



MATERIAL HANDLING

LEVER OPERATED Chain HOIST RED BEAST

.8 Ton Through 3 Ton

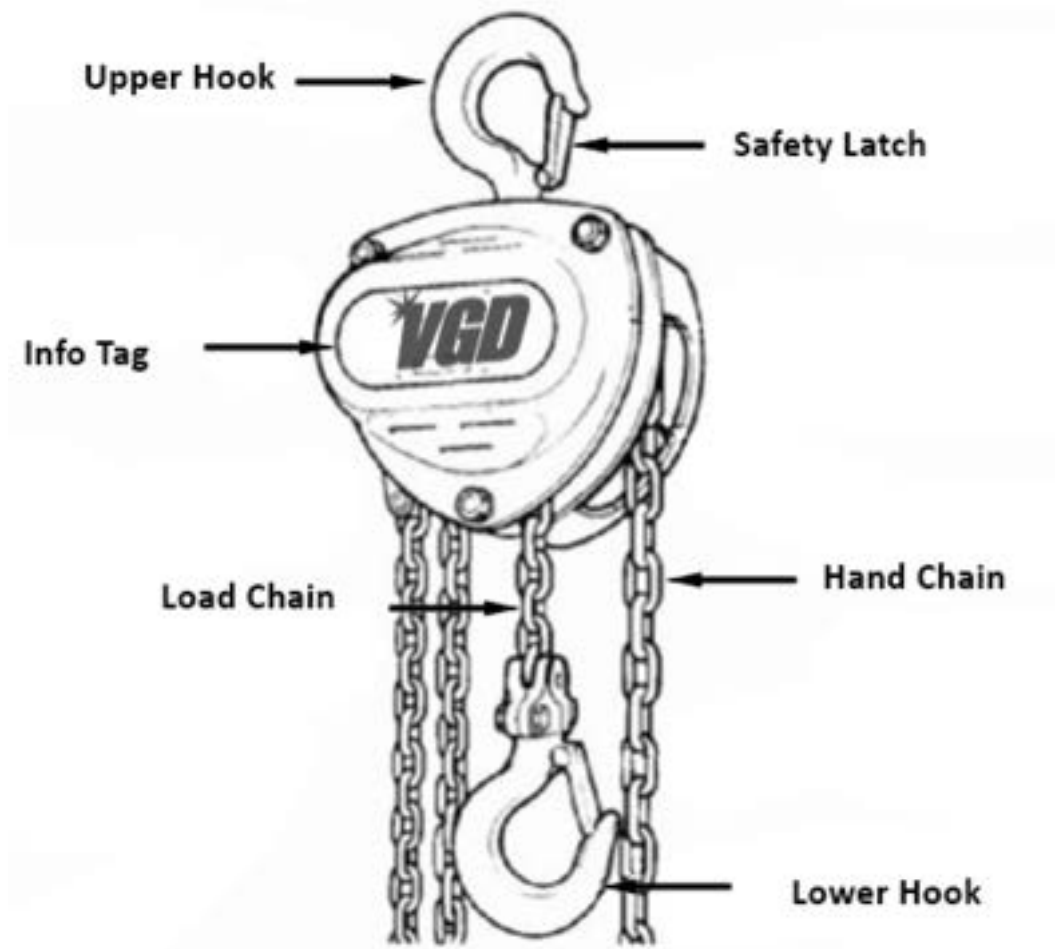


OWNER'S MANUAL

WARNING

For your safety: The operation and maintenance of this equipment requires a thorough understanding of the information contained within this manual. Prior to any installation, operation, or maintenance activities, all personnel must carefully review and comprehend the entirety of this manual. Failure to adhere to the instructions and guidelines presented herein may result in severe personal injury, death, or property damage.

HOIST FEATURES:





LIMITED ONE YEAR WARRANTY

Red Beast manual hoists are guaranteed to be free of defect in both material and workmanship. If one of our hoists fails during the first year of operation due to defect in either material or workmanship we will repair or replace the unit (at our discretion) after physical inspection by our repair department. This warranty does not cover normal wear and tear of the units, and it does not apply to units that show signs of misuse, overloading, alteration or improper/lack of maintenance.

No unit can be returned for inspection without first receiving authorization from our customer service department. The unit(s) for which there is a warranty claim must be returned to the location that has authorized the units return prepaid complete with proof of purchase.

For our branch locations please refer to the back page.

Inspection and Maintenance of Manual

INSPECTION GUIDE FOR MANUAL LEVER HOIST

To ensure the safe and efficient operation of your Red Beast Manual Lever Hoist, follow these key inspection steps:

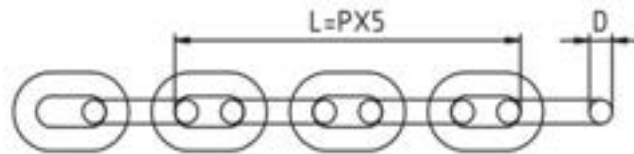
- **Pre-Use and Daily Checks:** Visually inspect the hoist for damage or wear before each use. Check the hooks, lever, and body for cracks, deformations, or corrosion. Test the hoist without a load to ensure smooth lever movement and proper brake function.
- **Load Chain and Hooks:** Inspect the load chain for stretching, kinking, or excessive wear. Ensure the chain is well-lubricated. Check hooks for deformation or cracks and verify that safety latches are functioning correctly.
- **Brake and Internal Components:** Test the brake mechanism with a light load to ensure it holds securely. Inspect the brake pads and internal components for wear. Ensure all fasteners are tight, and safety labels and load capacity markings are legible.

The hoist operator, inspector, and maintenance personnel training program should be based on the requirements in accordance with the latest edition of ASME B30.21 and your local safety standards, such as WorkSafe and OSHA.



LOAD CHAIN INSPECTION

Load chain can become excessively worn, elongated and/or damaged beyond safe working condition. A visual inspection of the load chain should be performed **BEFORE** each use of the hoist. The full length of load chain must be replaced immediately if even one link is excessively worn, elongated or damaged



Chain Diameter	Capacity	Load Chain Diameter(D)		Load Chain 5 links(L)	
		Standard	Minimum	Standard	Maximum
5*15	1/2t	5	4.5	75	77.25
6*18	3/4t	6	5.4	90	92.7
8*24	1 1/2t	8	7.2	120	123.6
10*30	3t	10	9	150	154.5
	6t				
	9t				

Capacity	Standard A Size	Maximum A
0.5t	24	26.4
0.75t	28	30.8
1.5t	30	33
3t	36	39.6
6t	45	49.5
9t	51	56.1

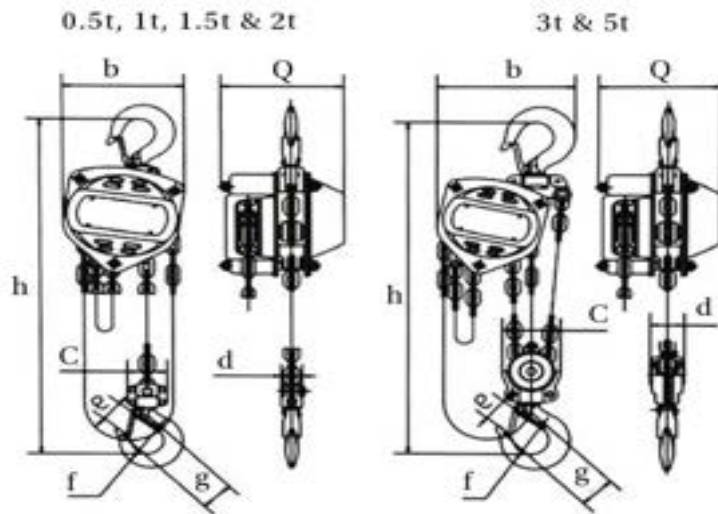


When measuring hook openings the use of vernier calipers is required. Any load chain that exceeds the maximum load chain dimensions shown above must be immediately replaced with new load chain

BEFORE being used/returned to service.



SPECIFICATION SHEET



VQ Red Beast Specifications Sheet

Model	Rated Capacity(t)	Lift(m)	Test Load(N)	Hand Force (N)	Load Chain		Dimensions(mm)				N.W.(kg)
					Falls	Diameter	A	B	D	H	
VQ05	0.5	2.5	0.75	300	1	6X18	137	137.5	35	270	8.4
VQ1	1	2.5	1.5	330	1	6X18	162	146.5	35.5	317	11
VQ1.5	1.5	2.5	2.25	360	1	8X24	183	170	45	399	16.2
VQ2	2	3	3	365	2	8X24	194	170	42.5	414	18.5
VQ3	3	3	4.5	385	2	8X24	220	170	50	465	25.6
VQ5	5	3	7.5	435	2	10X30	288	191	64	618	42.8



OPERATION INSTRUCTIONS

- **Pre-Use Check:** Ensure the hoist and load chain are free of damage and properly lubricated. Verify that the hooks and safety latches are in good condition and the hoist is correctly mounted.
- **Safe Lifting:** Position the load under the hoist and attach securely. Operate the lever to lift and lower the load smoothly, ensuring the load remains balanced and does not exceed the hoist's capacity.
- **Brake Test:** Raise the load slightly and stop to ensure the brake holds the load securely before proceeding with the operation.
- **Post-Use Maintenance:** After use, clean the hoist, inspect for any signs of wear or damage, and store it in a dry, safe place to prevent rust and corrosion.

The hoist operator, inspector, and maintenance personnel training program should be based on the requirements in accordance with the latest edition of ASME B30.21 and your local safety standards, such as WorkSafe and OSHA.

Hoist Safety Points:

Before Use:

- **ALWAYS** read warning tags and manual thoroughly.
- **NEVER** exceed the hoist's rated capacity.
- **NEVER** use hoists as slings.
- **Inspect the load chain:** Don't use a hoist if the chain is twisted, kinked, damaged, stretched, or capsized.
- **Center the load:** Ensure the load is centered under the hoist before operating.
- **Manual power only:** Never operate hoists with any power source other than manual.

Operation:

- **NEVER** lift or transport loads over or near people.
- **NEVER** use a hoist for lifting, supporting, or transporting people.
- **NEVER** operate a damaged or malfunctioning hoist.
- **ALWAYS** avoid shock loading.
- **ALWAYS** clear the work area of people and obstructions.

- **Neutral (N):** Allows free wheeling for hook positioning (when not under load).
- **Up:** Slowly ratchet the load upwards while observing for obstructions.
- **Down:** Slowly ratchet the load downwards, expecting additional effort to overcome brake friction.

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Load Handling:

- **Capacity:** Ensure the hoist meets or exceeds the capacity requirements for the material being lifted.
- **Top Hook:** Ensure the top hook is properly attached with a fully engaged latch kit to an anchorage point rated for the load weight.
- **Bottom Hook:** Ensure the bottom hook is properly attached with a fully engaged latch kit to the material or clamp being lifted.

Maintenance:

- **Lubrication:** Regularly ensure the hoist is properly lubricated to prevent failure and potential injury, death, or property damage.

Control Function:

- The control function/directional latch has three settings: Up, Neutral, and Down.

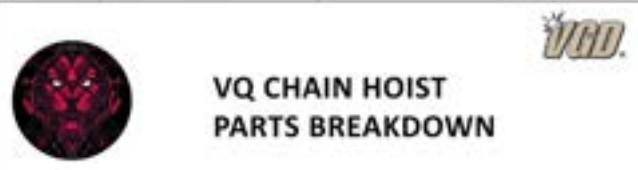




Blowout Parts Diagram

Red Beast

Qty.	Part	Qty.	Part
1	Pin of hand wheel cover 0-17-MS1-27-MS27-007-MS2	23	Right side plate assembly
1	Hand wheel cover	23-1	Right side plate
2	Ball pin	23-2	Steel ring
4	Hexagon washer 1/4"-13-MS1-MS2-MS2	14-4	Needle bearing
5	Hand wheel	24	Bottom gear
5	Hand wheel	25	Steel gear assembly
6	Brake disc cover	25-1	Steel pin
6	Friction plate	25-2	Steel pin
6	Friction plate	25-3	Steel ring
6	Brake seal	25-4	Pinion shaft
6	Spring pin	26	Steel cover assembly
6	Pin	26-1	Steel cover
6	Spring of pin	26-2	Steel ring
11	Left side cover assembly	27	Steel ring of gear cover
11-1	Left side plate	28	Frame plate
11-2	Support pin	31	Frame of suspension kit (G40mm)
11-3	Pin of pin	32	Steel chain
11-4	Needle bearing	33	Dimensional pin of bottom hook 0-17-17-MS27-MS2 1-07-MS2
11	Pin of top hook	34	Bottom hook assembly
11-1	Top hook assembly	35	Bottom hook
11-2	Top hook	36	Bottom hook
11-3	Locking pin of top hook	37-2	Braking device of bottom hook
11-4	Pin of safety lock	38-1	Ball bearing
11-5	Pin of safety lock	38-2	Bottom hook housing
11-6	Spring of safety lock	38-3	Head of bottom hook's housing 17-MS1-MS2-MS2 MS1-MS2
11-7	Head of top hook housing 0-17-MS1-MS2-MS2 1-2-27-MS1-MS2	38-4	Body of bottom hook's housing MS1-MS2
11-8	Top hook housing	38-5	Needle bearing
11-9	Hook pin of top hook	38-6	Steel of Axis of bottom hook
11-10	Top hook housing B	38-7	Axis of bottom hook
11-11	Locking bolt of top hook's housing (MS1-MS2)	38-8	Pin of bottom hook MS
11-12	Pin of top hook's housing A	38-9	Locking bolt of overload protection
11-13	Pin of top hook's housing B	38-10	Brake wear ring of overload protection
11-14	Spring of top hook's housing A	38-11	Spring of overload protection
11-15	Pin of end anchor	38-12	Friction disc of overload protection
11-16	Ball pin	38-13	Steel pin of overload protection
11-17	End anchor	38-14	Friction gear of overload protection
11-18	Shaper	38-15	Brake wear of overload protection
11-19	Steel chain cover		



Notes:

For more information visit us at
www.vanguardsteelvancouver.com

or

contact one of our customer service representative in
your area.

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