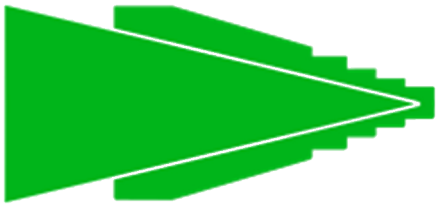
RenQuip

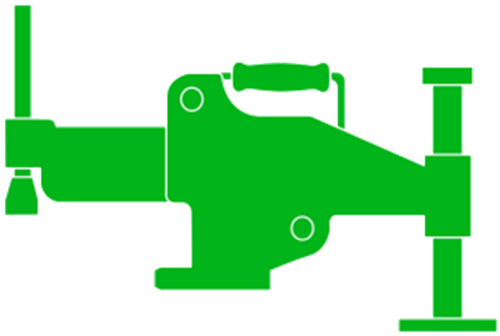
Talon

OPERATION MANUAL

Talon

Flange Lifting Hook









Engineered Energy Equipment

www.renquip.com



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1.0 Introduction

The RenQuip Talon is a lifting device designed and manufactured to assist in the safe lifting and handling of flanges.

The Talon is manufactured and tested in accordance with EN-13155 from high quality Fram alloy steel.

The RenQuip Talon has two articulated lifting arms which allow movement to suit flange bolt hole pitch and is available in a wide range of sizes with varying lifting pin diameters, lengths and lifting capacities.

Retention pins are fitted with securing chains to remove the potential for dropped objects.

Specially selected bow type lifting shackle reduces likelihood of snagging.

When the flange is held by the Talon due to the angle of the lifting arms the flange is tilted slightly backwards adding additional stability and allowing technicians an improved inspection and maintenance position of flange face and gaskets.

The RenQuip Talon is proof load tested to twice the Safe Working Load and provided with appropriate certification including operations manual.

2.0 Safety Information

User Safety

TALON HOOK MUST BE VISUALLY INSPECTED PRIOR TO EACH USE

1. The User **must be competent** in lifting and rigging operations.
2. The User must read and understand the relevant Operation Manual for the Equipment.
3. The User must wear the correct Personal Protective Equipment.
4. Do **NOT** walk under a suspended load.
5. Adhere to all relevant safety requirements for country and region.
6. Beware of finger entrapment.
7. Always wear gloves when handling the hook.
8. Ensure load is secure and stable prior to lifting operations.
9. Always use safe manual handling practises.
10. Do **NOT** use clamp for lifting, supporting or transporting people or supporting loads over people.
11. Never leave a suspended load unattended.
12. Ensure smooth lifting operations, Avoid bouncing or swinging load.
13. Do **NOT** drop or throw hook.
14. Do **NOT** allow load to swing, load must be controlled at all times.





! WARNING

Equipment Safety

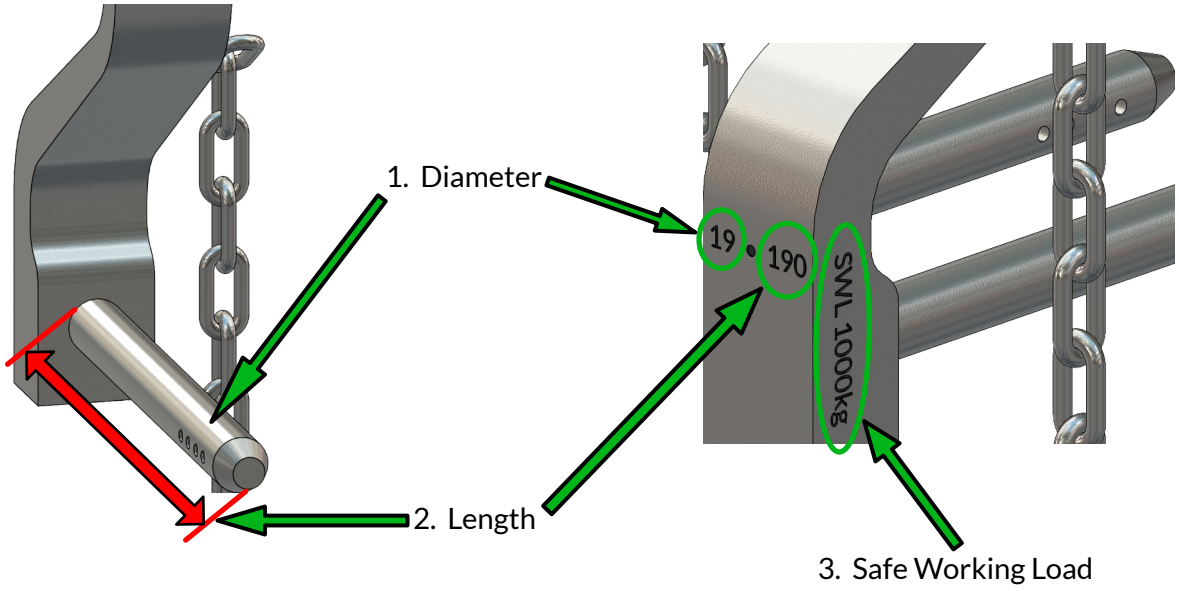
1. Inspect all equipment prior to use for any signs of damage, deformity and wear.
2. Ensure selected Talon hook has a sufficient Safe Working Load for flange weight.
3. Ensure hook lifting pin length and diameter are suitable for flange thickness and bolt hole diameter.
4. Ensure associated lifting equipment is fit for purpose, correctly marked, and relevant documentation is available.
5. Ensure the working area is free from hazards to the equipment such as sharp objects, heat sources , moving machinery or vehicles.
6. Carry / transport equipment with care.
7. Store Equipment in a dry environment.
8. Disassembly, inspection and reassembly to be carried out by competent persons only. Note: Hook may require proof load test following reassembly.
9. Vertical (0° degree) lifting only. No side loading.
10. Always fit load locking/retaining pins **before** lifting load.
11. **NEVER** attempt to detach hook whilst under load.

3.0 Technical Specification: Talon

Range of Talon Flange Lifting Hooks

Talon Range	Flange Lifting Hook Specifications		
Product Codes	**Diameter**	**Length**	**Safe Working Load**
Talon-19100	19mm Diameter Pin	100mm Long Pin	1,000 kg
Talon-19130	19mm Diameter Pin	130mm Long Pin	750 kg
Talon-19160	19mm Diameter Pin	160mm Long Pin	600 kg
Talon-19190	19mm Diameter Pin	190mm Long Pin	500 kg
Talon-22100	22mm Diameter Pin	100mm Long Pin	750 kg
Talon-22130	22mm Diameter Pin	130mm Long Pin	1,150 kg
Talon-22160	22mm Diameter Pin	160mm Long Pin	900 kg
Talon-22190	22mm Diameter Pin	190mm Long Pin	750 kg
Talon-25130	25mm Diameter Pin	130mm Long Pin	1,700 kg
Talon-25160	25mm Diameter Pin	160mm Long Pin	1,300 kg
Talon-25190	25mm Diameter Pin	190mm Long Pin	1,100 kg
Talon-25220	25mm Diameter Pin	220mm Long Pin	800 kg
Talon-28130	28mm Diameter Pin	130mm Long Pin	900 kg
Talon-28160	28mm Diameter Pin	160mm Long Pin	1,850 kg
Talon-28190	28mm Diameter Pin	190mm Long Pin	1,550 kg
Talon-28220	28mm Diameter Pin	220mm Long Pin	1,300 kg
Talon-30130	30mm Diameter Pin	130mm Long Pin	2,900 kg
Talon-30190	30mm Diameter Pin	190mm Long Pin	1,900 kg
Talon-30250	30mm Diameter Pin	250mm Long Pin	1,400 kg
Talon-32130	32mm Diameter Pin	130mm Long Pin	3,000 kg
Talon-32190	32mm Diameter Pin	190mm Long Pin	2,300 kg
Talon-32250	32mm Diameter Pin	250mm Long Pin	1,700 kg

Talon Flange Lifting Hook Diagram



4.0 Selecting a Talon Flange Lifting Hook

The Talon Flange Lifting Hook is available in various sizes. Please review the selection table.
The required size is determined by:

- The flange bolt hole diameter.
- The flange thickness.
- Gross weight of flange to be lifted.

1. Lifting Pin Diameter

- Determine bolt hole diameter of flange being lifted.
- Select suitable fitting lifting pin diameter from selection table.
- Lifting pin diameter selected must be as close as possible, but less than the bolt hole diameter.

2. Lifting Pin Length

Minimum Working Length

- Determine flange thickness (Length of bolt hole), + 10mm to allow fitting of locking pins.

Maximum Working Length

- Minimum Working Length + 0 – 30mm max.

Total Working Length

- Maximum Working Length + 20mm max.

3. Safe Working Load (SWL)

- Determine weight of flange to be lifted. Ensure Talon hook selected has a greater Safe Working Load than weight of load to be lifted.
- **DO NOT EXCEED SAFE WORKING LOAD OF TALON HOOK**

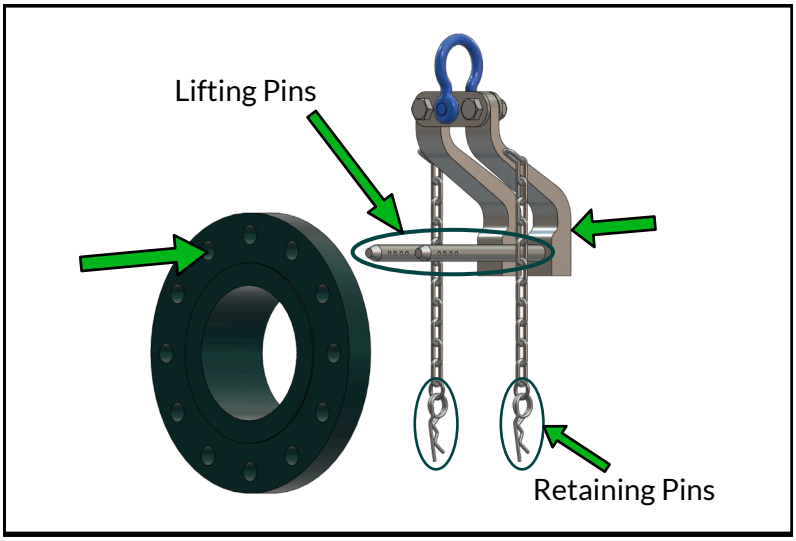
The selection table provides most popular sizes available. A further range of sizes are available

Contact RenQuip Ltd for further information

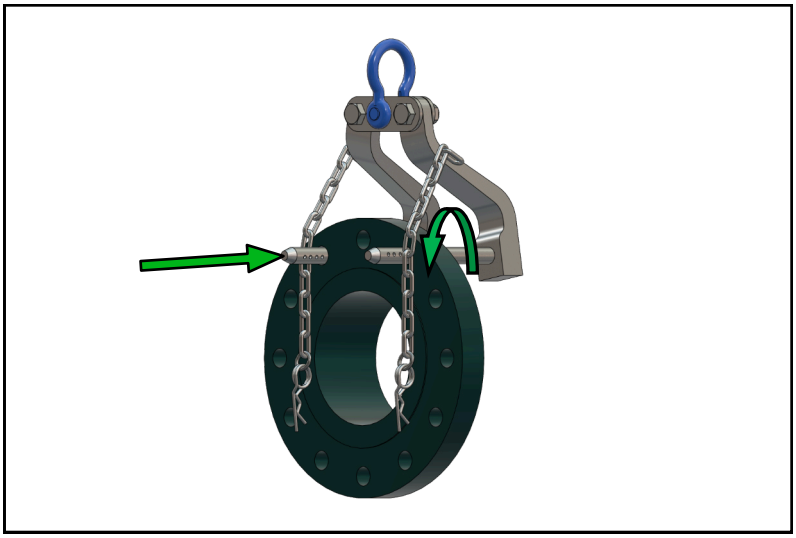
5.0 Operation of the Talon Flange Lifting Hook

1. Using the information provided in Sections 3 & 4, select the correct Talon flange lifting hook for the flange.
   Ensure the weight of the flange is less than the Safe Working Load for the Talon hook.

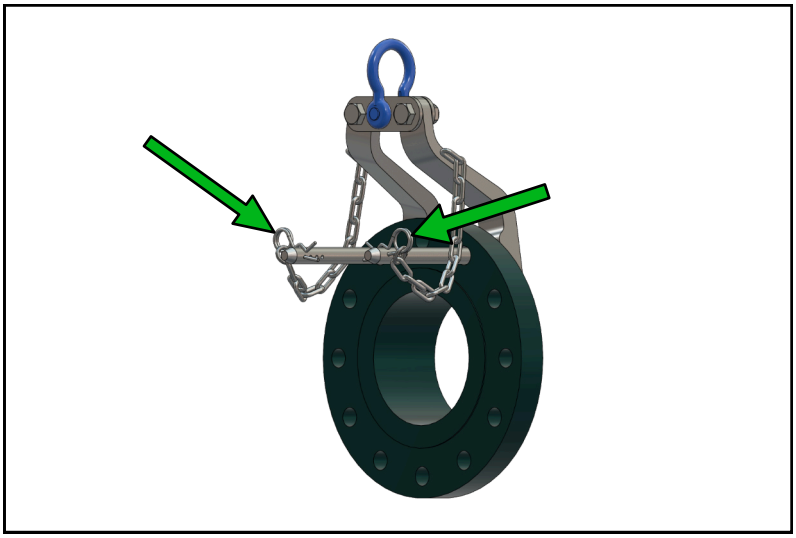
2. With the Retaining Pins disconnected, insert the Lifting Pins of the Talon into the flange bolt holes.



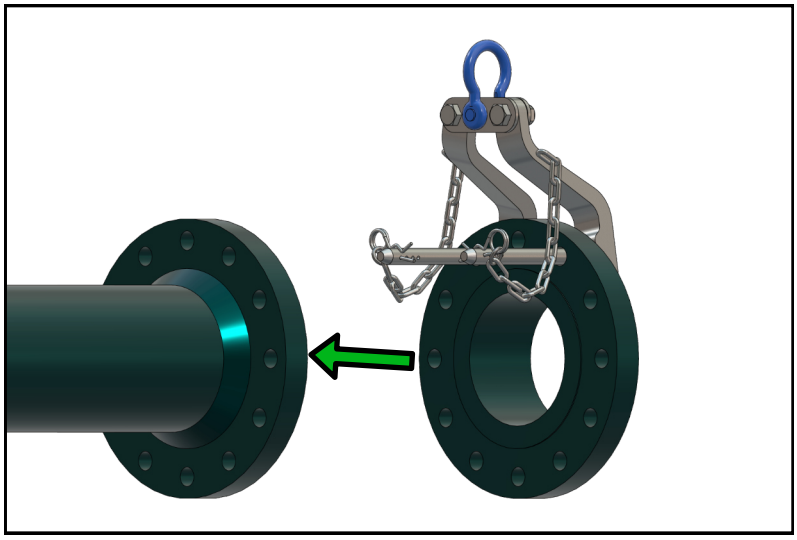
3. Ensure the chains are lifted over the flange to prevent trapping.



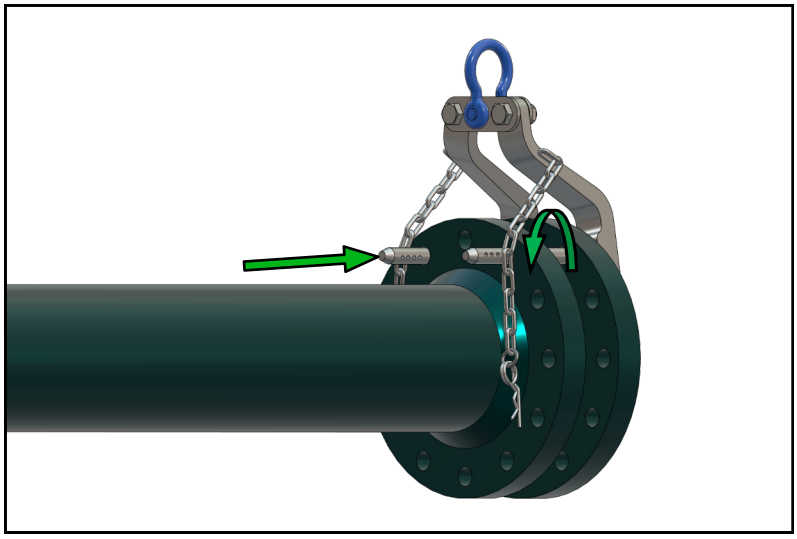
4. Lock the Retaining Pins into the appropriate holes on the Lifting Pins.



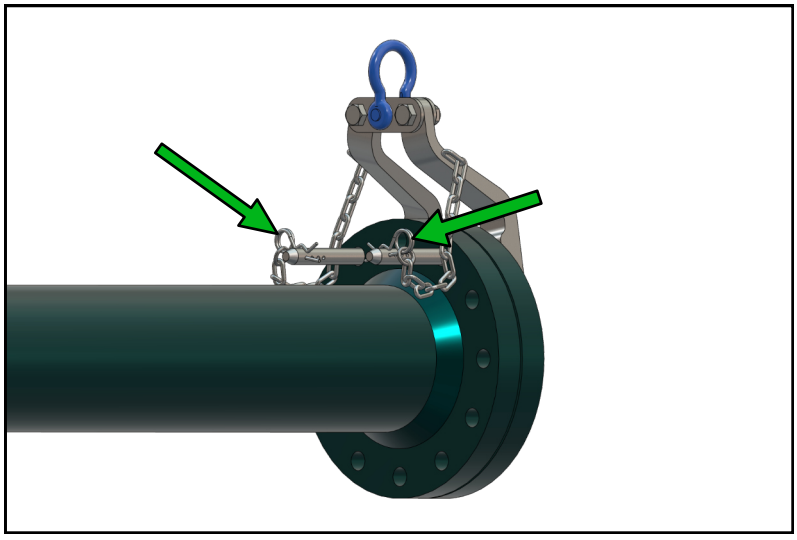
5. Guide the Talon to the mating flange. Once in close proximity to the pipe, remove the Retaining Pins and guide the Lifting pins through the corresponding holes on the mating flange.



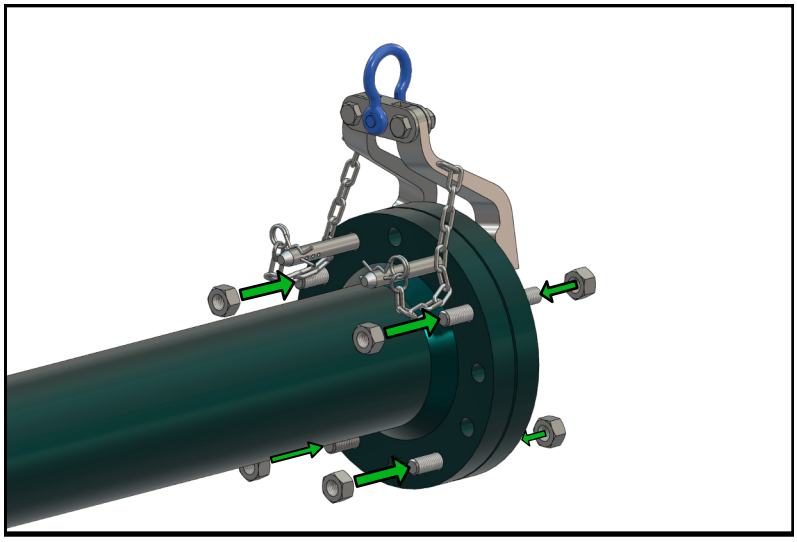
6. Ensure the chains are lifted over the mating flange to prevent trapping.



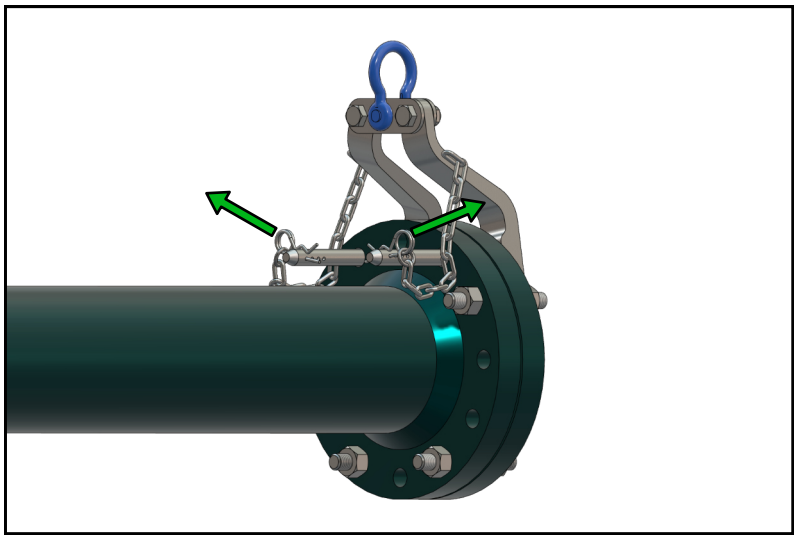
7. Lock the Retaining Pins into the appropriate holes on the lifting pins.

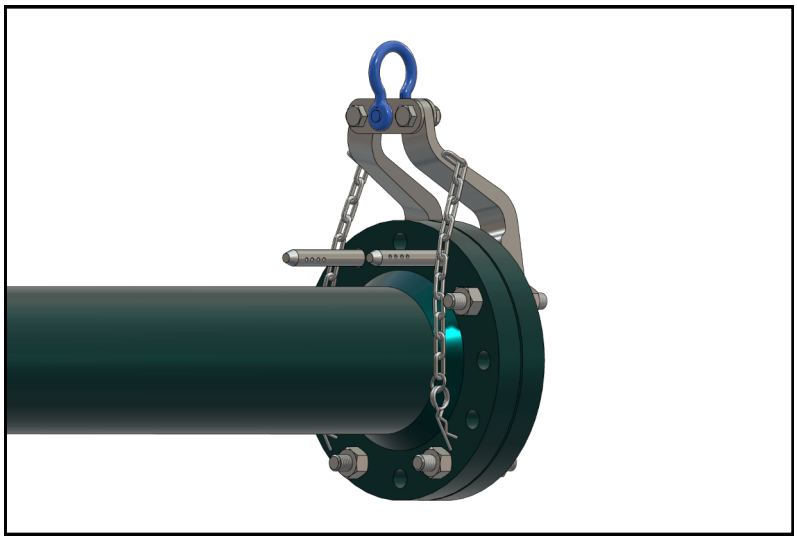


8. Insert a minimum of 4 bolts into the flange joint and secure with nuts.

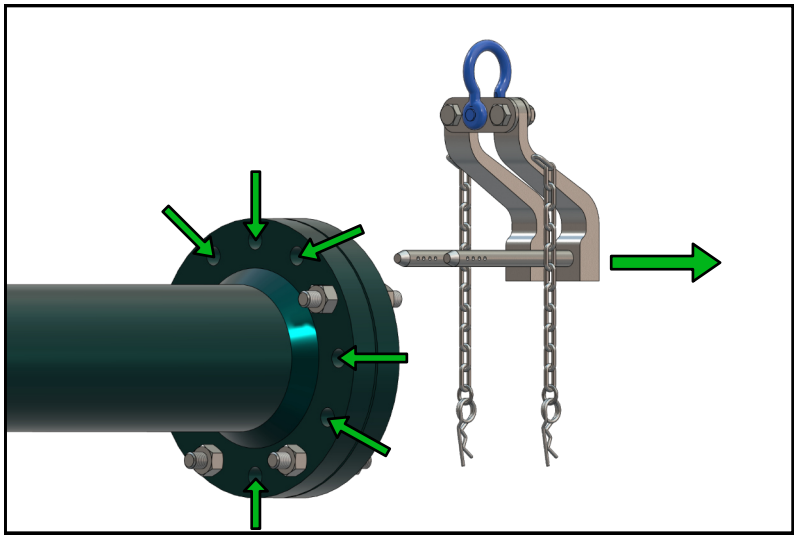


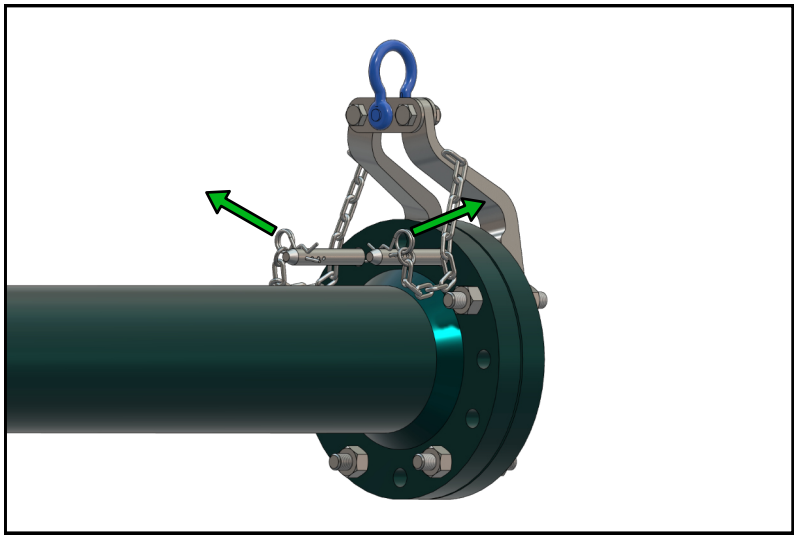
9. Once nuts are secure, remove the Retaining Pins from the Lifting Pins





10. Carefully remove the Talon from the connected flanges to enable all the bolts to be inserted.





11. Clean the Talon Flange Lifting Hook and store in a cool, dry and low humidity location.

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