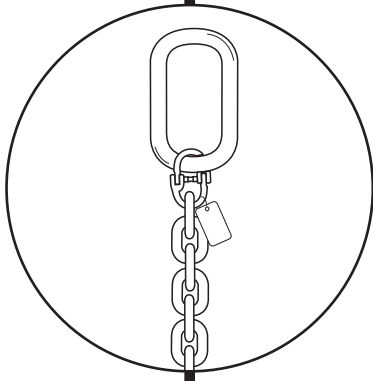


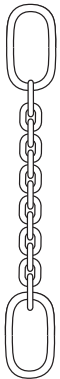


SECTION 1

ALLOY CHAIN SLINGS

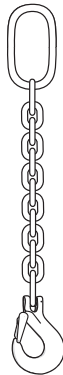
ALLOY CHAIN SLING TYPES & DESCRIPTIONS

SOO/CO



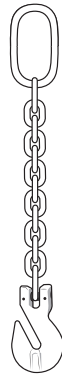
- S** - Single Leg
- O** - Oblong Link
- O** - Oblong Link

SOS



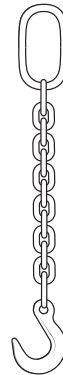
- S** - Single Leg
- O** - Oblong Link
- S** - Sling Hook

SOG



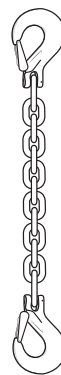
- S** - Single Leg
- O** - Oblong Link
- G** - Grab Hook

SOF



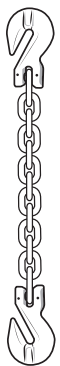
- S** - Single Leg
- O** - Oblong Link
- F** - Foundry Hook

SSS



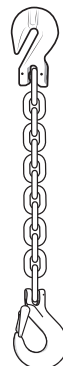
- S** - Single Leg
- S** - Sling Hook
- S** - Sling Hook

SGG



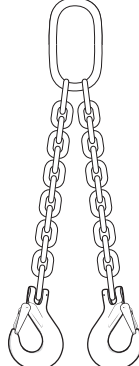
- S** - Single Leg
- G** - Grab Hook
- G** - Grab Hook

SGS



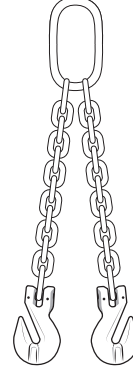
- S** - Single Leg
- G** - Grab Hook
- S** - Sling Hook

DOS



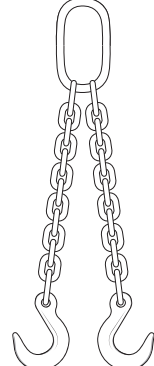
- D** - Double Leg
- O** - Oblong Link
- S** - Sling Hooks

DOG



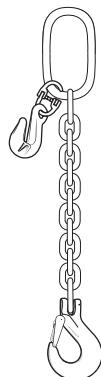
- D** - Double Leg
- O** - Oblong Link
- G** - Grab Hooks

DOF



- D** - Double Leg
- O** - Oblong Link
- F** - Foundry Hooks

SOSA



- S** - Single Leg
- O** - Oblong Link
- S** - Sling Hooks
- A** - Adjustable

DOSA



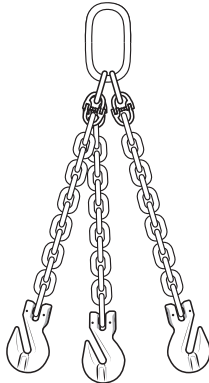
- D** - Double Leg
- O** - Oblong Link
- S** - Sling Hooks
- A** - Adjustable

Do Not Exceed Rated Capacities

Inspect All Slings Before Use

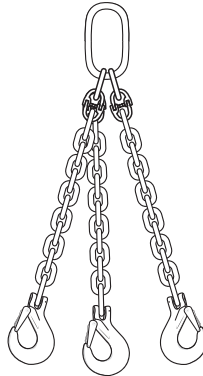
ALLOY CHAIN SLING TYPES & DESCRIPTIONS

TOG



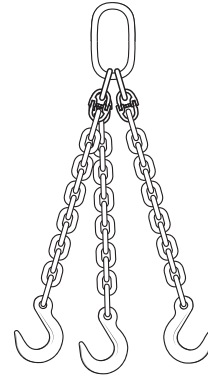
- T** - Triple Leg
- O** - Oblong Link
- G** - Grab Hooks

TOS



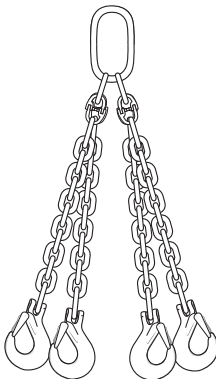
- T** - Triple Leg
- O** - Oblong Link
- S** - Sling Hooks

TOF



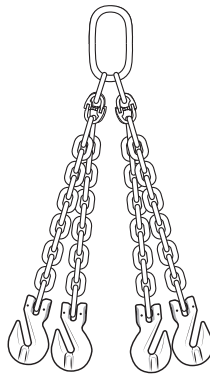
- T** - Triple Leg
- O** - Oblong Link
- F** - Foundry Hooks

QOS



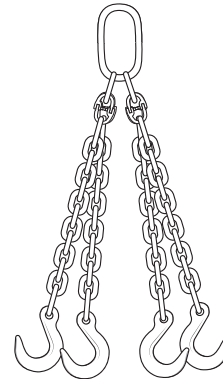
- Q** - Quadruple Leg
- O** - Oblong Link
- S** - Sling Hooks

QOG



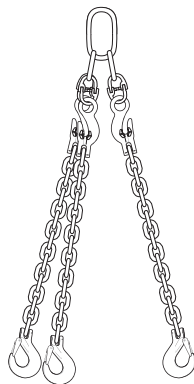
- Q** - Quadruple Leg
- O** - Oblong Link
- G** - Grab Hooks

QOF



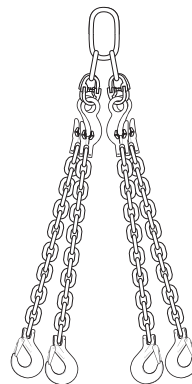
- Q** - Quadruple Leg
- O** - Oblong Link
- F** - Foundry Hooks

TOSA



- T** - Triple Leg
- O** - Oblong Link
- S** - Sling Hooks
- A** - Adjustable

QOSA



- Q** - Quadruple Leg
- O** - Oblong Link
- S** - Sling Hooks
- A** - Adjustable

Do Not Exceed Rated Capacities

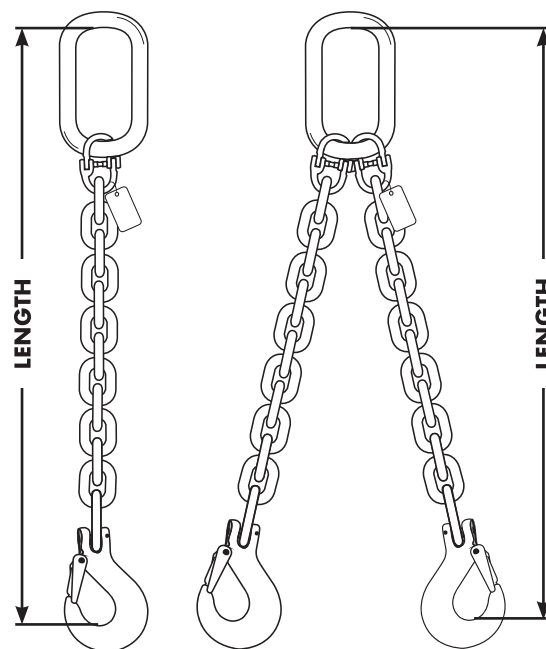
Inspect All Slings Before Use

ALLOY CHAIN SLINGS - SINGLE & DOUBLE

- Grade 100 and Grade 80 available
- Manufactured in accordance with ASME B30.9 standards
- Welded chain slings available upon request
- Can be customized to your specifications
- Quality checked

Note:

- For rated capacity basket hitch, see page 93
- For choker hitch capacity adjustments, see page 95
- Reduce capacity when lifting at angles, see pages 92-94
- Minimum sling length may apply



WORKING LOAD LIMIT		RATED CAPACITY - IN LBS		
Chain Size	SINGLE	DOUBLE		
	90°	60°	45°	30°
GRADE 100				
7/32"	2,700	4,700	3,800	2,700
9/32"	4,300	7,400	6,100	4,300
5/16"	5,700	9,900	8,100	5,700
3/8"	8,800	15,200	12,400	8,800
1/2"	15,000	26,000	21,200	15,000
5/8"	22,600	39,100	32,000	22,600
3/4"	35,300	61,100	49,900	35,300
GRADE 80				
7/32"	2,100	3,600	3,000	2,100
9/32"	3,500	6,100	4,900	3,500
3/8"	7,100	12,300	10,000	7,100
1/2"	12,000	20,800	17,000	12,000
5/8"	18,100	31,300	25,600	18,100
3/4"	28,300	49,000	40,000	28,300
7/8"	34,200	59,200	48,400	34,200
1"	47,700	82,600	67,400	47,700
1 - 1/4"	72,300	125,200	102,200	72,300

Do Not Exceed Rated Capacities

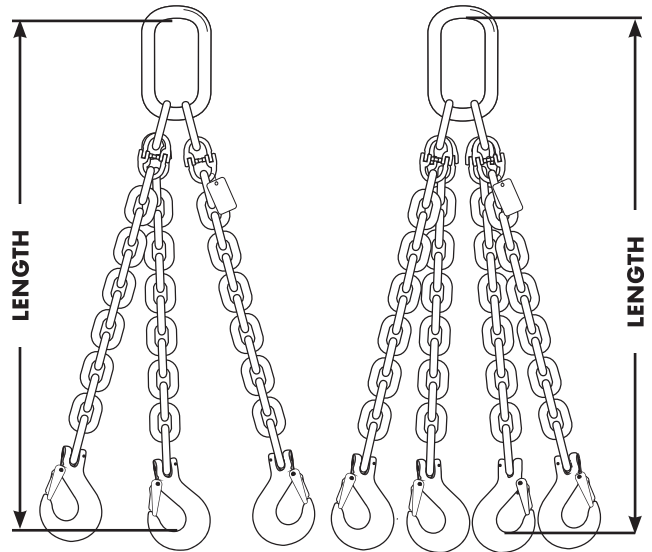
Inspect All Slings Before Use

ALLOY CHAIN SLINGS - TRIPLE & QUAD

- Grade 100 and Grade 80 available
- Manufactured in accordance with ASME B30.9 standards
- Welded chain slings available upon request
- Can be customized to your specifications
- Quality checked

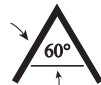
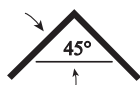
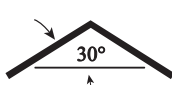
Note:

- For rated capacity basket hitch, see page 93
- For choker hitch capacity adjustments, see page 95
- Reduce capacity when lifting at angles, see pages 92-94
- Minimum sling length may apply



CAUTION

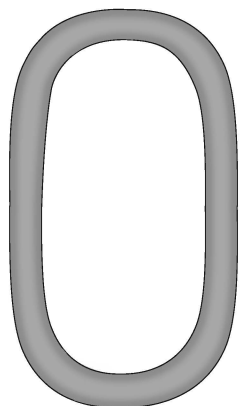
It is wrong to assume that a three or four leg bridle will have a capacity directly based on the number of legs unless each leg is exactly equal in length, equally sharing the load or equally spaced around the center of gravity. Quadruple sling ratings are the same as the triple slings because normal lifting practices may not distribute the load uniformly on all four legs. The values listed below are based on this criteria.

WORKING LOAD LIMIT		RATED CAPACITY - IN LBS		
Chain Size	TRIPLE		QUAD	
				
GRADE 100				
7/32"	7,000	5,700	4,000	
9/32"	11,200	9,100	6,400	
5/16"	14,800	12,100	8,500	
3/8"	22,900	18,700	13,200	
1/2"	39,000	31,800	22,500	
5/8"	58,700	47,900	33,900	
3/4"	91,700	74,900	53,000	
GRADE 80				
7/32"	5,500	4,400	3,200	
9/32"	9,100	7,400	5,200	
3/8"	18,400	15,100	10,600	
1/2"	31,200	25,500	18,000	
5/8"	47,000	38,400	27,100	
3/4"	73,500	60,000	42,400	
7/8"	88,900	72,500	51,300	
1"	123,900	101,200	71,500	
1 - 1/4"	187,800	153,400	108,400	

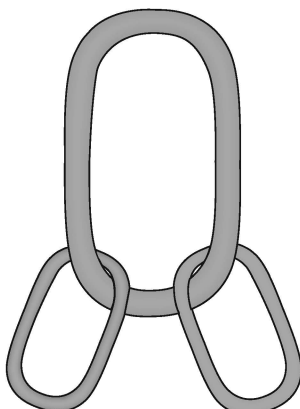
Do Not Exceed Rated Capacities

Inspect All Slings Before Use

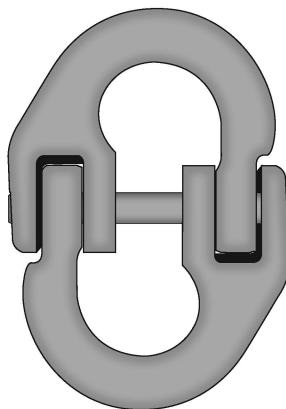
ALLOY CHAIN SLING COMPONENTS



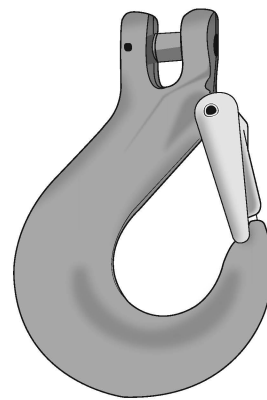
Oblong Master Link



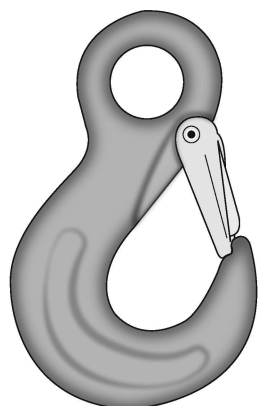
**Oblong Master Link
Sub Assembly**



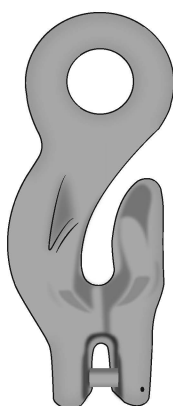
Alloy Coupling Link



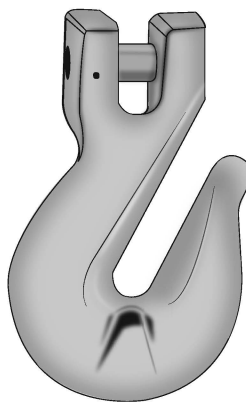
**Clevis Sling Hook
With Latch**



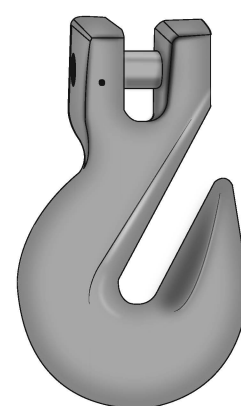
**Eye Sling Hook
With Latch**



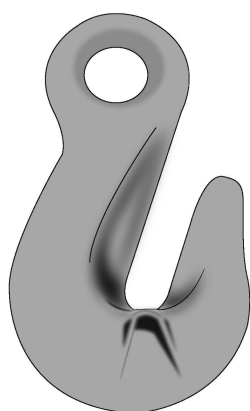
**In-line Chain
Shortener**



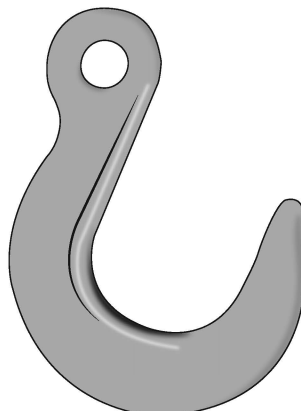
Clevis Cradle Grab Hook



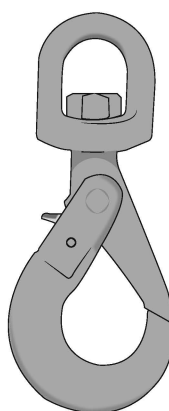
**Clevis Cradle-Less
Grab Hook**



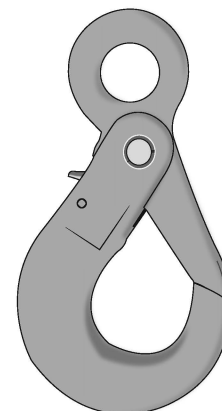
Eye Cradle Grab Hook



Eye Foundry Hook



Swivel Self Latching Hook

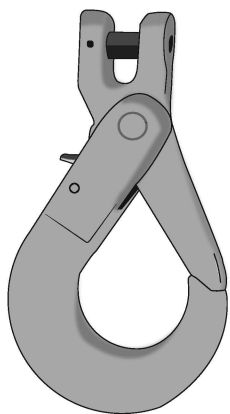


Eye Self Latching Hook

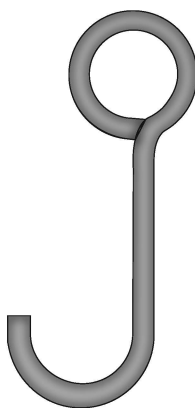
Do Not Exceed Rated Capacities

Inspect All Slings Before Use

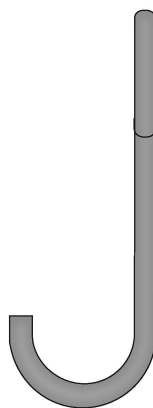
ALLOY CHAIN SLING COMPONENTS



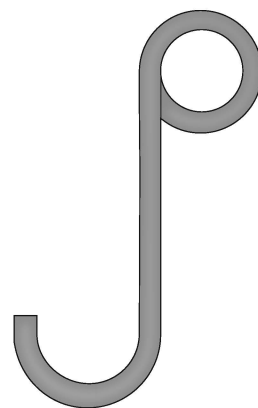
Clevis Self Latching Hook



TYPE A

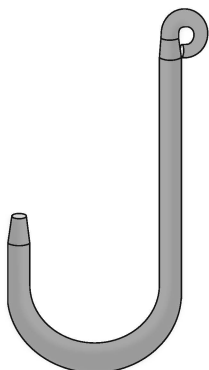


TYPE B

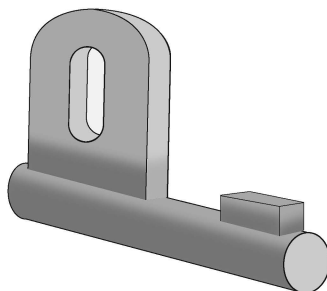


TYPE C

Alloy Steel J - Hooks



Alloy Steel Foundry Hook



Manhole Toggle Key

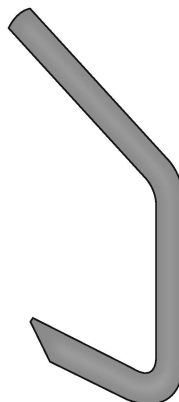
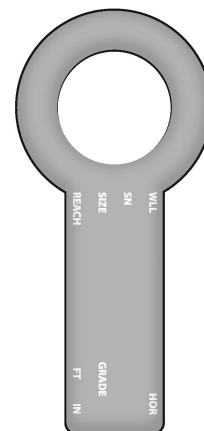
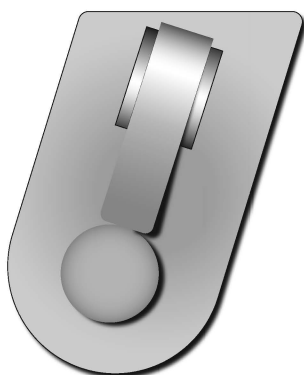


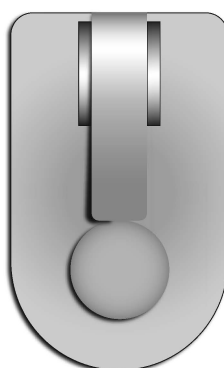
Plate Lifting Hook



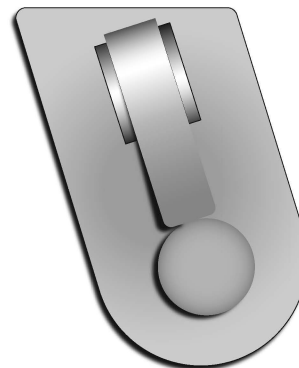
ID Tag



LEFT



STRAIGHT



RIGHT

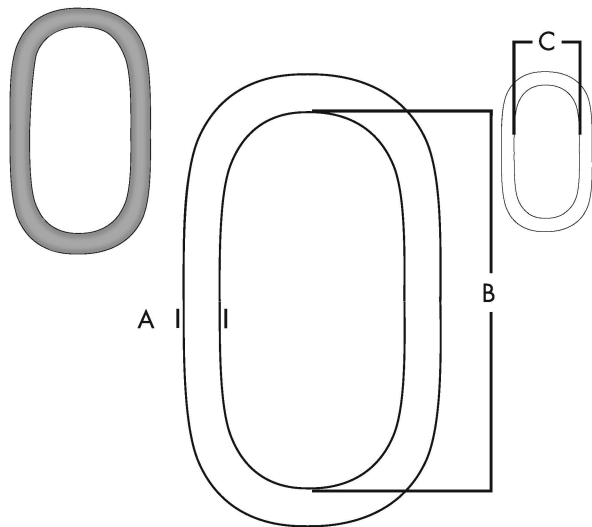
Container Lifting Lugs

Do Not Exceed Rated Capacities

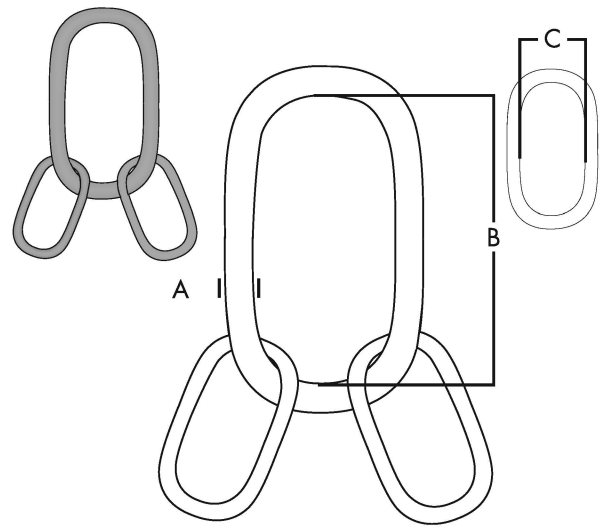
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

OBLONG MASTER LINK



OBLONG MASTER LINK SUB ASSEMBLY



DIMENSIONS

Nominal Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
1/2"	0.51	4.33	2.36	5,300
5/8"	0.63	4.33	2.36	7,400
3/4"	0.75	5.31	2.95	11,200
7/8"	0.91	6.30	3.54	15,200
1"	1.06	7.09	3.94	26,400
1 - 1/4"	1.30	7.87	4.33	39,700
1 - 1/2"	1.50	10.83	5.91	61,100
1 - 3/4"	1.77	13.39	7.09	79,300
2"	1.97	13.78	7.48	103,600
2 - 1/4"	2.36	15.75	7.87	132,200

DIMENSIONS

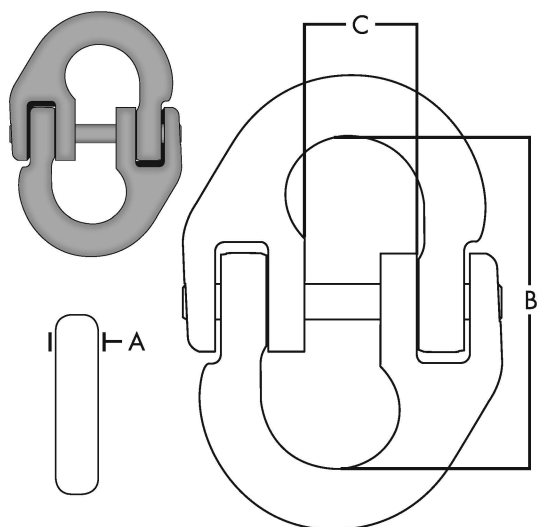
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	0.75	5.31	2.95	11,200
9/32"	0.75	5.31	2.95	11,200
5/16"	0.91	6.30	3.54	15,200
3/8"	1.06	7.09	3.94	22,900
1/2"	1.30	7.87	4.33	39,700
5/8"	1.50	10.83	5.91	61,100
3/4"	2.00	13.78	7.48	91,700
7/8"	2.21	13.78	9.84	110,900
GRADE 80 ONLY				
1"	2.30	16	8	123,900
1 - 1/4"	2.80	16	9	187,800

Do Not Exceed Rated Capacities

Inspect All Slings Before Use

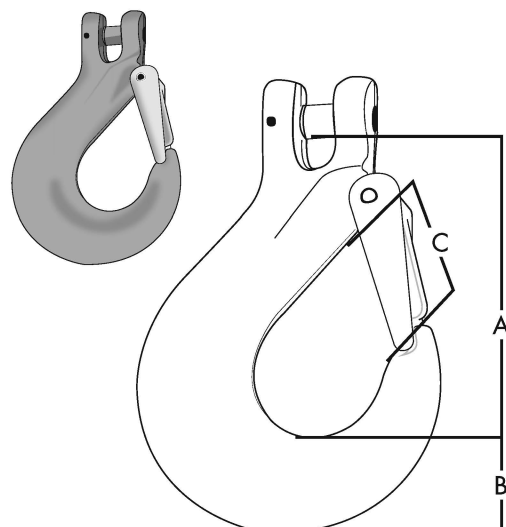
ALLOY CHAIN SLING COMPONENTS

ALLOY COUPLING LINK



DIMENSIONS				
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	0.30	1.73	0.55	2,700
9/32"	0.35	2.01	0.67	4,300
5/16"	0.39	2.42	0.71	5,700
3/8"	0.50	2.83	0.89	8,800
1/2"	0.66	3.47	1.08	15,000
5/8"	0.83	4.06	1.30	22,600
3/4"	0.93	4.53	1.63	35,300
7/8"	1.06	5.32	1.91	42,700
GRADE 80 ONLY				
1"	2.30	5.80	2.30	47,700
1 - 1/4"	1.60	7.60	3.10	72,300

CLEVIS SLING HOOK WITH LATCH



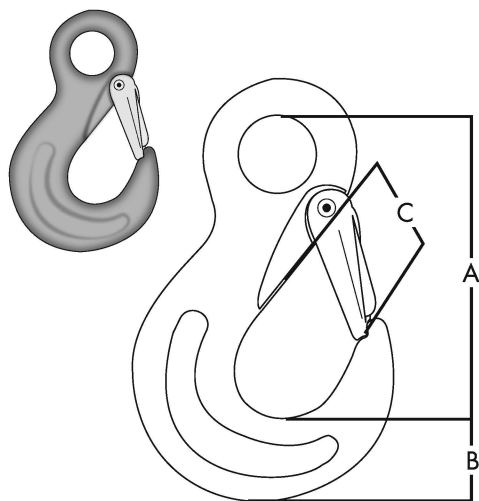
DIMENSIONS				
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	2.72	0.79	0.75	2,700
9/32"	3.72	1.10	1.02	4,300
5/16"	3.72	1.10	1.02	5,700
3/8"	4.29	1.30	1.22	8,800
1/2"	5.32	1.58	1.54	15,000
5/8"	6.10	1.85	1.77	22,600
3/4"	7.21	1.97	2.09	35,300
7/8"	8.35	2.40	2.40	42,700

Do Not Exceed Rated Capacities

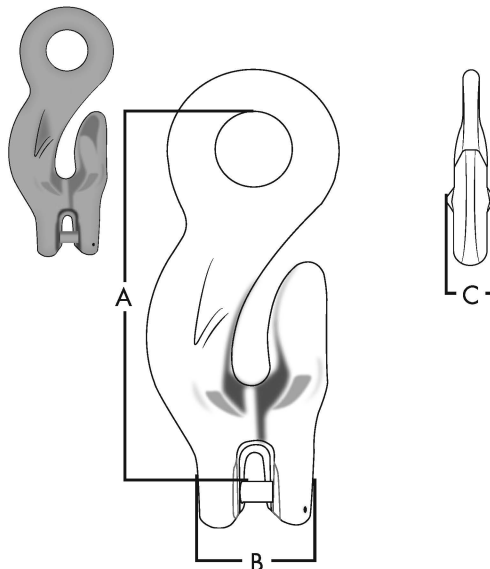
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

EYE SLING HOOK WITH LATCH



IN-LINE CHAIN SHORTENER



DIMENSIONS

Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	3.33	0.83	0.75	2,700
9/32"	4.17	1.06	0.98	4,300
5/16"	4.17	1.06	0.98	5,700
3/8"	5.16	1.30	1.22	8,800
1/2"	6.46	1.65	1.54	15,000
5/8"	7.19	1.97	1.77	22,600
3/4"	8.08	2.13	2.13	35,300
7/8"	8.86	2.40	2.40	42,700
GRADE 80 ONLY				
1"	9.90	3.10	3.10	47,700
1 - 1/4"	11.50	3.90	3.80	72,300

DIMENSIONS

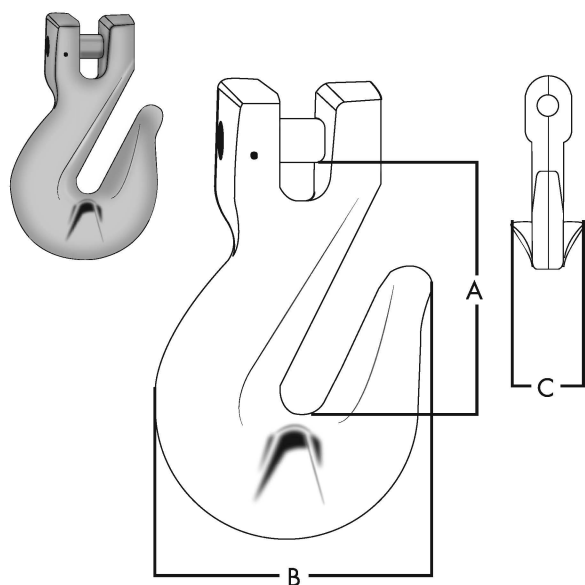
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	3.31	1.46	1.14	2,700
9/32"	4.80	2.13	1.54	4,300
5/16"	4.80	2.13	1.54	5,700
3/8"	6.26	2.76	2.00	8,800
1/2"	7.99	3.62	2.52	15,000
5/8"	9.21	4.02	3.15	22,600

Do Not Exceed Rated Capacities

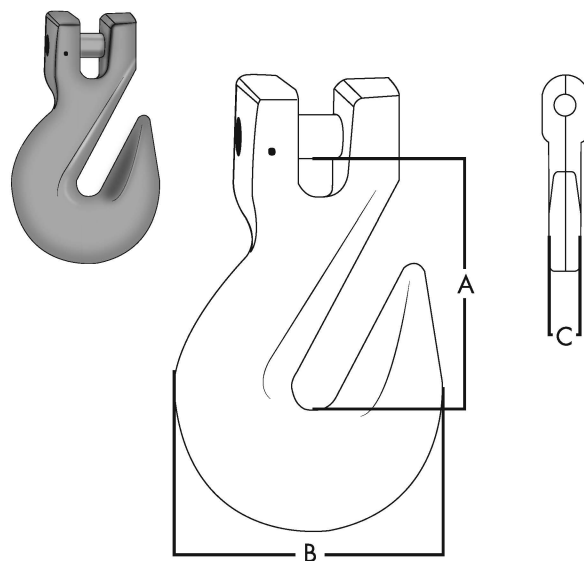
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

CLEVIS CRADLE GRAB HOOK



CLEVIS CRADLE-LESS GRAB HOOK



Working load limits represents a 20% reduction due to cradle-less configurations.

DIMENSIONS

Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
9/32"	2.20	2.54	1.50	4,300
5/16"	2.20	2.54	1.50	5,700
3/8"	2.58	3.09	1.83	8,800
1/2"	3.28	3.83	2.25	15,000
5/8"	3.85	4.52	2.94	22,600

DIMENSIONS

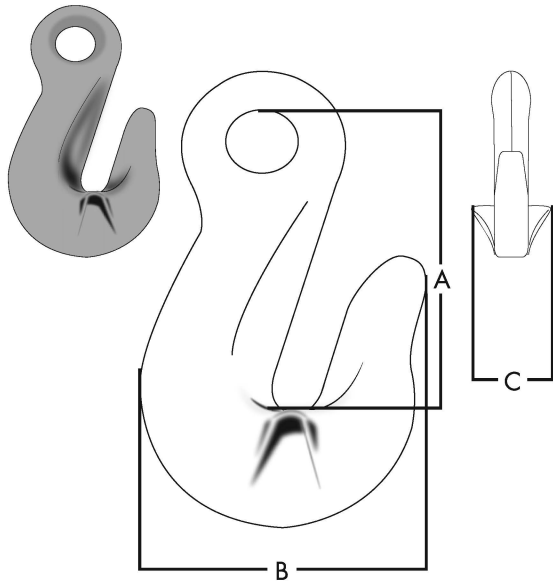
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
9/32"	2.20	2.54	0.88	3,440
5/16"	2.20	2.54	0.88	4,560
3/8"	2.58	3.09	1.09	7,040
1/2"	3.28	3.83	1.42	12,000
5/8"	3.85	4.52	1.75	18,080

Do Not Exceed Rated Capacities

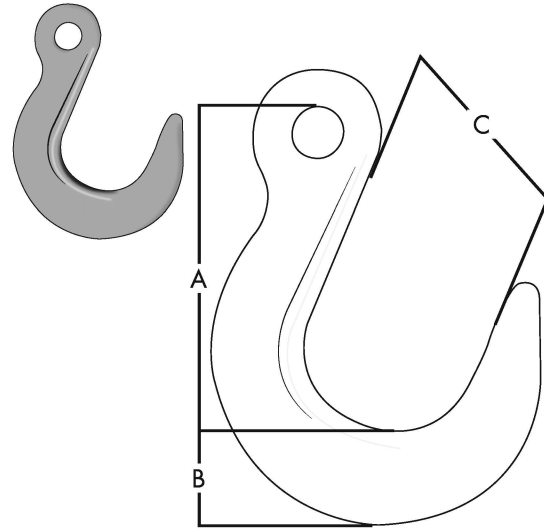
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

EYE CRADLE GRAB HOOK



EYE FOUNDRY HOOK



DIMENSIONS

Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	2.20	1.68	0.92	2,700
9/32"	2.58	1.93	1.07	4,300
3/8"	3.27	2.86	1.38	8,800
1/2"	4.23	3.69	1.81	15,000
5/8"	5.06	4.53	2.13	22,600
3/4"	6.70	5.23	2.88	35,300
GRADE 80 ONLY				
7/8"	6.50	5.70	3.00	34,200
1"	8.10	7.00	3.90	47,700
*1 - 1/4"	10.50	8.50	3.50	72,300

*Not a cradle type Grab Hook

DIMENSIONS

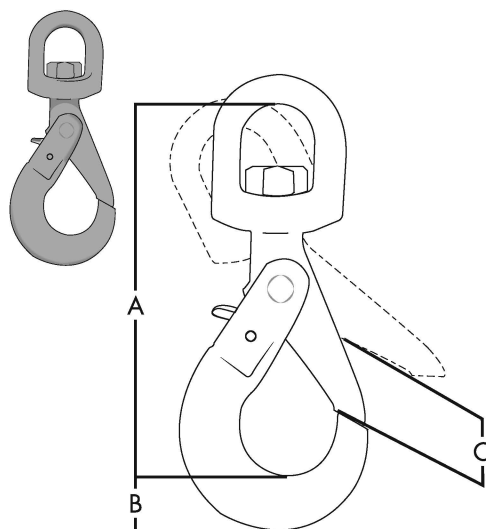
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
9/32"	4.82	1.22	2.52	4,300
5/16"	4.82	1.22	2.52	5,700
3/8"	5.87	1.42	3.07	8,800
1/2"	6.95	1.69	3.50	15,000
5/8"	8.07	1.97	3.94	22,600
3/4"	9.33	2.40	4.53	35,300
7/8"	12.25	3.07	5.50	44,100
1"	13.37	3.31	6.00	59,700
1 - 1/4"	15.25	3.84	6.50	90,400

Do Not Exceed Rated Capacities

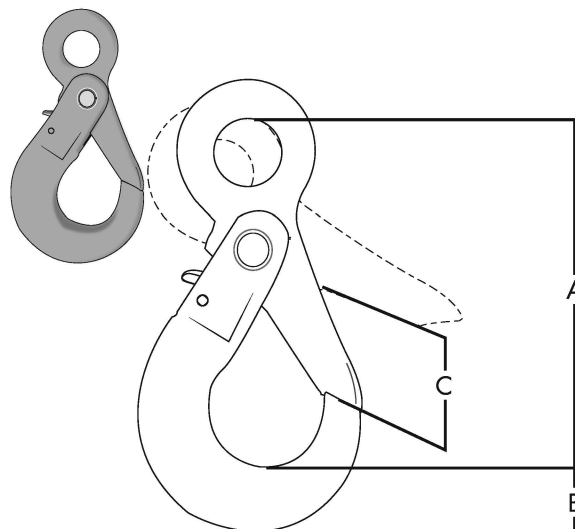
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

SWIVEL SELF LATCHING HOOK



EYE SELF LATCHING HOOK



DIMENSIONS

Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	6.30	0.81	1.10	2,700
9/32"	7.13	1.02	1.34	4,300
5/16"	7.13	1.02	1.34	5,700
3/8"	8.58	1.18	1.77	8,800
1/2"	10.59	1.58	2.03	15,000
5/8"	12.56	1.97	2.36	22,600
3/4"	17.42	2.22	3.52	35,300
7/8"	16.47	2.45	3.83	44,100

DIMENSIONS

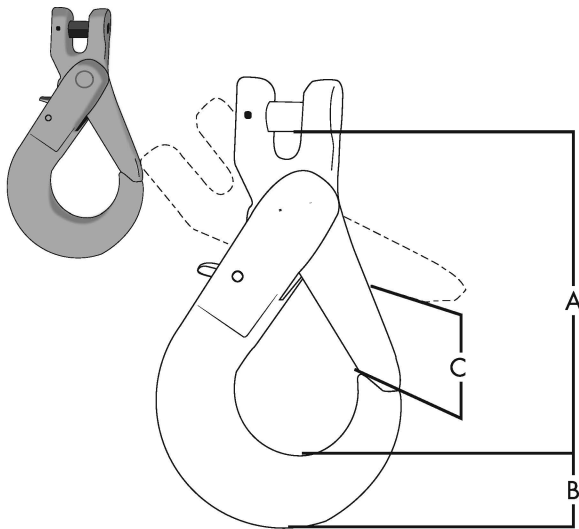
Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	4.33	0.81	1.10	2,700
9/32"	5.35	1.02	1.34	4,300
5/16"	5.35	1.02	1.34	5,700
3/8"	6.63	1.18	1.77	8,800
1/2"	8.07	1.58	2.03	15,000
5/8"	9.90	1.97	2.36	22,600
3/4"	10.77	2.22	3.52	35,300
7/8"	12.50	2.45	3.83	42,700
1"	14.60	3.21	4.09	59,700

Do Not Exceed Rated Capacities

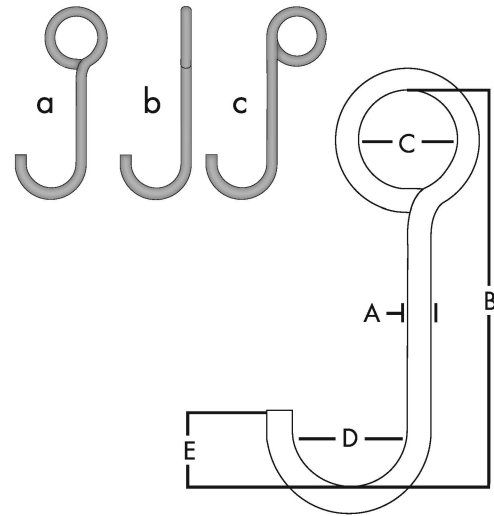
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

CLEVIS SELF LATCHING HOOK



ALLOY STEEL J-HOOKS



Working load limits represents manufacture's 3:1 design factor. Capacities will be reduced in most applications.

DIMENSIONS

Chain Size	A (IN)	B (IN)	C (IN)	Working Load Limit (LBS)
GRADE 100/80				
7/32"	3.70	0.81	1.10	2,700
9/32"	4.84	1.02	1.34	4,300
5/16"	4.84	1.02	1.34	5,700
3/8"	5.65	1.18	1.77	8,800
1/2"	7.07	1.58	2.03	15,000
5/8"	8.54	1.97	2.36	22,600
3/4"	9.42	2.22	3.52	35,300
7/8"	11.14	2.45	3.83	42,700
1"	12.56	3.21	4.09	59,700

DIMENSIONS

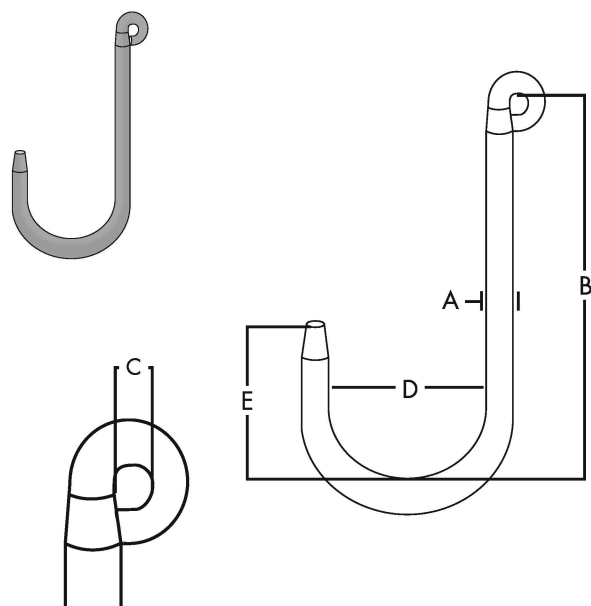
Chain Size	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	Working Load Limit (LBS)
1/4"	0.25	5.00	1.00	1.25	0.87	100
5/16"	0.31	5.00	1.00	1.25	0.87	250
3/8"	0.38	6.00	1.00	1.50	1.12	365
1/2"	0.50	8.00	1.00	2.00	1.50	650
5/8"	0.62	9.00	1.00	2.50	1.87	1,000
3/4"	0.75	10.00	1.00	3.00	2.25	1,450
7/8"	0.87	12.00	1.00	3.50	2.62	1,900
1"	1.00	14.00	1.25	4.00	3.00	2,600

Do Not Exceed Rated Capacities

Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

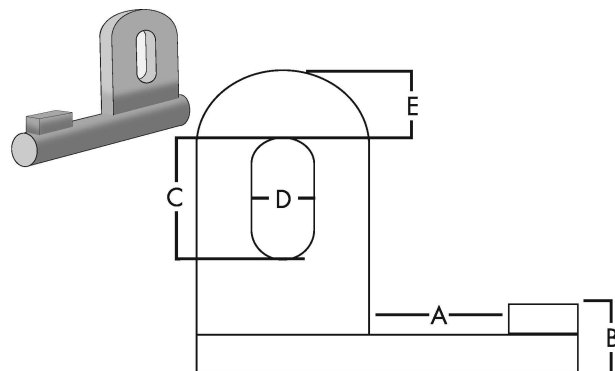
ALLOY STEEL FOUNDRY HOOK



DIMENSIONS

Nominal Size	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	Working Load Limit (LBS)
LONG REACH FOUNDRY HOOKS						
1/2"	0.50	6.00	0.75	2.50	2.31	500
5/8"	0.62	8.50	0.75	3.50	3.38	800
3/4"	0.75	8.50	0.75	3.50	3.38	1,250
13/16"	0.81	8.50	0.88	3.50	3.25	1,600
1"	1.00	8.50	1.00	4.00	3.75	2,500
SHORT REACH FOUNDRY HOOKS						
1/2"	0.50	6.00	0.75	3.00	3.00	450
5/8"	0.62	6.00	0.75	3.00	3.00	900
3/4"	0.75	6.00	0.75	3.00	3.00	1,400
13/16"	0.81	6.00	0.88	3.00	3.00	2,000
1"	1.00	6.00	1.00	3.00	3.00	3,000

MANHOLE TOGGLE KEY



DIMENSIONS

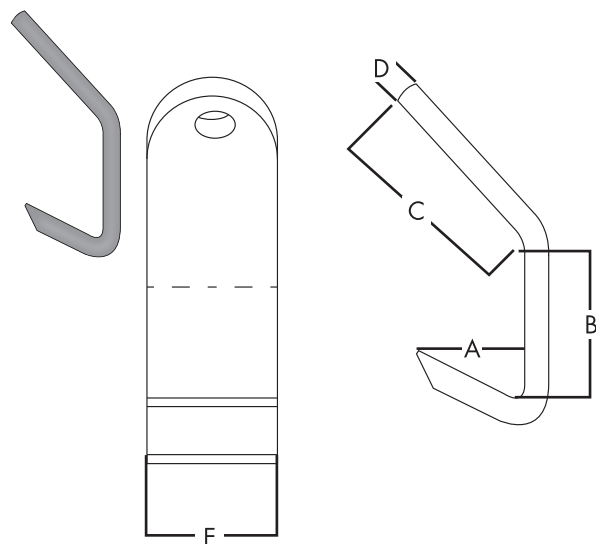
A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	Working Load Limit (LBS)
11.00	1.25	2.00	1.25	0.75	2,200
8.25	1.13	2.00	1.25	0.75	3,200
6.00	1.25	2.00	1.25	0.75	3,400
4.00	1.25	2.00	1.25	0.75	3,500

Do Not Exceed Rated Capacities

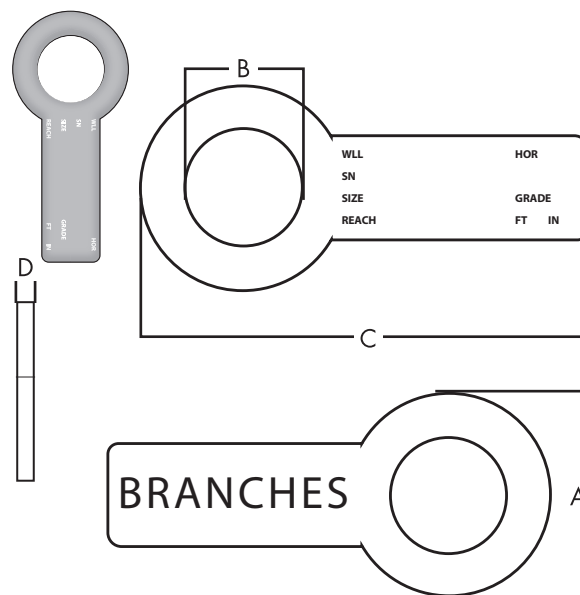
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

PLATE LIFTING HOOK



ID TAG



DIMENSIONS

Chain Size	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	Working Load Limit (LBS)
GRADE 100/80						
9/32"	2.00	1.75	2.50	0.63	2.50	4,300
3/8"	2.63	3.00	4.31	0.75	2.75	8,800
1/2"	3.50	4.00	4.38	1.00	3.50	15,000
5/8"	4.38	5.00	5.44	1.25	5.00	22,600
GRADE 80 ONLY						
3/4"	4.50	6.00	5.88	1.50	5.19	28,300
7/8"	5.25	7.00	6.94	1.75	6.00	34,200

Durable steel identification tag that has space to stamp OSHA, and ASME required information. Used on alloy chain slings.

TAG DIMENSIONS

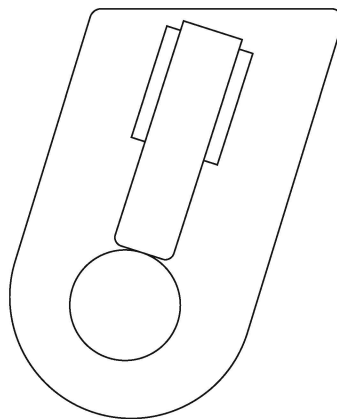
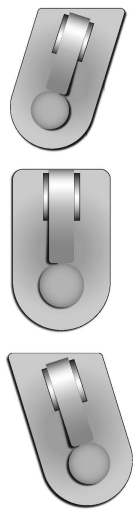
A (IN)	B (IN)	C (IN)	D (IN)
2	1.25	4.38	0.19

Do Not Exceed Rated Capacities

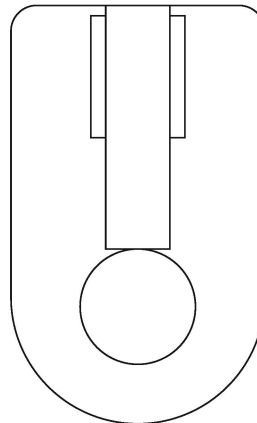
Inspect All Slings Before Use

ALLOY CHAIN SLING COMPONENTS

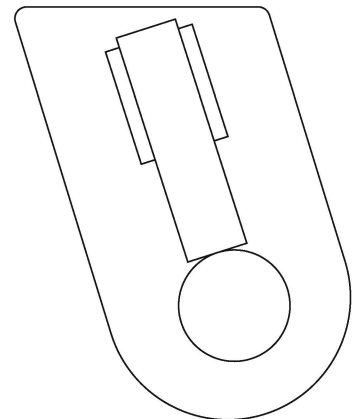
CONTAINER LIFTING LUGS



Left



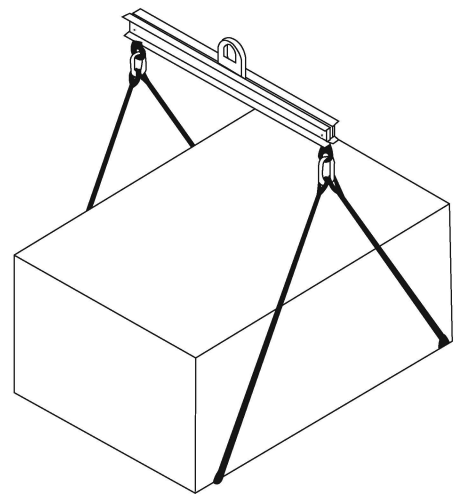
Straight



Right

Allowing for an efficient way to lift intermodal containers.
Container Lifting Lugs are also shipped with certification paperwork.

- Manufactured to meet ASME B30.20 standards
- Manufactured in U.S.A.
- Container Lifting Lugs are sold separately
- Container Lifting Lugs must be horizontal for engagement when lifting



DIMENSIONS

Color	Style	Weight (LBS)	Working Load Limits (LBS)
Yellow	Straight	17	19,000
Blue	Left	17	19,000
Red	Right	17	19,000

Note:

Two left and two right Container Lifting Lugs are required to lift a typical container. Some containers may require four straight Container Lifting Lugs with correct spreader or lifting beam and rigging.

Do Not Exceed Rated Capacities

Inspect All Slings Before Use

NOTES
