

# **VEVOR<sup>®</sup>**

**TOUGH TOOLS, HALF PRICE**

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## **ABRASIVE BLASTER TANK**

**MODEL: FF-Q903**

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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### NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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**[www.vevor.com/support](http://www.vevor.com/support)**

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	<p>Warning-To reduce the risk of injury, user must read instructions manual carefully.</p>
  	<p>Always wear ANSI approved safety goggles when working with tools and equipment.</p> <p>Wear eye protection.</p> <p>Wear ear protection.</p> <p>Wear protective gloves.</p>
	<p>Compliance is a EC &amp; UK security certification.</p>

## Safety Warnings and Precautions

Thank you for using this product. In order to make sure that you can operate the machine correctly, read this instruction carefully before operation and keep it properly for future reference. Please be sure to read the precautions and safety rules in this page to ensure your safe use. This manual will outline safety warnings and precautions, operating, maintenance and cleaning. The warnings and instructions reviewed in this manual cannot cover all possible conditions and situations that may occur. Caution and common sense are not built into this product, since we believe that the uses will comply with these codes.

**Please read ALL the instructions before using your machine.**

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use product in the presence of flammable gasses or liquids.
3. **Keep children away.** Children must never be allowed in the work area, Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.

5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.

6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts.

Protective, electrically non-conductive clothes and no-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.

7. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles.

8. **Maintain tools with care.** Inspect tool cords periodically and if damaged, have them repaired by an authorized technician. The handles must be kept clean, dry, and free from oil and grease at all times. Please power off and unplug before maintenance and cleaning.

9. **Avoid unintentional starting.** Please turn off the air source when not in use.

10. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.

11. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.

12. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with tool.

13. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

14. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.

15. Never use the machine around flammable materials.
16. **Do NOT** immerse the appliance in water or any other liquid.
17. This product cannot be used for other purposes. Not suitable for commercial use. **INDOOR USE ONLY.**
18. Do not use alcohol, gasoline, etc. as coolant.
19. **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of work piece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
20. This appliance is not intended for use by young or infirm persons unless supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance. Children and pets should stay away from the product.
21. **DO NOT CLEAN IT WITH ANY ABRASIVE MATERIAL.**
22. Never leave it unattended while in use.

 **Warning: The warnings, cautions, and instructions discussed in this instruction discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator of the tool.**

## **HEALTH RISK WARNING**

### **WARNING!**

Do not use an ALLSOURCE Pressure Blaster until you have read this manual and you understand its contents and warnings. These warnings are included for the health and safety of the operator and those in the immediate vicinity. Keep this manual for future reference.

Dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemical known to cause cancer, birth defects of other reproductive harm and respiratory illnesses. Some examples of the chemicals include:

- Lead from lead based paints
- Crystalline silica from bricks,cement and other masonry products Arsenic and chromium from chemically-treated lumber

Your risk from these exposures varies,depending on how often you do this type of work. To reduce your exposure to these chemicals:Work in a ventilated area,and work with approved safety equipment,such as those dust masks that are specially designed to filter out microscopic particles.

Abrasive blasting produces harmful dust.Everyone in the blasting area must wear a properly fitted and properly maintained NIOSH-approved supplied-air respirator.

### **SILICOSIS AND OTHER DUSTWARNINGS:**

Breathing dust from silica sand may cause silicosis,a fatal lung disease. Breathing dust during blasting operations may also cause asbestosis and/or other serious or fatal diseases. A NIOSH-approved, well-maintained air-supplied abrasive blasting respirator must be used by anyone blasting, anyone handling or using media containing toxic substances or media with more than point point one percent crystalline silica and anyone in the area of the dust. Harmful dust can remain suspended in the air for long periods of time after blasting has ceased,causing serious injury or death.

Before removing respirator, use an air monitoring instrument to determine if atmosphere is safe to breathe. Contact local OHSA or NIOSH office to determine the proper respirator for your particular application.

Supplied-Air respirators do not remove or protect against carbon monoxide (CO) or any other toxic gas. Use a carbon monoxide removal device and monitoring device with the respirator to ensure grade D quality air. Follow all applicable OSHA standards and OSHA regulation 1910.134 (d).

### **SAVE THESE INSTRUCTIONS**

You will need these instructions for the safety instructions, the operating procedures, the parts list and the warranty. Put them in a safe and dry place for future reference.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** When using tools such as your air compressor, whether powered by electric motor or gasoline engine, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury. You should review the safety instructions for your air compressor before beginning abrasive blasting with this tool.

### PRODUCT PARAMETERS

Tank Volume	20 gallon
Working Pressure	60-110 PSI
Air Consumption:	6-25cfm
Suggested abrasive capacity:	33 L

#### Attention:

1. **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.**
2. Drain the water from the air compressor before use to ensure the air is dry and avoid abrasive (media) clumping, otherwise it will not work.
3. One of the ceramic nozzles has been installed on the product.



PARTS LIST					
PART	DESCRIPTION	QTY	PART	DESCRIPTION	QTY
01	TANK	1	18	WATER TRAP FILTER	1
02	WHEELS	2	19	BRASS AIR SUPPLY VALVE,3/8"	1
03	COTTER PINS	5	19A	BRASS THROTTLING VALVE,3/8"	1
04	FOOT	1	19B	BRASS ABRASIVE METERING VALVE,3/8"	2
05	AXLE	1	20	MALE-FEMALE CONNECTOR	1
06	HANDEBARS	2	21	NIPPLE CONNECTOR	1
07	HANDLE GRIPS	2	22	AIR HOSE	1
08	PNA SCREW	4	23	ABRASIVE OUTLET PIPE	1
09	HEX NUT	4	24	CLAMP	2
10	WASHER	4	25	ABRASIVE HOSE	1
11	SAFETY VALVE	1	26	NIPPLE	1
12	O-RING	1	27	RUBBER NOZZLE GASKET	1

13	FILLER CAP	1	28	CERAMIC NOZZLE	4
14	JONIT PIPE	1	29	FRONT NUT	1
15	INTAKE MANIFOLD	1	30	WASHER	4
16	PRESSURE GAUGE	1	31	DEADMAN VALVE ADAPTOR	1
17	NIPPLE CONNECTOR	4			

NOZZLES: A=9/64" D=3/32" B=1/8" C=7/64"

## INSTALLATION NOTES

1. Please dispose of all plastic bags carefully and keep them away from children and pets.
2. Check all components provided according to the list in this manual. Make sure you have all of the parts listed.
3. Although paying particular attention when manufacturing this product, you must be careful during the assembly process to avoid being scratched by sharp edges.
4. Wear eye-protective goggles and protective gloves during assembly and use.
5. The product should be placed on a flat surface.

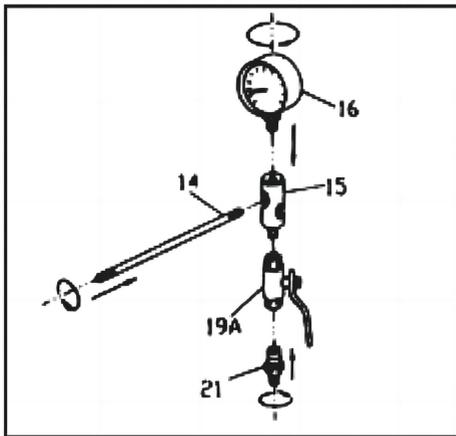
## ASSEMBLY INSTRUCTIONS

1. Refer to the drawing for step 1, assembling the intake manifold. First, attach the pressure gauge (16), to the top of the intake manifold, turning the gauge so that it can be seen across the top of the tank. Next, attach the throttling valve (19A) to the bottom of the manifold. Attach the nipple connector (21), to the throttling valve. Attach the joint pipe (14), to the manifold.
2. Refer to the drawing for step 2, to assemble the water trap filter(18).

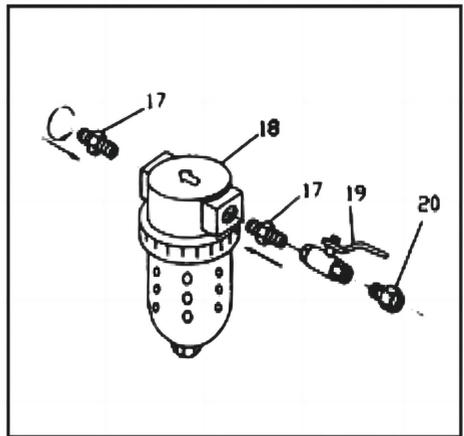
nipple connector(17) is screwed into each side of the filter. On one side, attach the air supply valve(19), to the nipple connector(17), and then attach the male/female connector (20), to the other side of the air supply valve. When you're ready to operate the abrasive blaster, the air hose from the compressor will fasten to the male/female connector (20).

3. Place the tank (01) on a table with the four clips up. Refer to the drawing for step 3. Screw the water trap filter (18) and its parts into the hole at the side of the intake manifold. Then screw the open end of the joint pipe (14) with intake manifold (15) and pressure gauge (16) attached into the threaded hole on the side of the filler pipe on Top of the tank. Again, be sure that the manifold and gauge are vertical.

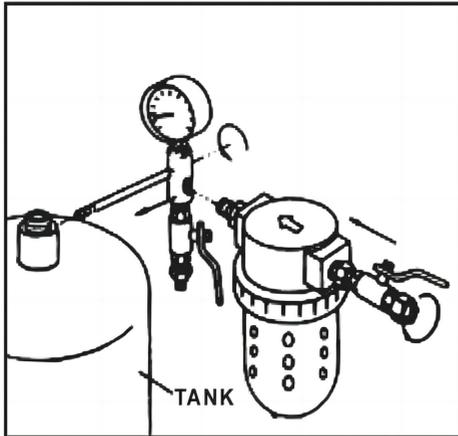
4. Refer to the drawing for step 4, assembly of the abrasive outlet valve into the hole at the bottom of the tank; Attach four parts, in order: Nipple connector(17); abrasive metering valve (19B); nipple Connector(17) and the abrasive outlet pipe (23).



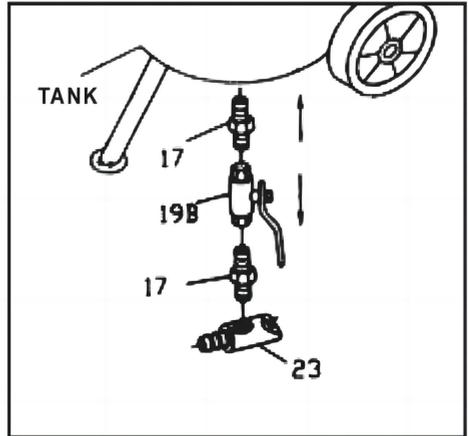
step 1



step 2



step 3



step 4

5. Refer to the drawing for step 5, assembly of the nozzle DEADMAN valve (34). In this assembly process, you'll select one of the four nozzles (28). This is not a permanent selection, as you may change nozzles according to the job being done. Screw the adapter (26), into the nozzle DEADMAN valve (34). Screw the gasket (27) into the nipple connector, then add a nozzle (28) and the nozzle cap-nut (29).

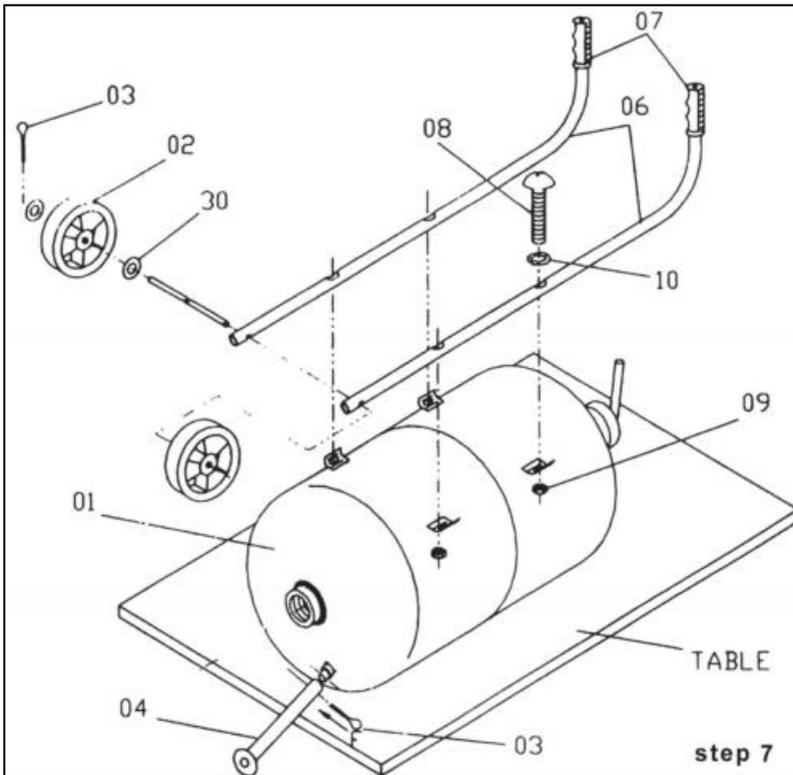
6. Refer to the drawing for step 6, for connecting the abrasive metering valve assembly (step 4) and the assembly (step 5). Slide the two hose clamps (24), over each end of the abrasive hose (25), press one end of the hose, over the nipple on the abrasive outlet pipe (23) and the other end over the adapter (26). Both hose ends should be firmly seated on the nipples. Slide the hose clamps along the hose to each nipple and tighten the clamps very firmly.

7. Fasten the two handlebars (06) to the tank using four pan screws (08) and four washers (10) and four hex nuts (09). Note: keep the handle curve ends upward.

8. Locate the axle (05), and slide it through the holes in the sides of the handlebars (06). Place one wheel (02) at each end of the axle and fasten them into place with cotter pins (03) and washer (30).

9. Insert the fixed foot (04) onto the fitting on the bottom of the tank near the edge. Use your last cotter pin (03) to hold the foot to the tank.

10. Before beginning operations, go back over each connection, double checking to ensure that all are tight and properly seated.



## **WARNING!**

Disconnecting hose while Unit is under pressure could cause serious injury or death. Use safety lock pins and safety cables in all coupling connections to help prevent hose couplings from accidental disconnection.

If twist-on type air hose couplings are used, they must be secured by safety lock pins or wires to prevent accidental disconnection while under pressure. Hose disconnection while under pressure could cause serious injury.

## **PRESSURE BLASTER SAFETY PROCEDURES**

**CAUTION: READ THESE SAFETY PROCEDURES IN THEIR ENTIRETY-PARTS OF THE OPERATING INSTRUCTIONS ARE WITHIN THESE WARNINGS.**

These procedures are not intended to be exhaustive due to the many variables in the abrasive blasting field. Therefore, we INSIST that the hands, ears, mouth,

nose and eyes be covered with appropriate safety protection at all times.

1. Do not place fingers, any body parts or any components in the filler plug seal area when the blast machine is being pressurized. Failure to keep body parts from the filler plug area will result in serious injury.
2. Do not exceed maximum working pressure of 125 PSI. Failure to keep maximum working pressure below 125 PSI can cause the blast machine to burst, causing death or serious injury.
3. Everyone in the blast area including the equipment operator should correctly use and maintain a NIOSH-approved air-supplied respirator, even after blasting has ceased. Harmful dust can remain suspended in the air for long periods of time after blasting has ceased causing injury or death.
4. Before using the pressure blaster: Put on safety glasses, gloves, and NIOSH-approved respirator. Always wear these protective items when operating and while servicing your abrasive blaster. While a protective hood is provided to help protect you from flying part as you use the machine, the hood does not provide protection from air borne particles. A well maintained air supplied blasting respirator must be used by anyone blasting.
5. Use thick gloves with to protect your hands.
6. Use backboards to prevent over spray from hitting someone or something else because the dust will travel a long distance. Blast in a large open area to minimize abrasive accumulation in surrounding areas.
7. Do not pull media tank around by the abrasive hose or let tank fall over as a fitting may break rendering the machine unsafe. Media and air under 125 PSI have a very high destructive force. Never leave a pressurized machine unattended. If an emergency occurs, such as a burst blast hose, shutdown the machine immediately.
8. Drain air out of tank through the inlet valve and disconnect power before maintenance cleaning of any kind. When removing nozzle, caution must be exercised as air pressure may still be in the hose if the nozzle is plugged.
9. For safe operation, perform recommended preventive maintenance on blaster tank, remote unit and accessories. Replace all worn parts before they fail. Immediate replacement of worn components is required. Failure to replace worn

components could result in exposing the operator or bystanders to high speed media and compressed air, causing serious injury.

10. Do not use corrosive materials of any type in unit. Use only clean, dry media.

11. Do not splice abrasive hose. The splice will wear out quickly and may violently spray media over the surrounding area. A worn blast hose could suddenly fail by bursting. Couplings and nozzle holders may not adequately grip worn hose, causing them to blow off under pressure. Compressed air and abrasive escaping from a burst hose, or disconnected coupling or nozzle holder, could cause severe injury.

12. Welding, grinding, or drilling on the blast machine could weaken the vessel. Compressed air pressure could cause a weakened blast machine to rupture, resulting in death or serious injury. Welding, grinding, or drilling on the blast machine vessel, without a National Board R stamp voids the ASME and National board certification if applicable.

13. Always place the machine so that the outlet is pointed away from any objects or persons. Stand clear of the path of exiting abrasive. It may come out at high velocity. Impact from exiting abrasive could cause severe injury.

14. Do not use electrical adaptors that eliminate the ground prong on 115 volt plugs. Failure to properly ground the machine can cause injury from electric shock and equipment damage. To help reduce the possibility of static electricity and its related hazards, always ground the Blast machine.

15. Do not use this equipment in any area that might be considered hazardous or where flammable gases or liquids are present. Failure to do so may cause an explosion resulting in serious injury.

16. Static electricity can be created by the use of this equipment. Do not Use within fifty feet of any explosive, potentially explosive Substances, or their vapors as an explosion can occur.

17. Do not overfill tank with media. Do not fill to within 6 inches from top of the tank.

18. BEFORE OPENING THE TANK, release the air pressure on the abrasive tank. To do this, turn off the air supply valve (19), and push down to open the DEADMAN valve(1), to release pressure in the line. Ensure that the tank pressure gauge reads zero, then open the tank.

19. MAINTAIN CORRECT AIR PRESSURE, maximum of 110PSI is recommended, pressure must not exceed 125PSI. If pressure exceeds 125PSI, stop all work immediately, and disconnect the air compressor to reduce the excess pressure. Do not investigate the blaster's pressure problem until the pressure gauge, reads zero.

## OPERATING INSTRUCTIONS

### OPERATING TECHNIQUE:

1. Connect air hose to air inlet valve. Manufacturer recommends using minimum incoming air hose of 1/2" I.D. Using an air hose smaller than 1/2" I.D. will restrict air volume and result in poor unit operation. Prior to injection of air, be certain air inlet valve and nozzle valve are in the OFF position. With Deadman Valve closed and filler plug tight, open air inlet valve allowing air to pressurize. Operating range of unit is 40 to 110 PSI Note: For proper nozzle selection, refer to nozzle selection chart on page 11. After proper nozzle selection insert nozzle into retainer base. Set again stwasher and slide retainer nut over nozzle and tighten by hand.

2. The Pressure Blaster is equipped with a unique semi-automatic pull-up closure design. Manufacturer recommends a fine grade abrasive with granular size similar to that of table salt. This assures proper flow and reduces the possibility of nozzle obstruction. When ready to pressurize container, pull up closure and turn on incoming air. The internal air pressure will seal the closure.

3. With the blaster pressurized and abrasive flow regulator valve at base of unit closed, open ball valve allowing air to flow through by-pass hose to base of the unit. Then holding the abrasive hose by nozzle retainer housing with nozzle directed away from unit and operator, quickly squeeze the Deadman Valve fully open and adjust the regulator valve at base of tank to bleed the abrasive into air flow. Slowly open regulator valve until abrasive material is slightly visible. Once the regulator flow valve is adjusted to the desired setting, further adjustment should only be required when changing grade of abrasive material or when a nozzle with a different I.D. is used. Opening regulator valve too far will result in a clogged hose or nozzle.

For best performance, the Deadman Valve should be opened and closed quickly.

### WARNING!

Disconnecting hose while Unit is under pressure could cause serious injury or death. Use safety lock pins and safety cables in all coupling connections to help prevent hose couplings from accidental disconnection.

If twist-on type air hose couplings are used, they must be secured by safety lock pins or wires to prevent accidental disconnection while under pressure. Hose disconnection while under pressure could cause serious injury.

## AIR ABRASIVE SUPPLY REQUIREMENTS

Abrasive blasting requires a large volume of air at high pressure. The efficiency of your abrasive blaster can be adversely affected by the use of too small an air supply hose, insufficient air pressure or an overly large nozzle.

Hose ID	Hose Length	Nozzle ID	CFM (110 PSI)	Abrasive Use Per Hour
3/8"	50ft	3/32"	6	60 Lbs
3/8"	25ft	7/64"	12	100 Lbs
1/2"	50ft	1/8"	15	150 Lbs
1/2"	25ft	9/64"	20	200 Lbs

We recommend that air pressure in the range of 60-110 PSI will provide the best Results.

## LOADING ABRASIVES INTO THE TANK

1. Check your abrasive to be sure it's dry, and won't clog the metering valve (19B), abrasive outlet pipe(23), hose(25), or other components.
2. Put on the protective clothing, full hood and MSHA/NICOSH approved Respirator.
3. Turn the air supply valve(19) to the off (horizontal) position.
4. Push down to open the nozzle DEADMAN valve(34).
5. Watch the pressure gauge(16) and make sure it reads zero pressure.
6. Remove the filler cap(13) from the top of the tank.
6. Insert the funnel (31), and pour the abrasive into the funnel. Be sure to get

enough into the tank to do the job at hand. But if this is a big job, fill the tank only 3/4 full, and reload as needed to finish the work.

TIPS: if the humidity is 90/100%, the water trap (18) won't be able to trap all of the moisture in a 3/4 tank. Better to reduce the amount of abrasive, load more frequently, and empty the water trap more often. This will reduce the possibility of clogging the bottom of the tank or the line.

8. with the correct amount of abrasive in the tank, close the filler cap (13).

9. Close the nozzle shut-off valve(198),and open the air supply valve(19).

10. Listen for air leaks at the filler cap as you begin to pressurize the tank from the compressor. Fix any leaks before operating.

## **AIR COMPRESSOR RECOMMENDATION**

To permit efficient operation of your air compressor, follow these guidelines: Use a smaller size nozzle to control the demand of air.

1. Do not blast continuously. Stop blasting operation periodically to allow the compressor to cool.

2. No compressor is designed to constantly run at full RPM. Use 70% of the rated output. Use a minimum 1/2" air hose or metal piping from your air compressor to the blaster. If your

3. compressor is creating an excessive amount of moisture, we recommend using a water trap or a moisture separator. Open the bleeder valve until water slowly flows out continuously.

4. The air compressor should be drained at the bottom of the supply tank through a drain valve and should be blown down daily. It is not unusual to drain three or four gallons of water from the supply tank on a high humidity day. An additional supply tank will help.

5. Keep dust and media created by blasting away from the air compressor unit. Observe maximum air pressure requirements for the blaster and either set your compressor to run within these limits or use a pressure regulator valve to reduce the air pressure to the appropriate range.

## ABRASIVE (MEDIA) USAGE

1. If moisture is in the media it will eventually damage the blaster tank or plug the system. Keep the media and compressor air dry to avoid this problem.
2. If media is moist, screen it and dry it before using.
3. Do not leave media in the tank after blasting because it can absorb moisture and impair blasting performance.
4. Store media in a dry place; keep media off the ground or concrete floors. Put it on a wooden skid.
5. If the humidity is excessively high, it may not be advisable to blast at that time.
6. Consider using different grades or different types of media to prevent nozzle clogging due to high moisture content.
7. Do not use sand.

### **Warning!**

Do not fill the pressure vessel to within six (6) inches of the top of the vessel. If a hose is accidentally disconnected during use media spray may occur.

**See respiratory related WARNINGS at the beginning of the manual.**

### **Black Beauty**

Black Beauty is used when paint and rust has to be removed from steel, such as Car bodies, tanks or heavy machinery. Black Beauty is superior to silica because it only has 0.1% free silica, is faster cutting, can be re-used, is moisture free, and will not pack or absorb moisture.

### **Steel Grit**

Steel grit is extremely fast cutting on rusty metal and hard to remove paint. Steel Grit is popular because it leaves a very smooth finish. It is also comparable in Price to most other specialty abrasives. Steel Grit is recommended in reclaim Systems or cabinets.

### **Glass Bead**

Glass Bead is used in creating a satin or matte finish. Glass Bead is recommended in reclaim systems or cabinets.

## Aluminum Oxide

Aluminum Oxide is a high quality abrasive that is sharper than sand (not recommended) and cuts twice as fast as sand. It leaves a smooth textured finish with no pits. Aluminum Oxide is rougher than glass bead and can be used over and over again. It is one of the most economical abrasives you can use in any reclaim systems or cabinets.

## Plastic Grit

Primarily used to strip aluminum and fiberglass. Great for stripping paint. Light oxidation and surface rust. Recommended for use is blast cabinets because it creates very little dust. Works quickly, last a long time and increases visibility within the cabinet.

### TROUBLE SHOOTING TIPS

PROBLEM/CAUSE	POSSIBLE SOLUTION
<b>Surging of blast flow:</b>	
Air pressure too low	See "Lack of Air Pressure"
Too much media	Adjust media valve
<b>Excessive media consumption:</b>	
Media valve open too far	Close slightly
Air pressure too low	Check pressure gauge
<b>Clogging and plugging of blast flow:</b>	
Debris in media	Purge and screen
Media size too large	Use smaller grit size
Nozzle plugs	Use larger nozzle
Nozzle plugs	Adjust media valve
Wet media	Dry media, drain water from air
<b>Moisture in abrasive media:</b>	
Wet media	Change or use dry media
Water in air	Drain water from airlines
Water in tank	Empty, dry out and refill

<b>Humid weather:</b>	
Moderate humidity	Keep media as dry as possible
Moderate humidity	Use drier or moisture separator
High humidity	Avoid that period of use if possible
<b>Overtaxed compressor:</b>	
Compressor too small	Restrict time used
Nozzle size too large	Use smaller size
Too many leaks in plumbing	Seal and tighten plumbing
Holes in abrasive hose	Replace hose
Air filter on compressor plugged	Clean
<b>Lack of air pressure:</b>	
Compressor too small	Use smaller nozzle
Supply valves not on full position	Open valves
Nozzle size too large	Use smaller size
Leaks in plumbing	Seal and tighten plumbing
Holes in abrasive hose	Replace hose
Air filter on compressor plugged	Clean filter
Urethane gasket worn or dirty	Clean or replace gasket
<b>Lack of abrasive flow:</b>	
Blaster tank empty	Fill tank
Moisture in media	Dry media
Not enough air pressure	Check system
Abrasive hose kinked	Straighten hose
Debris in media	Clean or screen media

## MAINTENANCE

### **WARNING!**

Failure to observe the following before performing any maintenance could cause serious injury or death from the sudden release of compressed air:

- Depressurize the blast machine.

- Disconnect power supply.
- Lockout and tag out the compressed air supply.
- Bleed the air supply line to the blast gun.

Immediate replacement of worn components is required. Failure to replace worn components could expose the operator or bystanders to high speed media and compressed air could cause death or serious injury.

Leaks around couplings and nozzle holders indicate worn or loose fitting parts. Nozzle holders and couplings that do not fit tightly on hose and nozzles that do not fit tightly in nozzle holders could disconnect while under pressure. Impact from nozzles, couplings, hoses, or abrasive, and parts disconnected while under pressure could cause severe injury. To ensure a long and efficient operational life of the Deadman Handle, it is highly recommended that the following procedures be followed:

1. Periodically (after 5-6 months of moderate use or after 10-15 hours of heavy industrial use) replace all hose adaptors that are for abrasive flow use only.
2. Replace rubber sealing block on after 7-10 hours of use to maintain proper shut-off.
3. Check abrasive hose when it begins to often or leaks media or air around the hose or handle area.
4. Replace the nozzle when it wears to the next larger size.
5. Check the urethane gasket in the pull-up closure when the air leaks excessively from the opening (make sure the gasket is free from media).

## **OTHER MAINTENANCE ITEMS**

1. You should make every effort to protect your air compressor from any damage it may receive from your abrasive blasting work. Your best option is to keep the compressor up wind from the abrasive blasting, and the greater the distance between them, the better. Other than that, you should continue standard maintenance procedures for the compressor.

2. Some parts of the abrasive blaster will wear much more rapidly than others, the parts needing close attention carry the air/abrasive mixture, starting with the abrasive hose (25) and going through the metal fillings, the DEADMAN valve (34)

and the ceramic nozzles (28).

3. If air leaks develop in any of these parts, you should stop all work ,and find 3.what needs to be repaired or replaced. When it's new, the abrasive hose (25) has 2 cord piles and the walls are 1/4" thick. As the interior diameter is abraded, this wall becomes thinner and thinner. One way to inspect the hose and other parts affected by the blasting is to put on your protective clothing. Then pressurize the system and close the nozzle shut off the valve (19). Listen for air leaks, fix any leaks before operating. You can also spot places in the hose where the wall is getting very thin. These show up as blisters in the hose; if you find such a blister, get a new hose immediately. If that blister breaks, the abrasive will come out of the side of the hose.

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