

Gorilla Grip

8" Metal Handle Vacuum Cup Unit

Model PST-4950



Perfect Score

High Performance Industrial Products & Supplies for the Glass Industry

4012 Bronze Way
Dallas, TX 75237
Phone: 214-331-0010
Fax: 214-331-0013
Email: info@perfectscore.com
Web: www.perfectscore.com

WARNINGS

Failure to use properly and observe warnings may cause injury to personnel or damage to equipment and load.

- x Always use caution upon employing lift device.
- x Do not exceed max design load of 125 lbs (57kg).
- x Performance maybe reduced at altitudes > 5000 ft.
- x Use on smooth surfaces only.
- x Do not use if damaged, leaking, or without filter.
- x Never use for lifting personnel.
- x Do not touch the vacuum release upon lifting load.
- x Do not obstruct the plunger when in use.
- x Do not attempt to lift a load with red line visible.
- x Do not clean pad with solvents or chemicals. Use only mild soap and warm water.
- x Always store your Gorilla Grip Vacuum Cup in its original case to protect cup edges.

MAXIMUM ALLOWABLE WORKING LOADING

MAWL = 125 lbs (57 Kg)

Loading Allowable for 8 inch Cup Diameter

Safe Service Temperature 10 - 120 deg. F

Operation Instructions:

This product is for **lifting loads up to 125 lbs** and materials exclusively having a **smooth surface** thereby providing proper vacuum without leakage due to material roughness. The use of multiple units is always suggested and required for loads exceeding the max allowable weight.

Engage:

- 1) Position the hand cup on the material surface whereas the pumps red line is clearly visible at all times.
- 2) Use palm of hand to press inward pump plunger no less than 10 times. Red line is no longer visible. Additional pumps recommended in cases of extended duration requirements.
- 3) Upon lifting, frequently monitor plunger to insure red line does not become visible due to loss of vacuum.

Warning: If **red line appears** set load down immediately.

Disengage:

- 1) Press the release lever until vacuum releases.
- 2) Only release a load on steady surface.
- 3) Always place cup after use within protective case.

GENERAL MAINTENANCE, INSPECTION & STORAGE

Cleaning Vacuum Cup:

Remove air-filter from vacuum cup. Hold the vacuum cup in the downward direction as not to get water in the pump mechanism. Only use a sponge and soapy water to clean cup. Allow vacuum cup to dry and reinstall the cleaned air-filter. Do not use vacuum cup without filter reinstalled.

Inspection:

Look for cuts or irregularities to the sealing edges of the rubber pad. Look for wear or roughness on the sealing edges of the rubber pad. Check to make sure the pad filter is in place. The rubber pad should feel soft, not rigid to touch. The pad may need to be cleaned or replaced. Other observations like damage to the handle and pump will require disassembly.

Testing

Each unit should be tested periodically to verify operational performance. Follow operational instructions and observe time required until red line reappears. The "as new" standard must exceed 120 minutes.

Storage

Always store clean and dry within protective case.

Disassembly

- x Remove plunger assembly from handle by pulling plunger straight out from handle.
- x Then remove release valve from handle by removal of screws. Grasp release valve and carefully slide valve stem out from tube on vacuum pad. Capture the nylon check ball and o-ring.
- x Further disassembly is not needed. If the pad needs replacement, it is a matter of 6 more screws.

Cleaning after Disassembly

- x Wipe plunger assembly clean with soft lint free cloth.
- x Clean handle, wrap a dowel within soft lint free cloth and insert into handle to wipe clean internal areas. Make sure no lubricant remains inside the handle.

Inspection after Disassembly

- x Using a light source, inspect the inside of the handle for contamination and scratches. Scratches located between the mid-point and the closed end of the handle can cause poor vacuum. Scratches near the open end are less critical.

Lubrication before Assembly

- x Apply a light coating of silicone lubricant to the release valve stem prior to reinstallation.

- x Before re-install of plunger within handle, lubricate inside of handle. Use a soft swab and apply a very thin ring of silicone lubricant around the inside of the handle. Remove any excess lubricant.

Assembly

- x Install handle to cup, place and align the handle to vacuum cup where the release valve stem tube is on the correct side, re-install the 6 screws.

- x Installing the release valve on handle requires focus on the ball and o-ring. With the o-ring and ball against the closed end of the handle, slide the valve stem into the pads release valve stem tube. Align the valve guard over release valve and install two screws.

- x Install plunger within handle with U-cup end of plunger first. Insert and push until the plunger tightens with resistance. Then seat the plunger with one forceful thrust. Cycle the plunger a few times in a twisting motion to spread out the lubricant.

TROUBLESHOOTING MATRIX

Observation	Possibilities	Corrective Action
Vacuum Pad not holding vacuum	Excessive roughness or cuts on sealing edges	Replace vacuum pad
	Pad has glaze, polished or glossy appearance	Replace vacuum pad
	Debris inside pump	Clean inside pump handle, concave rubber and button then correctly re-lubricate pump with silicone lubricant
	Release valve o-ring leaking	Tighten screws, clean or replace release valve o-ring
	Missing o-ring or nylon check ball	Double check to see if the o-ring or ball is missing or misaligned
	Lifting more than 125 lbs	Reduce weight required to lift
High resistance or jammed pump	Damaged handle or plunger	Replace handle or plunger
	Contamination	Clean inside pump handle area then correctly re-lubricate pump with silicone lubricant
Pad slips when attached	Contaminated load surface	Clean load surface
	Contaminated pad	Clean vacuum pad surface
Consistently excessive pumping required to achieve vacuum	Cuts on sealing edges, debris inside pump, release valve o-ring leaking, check ball not seating	If no damage to the equipment, thoroughly clean all components and correctly re-lubricate with silicone lubricant

Replacement Vacuum Cup

A consistent vacuum leak maybe the result of the cup being nicked, worn, or cut along the pads outer edge. Due to rubber degrading properties cup should replaced bi-yearly.

<u>Part Number</u>	<u>Description</u>	<u>Price</u>
PST-8VACUP		
GG-8VACUP	8" Vacuum Cup Pad	\$ 27.00

** All pricing is FOB Red Oak, TX.

Warranty

This product is warrant to be free of defects due to workmanship and materials for a period of 90 days from the date of purchase. If the product fails within this period, it will be repaired or replaced, provided - (1) submitted with proof of purchase (2) transportation charges are prepaid to the factory. Liability under this warranty is expressly limited to repairing or replacement of product or part thereof.

Warranty does not apply where:

- . Repairs are required because of normal wear & tear.
- . Product has been abused or improperly used.
- . Alterations have been made to the product.

To the extent allowable under applicable law, Perfect Score, LLC liability for consequential & incidental damages is expressly disclaimed. Liability in all events is limited to, and shall not exceed, the purchase price paid.