



## Links & Rings

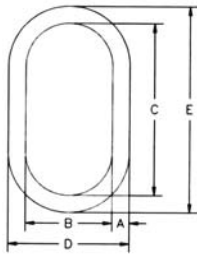
### Alloy Master Link

- Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to values shown, with certification.
- Proof Tested with 60% inside width special fixtures sized to prevent localized point loading per ASME A-952.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Forgings have a Product Identification Code (PIC) for material traceability, along with the size, the name Crosby and USA in raised lettering.
- Selected sizes designated with "W" in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
- Crosby 1 1/4" to 2" 342/345 master links are type approved to DNV Certification Notes 2.7-1 - Offshore Containers. These Crosby master links are 100% proof tested, MPI and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to page 161 for Crosby COLD TUFF® master links that meet the additional requirements of DNV rules for certification of lifting applications - Loose Gear.
- Incorporated patented QUIC-CHECK® deformation indicators.

#### A-342 Master Link Specifications



A-342



A-345

Size (in.)	Size (mm)	A-342 Stock Number	Working Load Limit (lbs)	Proof Load (lbs)	Weight Each (lbs)	Dimensions (in.)			
						A	B	C	Deformation Indicator
** 1/2W	13W	1014266	7400	17200	1.3	.62	2.80	5.00	3.50
** 5/8	16	1014280	9000	18000	1.5	.62	3.00	6.00	3.50
** 3/4W	19W	1014285	12300	28400	2.0	.73	3.20	6.00	4.00
** 7/8W	22W	1014319	15200	35200	3.3	.88	3.75	6.38	4.50
** 1W	26W	1014331	26000	60000	6.1	1.10	4.30	7.50	5.50
** 1-1/4W	32W	1014348	39100	90400	12.0	1.33	5.50	9.50	7.00
** 1-1/2W	38W	1014365	61100	141200	18.6	1.61	5.90	10.50	7.50
** 1-3/4	44	1014388	84900	212250	25.2	1.75	6.00	12.00	7.50
** 2	51	1014404	102600	256500	37.0	2.00	7.00	14.00	9.00
**^ 2-1/4	57	1014422	143100	289200	54.1	2.25	8.00	16.00	10.00
^ 2-1/2	63	1014468	160000	320000	68.5	2.50	8.38	16.00	11.00
** ^ 2-3/4	70	1014440	216900	433800	94.0	2.75	9.88	18.00	12.50
^ 3	76	1014486	228000	456000	115	3.00	9.88	18.00	13.00
^ 3-1/4	83	1014501	262200	524400	145	3.25	10.00	20.00	13.50
^ 3-1/2	89	1014529	279000	558000	200	3.50	12.00	24.00	15.50
^ 3-3/4	95	1015051	336000	672000	198	3.75	10.00	20.00	13.50
^ 4	102	1015060	373000	746000	264	4.00	12.00	24.00	16.00
^ 4-1/4	++108	1015067	354000	708000	302	4.25	12.00	24.00	--
^ 4-1/2	++114	1015079	360000	720000	345	4.50	14.00	28.00	--
^ 4-3/4	++121	1015088	389000	778000	436	4.75	14.00	28.00	--
^ 5	++127	1015094	395000	79000	516	5.00	15.00	30.00	--

\* Ultimate Load is 5 times the Working Load Limit. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Applications with wire rope and synthetic sling generally require a design factor of 5.  
 \*\* Proof Test Load equals or exceeds the requirements of ASTM A952(8.1) and ASME B30.9. ++ Welded Master Link.

#### A-345 Master Link Assembly with Engineered Flat for use with S-1325A coupler link

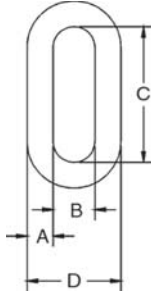
Size (in.)	Size (mm)	A-345 Stock Number	Weight Each (lbs)	Working Load Limit Based on 5:1 Design Factor (lbs)	Proof Load (lbs)**	Dimensions (in.)							
						A	B	C	D	E	F	G	Deformation Indicator
3/4W	19W	1014739	3.5	12300	28400	.73	3.20	6.00	.56	3.35	1.77	.30	4.00
7/8W	22W	1014742	4.8	15200	35200	.88	3.75	6.38	.56	3.35	1.77	.30	4.50
1W	26W	1014766	9.3	26000	60000	1.10	4.30	7.50	.75	3.94	2.36	.33	5.50
1-1/4W	32W	1014779	15.8	39100	90400	1.33	5.50	9.50	1.00	6.30	3.54	.51	7.00
1-1/2W	38W	1014807	34.1	61100	141200	1.61	5.90	10.50	1.25	7.09	3.94	.65	7.50
1-3/4	44	1014814	46.7	84900	212250	1.75	6.00	12.00	1.38	8.00	5.00	.73	7.50
2	51	1014832	67.2	102600	256500	2.00	7.00	14.00	1.50	9.00	5.75	-	9.00
2-1/2	64	1014855	206	160000	320000	2.50	8.38	16.00	2.50	16.00	8.38	-	11.00
2-3/4	70	1014864	282	216900	433800	2.75	9.88	18.00	2.75	18.00	9.88	-	12.50
4	102	1014999	667	373000	746000	4.00	12.00	24.00	3.50	24.00	12.00	-	15.50***

\* Ultimate Load is 5 times the Working Load Limit. The maximum individual sublink working load limit is 75% of the assembly working load limit except for 2-1/2" and 2-3/4", which are 100% of assembly working load limit.  
 Applications with wire rope and synthetic sling generally require a design factor of 5.  
 \*\* Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. \*\*\* Sublink only.



G-340 & S-340 Weldless End Links

- Self-Colored or Hot Dip Galvanized
- Forged carbon steel - Quenched and Tempered



Size (A) (in.)	Stock Number		Working Load Limit (lbs)*	Weight (lbs)	Dimensions (in.)		
	G-340 Galv.	S-340 S.C.			B	C	D
5/16	1014057	1014066	2500	.15	.50	1.75	1.18
3/8	1014075	1014084	3800	.22	.56	1.88	1.38
1/2	1014093	1014100	6500	.49	.75	2.38	1.81
5/8	1014119	1014128	9300	.97	1.00	3.25	2.32
3/4	1014137	1014146	14000	1.51	1.13	3.50	2.68
7/8	1014155	1014164	12000	2.59	2.00	5.13	3.75
1	1014173	1014182	15200	3.95	2.25	5.75	4.25
1-1/4	1014191	1014208	26400	7.30	2.50	7.00	5.00
1-3/8	1014217	1014226	30000	10.38	2.75	7.75	5.50



G-340 from 5/8" thru 7/8" meet the performance requirements of Federal Specification RR-C-271F, Type XV, except for those provisions required of the contractor.

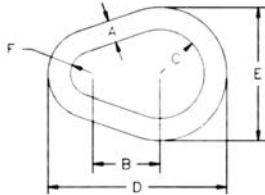
\* Ultimate Load is 5 times the Working Load Limit. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°.

Pear Shaped Links



A-341

- Alloy Steel - Quenches and Tempered.
- Individually Proof Tested at 2 times Working Load Limit with certification.
- Proof Test certification shipped with each link.
- Sizes 1/2", 5/8", 3/4" 7/8", 1", 1-1/4" and 1-3/8" are forged.



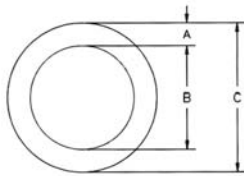
Size (A) (in.)	Stock Number	Working Load Limit* Single Pull (lbs)	Weight Each (lbs)	Dimensions (in.)			
				B	C	D	F
1/2	1013575	7000	3.15	.55	3.00	2.00	1.00
5/8	1013584	9000	4.09	1.10	3.75	2.50	1.25
3/4	1013595	12300	5.59	1.76	4.50	3.00	1.50
7/8	1013604	15000	6.81	2.82	5.25	3.50	1.75
1	1013613	24360	11.0	4.22	6.00	4.00	2.00
1 1/8	1013622	30600	13.9	6.25	6.50	4.50	2.25
1 1/4	1013631	36000	16.4	8.25	7.75	5.00	2.50
1 3/8	1013640	43000	19.5	11.25	8.25	5.50	2.75
++ 1 1/2	1013649	54300	24.7	14.25	9.00	6.00	3.00
++ 1 5/8	1013658	62600	28.4	18.50	9.75	6.50	3.25
++ 1 3/4	1013667	84900	38.6	22.50	10.50	7.00	3.50
++ 1 7/8	1013676	95800	43.5	29.00	11.25	7.50	3.75
++ 2	1013685	102600	46.6	34.00	12.00	8.00	4.00
++ 2 1/4	1013694	143100	65.0	48.00	13.50	9.00	4.50
++ 2 1/2	1013703	147300	66.9	66.00	15.00	10.00	5.00
++ 2 3/4	1013712	216900	98.6	88.00	16.50	11.00	5.50
++ 3	1013721	228000	103	114.00	18.00	12.00	6.00
++ 3 1/4	1013730	262200	119	146.00	19.50	13.00	6.50
++ 3 1/2	1013739	279000	126	181.00	21.00	14.00	7.00
++ 4	1013748	373000	169	271.00	24.00	16.00	8.00

\* Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°. Minimum Ultimate load is 5 times the Working Load Limit.  
++ Welded Link.

FITTINGS & BLOCKS

S-643 Weldless Ring

- Self-Colored
- Forged carbon steel - Quenched and Tempered



Size A (In.)	S-643 Stock Number	Working Load Limit Single Pull (lbs)*	Weight Each (lbs)	Dimensions (in.)	
				B	C
7/8 x 4	1013780	7200	2.72	4.00	5.75
7/8 x 5-1/2	1013806	5600	3.47	5.50	7.25
1 x 4	1013824	10800	3.69	4.00	6.00
1-1/8 x 6	1013842	10400	6.60	6.00	8.25
1-1/4 x 5	1013860	17000	6.82	5.00	7.50
1-3/8 x 6	1013888	19000	10.12	6.00	8.75

\* Ultimate Load is 6 times the Working Load Limit.



Weldless Rings meet the performance requirements of Federal Specification RR-C-271D, Type VI, except for those provisions required of the contractor.