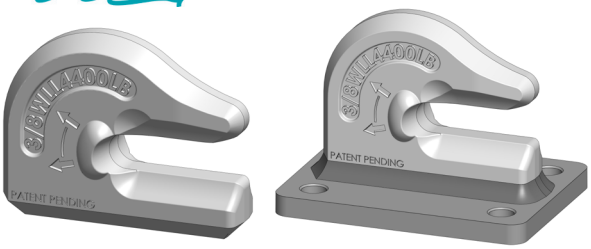
SUNCOR® Grab Hooks Warnings & Instructions



S0459-G **S0459-GB**

Important Safety Information
– Read & Follow –

OPERATION:

- Misuse, abuse, or selecting the wrong product could result in damage, severe injury, or death.
- Always make a visual inspection before each use and do not use if there is any damage. Visual checks are essential for safe operations.
- Always apply loads gradually.
- Never exceed specified Working Load Limit (WLL).
- Maintain the in-plane load within load arrows range indicated on the hook as illustrated in Fig.1 below. Never load the chain if not in-line. Maintain side loading within 15˚ of each side as illustrated in Fig.2.

Fig.1

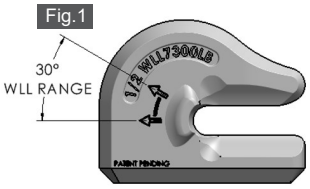
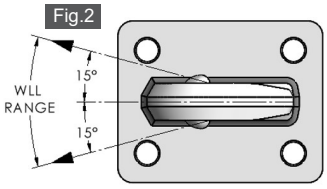


Fig.2



- Attach chains using loop and chocker methods.
- Do not attach multiple loaded chains to an individual hook.
- Never tip or side load hook.
- Never use the hook for hoisting personnel.

INSPECTIONS:

- The user should visually inspect hooks before any application. A compliant person should perform regular inspections according to ASME B30.10.
- Never use a hook that has bent or distorted parts.
- For bolt-on type, check the base plate for bending and nuts for looseness. If any part damaged, replace hook. If bolts are loose and there is no damage re-tighten to specified torque.
- Never use hooks that show signs of wear or corrosion.
- If the gap for the chain has increased more than 5%, replace hook to avoid disengagement that could cause damage or personal injury.
- If a shock load occurred, replace the hook. There could be internal cracks or damage not visible.
- Remove hooks that do not pass inspection.
- Purchase any replacement parts through Suncor Stainless. Any substitutions will void warranty. Use only ASTM F593G 316 stainless steel bolts.
- If there are any uncertainties or questions regarding a fitting, please contact Suncor Stainless for additional assistance.

DISCLAIMER:

All grab hooks should be thoroughly inspected before each use and replaced if found defective. To ensure long life for grab hooks, inspect regularly! When noticeable wear appears on the grab hook, replace it. Use only Suncor replacement components. Contact Suncor for replacement parts. Do not alter Suncor's product. Any alteration to Suncor products voids all said and implied warranties, guarantees, and liabilities.

⚠ WARNING

- Any user/installer must read and understand these instructions before welding on, bolting on, or using hook.
- These saftey instructions are to be kept on file for reference for the lifetime of the hook.
- Misuse, abuse, or selecting the wrong product could result in damage, severe injury, or death.
- Working Load Limit (WLL) rating is based on a new and professionally installed fitting. Never exceed the assigned WLL.
- Do not use SUNCOR weld on or bolt on hook for lifting humans.
- Loads may disengage from hook if proper procedures are not followed.
- Do not stand under overhead loads. A falling load may cause serious injury or death.
- Avoid shock loading! DO NOT continue to use this product after a major shock loading, even if there is no visible signs of damage or deformity present. A shock load can be greater than the static WLL.

Installation Instructions

Lifting/pulling object material must be of stainless steel equivalent ultimate strength of 80,000 psi or greater to meet load rating. The mounting structure must be sufficient enough to support the loads. The mounting area should be clean, smooth, flat, and not have any corrosion, rust, or cracks. Do not alter, modify, or bend the hooks to fit to a mounting surface. Load points on machinery or equipment must only be placed in locations approved by original equipment manufacturers. Location and position must be in-line with the direction of the applied load. Ensure the hook/chain will not interfere with other operations or create pinch points.

WELD ON INSTALLATION:

Only qualified and trained personnel should perform the welding process and in accordance with American Welding Society (AWS). Electrodes should also be accordance with AWS and use the recommendations.

Table 1

PART NUMBER	WLL (lbs.)	MIN. WELD BEAD SIZE
S0459-G007	2,200	3/16"
S0459-G008	2,700	3/16"
S0459-G010	4,400	1/4"
S0459-G013	7,300	5/16"

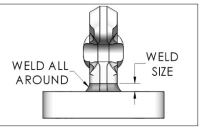


***Table 1,** Minimum Fillet Weld Size*

- Remove paint prior to welding.
- Weld bead should be continuous all around in single pass.
- Avoid overheating. Do not rapidly cool weld.
- Inspect weld for any imperfections. No cracks, pitting, or inclusions are permitted
- Repair any weld imperfections.
- The holding strength of the hook depends on the quality of the weld.
- Perform WLL pull test to validate installation process before using.

BOLT ON INSTALLATION:

Mount the bolt on hook only with ASTM F593G 316 stainless steel hex bolts for proper strength. Do not use 18-8 stainless steel or other grade of lesser strength. Avoid socket head cap screws as they may interfere with chain operations. The bolt hook base can be used as drill guide.

Table 2

PART NUMBER	WLL (lbs.)	BOLT SIZE	HOLE DRILL SIZE	TORQUE (ft-lb.) min.	BACKING PLATE PART NUMBER	F593G HEAD MARKING
S0459-GB07	2,200	5/16"	.323 (21/64")	12	S0459-UB07	
S0459-GB08	2,700	3/8"	.390 (25/64")	22	S0459-UB08	
S0459-GB10	4,400	3/8"	.390 (25/64")	22	S0459-UB10	
S0459-GB13	7,300	1/2"	.516 (33/64")	54	S0459-UB13	

- After locating the position, drill holes using drill sizes in Table 2.
- Use only locknuts to avoid a fastener loosening from vibrations.
- Use stainless steel washers under locknuts.
- Use backing plates for additional strength reinforcement, if required.
- Tighten the locknuts nuts to the dry torque specifications in Table 2.
- Perform WLL pull test to validate installation process before using.

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