/8	6-1/2	2	6-1/4
10.2	14000	1067748	470	1-1/4-7x4.5	2.22	5.59	1.57	3.75	3.91	1.47	1.92	3.42	1, 1-1/8, 1-1/4	8-1/2, 9-1/2, 12	3	8-1/2
23.5	17200	1067756	800	1-1/2-6x6.5	2.98	7.31	2.06	4.75	5.19	2.11	2.41	4.29	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-
25.3	29000	1067764	1100	2-4.5x6.5	2.98	7.31	2.06	4.75	5.19	2.11	2.41	4.29	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-

5:1 Design Factor.

HR-1200M Metric Side Pull Hoist Rings

Weight Each (kg)	Working Load Limit (kg)	Stock No.	Hoist Ring Bolt Torque (Nm)	Bolt Size A	Eff. Thread Proj. (mm) B	Dimensions (mm)							Recommended Shackles			
						C	D	E	F	G	H	I	Shackles 209, 210, 213, 215, 2130, 2150		Web Shackles S-281	
													Nominal Size (in)	WLL (t)	Web Size (in)	WLL (t)
.18	300	1067803	10	M8x1.25x40	16.9	49.0	18.3	25.4	39.6	20.3	21.6	36.3	1/2, 5/8	2, 3-1/4	2	3-1/4
.18	400	1067807	16	M10x1.50x40	16.9	49.0	18.3	25.4	39.6	20.3	21.6	36.3	1/2, 5/8	2, 3-1/4	2	3-1/4
.63	1000	1067811	38	M12x1.75x50	17.2	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	2, 1.5	3-1/4, 4-1/2
.68	1400	1067815	81	M16x2.0x60	27.2	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	2, 1.5	3-1/4, 4-1/2
2.0	2250	1067823	136	M20x2.5x75	28.1	110	34.0	76.2	76.2	27.2	34.4	61.5	7/8	6-1/2	2	6-1/4
2.2	3500	1067827	312	M24x3.0x80	33.1	110	34.0	76.2	76.2	27.2	34.4	61.5	7/8	6-1/2	2	6-1/4
4.5	6250	1067831	637	M30x3.5x120	65.1	142	39.9	95.3	99.3	37.3	48.8	86.9	1, 1-1/8, 1-1/4	8-1/2, 9-1/2, 12	3	8-1/2
10.4	7750	1067835	1005	M36x4.0x150	60.6	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-
10.7	10000	1067839	1005	M42x4.5x160	70.6	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-
11.0	13000	1067843	1350	M48x5.0x160	70.6	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-

5:1 Design Factor.

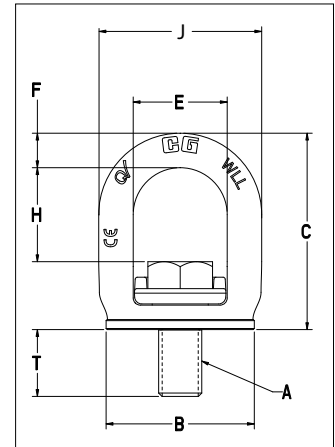


APPLICATION AND WARNING INFORMATION
SECTION 17

SL-150



- When compared to respective size eye bolts, the Crosby SL-150 Slide-Loc™ has a larger eye opening for easy access.
- Bail is forged alloy steel – Quenched & Tempered.
- Bail swivels 360° degrees to keep the load aligned with the sling leg.
- Rated at 100% for 90 degree angle.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets the Machinery Directive 2006/42/EC guidelines and is marked with CE accordingly.
- Bolt specification for metric bolt is Grade 10.9 alloy cap screw to ISO 898-1.
- Unique locking mechanism makes the lifting point well suited for quick attachment to load surface. No need for tools.
- Features QUIC-CHECK® markings on bail to assist in knowing when device is ready for lifting.



APPLICATION AND WARNING INFORMATION
SECTION 17



SL-150 UNC SLIDE-LOC™ LIFT POINT

Weight Each (lb)	Stock No.	Working Load Limit (t)*	Dimensions (in)							Effective Thread Projection Length	
			Bolt Size A	B	C	E	F	H	J	T	
0.30	1068407	0.50	3/8 - 16 x 1	1.40	2.09	1.10	0.33	1.11	1.77	0.60	
0.53	1068416	0.75	1/2 - 13 x 1 - 1/4	1.67	2.47	1.30	0.41	1.30	2.13	0.79	
1.10	1068425	1.50	5/8 - 11 x 1 - 5/8	2.17	2.98	1.46	0.52	1.46	2.50	1.01	
2.05	1068434	2.30	3/4 - 10 x 2	2.71	3.59	1.72	0.63	1.72	2.98	1.26	
2.16	1068443	2.30	7/8 - 9 x 2	2.71	3.61	1.72	0.63	1.72	2.98	1.23	
3.73	1068452	3.20	1 - 8 x 2 - 1/2	3.25	4.33	2.08	0.76	1.93	3.59	1.59	

4:1 Design Factor.

SL-150 METRIC SLIDE-LOC™ LIFT POINT

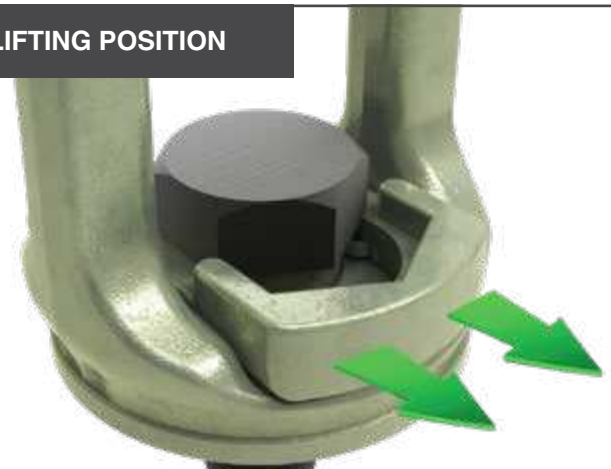
Weight Each (kg)	Stock No.	Working Load Limit (t)*	Dimensions (mm)							Effective Thread Projection Length	
			Bolt Size A	B	C	E	F	H	J	T	
0.14	1068515	0.50	M10X1.5 X 25	35.5	53.0	28.0	8.5	27.8	45.0	14.6	
0.23	1068524	0.75	M12x1.75x30	42.5	62.6	33.0	10.5	32.9	54.0	18.3	
0.50	1068533	1.50	M16x2x40	55.0	75.7	37.0	13.2	37.0	63.4	24.5	
0.94	1068542	2.30	M20x2.5x50	68.8	91.1	43.9	16.0	43.6	75.6	31.0	
1.60	1068551	3.20	M24x3x60	82.5	110.0	52.8	19.2	52.8	91.2	37.0	

4:1 Design Factor.

INSTALLATION POSITION



LIFTING POSITION



The visible red QUIC-CHECK® mark indicates that the Crosby Slide-Loc™ is ready for installation but not for lifting.



When the red QUIC-CHECK® mark is under the slide, the Crosby Slide-Loc™ is ready for lifting.

The Lifting Point Family

We offer a wide range of lifting points that will fit most lifting and lashing applications. In our lifting point family you will find a full system, from master link to lifting point.

Choosing the right lifting point for your operation can be tricky, most lifting points can be used for a lot of purposes. But in order to give some guidance, and what we consider best practice, we have created a cross-chart (as seen on next page) to be used as indication to which lifting point that might be best suited for your specific purpose.

Rotating Eye Lifting Point - RELP

The RELP is a compact and robust lifting point, ideal for top-mounting and when it is important to have quick and easy on-hooking. The lifting point is easy to assemble/disassemble with a standard allen key. On the bolt itself information such as the working load limit, mounting torque and manufacturing ID is stamped, so it is always available for the operator.

The RELP will automatically adjust to the loading direction which decreases the risk to load it incorrectly and endangering the lifting operation. For sensitive load surfaces the RELP is ideal, as the connecting sling hook will be positioned mainly parallel to the load surface, thus completely avoiding the hook causing damage on impact on the load. CE marked.



Rotating Lifting Point - RLP

The RLP has an easily dismountable D-ring to enable assembly of wiresling, master link or hook directly onto the lifting point.

RLP has a hexagon bolt (RFID prepared) to make it easy to disassemble/assemble with a wrench. The bolt is also clearly marked with information such as working load limit, mounting torque and manufacturer ID so it is always available to the operator. The RLP rotates 360° and pivots 180°, making it strong, flexible and reliable. CE marked.



De-centered Lifting Point - DLP

The design of the DLP allows the link to be folded over the housing when idle, allowing the lifting point to be almost completely stowed away when not in use.

The closed, oblong link is also equipped with a “stay-up”-function for easy on-hooking, (sizes up to M24) especially when there is limited space. This saves both the load from damage due to impacts from the hook, as well as making rigging fast and easy. The DLP is ideal in narrow spaces, such as corners or edge position, as the housing has a compact design.

DLP has a hexagon bolt (RFID prepared) to make it easy to disassemble/assemble with a wrench. The bolt is also clearly marked with information such as working load limit, mounting torque and manufacturer ID so it is always available to the operator. CE marked.



Ball-bearing Lifting Point - BLP

The BLP is a very versatile lifting point and can safely be used for most applications. The ball-bearings in the BLP allow the load to be rotated during the lift, which is especially good when maintenance is needed on heavy tools and other types of equipment.

If the load surface is sensitive to impacts or scratches, the BLP is a good choice as it builds out from the load which makes it less likely that the lifting equipment will come in contact with it causing damage. The housing (RFID prepared) of the BLP is in-house drop-forged for increased strength and has a hexagon shape for easy mounting and dismounting. The housing is also clearly marked with information such as working load limit, mounting torque and manufacturer ID so it is always available to the operator. CE marked.



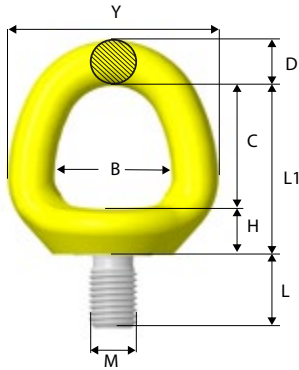
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	RELP	RLP	DLP	BLP
Tight space	✓		✓	✓
Limited height (effective length)	✓	✓		
Vertical lift	✓	✓		✓
Angular lift		✓	✓	✓
Vertical rotation under load				✓
Tilting under load		✓	✓	✓
Sensitive load surface				✓
Single part lift	✓	✓		✓
Multiple part lift		✓	✓	✓
Integrated combination (hook or link)		✓		
RFID prepared		✓	✓	✓

This chart is intended to give guidance in choosing the right lifting point for your operation and is not rules for usage.
For more advice contact your closest Gunnebo Industries dealer.

Rotating Eye Lifting Point RELP



Stock No.	Code	B	C	D	E	H	L	L1	M	Y	Z	Weight (lb)
Z102408	RELP-M8 x 1.25	1.10	1.10	0.43	1.57	0.55	0.59	1.65	0.31	1.97	1.14	0.44
Z102410	RELP-M10 x 1.5	1.10	1.10	0.43	1.57	0.55	0.59	1.65	0.39	1.97	1.14	0.44
Z102412	RELP-M12 x 1.75	1.26	1.30	0.51	1.81	0.51	0.79	1.85	0.47	2.28	1.50	0.66
Z102416	RELP-M16 x 2	1.54	1.61	0.59	2.09	0.63	0.94	2.24	0.63	2.76	1.57	1.10
Z102420	RELP-M20 x 2.5	1.65	1.69	0.63	2.36	0.71	1.18	2.36	0.79	3.07	1.81	1.54
Z102424	RELP-M24 x 3	1.97	2.01	0.75	2.68	0.79	1.42	2.80	0.94	3.46	1.73	2.43
Z102430	RELP-M30 x 3.5	2.36	2.44	1.02	3.35	1.10	1.77	3.54	1.18	4.41	2.52	5.29
Z102436	RELP-M36 x 4	2.83	2.83	1.26	3.82	1.26	2.13	4.09	1.42	5.35	2.91	9.04
Z102442	RELP-M42 x 4.5	3.23	3.23	1.50	4.72	1.46	2.48	4.69	1.65	6.22	3.58	14.77
Z102448	RELP-M48 x 5	3.70	3.78	1.69	5.59	1.54	2.83	5.31	1.89	7.09	4.02	21.83

Bolt according to: ISO 898-1 Class 10.9

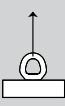
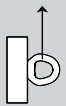
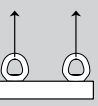
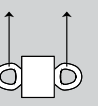
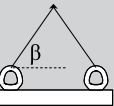
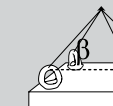
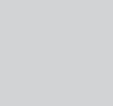
RELP with UNC thread

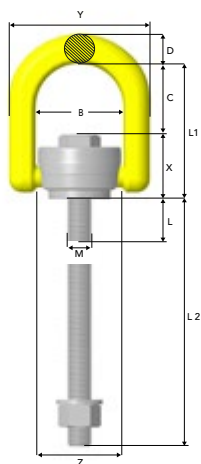


Stock No.	Code	B	C	D	E	H	L	L1	Y	Z	M	Weight (lb)
Z102508	RELP 5/16"-18 UNC	1.10	1.10	0.43	1.57	0.55	0.59	1.65	1.97	1.14	5/16"	0.44
Z102510	RELP 3/8"-16 UNC	1.10	1.10	0.43	1.57	0.55	0.59	1.65	1.97	1.14	3/8"	0.44
Z102512	RELP 1/2"-13 UNC	1.26	1.30	0.51	1.81	0.51	0.79	1.85	2.28	1.50	1/2"	0.66
Z102516	RELP 5/8"-11 UNC	1.54	1.61	0.59	2.09	0.63	0.94	2.24	2.76	1.57	5/8"	1.10
Z102520	RELP 3/4"-10 UNC	1.65	1.69	0.63	2.36	0.71	1.18	2.36	3.07	1.81	3/4"	1.54
Z102521	RELP 7/8"-9 UNC	1.65	1.69	0.63	2.36	0.71	1.18	2.36	3.07	1.81	7/8"	1.54
Z102524	RELP 1"-8 UNC	1.97	2.01	0.75	2.68	0.79	1.42	2.80	3.46	1.73	1"	2.43
Z102530	RELP 1 1/4"-7 UNC	2.36	2.44	1.02	3.35	1.10	1.77	3.54	4.41	2.52	1 1/4"	5.29
Z102536	RELP 1 1/2"-6 UNC	2.83	2.83	1.26	3.82	1.26	2.13	4.09	5.35	2.91	1 1/2"	9.04
Z102542	RELP 1 3/4"-5 UNC	3.23	3.23	1.50	4.72	1.46	2.48	4.69	6.22	3.58	1 3/4"	14.99
Z102548	RELP 2"-4.5 UNC	3.70	3.78	1.69	5.59	1.54	2.83	5.31	7.09	4.02	2"	22.05

Bolt according to: ISO 898-1 Class 10.9

Working Load Limits* - RELP

Symmetric Load (lb)										
No. of Legs	1	1	2	2	2 symmetric		3 & 4 symmetric			
Angle β	0°	90°	0°	90°	45°	30°	45°	30°	Tightening Torque	Allen Key
RELP - M8 x 1.25	1543	661	3086	1322	882	661	1322	882	10 Nm	8 mm
RELP 5/16"-18 UNC	1543	661	3086	1322	882	661	1322	882	7Ft.Lbs	5/16" UNC
RELP-M10x1,5	2645	1102	5290	2204	1543	1102	2204	1543	15 Nm	8 mm
RELP 3/8"-16 UNC	2645	1102	5290	2204	1543	1102	2204	1543	11Ft.Lbs	5/16" UNC
RELP - M12x1,75	4408	1763	8816	3526	2424	1763	3526	2645	27 Nm	8 mm
RELP 1/2"-13 UNC	4408	1763	8816	3526	2424	1763	3526	2645	20Ft.Lbs	5/16" UNC
RELP - M16x2	7714	3306	15428	6612	4628	3306	6832	4849	60 Nm	8 mm
RELP 5/8"-11 UNC	7714	3306	15428	6612	4628	3306	6832	4849	44Ft.Lbs	5/16" UNC
RELP - M20x2,5	13444	5290	26889	10579	7273	5290	11020	7934	90 Nm	19 mm
RELP 3/4"-10 UNC	11020	5069	22040	10138	6832	5069	10579	7494	66Ft.Lbs	3/4" UNC
RELP 7/8"-9 UNC	13444	6392	26889	12783	8948	6392	13422	9477	66Ft.Lbs	3/4" UNC
RELP - M24x3	17852	7273	35705	14546	10138	7273	15208	10800	135 Nm	19 mm
RELP 1"-8 UNC	17852	7273	35705	14546	10138	7273	15208	10800	100Ft.Lbs	3/4" UNC
RELP - M30x3,5	26668	10138	53337	20277	14106	10138	21158	15208	270 Nm	19 mm
RELP 1 1/4"-7 UNC	26668	10138	53337	20277	14106	10138	21158	15208	200Ft.Lbs	3/4" UNC
RELP - M36x4	35484	15648	70969	31297	21820	15648	32840	23362	320 Nm	19 mm
RELP 1 1/2"-6 UNC	35484	15648	70969	31297	21820	15648	32840	23362	236Ft.Lbs	3/4" UNC
RELP - M42x4,5	52896	20056	105792	40113	28079	20056	42118	29974	600 Nm	19 mm
RELP 1 3/4"-5 UNC	52896	20056	105792	40113	28079	20056	42118	29974	440Ft.Lbs	3/4" UNC
RELP - M48x5	70528	26668	141056	53337	37336	26668	56004	39892	800 Nm	19 mm
RELP 2"-4,5 UNC	70528	26668	141056	53337	37336	26668	56004	39892	590Ft.Lbs	3/4" UNC



Rotating Lifting Point RLP



Stock No. Standard Bolt Length	L	Stock No. Long Bolt Length**	L2	Code	B	C	D	L1	M	X	Y	Z	Weight (lb)***
Z101708	0.63	Z1017080L	3.98	RLP-M8 x 1.25	1.65	1.38	0.47	2.44	0.31	1.06	2.52	Ø1.57	0.66
Z101710	0.63	Z1017100L	3.98	RLP-M10 x 1.5	1.65	1.38	0.47	2.44	0.39	1.06	2.52	Ø1.57	0.66
Z101712	0.98	Z1017120L	4.72	RLP-M12 x 1.75	2.24	1.81	0.75	3.46	0.47	1.65	3.58	Ø2.13	2.20
Z101716	0.98	Z1017160L	6.30	RLP-M16 x 2	2.24	1.81	0.75	3.46	0.63	1.65	3.58	Ø2.13	2.20
Z101720	1.42	Z1017200L	7.87	RLP-M20 x 2.5	3.27	2.17	1.10	4.33	0.79	2.17	5.24	Ø3.15	6.39
Z101724	1.42	Z1017240L	9.45	RLP-M24 x 3	3.27	2.17	1.10	4.33	0.94	2.17	5.24	Ø3.15	6.39
Z101730	2.28	Z1017300L	11.81	RLP-M30 x 3.5	4.49	2.76	1.34	5.83	1.18	3.07	7.17	Ø4.37	15.65
Z101736	2.28	Z1017360L	11.81	RLP-M36 x 4	4.49	2.76	1.34	5.83	1.42	3.07	7.17	Ø4.37	16.09
Z101742	3.19	Z1017420L	11.85	RLP-M42 x 4.5	5.87	3.58	1.57	7.48	1.65	3.90	9.02	Ø5.59	31.53
Z101748	3.19	Z1017480L	11.85	RLP-M48 x 5	5.87	3.58	1.57	7.48	1.89	3.90	9.02	Ø5.59	31.97

** Long Bolt supplied with nut and washer. *** Weight is calculated with standard bolt length.
Bolt, nut and washer according to: ISO 898-1 Class 10.9

RLP with UNC thread



Stock No. Standard Bolt Length	L	Stock No. Long Bolt Length**	L2	Code	B	C	D	L1	X	Y	Z	M	Weight (lb)***
Z101808	0.63	Z1018080L	3.98	RLP-5/16"-18 UNC	1.65	1.38	0.47	2.44	1.06	2.52	Ø1.57	5/16"	0.66
Z101810	0.63	Z1018100L	3.98	RLP-3/8"-16 UNC	1.65	1.38	0.47	2.44	1.06	2.52	Ø1.57	3/8"	0.66
Z101812	0.98	Z1018120L	4.72	RLP-1/2"-13 UNC	2.24	1.81	0.75	3.46	1.65	3.58	Ø2.13	1/2"	2.20
Z101816	0.98	Z1018160L	6.30	RLP-5/8"-11 UNC	2.24	1.81	0.75	3.46	1.65	3.58	Ø2.13	5/8"	2.20
Z101820	1.42	Z1018200L	7.87	RLP-3/4"-10 UNC	3.27	2.17	1.10	4.33	2.17	5.24	Ø3.15	3/4"	6.39
Z101821	1.42	Z1018210L	7.87	RLP-7/8"-9 UNC	3.27	2.17	1.10	4.33	2.17	5.24	Ø3.15	7/8"	6.39
Z101824	1.42	Z1018240L	9.45	RLP 1"-8 UNC	3.27	2.17	1.10	4.33	2.17	5.24	Ø3.15	1"	6.39
Z101830	2.28	Z1018300L	11.81	RLP 1 1/4"-7 UNC	4.49	2.76	1.34	5.83	3.07	7.17	Ø4.37	1 1/4"	15.65
Z101836	2.28	Z1018360L	11.81	RLP 1 1/2"-6 UNC	4.49	2.76	1.34	5.83	3.07	7.17	Ø4.37	1 1/2"	16.09
Z101842	3.19	Z1018420L	11.85	RLP 1 3/4"-5 UNC	5.87	3.58	1.57	7.48	3.90	9.02	Ø5.59	1 3/4"	31.75
Z101848	3.19	Z1018480L	11.85	RLP 2"-4.5 UNC	5.87	3.58	1.57	7.48	3.90	9.02	Ø5.59	2"	32.41

** Long Bolt supplied with nut and washer. *** Weight is calculated with standard bolt length.
Bolt, nut and washer according to: ISO 898-1 Class 10.9

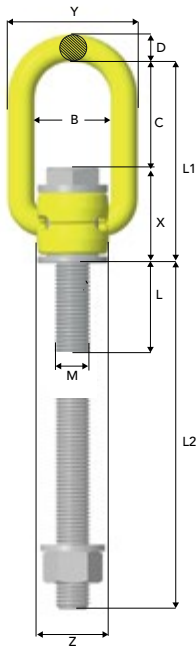
Working Load Limits* - RLP

Symmetric Load (lb)										
No. of Legs	1	1	2	2	2 Symmetric	3 & 4 Symmetric				
Angle β	0°	90°	0°	90°	45° 30°	45° 30°				
RLP - M8 x 1.25	1763	882	3526	1763	1102 882	1763 1322	10 Nm			
RLP 5/16"-18 UNC	1763	882	3526	1763	1102 882	1763 1322	7 Ft.lb			
RLP - M10 x 1.5	2645	1543	5290	3086	1984 1543	3086 2204	15 Nm			
RLP 3/8"-16 UNC	2645	1433	5290	2865	1984 1322	2865 1984	11 Ft.lb			
RLP - M12 x 1.75	4408	2645	8816	5290	3526 2645	5510 3967	27 Nm			
RLP 1/2"-13 UNC	4408	2645	8816	5290	3526 2645	5510 3967	20 Ft.lb			
RLP - M16 x 2	7053	4408	14106	8816	6171 4408	9257 6612	60 Nm			
RLP 5/8"-11 UNC	7053	4408	14106	8816	6171 4408	9257 6612	44 Ft.lb			
RLP - M20 x 2.5	12342	6171	24685	12342	8596 6171	12783 9257	90 Nm			
RLP 3/4"-10 UNC	11020	5510	22040	11020	7714 5510	11461 8155	66 Ft.lb			
RLP 7/8"-9 UNC	12342	6171	24685	12342	8596 6171	12783 9257	66 Ft.lb			
RLP - M24 x 3	17632	10138	35264	20277	14106 10138	21158 15208	135 Nm			
RLP 1"-8 UNC	17632	10138	35264	20277	14106 10138	21158 15208	100 Ft.lb			
RLP - M30 x 3.5	26448	13224	52896	26448	18514 13224	27770 19836	270 Nm			
RLP 1 1/4"-7 UNC	26448	13224	52896	26448	18514 13224	27770 19836	200 Ft.lb			
RLP - M36 x 4	30856	17632	61712	35264	24685 17632	37027 26448	320 Nm			
RLP 1 1/2"-6 UNC	30856	17632	61712	35264	24685 17632	37027 26448	236 Ft.lb			
RLP - M42 x 4.5	35264	30856	70528	61712	43198 30856	64798 46284	600 Nm			
RLP 1 3/4"-5 UNC	35264	30856	70528	61712	43198 30856	64798 46284	440 Ft.lb			
RLP - M48 x 5	44080	35264	88160	70528	49370 35264	74054 52896	800 Nm			
RLP 2"-4.5 UNC	44080	35264	88160	70528	49370 35264	74054 52896	590 Ft.lb			



Disassembly of the RLP is made easy by just folding the D-ring forward and push down.

De-centered Lifting Point DLP



Stock No. Standard Bolt Length	L	Stock No. Long Bolt Length**	L2	Code	B	C	D	E	F	G	L1	M	X	Y	Z	Weight (lb)***
Z102208	0.51	Z1022080L	3.84	DLP-M8 x 1.25	1.38	1.89	0.39	1.54	0.55	0.39	3.07	0.31	1.18	2.17	1.02	0.66
Z102210	0.51	Z1022100L	3.84	DLP-M10 x 1.5	1.38	1.89	0.39	1.54	0.55	0.39	3.07	0.39	1.18	2.17	1.02	0.66
Z102212	0.91	Z1022120L	4.65	DLP-M12 x 1.75	1.38	1.89	0.47	2.01	0.79	0.55	3.58	0.47	1.73	2.32	1.26	1.10
Z102216	0.91	Z1022160L	6.22	DLP-M16 x 2	1.38	1.89	0.47	2.01	0.79	0.55	3.58	0.63	1.73	2.32	1.26	1.10
Z102220	1.34	Z1022200L	7.80	DLP-M20 x 2.5	2.13	3.46	0.71	2.80	1.10	0.71	5.71	0.79	2.28	3.54	1.89	3.53
Z102224	1.34	Z1022240L	9.37	DLP-M24 x 3	2.13	3.46	0.71	2.80	1.10	0.71	5.71	0.94	2.28	3.54	1.89	3.75
Z102230	2.09	Z1022300L	11.61	DLP-M30 x 3.5	3.23	3.70	1.02	4.09	1.54	1.06	7.17	1.18	3.46	4.80	2.95	11.02
Z102236	2.09	Z1022360L	11.61	DLP-M36 x 4	3.23	3.70	1.02	4.09	1.54	1.06	7.17	1.42	3.46	4.80	2.95	11.46
Z102242	2.87	Z1022420L	11.54	DLP-M42 x 4.5	3.94	4.09	1.42	5.35	2.13	1.34	8.50	1.65	4.45	6.14	4.33	25.57
Z102248	2.87	Z1022480L	11.54	DLP-M48 x 5	3.94	4.06	1.42	5.35	2.13	1.34	8.50	1.89	4.45	6.14	4.33	26.24

** Long Bolt supplied with nut and washer. *** Weight is calculated with standard bolt length.
Bolt, nut and washer according to: ISO 898-1 Class 10.9

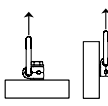
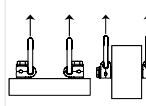
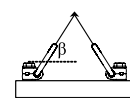
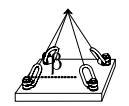
DLP with UNC thread

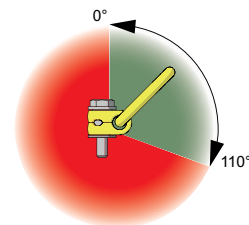


Stock No. Standard Bolt Length	L	Stock No. Long Bolt Length**	L2	Code	B	C	D	E	F	G	L1	X	Y	Z	M	Weight (lb)***
Z102308	0.51	Z1023080L	3.84	DLP-5/16"-18 UNC	1.38	1.89	0.39	1.54	0.55	0.39	3.07	1.18	2.17	1.02	5/16"	0.66
Z102310	0.51	Z1023100L	3.84	DLP-3/8"-16 UNC	1.38	1.89	0.39	1.54	0.55	0.39	3.07	1.18	2.17	1.02	3/8"	0.66
Z102312	0.91	Z1023120L	4.65	DLP-1/2"-13 UNC	1.38	1.89	0.47	2.01	0.79	0.55	3.58	1.73	2.32	1.26	1/2"	1.10
Z102316	0.91	Z1023160L	6.22	DLP-5/8"-11 UNC	1.38	1.89	0.47	2.01	0.79	0.55	3.58	1.73	2.32	1.26	5/8"	1.10
Z102320	1.34	Z1023200L	7.80	DLP-3/4"-10 UNC	2.13	3.46	0.71	2.80	1.10	0.71	5.71	2.28	3.54	1.89	3/4"	3.53
Z102321	1.34	Z1023210L	7.80	DLP-7/8"-9 UNC	2.13	3.46	0.71	2.80	1.10	0.71	5.71	2.28	3.54	1.89	7/8"	3.53
Z102324	1.34	Z1023240L	9.37	DLP-1"-8 UNC	2.13	3.46	0.71	2.80	1.10	0.71	5.71	2.28	3.54	1.89	1"	3.75
Z102330	2.09	Z1023300L	11.61	DLP-1 1/4"-7 UNC	3.23	3.70	1.02	4.09	1.54	1.06	7.17	3.46	4.80	2.95	1 1/4"	12.13
Z102336	2.09	Z1023360L	11.61	DLP-1 1/2"-6 UNC	3.23	3.70	1.02	4.09	1.54	1.06	7.17	3.46	4.80	2.95	1 1/2"	12.57
Z102342	2.87	Z1023420L	11.54	DLP-1 3/4"-5 UNC	3.94	4.06	1.42	5.35	2.13	1.34	8.50	4.45	6.14	4.33	1 3/4"	25.79
Z102348	2.87	Z1023480L	11.54	DLP-2"-4.5 UNC	3.94	4.06	1.42	5.35	2.13	1.34	8.50	4.45	6.14	4.33	2"	26.68

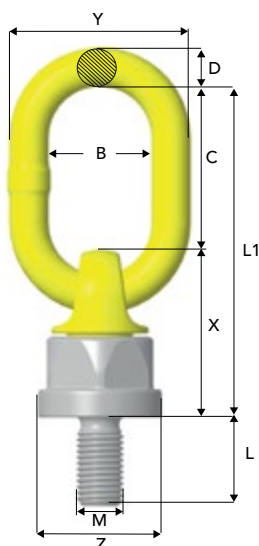
** Long Bolt supplied with nut and washer. *** Weight is calculated with standard bolt length.
Bolt, nut and washer according to: ISO 898-1 Class 10.9

Working Load Limits* - DLP

Symmetric Load (lb)									Tightening Torque	Spanner Size
No. of Legs	1	2	2 Symmetric	3 & 4 Symmetric						
Angle β	0°-90°	0°-90°	45°	30°	45°	30°				
DLP-M8	771	1543	1102	771	1543	1102	10 Nm	13 mm		
DLP-5/16"-18 UNC	771	1543	1102	771	1543	1102	7Ft.lb	1/2"		
DLP-M10	1433	2865	1984	1433	3086	2204	15 Nm	13 mm		
DLP-3/8"-16 UNC	1322	2645	1763	1322	2865	2204	11Ft.lb	1/2"		
DLP-M12	2204	4408	3086	2204	4628	3306	27 Nm	24 mm		
DLP-1/2"-13 UNC	2204	4408	3086	2204	4628	3306	20Ft.lb	15/16"		
DLP-M16	3967	7934	5510	3967	8155	5951	60 Nm	24 mm		
DLP-5/8"-11 UNC	3526	7053	4849	3526	7273	5290	44Ft.lb	15/16"		
DLP-M20x2.5	5730	11461	7714	5730	11902	8596	90 Nm	32 mm		
DLP-3/4"-10 UNC	4849	9698	6612	4849	10138	7273	66Ft.lb	1 5/16"		
DLP-7/8"-9 UNC	5730	11461	7934	5730	11902	8596	66Ft.lb	1 5/16"		
DLP-M24x3	9036	18073	12563	9036	18954	13444	135 Nm	32 mm		
DLP-1"-8 UNC	9036	18073	12563	9036	18954	13444	100Ft.lb	1 5/16"		
DLP-M30x3.5 (Preliminary)	11020	22040	15428	11020	23142	16530	270 Nm	55 mm		
DLP-1 1/4"-7 UNC (Preliminary)	11020	22040	15428	11020	23142	16530	200Ft.lb	2 1/4"		
DLP-M36x4 (Preliminary)	15428	30856	21599	15428	32399	23142	320 Nm	55 mm		
DLP-1 1/2"-6 UNC (Preliminary)	15428	30856	21599	15428	32399	23142	236Ft.lb	2 1/4"		
DLP-M42x4.5 (Preliminary)	33060	66120	46284	33060	69426	49590	600 Nm	75 mm		
DLP-1 3/4"-5 UNC (Preliminary)	33060	66120	46284	33060	69426	49590	440Ft.lb	3"		
DLP-M48x5 (Preliminary)	44080	88160	61712	44080	92568	66120	800 Nm	75 mm		
DLP-2"-4.5 UNC (Preliminary)	44080	88160	61712	44080	92568	66120	590Ft.lb	3"		



- The DLP can only be loaded from 0° to 110° degrees
- Rotation around screw axis when loaded at 0°-15° is not allowed.



Ball-bearing Lifting Point BLP



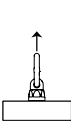
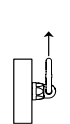
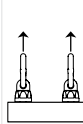
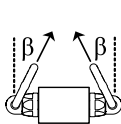
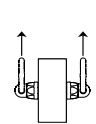
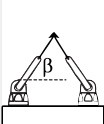
Stock No.	Code	B	C	D	L	L1	M	X	Y	Z	Weight (lb)
Z102008	BLP-M8 x 1.25	1.38	2.17	0.51	0.63	4.41	0.31	2.24	2.44	Ø1.65	1.32
Z102010	BLP -M10 x 1.5	1.38	2.17	0.51	0.79	4.41	0.39	2.24	2.40	Ø1.65	1.32
Z102012	BLP -M12 x 1.75	1.38	2.17	0.51	0.94	4.41	0.47	2.24	2.40	Ø1.65	1.32
Z102016	BLP-M16 x 2	1.38	2.17	0.51	1.18	4.41	0.63	2.24	2.40	Ø1.65	1.32
Z102020	BLP-M20 x 2.5	1.34	2.24	0.67	1.18	5.20	0.79	2.95	2.64	Ø2.32	2.87
Z102024	BLP-M24 x 3	1.97	2.76	0.67	1.42	5.71	0.94	2.95	3.31	Ø2.32	3.31
Z102030	BLP-M30 x 3.5	2.13	3.78	0.87	1.77	4.02	1.18	4.17	3.90	Ø2.91	7.50
Z102036	BLP-M36 x 4	2.13	3.78	0.87	2.13	4.02	1.42	4.17	3.90	Ø2.91	7.72
Z102042	BLP-M42 x 4.5	2.76	4.72	1.10	2.48	9.53	1.65	4.80	5.00	Ø3.66	14.33
Z102048	BLP-M48 x 5	2.76	4.72	1.10	2.83	9.53	1.89	4.80	5.00	Ø3.66	14.99

BLP with UNC thread

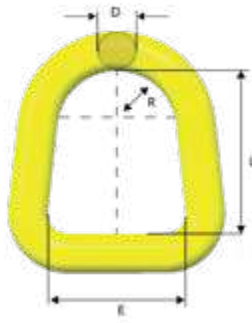


Stock No.	Code	B	C	D	L	L1	X	Y	Z	M	Weight (lb)
Z102108	BLP-5/16"-18 UNC	1.38	2.17	0.51	0.63	4.41	2.24	2.40	Ø1.65	5/16"	1.32
Z102110	BLP-3/8"-16 UNC	1.38	2.17	0.51	0.79	4.41	2.24	2.40	Ø1.65	3/8"	1.32
Z102112	BLP-1/2"-13 UNC	1.38	2.17	0.51	0.94	4.41	2.24	2.40	Ø1.65	1/2"	1.32
Z102116	BLP-5/8"-11 UNC	1.38	2.17	0.51	1.18	4.41	2.24	2.40	Ø1.65	5/8"	1.32
Z102120	BLP-3/4"-10 UNC	1.34	2.24	0.67	1.18	5.20	2.95	2.64	Ø2.32	3/4"	2.87
Z102121	BLP-7/8"-9 UNC	1.34	2.24	0.67	1.18	5.20	2.95	2.64	Ø2.32	7/8"	2.87
Z102124	BLP-1"-8 UNC	1.97	2.76	0.67	1.50	5.71	2.95	3.31	Ø2.32	1"	3.31
Z102130	BLP-1 1/4"-7 UNC	2.13	3.78	0.87	1.89	7.95	4.17	3.90	Ø2.91	1 1/4"	7.50
Z102136	BLP-1 1/2"-6 UNC	2.13	3.78	0.87	2.24	7.95	4.17	3.90	Ø2.91	1 1/2"	7.94
Z102142	BLP-1 3/4"-5 UNC	2.76	4.72	1.10	2.64	9.53	4.80	5.00	Ø3.66	1 3/4"	14.55
Z102148	BLP-2"-4.5 UNC	2.76	4.72	1.10	2.99	9.53	4.80	5.00	Ø3.66	2"	15.43

Working Load Limits* - BLP

Symmetric Load (lb)										
No. of Legs	1	1	2		2 Symmetric		3 & 4 Symmetric			
Angle β	0°*	90°	0°	90°	30°	45°	45°	30°	Tightening torque	Spanner Size
BLP -M8x1.25	1322	661	2645	1322	661	882	882	992	10 Nm	36 mm
BLP 5/16"-18 UNC	1322	661	2645	1322	661	882	882	992	7Ft.Lb	1 1/2" UNC
BLP -M10x1.5	2204	1102	4408	2204	1102	1543	1543	1653	15 Nm	36 mm
BLP 3/8"-16 UNC	1763	882	3526	1763	882	1102	1102	1322	11Ft.Lb	1 1/2" UNC
BLP -M12x1.75	3306	1653	6612	3306	1653	2424	2424	2424	27 Nm	36 mm
BLP 1/2"-13 UNC	3306	1653	6612	3306	1653	2424	2424	2424	20Ft.Lb	1 1/2" UNC
BLP -M16x2	6612	3306	13224	6612	3306	4628	4628	4849	60 Nm	36 mm
BLP 5/8"-11 UNC	6612	3306	13224	6612	3306	4628	4628	4849	44Ft.Lb	1 1/2" UNC
BLP -M20x2.5	11020	5510	22040	11020	5510	7714	7714	8155	90 Nm	50 mm
BLP 3/4"-10 UNC	9918	4959	19836	9918	4959	6832	6832	7273	66Ft.Lb	2" UNC
BLP 7/8"-9 UNC	13224	6612	26448	13224	6612	9257	9257	9918	66Ft.Lb	2" UNC
BLP-M24x3	15428	8816	30856	17632	8816	12342	12342	13224	135 Nm	50 mm
BLP-1"-8 UNC	15428	8816	30856	17632	8816	12342	12342	13224	100Ft.Lb	2" UNC
BLP-M30x3.5	26448	13224	52896	26448	13224	18514	18514	19836	270 Nm	65 mm
BLP-1 1/4"-7 UNC	26448	13224	52896	26448	13224	18514	18514	19836	200Ft.Lb	2 5/8" UNC
BLP-M36x4	30856	17632	61712	35264	17632	24685	24685	26448	320 Nm	65 mm
BLP-1 1/2"-6 UNC	30856	17632	61712	35264	17632	24685	24685	26448	236Ft.Lb	2 5/8" UNC
BLP-M42x4.5	35264	22040	70528	44080	22040	30856	30856	33060	600 Nm	85 mm
BLP-1 3/4"-5 UNC	35264	22040	70528	44080	22040	30856	30856	33060	440Ft.Lb	3 1/8" UNC
BLP-M48x5	39672	28652	79344	57304	28652	40113	40113	42978	800 Nm	85 mm
BLP-2"-4.5 UNC	39672	28652	79344	57304	28652	40113	40113	42978	590Ft.Lb	3 1/8" UNC

* provided only axial loading takes place, ie no bending force applied in the direction of the thread.

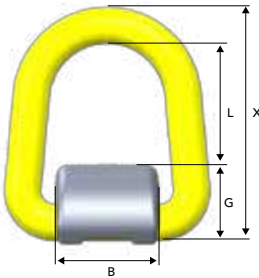


Master Link D



Stock No.	Code	WLL (lb)*	E	D	L	R	Weight (lb)
Z7008771	D-14-10	5510	2.17	0.55	2.56	0.94	0.88
Z7008781	D-17-10	8800	2.52	0.67	2.44	1.14	1.10
Z7008801	D-22-10	15428	2.99	0.87	3.54	1.30	2.20
Z7008791	D-27-10	22040	3.35	1.06	3.86	1.50	4.19
Z7008792	D-32-10	35300	4.49	1.26	5.47	1.97	7.72

The load bearing width must be at least 0.5 x E.

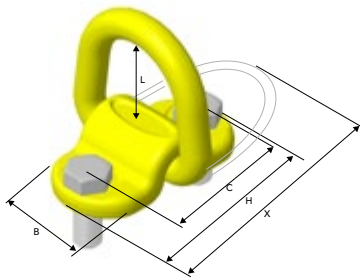


Weldable Lifting Point WLP



Stock No.	Code	WLL (lb)*	B	G	L	X	Weight (lb)
Z7009001	WLP-2.5T	5510	1.97	1.06	2.09	3.74	1.10
Z7009011	WLP-4T	8800	2.28	1.34	1.89	3.82	1.76
Z7009021	WLP-7T	15428	2.52	1.61	2.87	5.31	3.97
Z7009031	WLP-10T	22040	2.56	2.05	2.87	5.98	7.50
Z7009041	WLP-16T	35300	3.54	2.60	4.13	7.99	14.77

Supplied with spring for stay up function.
Master Link measurements, see Master Link D above.



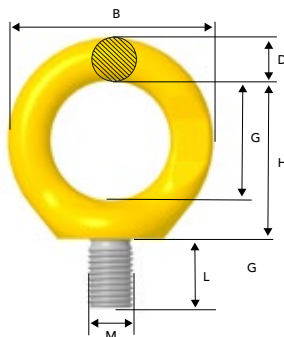
Screw-on Lifting Point SLP



Stock No.	Code	WLL (lb)*	B	C	H	L	M (metric thread)	X	Bolt Protrusion	Weight (lb)
Z7009881	SLP-1T	2204	1.97	2.83	3.86	2.13	M14	5.47	25	1.76
Z7009871	SLP-3T	6612	2.28	3.31	4.49	1.93	M16	5.67	28	2.87
Z7009861	SLP-5T	11020	2.52	4.57	6.30	2.80	M20	7.99	34	5.73

Supplied with bolt and spring for stay up function.
Bolt according to: ISO 898-1 Class 10.9.
Master Link measurements, see Master Link D above.

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Eye Lifting Point ELP



Stock No.	Code	WLL		B	D	G	H	L	M	Weight (lb)
		metric tonnes*	(lb)							
Z100434	ELP-16-8	1.0**	2204	2.83	0.63	1.65	2.17	0.94	M16	0.88
Z100435	ELP-20-8	1.5**	3306	2.83	0.63	1.65	2.28	1.18	M20	0.88
Z100436	ELP-24-8	2.0**	4500	3.46	0.75	1.89	2.72	1.42	M24	1.98
Z100437	ELP-30-8	3.0**	6612	4.17	0.87	2.36	3.31	1.77	M30	3.09

** In case of 1-leg application where loading is limited to straight loading in the direction of thread (no bending force) it is possible to use ELP with four times higher WLL. Note! Threaded depths need to be at least 1xM for steel, 1.25xM for cast iron and 2xM for aluminum alloy.

Spare Parts

Standard length bolt and long bolt for RLP and DLP are available as spare parts.

RDRLP - Metric

Standard length bolt including locking ring

Stock No.	Code
Z1017081	RDRLP-M8x1,25
Z1017101	RDRLP-M10x1,5
Z1017121	RDRLP-M12x1,75
Z1017161	RDRLP-M16x2
Z1017201	RDRLP-M20x2,5
Z1017241	RDRLP-M24x3
Z1017301	RDRLP-M30x3,5
Z1017361	RDRLP-M36x4
Z1017421	RDRLP-M42x4,5
Z1017481	RDRLP-M48x5

RDRLP - Metric

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10170801L	RDRLP-M8 LB
Z10171001L	RDRLP-M10 LB
Z10171201L	RDRLP-M12 LB
Z10171601L	RDRLP-M16 LB
Z10172001L	RDRLP-M20 LB
Z10172401L	RDRLP-M24 LB
Z10173001L	RDRLP-M30 LB
Z10173601L	RDRLP-M36 LB
Z10174201L	RDRLP-M42 LB
Z10174801L	RDRLP-M48 LB

RDRLP - UNC

Standard length bolt including locking ring

Stock No.	Code
Z1018081	RDRLP-UNC 5/16"-18
Z1018101	RDRLP-UNC 3/8"-16
Z1018121	RDRLP-UNC 1/2"-13
Z1018161	RDRLP-UNC 5/8"-11
Z1018201	RDRLP-UNC 3/4"-10
Z1018211	RDRLP-UNC 7/8"-9
Z1018241	RDRLP-UNC 1"-8
Z1018301	RDRLP-UNC 1 1/4"
Z1018361	RDRLP-UNC 1 1/2"
Z1018421	RDRLP-UNC 1 3/4"
Z1018481	RDRLP-UNC 2"

RDRLP - UNC

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10180801L	RDRLP-UNC 5/16" LB
Z10181001L	RDRLP-UNC 3/8" LB
Z10181201L	RDRLP-UNC 1/2" LB
Z10181601L	RDRLP-UNC 5/8" LB
Z10182001L	RDRLP-UNC 3/4" LB
Z10182101L	RDRLP-UNC 7/8" LB
Z10182401L	RDRLP-UNC 1" LB
Z10183001L	RDRLP-UNC 1 1/4" LB
Z10183601L	RDRLP-UNC 1 1/2" LB
Z10184201L	RDRLP-UNC 1 3/4" LB
Z10184801L	RDRLP-UNC 2" LB

RDDL P - Metric

Standard length bolt including locking ring

Stock No.	Code
Z1022081	RDDL P-M8x1,25
Z1022101	RDDL P-M10x1,5
Z1022121	RDDL P-M12x1,75
Z1022161	RDDL P-M16x2
Z1022201	RDDL P-M20x2,5
Z1022241	RDDL P-M24x3
Z1022301	RDDL P-M30
Z1022361	RDDL P-M36
Z1022421	RDDL P-M42
Z1022481	RDDL P-M48

RDDL P - Metric

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10220801L	RDDL P M8 LB
Z10221001L	RDDL P M10 LB
Z10221201L	RDDL P M12 LB
Z10221601L	RDDL P M16 LB
Z10222001L	RDDL P M20 LB
Z10222401L	RDDL P M24 LB
Z10223001L	RDDL P M30 LB
Z10223601L	RDDL P M36 LB
Z10224201L	RDDL P M42 LB
Z10224801L	RDDL P M48 LB

RDDL - UNC

Standard length bolt including locking ring



Stock No.	Code
Z1023081	RDDL UNC 5/16"
Z1023101	RDDL UNC 3/8"
Z1023121	RDDL UNC 1/2"
Z1023161	RDDL -UNC 5/8"
Z1023201	RDDL -UNC 3/4"
Z1023211	RDDL -UNC 7/8"
Z1023241	RDDL -UNC 1"
Z1023301	RDDL -UNC 1 1/4"
Z1023361	RDDL UNC 1 1/2"
Z1023421	RDDL -UNC 1 3/4"
Z1023481	RDDL -UNC 2"



RDDL - UNC

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10230801L	RDDL UNC 5/16" LB
Z10231001L	RDDL UNC 3/8" LB
Z10231201L	RDDL UNC 1/2" LB
Z10231601L	RDDL UNC 5/8" LB
Z10232001L	RDDL UNC 3/4" LB
Z10232101L	RDDL UNC 7/8" LB
Z10232401L	RDDL UNC 1" LB
Z10233001L	RDDL UNC 1 1/4" LB
Z10233601L	RDDL UNC 1 1/2" LB
Z10234201L	RDDL UNC 1 3/4" LB
Z10234801L	RDDL UNC 2" LB

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