

WARNING & APPLICATION INSTRUCTIONS CROSBY® SHUR-LOC® HOOK

S-1316A, S-1317A, S-318A,
S-1326A, S-13326

theCrosbygroup®

P.O. Box 3128
Tulsa, Oklahoma 74101

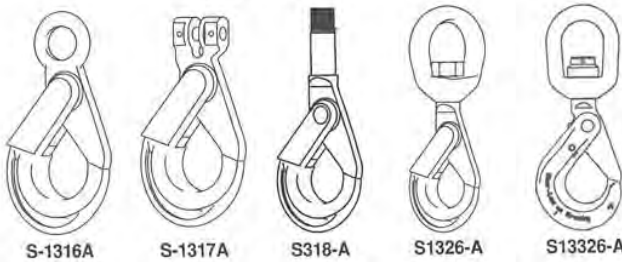
(918) 834-4611

www.thecrosbygroup.com

P/N 1701343

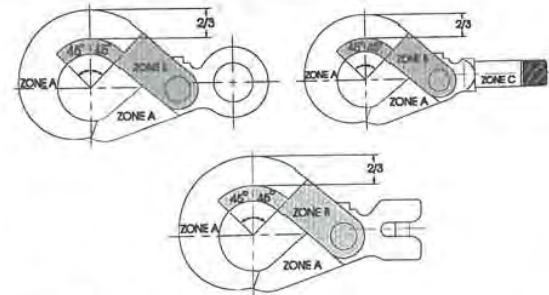
PPG 25M 11/11 Rev. 6

CROSBY® SHUR-LOC® HOOK WARNING & APPLICATION INSTRUCTIONS



Important Safety Information - Read and Follow

- A visual periodic inspection for cracks, nicks, wear, gouges and deformation as part of a comprehensive documented inspection program, should be conducted by trained personnel in compliance with the schedule in ANSI B30.10.
- For hooks used in frequent load cycles, pulsating loads, or severe duty as defined by ASME B30.10, the hook and threads should be periodically inspected by Magnetic Particle or Dye Penetrant. (Note: Some disassembly may be required.)
- Never use a hook whose throat opening has been increased 5%, not to exceed 1/4" (6mm) or shows any visible apparent bend or twist from the plane of the unbent hook, or is in any other way distorted or bent. **NOTE: A latch will not work properly on a hook with a bent or worn tip.**
- Never use a hook that is worn beyond the limits shown in Figure 1.
- Remove from service any hook with a crack, nick, or gouge. Hooks with a nick, or gouge shall be repaired by grinding lengthwise, following the contour of the hook, provided that the reduced dimension is within the limits shown in Figure 1. Contact Crosby Engineering to evaluate any crack.
- Never repair, alter, rework, or reshape a hook by welding, heating, burning, or bending.
- Never side load, back load or tip load a hook. Side loading, back loading and tip loading are conditions that damage and reduce the capacity of the hook. (See Figure 2)
- S-1326A can be used for limited rotations under load (infrequent, noncontinuous).
- Efficiency of synthetic sling material may be reduced when used in eye or bowl of hook.
- Always make sure the hook supports the load. (See Figure 3).
- Do not use hook tip for lifting (See Figure 4).
- When placing two (2) sling legs in hook, make sure the angle from vertical to the leg nearest the hook tip is not greater than 45 degrees, and the included angle between the legs does not exceed 90 degrees* (See Figure 5).
- See ANSI/ASME B30.10 "Hooks" for additional information.
- * For two legged slings with angles greater than 90°, use an intermediate link such as a master link or bolt type shackle to collect the legs of the slings. The intermediate link can then be placed over the hook to provide an in-line load on the hook. This approach must also be used when using slings with three or more legs.



ZONE A: 10% OF ORIGINAL DIMENSION
ZONE B: 5% OF ORIGINAL DIMENSION
ZONE C: SEE MINIMUM THREAD SIZE CHART

FIGURE 1

WARNING

- Loads may disengage from hook if proper procedures are not followed.
- A falling load may cause serious injury or death.
- Positive locking latch will unlock when trigger is depressed. Never use hook unless hook and latch are fully closed and locked.
- Keep body parts clear of pinch point between hook tip and hook latch when closing.
- Keep hand(s) from between throat of hook and sling or other device.
- Do not use hook tip for lifting.
- Shank threads may corrode and/or strip and drop the load.
- Remove securement nut to inspect threads for corrosion or to replace S-1326A bearing washers (2) and or S-13326 thrust bearing.
- Never apply more force than the hook's assigned Working Load Limit (WLL) rating.
- See OSHA Rule 1926.1431(g) and 1926.1501(g) for personnel hoisting by cranes or derricks. A Crosby 318A, 1326A, 13326, 1316A, or 1317A hook may be used for lifting personnel.
- Use only genuine Crosby parts as replacements.
- Read and understand these instructions before using hook.

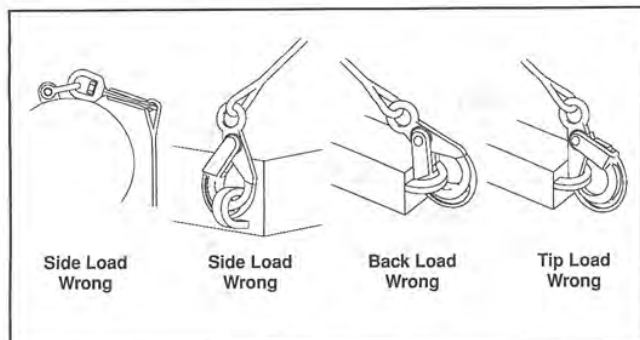


FIGURE 2

Important Basic Machining and Thread Information Read and Follow

- Wrong thread and/or shank size can cause stripping and loss of load.
- The maximum diameter is the largest diameter, after cleanup, that could be expected after allowing for straightness, pits, etc.
- All threads must be Class 2 or better.
- The minimum thread length engaged in the nut should not be less than one (1) thread diameter.
- Hook shanks are not intended to be swaged on wire rope or rod.
- Hook shanks are not intended to be drilled (length of shank) and internally threaded.
- Crosby cannot assume responsibility for, (A) the quality of machining, (B) the type of application, or (C) the means of attachment to the power source or load.
- Consult the Crosby Hook Identification & Working Load Limit Chart (See below) for the minimum thread size for assigned Working Load Limits (WLL).†
- Remove from service any Hook which has threads corroded more than 20% of the nut engaged length.

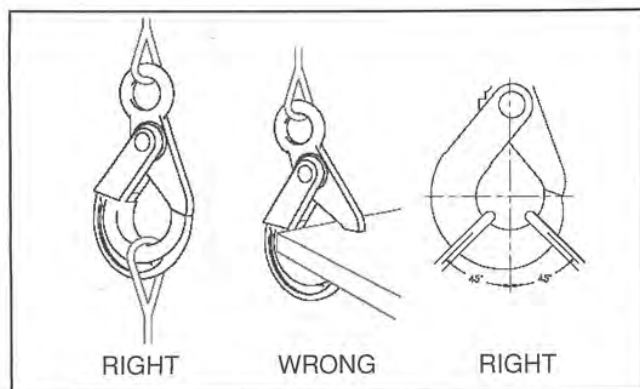
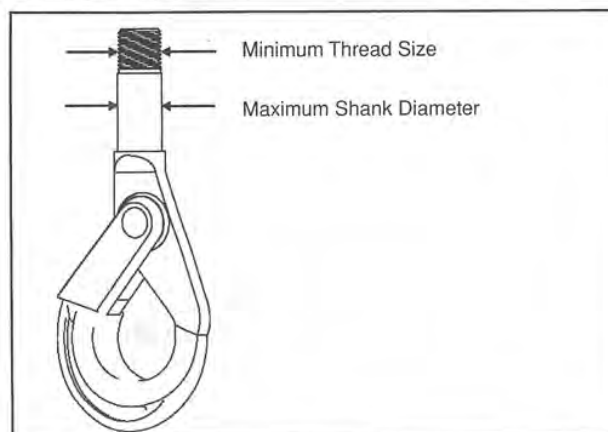


FIGURE 3

FIGURE 4

FIGURE 5



Crosby® Hook Identification & Working Load Limit Chart†

S-1316A & S-1317A Only Grade 100 Chain			S-318A, S-1326A					S-318A Only		
Chain Size		Working Load Limit (lbs.)** 4:1	Grade 80 Chain			Wire Rope XXIP Mechanical Splice		Maximum Shank Diameter		Minimum Thread Size
			Chain Size		Working Load Limit (lbs.)** 4:1	Wire Rope Size (in.)	Working Load Limit (lbs.)** 5:1			
(in.)	(mm)		(in.)	(mm)				(in.)	(mm)	
—	6	3200	—	6	2500	5/16	2200	.72	18	1/2 - 13 UNC
1/4	7	4300	1/4	7 - 8	3500	7/16	4200	.94	24	5/8 - 11 UNC
5/16	8	5700	5/16	8	4500	7/16	4200	.94	24	5/8 - 11 UNC
3/8	10	8800	3/8	10	7100	1/2	5600	1.06	27	3/4 - 10 UNC
1/2	13	15000	1/2	13	12000	5/8	8600	1.19	30	1" - 8 UNC
5/8	16	22600	5/8	16	18100	7/8	16600	1.38	35	1-1/4 - 7 UNC
3/4	18/20	35300	3/4	18-20	28300	1	22000	—	—	—
7/8	22	42700	7/8	22	34200	1-1/8	26500	—	—	—
1	26	59700	1	26	47700	1-1/4	32500	—	—	—

* Ultimate Load is 5 times the Working Load Limit based on XXIP Wire Rope.

** Ultimate Load is 4 times the Working Load Limit based on Grade 80 or Grade 100 Chain.

† Working Load Limit - The maximum mass of force which the product is authorized to support in general service when the pull is applied in-line, unless noted otherwise, with respect to the centerline of the product. This term is used interchangeably with the following terms: 1. WLL, 2. Rated Load Value, 3. SWL, 4. Safe Working Load, 5. Resultant Safe Working Load.

Test Certificate Form No. Gr. 8 - 10


CERTIFICATE OF TEST AND EXAMINATION OF GRADE 80 & 100 CHAIN FITTINGS

This certificate when properly executed by a competent person, substantially meets the reporting requirements of ABS 13.2 and I.L.O. Form 4.

Spectrum 8® (Grade 80) Fittings	Spectrum 10® (Grade 100) Fittings
A-327 Eye Sling Hook	S-1326 SHUR-LOC® Swivel Hook
A-328 Eye Grab Hook	S-13326 SHUR-LOC® Swivel Hook with bearing
A-329 Eye Foundry Hook	S-1316 SHUR-LOC® Eye Hook
A-338 Clevis Grab Hook	S-1317 SHUR-LOC® Clevis Hook
A-339 Clevis Sling Hook	S-1325 Chain Coupler Link
	S-1327 Eye Sling Hook
	A-1328 Eye Grab Hook
	A-1329 Eye Foundry Hook
	A-1338 Cradle Grab Hook
	A-1339 Clevis Sling Hook
	A-1355 Chain Choker Hook
	A-1358 Clevis Grab Hook
	A-1359 Clevis Foundry Hook
	A-1311N Chain Shortener Link

Material Type	(1) Distinguishing Number or Mark (if any)	(2) Description of Gear	(3) Proof Load Applied (lbs.)	(4) Working Load Limit (lbs.)
Grade 80	1/4 - (9/32)	—	8,750	3,500
Grade 80	3/8	—	17,750	7,100
Grade 80	1/2	—	30,000	12,000
Grade 80	5/8	—	45,250	18,100
Grade 80	3/4	—	70,750	28,300
Grade 80	7/8	—	85,500	34,200
Grade 100	—	6	8,000	3,200
Grade 100	1/4	7	10,750	4,300
Grade 100	5/16	8	14,250	5,700
Grade 100	1/4 - 5/16	7 - 8	14,250	5,700
Grade 100	3/8	10	22,000	8,800
Grade 100	1/2	13	37,500	15,000
Grade 100	5/8	16	56,500	22,600
Grade 100	3/4	18-20	88,250	35,300
Grade 100	7/8	22	106,750	42,700
Grade 100	7/8	22-23	110,250	44,100
Grade 100	1	26	149,250	59,700
Grade 100	1 1/4	32	226,000	90,400
Grade 100	1/4 - 5/16	7 - 8	11,400	5,700
Grade 100	3/8	10	17,600	8,800
Grade 100	1/2	13	30,000	15,000
Grade 100	5/8	16	45,200	22,600

(5) Name and address of makers or suppliers: **The Crosby Group LLC 2801 Dawson Road, Tulsa, Ok 74110**(6) Name and address of public service, association, company or firm making the test and examination: **The Crosby Group LLC 2801 Dawson Road, Tulsa, Ok 74110**(7) Position of signatory in public service, association, company or firm: **Group Quality Control Manager**

I certify that above gear was tested and examined by a competent person; that the examination showed that the said gear withstood the proof load without injury or deformation; and the working load limit of the said gear is a shown in Column 4.

(Signature)



Note: For purpose of this certificate, a competent person is defined as an appointed, technically-qualified employee of the manufacturer.

HOW TO ASSEMBLE A CROSBY CLEVIS TYPE FITTING



1. Place a chain link into clevis slot of fitting. Insert pin fully into the clevis ears.



2. Place the fitting on its side and using a hammer, drive the locking pin into the clevis ear until it is flush with the outside surface.

PROPER APPLICATION OF A-1355 CHAIN CHOKER HOOK



1. Ensure proper orientation of A-1355. Hook tip faces away from S-1325 Coupler Link.



2. When assembled properly, back of A-1355 chain choker hook should rest against load as shown.

theCrosby[®]group

P.O. Box 3128

Tulsa, Oklahoma 74101-3128

(918) 834-4611

www.thecrosbygroup.com

crosbygroup@thecrosbygroup.com

PPG50M 11/11 REV. 7

Stock No. 9999841

EDP#1701350

IMPORTANT TEST CERTIFICATE FOR GRADE 8 AND GRADE 10 CHAIN FITTINGS

S-1326, S-13326, A-327, A-328, A-329, A-338,
A-339, S-1311N, S-1316, S-1317, S-1325,
S-1327, A-1328, A-1329, A-1338, A-1339,
A-1355, A-1358, A-1359