



HYDRAULIC CALF CHUTE

Operator's Manual

Sioux Steel Co.
196 1/2 East 6th Street
P.O. Box 1265
Sioux Falls, SD 57101-1265



Phone:(800) 557-4689
(605) 336-1750
(605) 557-4689
Sales Fax:(605) 357-8597
Fax:(605) 336-2528

NEW PRODUCT WARRANTY

HIQUAL & LIVESTOCK EQUIPMENT

A. GENERAL PROVISIONS. "Sioux Steel" means Sioux Steel Company, 196 1/2 East Sixth Street, Sioux Falls, South Dakota 57104. The warranties described below are provided by Sioux Steel to the original purchasers of new products purchased from Sioux Steel or from an authorized Sioux Steel Dealer (the "Products"). Under these warranties, Sioux Steel will, at its option, repair or replace at its factory any Product covered under these warranties which is found to be defective in material and workmanship during the applicable warranty term or refund the purchase price paid for the defective Product. Customer will be responsible for labor charges for removing the defective Product and reinstalling the repaired or replacement Product, any premium charge for overtime labor requested of Sioux Steel and shipping charges to and from Sioux Steel's factory. These warranties are not transferrable.

B. WARRANTY PERIOD. Subject to exclusions and limitations set forth herein, each new Product is warranted for the number of years specified below. Each warranty term begins from the date of purchase to the (End User) regardless of delay in receipt of the Product by Customer due to the time required to process, handle, ship, assemble, construct and install the Product. Customer must retain proof of the date of purchase. Replacement parts for and repairs to the Product will be warranted only for the remainder of the original warranty term. The replacement parts for or repairs to the Product will not extend the warranty term beyond the original warranty term. Products described below include all parts, components and accessories.

Product/Part Name	8 Years	3 Years	Lifetime Warranty	1 Year
Victory, Cattleman's, Heavy Duty and Super Six steel construction livestock gates labeled through the Company's "Lifetime Guarantee Gate Program" ("Lifetime Guaranteed Gates")			X	
Locking Mechanisms			X	
Rump Fingers			X	
Cleated Rubber Flooring			X	
Squeeze Chutes	X			
Head Gates	X			
Calving Pens		X		
Hydraulic Chute	X			
Hydraulic Components				X
Hydraulic Calf Chute	X			
Hydraulic Components				X
Palp Cage (Pin On)		X		
Crowding Tubs		X		
Scale Equipment		X		
Adjustable Alleys		X		
Slick Door (Pin On)		X		
Bow Gates		X		
Panel - Heavy Duty and 2" Range Tough		X		
Portable Systems and chute				X

Product/Part Name	8 Years	3 Years	Lifetime Warranty	1 Year
All Other Livestock Equipment, including Bulk Bins, Poly products and all Livestock Gates that are not labeled through the "Guarantee Gate Program" as provided above				X
Post Pounder Note: Commercial or Government use (6 Month warranty)				X
Exclusions specific to Livestock Equipment: Damage or loss of any kind from (1) storage of feed products that are not free-flowing or that have a density greater than 40 pounds per square foot; and (2) the storage of materials other than free-flowing livestock feed.				
C. ITEMS COVERED SEPARATELY. The Sioux Steel warranties do not cover any parts, components or materials that are part of the Product, or used in conjunction with the Product, that are not manufactured by Sioux Steel. Such parts, components and materials will be subject to the warranties provided by the manufacturer, if any.				
D. WHAT IS NOT WARRANTED. Sioux Steel does not warrant and is not responsible for the following: (1) used products; (2) modification or alteration of the Products; (3) Products that have not been properly installed or not installed in accordance with the instruction manual, improper assembly, or improper construction by any persons other than Sioux Steel employees; (4) depreciation, damage or loss caused by the use of parts, components or accessories not provided by Sioux Steel, unauthorized repairs, normal wear, lack of necessary and proper maintenance, a failure to follow operating instructions/recommendations, misuse, lack of proper protection during storage, vandalism or theft, exposure to the elements or corrosive materials, accidents or acts of nature including lightning, flooding, hail, straight winds and tornadoes; and (5) cosmetic damage or damage that does not hinder the functionality of the Products. (6) Warranty does not cover corrosion.				
E. LIFETIME GUARANTEED GATES. The Limited Warranty for New Sioux Steel Company Products shall apply to the Lifetime Guaranteed Gates ("Gates") for the life of the original purchaser with the exception of Section D above. Sioux Steel does not warrant and is not responsible for the following: (1) modification or alteration of the Gates; (2) cosmetic damage, normal wear and tear or damage that does not hinder the functionality of the Gates, including fading of the color; (3) damage caused by use for purposes inconsistent with its intended purpose or design; (4) damage due to use of any parts or components not supplied by the Sioux Steel.				
F. LIMITATIONS OF WARRANTIES AND CUSTOMER'S REMEDIES. To the extent permitted by law, neither Sioux Steel, the Dealer nor any person or company affiliated with either of them makes any warranties, representations, conditions or promises express or implied as to the quality, performance or freedom from defects of the Products covered by these warranties other than those set forth herein. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER SIOUX STEEL, THE DEALER, NOR ANY PERSON OR COMPANY AFFILIATED WITH EITHER OF THEM WILL BE LIABLE FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INCIDENTAL, SPECIAL, EXEMPLARY, CONSEQUENTIAL, LOST PROFITS AND REVENUES, LOST USE OF THE PRODUCTS OR ANY OTHER PROPERTY, BODILY INJURY OR PROPERTY DAMAGE CLAIMS OF ANY PERSON, LOST COMMODITIES, REMOVAL OR STORAGE COSTS FOR THE PRODUCTS, OTHER EQUIPMENT AND COMMODITIES, DAMAGE TO THE ENVIRONMENT ARISING FROM OR IN ANY MANNER RELATED TO ANY RELEASE OF HAZARDOUS MATERIALS, AND REMEDIATION EXPENSES THEREFORE, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER LEGAL BASIS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO INSTANCE WILL SIOUX STEEL, THE DEALER OR ANY PERSON OR COMPANY AFFILIATED WITH EITHER OF THEM BE LIABLE TO CUSTOMER OR ANY PERSON IN AN AMOUNT IN EXCESS OF THE PURCHASE PRICE PAID BY CUSTOMER FOR THE PRODUCT.				
G. NO DEALER WARRANTY. THE DEALER HAS NO AUTHORITY TO MAKE ANY WARRANTY, REPRESENTATION, CONDITION OR PROMISE ON BEHALF OF SIOUX STEEL, OR TO MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.				
H. GOVERNING LAW/VENUE. These warranties, and all terms set forth herein, are governed by the laws of the State of South Dakota and, where applicable, the laws of the United States of America. Any and all disputes arising from these warranties, the purchase and use of the Products, bodily injury and property damage claims or otherwise must be venued in the South Dakota Circuit Court sitting in Minnehaha County, South Dakota. Customer agrees to such venue and waives any challenge to such court's jurisdiction based upon lack of personal jurisdiction or inconvenience.				
I. SECURING WARRANTY SERVICE. In order to receive warranty services, customer must give Sioux Steel written notice of a warranty claim within 30 days of the date of discovery of the defective materials or workmanship, and Customer must complete the following steps:				
(1)	Obtain from Sioux Steel a Return Goods Authorization Number ("RGA Number") by calling the Customer Service Department at 1-800-557-4689, and providing the following information: <ul style="list-style-type: none"> ➤ The name of the territory representative, Dealer or Sioux Steel salesperson from whom the Product was purchased. ➤ The Dealer's identification number. ➤ The invoice number and date of purchase. ➤ Customer's name, phone number, fax number, mailing address and email address. ➤ The date that the Product will be returned. 			
(2)	Pay the shipping charges to ship the Product to Sioux Steel's factory, and the return shipping charges. <ul style="list-style-type: none"> ➤ Sioux Steel Boyd Distribution 221 E 11th Ave Lennox, SD 57039 			
(3)	Reason for Return.			
(4)	Make sure the RMA Number is labeled visibly on the returned product.			

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1. INTRODUCTION

Congratulations on your choice of a **HiQual HYDRAULIC CALF CHUTE**. It has been designed and manufactured to reduce stress to the operator and the animal. It has proven itself to be very user friendly and reliable. The HYDRAULIC CALF CHUTE is built very strong and can handle most types of working conditions. The quiet operation of the chute reduces the level of stress in the working environment. The overall usability and reliability of the chute, along with its competitive price, make it a very cost effective addition to any ranch or feedlot.

- a) Reduces stress on operator and animal
- b) User friendly
- c) Reliable
- d) Strong
- e) Quiet
- f) Cost effective

Safe, efficient and trouble free operation of your new **HYDRAULIC CALF CHUTE** requires that you and anyone else who will be using or maintaining the **HYDRAULIC CALF CHUTE**, read and understand the Safety, Usage and Maintenance information contained within this Operator's Manual.

Keep this manual handy for frequent reference and to pass on to a new user(s) or owner(s). Call your HiQual Dealer if you need assistance, information, or additional copies of this manual.

OPERATOR ORIENTATION – The directions *left*, *right*, *front* and *rear*, as mentioned in this manual, are seen from the perspective of an animal in the chute.

FRONT
LEFT



RIGHT
REAR

2. SAFETY

YOU are responsible for the **SAFE** usage and maintenance of your **HYDRAULIC CALF CHUTE**. YOU must ensure that you, and anyone else who is going to use or work around the **HiQual HYDRAULIC CALF CHUTE**, are familiar with the usage and maintenance procedures and related **SAFETY** practices that should be adhered to while using this equipment.

Remember that YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that EVERYONE using this equipment is familiar with its usage and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- HYDRAULIC CALF CHUTE owners must give usage instructions to users or employees prior to allowing them to use the HYDRAULIC CALF CHUTE for the first time, and at least annually thereafter.
- The most important safety device on this equipment is a SAFE user. It is the user's responsibility to read, understand and follow ALL the Safety and Usage instructions in the manual.
- A person who has NOT read and understood the Safety and Usage instructions is NOT QUALIFIED to use the unit. Untrained users expose themselves and others to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modifications may impair the function and/or safety and could affect the life of the equipment.
- Think **SAFETY!!** Work **SAFELY!!**

2.1 GENERAL SAFETY

- A. Read and understand the Operator's Manual and all safety signs before using, maintaining or adjusting the **HYDRAULIC CALF CHUTE**.
- B. Have a First Aid Kit available for use should the need arise, and know how to use it.
- C. Clear the area of people, especially small children, before using the equipment.
- D. Review safety related items with all users annually

2.2 USAGE SAFETY

- A. Read and understand the Operator's Manual before using.
- B. Locate unit in an area that is level, free from debris and dry.
- C. Use extreme caution when working with calves in the **HYDRAULIC CALF CHUTE**.
- D. Make sure the side drop tubes, head gate, tailgate and squeeze gate are all fully locked prior to working on calves in the chute.
- E. Clean out the **HYDRAULIC CALF CHUTE** periodically to reduce the chance of an animal slipping.
- F. Clear area of bystanders, especially children, before starting.

2.3 MAINTENANCE SAFETY

- A. Review the Operator's Manual and all safety related items before working with or maintaining the **HYDRAULIC CALF CHUTE**.
- B. Keep hands, feet, clothing and hair away from all moving parts.
- C. Clear the area of bystanders, especially children, when carrying out any maintenance and repairs, or making adjustments.
- D. Empty the **HYDRAULIC CALF CHUTE** of livestock before adjusting or making repairs.

2.4 STORAGE SAFETY

- A. Store unit in an area away from human activity.
- B. Do not permit children to play on or around the stored unit.

2.5 TRANSPORTATION SAFETY



- A. When moving the **HYDRAULIC CALF CHUTE** with a forklift, approach the chute from the side opposite the hydraulic control levers. Pick the chute up under the base frame. Secure the chute to the forklift with chains prior to lifting.
- B. Do not move the chute with a front end loader.
- C. Before lifting, check that no **HYDRAULIC CALF CHUTE** parts are in the way of the transport machine. When lifting, ensure that no parts get caught in the process.
- D. Make sure the hydraulic control bar is positioned toward the inside of the chute and secured to the chute prior to moving the unit.
- E. Place the operator step toward the inside of the chute before moving unit.



- F. For transport, ensure that the **HYDRAULIC CALF CHUTE** is tied securely to the transport unit or trailer that it is being transported with.
- G. After transport, check and ensure that the **HYDRAULIC CALF CHUTE** operates properly and that no damage has occurred during the move.

2.6 POWER FAILURE

If you should experience a loss of power (i.e., blown fuse or breaker) while you have an animal in the chute, disconnect the hydraulic hoses from the power unit. Operate the hydraulic levers to allow fluid to flow out of the cylinders and release pressure from the animal.

3. USAGE

3.1 TO THE NEW USER

HiQuals **HYDRAULIC CALF CHUTE** is designed to efficiently and safely contain calves for the purposes of examination, injections, and vet testing, branding and other related uses.

Many of the features of the unit are the result of suggestions made by customers like you. Read this manual carefully to learn how to use the equipment safely and how to set it for maximum efficiency.

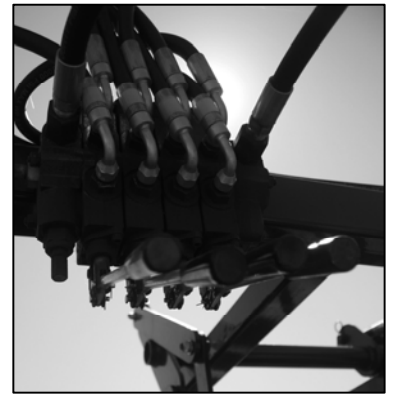
3.2 HYDRAULIC CONTROL LEVERS

Front control lever – controls the headgate (up to open, down to close).

2nd control lever – controls the squeeze (up to open, down to close).

3rd control lever – controls the tailgate (up to release, down to squeeze).

4th Rear control lever – controls the tilt (up to lift, down to lower).



3.3 PRESSURE SETTING

The pressure relief valve is factory set to **1000 PSI**. At this point, the valve opens and the oil is allowed to flow through the system. The 1000 PSI is the hydraulic pressure and NOT the pressure on the animal, which is much less. If it is necessary to adjust the setting, remove the acorn nut at the bottom of the valve unit on the end of the valve bank. With the hydraulic pump running, operate one of the valves (preferably operating a cylinder to stroke out). If using a HiQual Hydraulic Power Unit, it will be necessary to hold the valve open approximately ten to fifteen seconds before full system pressure is reached due to the two stage pump system. With the valve still engaged, turn the adjusting screw clockwise to increase pressure, or counter clockwise to decrease pressure. **Be sure not to back off the adjusting screw too much or it will fall out of the valve body.**



3.4 BREAK-IN

Although there are no restrictions on the **HYDRAULIC CALF CHUTE** when using it for the first time, the following functional items should be checked:

- a) Check that all hydraulic hoses are properly secured
- b) All hydraulic controls are functioning properly
- c) The adjustable side mechanism adjusts smoothly
- d) The drop boards are working properly
- e) The access doors are closed and latched
- f) The headgate and tailgate open and close smoothly
- g) All drop tubes are closed and secured

3.5 PRE-START CHECKLIST

Efficient and safe operation of the **HYDRAULIC CALFT CHUTE** requires that each user read and understand the usage recommendations and all safety related items.

A pre-start checklist is provided for the user. It is important for both personal safety and maintaining the good mechanical condition of this unit, that this checklist be followed prior to placing any calves in the **HYDRAULIC CALF CHUTE**.

- a) Determine which hydraulic power option will be used.
- b) Connect hydraulic hoses to hydraulic pump or tractor.
- c) Start oil flow by starting the electric or gas motor and moving the control valve in the proper direction. (A tractor running at idle should give adequate oil flow for proper operation of the chute.)
- d) Move the four (4) control valves to determine if they are working properly. Moving the handle down should make them close.
- e) Check the drop tubes. Make sure that they are closed and securely.
- f) Open the headgate 8 to 10 inches so that the animal can enter the headgate, but cannot get its shoulders through.
- g) Use the front hydraulic control lever to set the opening of the headgate.
- h) As the animals enter, close the tailgate by pulling downward on the rear control lever.

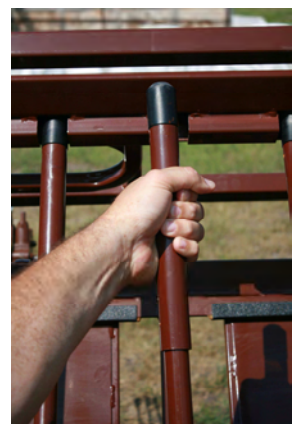
- i) As the animal passes its head and neck through the gate, pull downward on the first control lever. This will quickly close the headgate and the animal will be secured. Care should be exercised to let the animal move forward far enough into the headgate so that the neck extender will hold the head behind the ears.
- j) If the animals are of uniform size, set the neck extender height on the first animal and then leave it set in position.
- k) Squeeze the animal by moving the second lever downward.
- l) To release the animal, move both the second and third lever upwards simultaneously. This opens the headgate and releases the squeeze.
- m) Make sure the tilt of the table is moved to the upright position before moving the next animal into position.
- n) Repeat the above procedure for the next animal.
- o) Ensure that no other animal has the nose or neck through the tailgate before tilting the table.

3.6 USAGE HINTS

Review the following hints periodically to ensure effective use. Be sure to empty all livestock from the **HYDRAULIC CALF CHUTE** prior to making any adjustments.

A. DROP TUBES

- ✓ To open the drop tubes, pull down on the tube and move it so the tubes are completely out of the way.
- ✓ To close the drop tube, push it into position and return the tube to its original position.



B. NECK EXTENDER

- ✓ The neck extender is a unique feature that greatly facilitates any operations or procedures involving the head and neck of the animal. This includes dehorning, ear tagging, implanting, checking teeth, treating eyes, drenching, tattooing and vaccinating.
- ✓ The neck extender is designed to adjust to the height of the animal, and is adjusted by removing the pin and sliding the neck extender up or down depending on the size of the animal.



3.7 STORAGE

When storing the **HYDRAULIC CALF CHUTE** for a long period of time, the following maintenance should be performed:

A. GREASE

- i. Apply grease to all cylinders.
- ii. Apply grease to the grease zirks of both the headgate and tailgate.
- iii. Apply grease to the grease zirk at each end of the main overhead squeeze tube.

B. OIL

- i. Oil the pivot points on all linkages
- ii. Oil the latch and hinges on the side exit gate
- iii. Oil the hinges on the neck extender

C. PAINT

Acquire a can of **HiQual** spray paint from your HiQual Dealer and touch up any nicks, scratches and wear points to reduce the chance of rusting.

4. SERVICE AND MAINTENANCE

4.1 LUBRICANTS

Grease – Use any SAE multipurpose lithium based grease or equivalent.

Oil – Use fairly heavy oil (such as motor oil) which won't evaporate.

STORING LUBRICANTS

Your chute can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

4.2 GREASING

Wipe grease fittings with a clean cloth before applying grease to avoid injecting dirt.

Lubrication, whether grease or oil, should be done weekly or prior to storage. Do not over lubricate. If too much is applied, it will tend to collect dirt and cause premature wear.

5. OPTIONAL FEATURES

5.1 POWER UNITS

- A. **Electric Motor** – 220/110 single speed motor. Operating flow at 16 GPM.



- B. **Gas Powered Motor** - Operating flow at 16GPM.



HiQual Livestock Equipment

PO Box 1265

Sioux Falls, SD 57101-1265

Phone 844-5HI-QUAL

(844-544-7825)

www.hiqualequipment.com