

Operation Manual & Part List

HD4836 Side Open Blast Cabinet W/DC4000 & MS1500

WARNING!! Abrasive blast cabinets produce a powerful flow of abrasive particles. To avoid personal injury and/or property damage, read this manual thoroughly before operating the blast cabinet. It is suggested this manual is kept for reference of blaster model number and replacement parts listing.

**This blast cabinet is set up for use with DRY Abrasive Materials ONLY!
DO NOT MIX FLUIDS WITH BLAST MATERIAL!**

Introduction

Cyclone abrasive blast cabinets are designed for cleaning and finishing with dry blast materials such as glass beads, aluminum oxide, blasting garnet, walnut shells, silicon carbide and sands. The system is sealed at all openings. The blast system will produce several different finishes, depending on the type of blasting material and the air pressure used.

Precautionary Check List

- * Always close cabinet doors before blasting.
- * Make sure all air connections are secure.
- * Do Not Operate Over 120 PSI.
- * Always clean any spilt blasting material from work area. It can cause floors to become slippery.
- * Use lower air pressure to clean soft metals and delicate parts.
- * Always keep the blast stream moving in a circular or horizontal motion. Any blast concentrated in one area will result in pitting and uneven blast surfaces.
- * **DO NOT USE STEEL SHOT IN THIS BLAST CABINET!** This cabinet is not designed for or set up for steel shot. Use of steel shot in this blast unit will void the warranty and possibly injury the operator! This includes black beauty.
- * **DO NOT USE LIQUID OF ANY KIND IN THIS BLAST CABINET!** Liquids will cause the blast media to clump up and not flow through the hoses properly. Use of any liquids will void the warranty and could cause damage to the cabinet!

How To Assemble and Install Blast Cabinet

- 1) Attach system to electricity. Bulbs are already in lamp.
- 2) Attach air to the foot valve assembly. It is 1/4" npt. Screw hose barb into the cabinet (left hand side). Slide hose from foot pedal over this barb and tighten clamp provided.
- 3) Open cabinet and pour 15-25 lbs. of blast material into cabinet hopper.
- 4) Place part on metal grate to be blasted. Close door.
- 5) Turn light and dust collection system on.
- 6) Depress foot pedal and begin to blast. Make sure to keep the spray pattern moving in circular motions. This will help ensure a more even result. Do not blast directly at the window. This will cause frosting of the window (which means you will have to replace it). Also, be careful not to hit the window with the gun or with your parts. This could cause the window to break and possibly injure the operator.

Abrasive feed from separator:

- 1) The pick up hose assembly feeds directly from the separator. With the dust collection in operation, the separator will continuously have clean blast abrasive for the pick up hose to draw from. There is a hole located in the pick up hose on the exterior of the cabinet with a braided hose sleeve near it. This is to smooth out the flow of blast material through the hoses and out the gun on the media feed from the separator to the cabinet. Cover the hole partially or completely for a smooth flow of media to the gun.

To operate the air purge in the dust collection system: Please note this purge system should not operate non stop. This is for occasional cleaning and for use no more than 5 minutes per cleaning.

- 1) Attach air to the 1/2" npt ball valve located on the side of the dust collector housing.
- 2) With the dust collector housing closed, turn valve on, allowing interior air waves to send air thru the filter, thus knocking dust from the cartridge filter to the bottom hopper to be discarded. Generally, 5 -10 minutes are sufficient. Turn air valve off and disconnect the air when purging is complete.

Warranty:

Cyclone abrasive blast cabinets are warranted against defects in workmanship or materials in accord with the following terms:

- * Warranty extends to the original owner only.
- * Warranty does not cover blast cabinets used in commercial rentals.
- * Warranty is valid for one year (1) following the date of purchase.
- * Warranty does not cover standard wear items such as the nozzle, orifice, blasting material, window glass and gaskets.
- * Warranty does not cover misuse of blast cabinet **This includes failure to follow instructions.**
- * Warranty does not cover blast unit if altered or otherwise changed from original state from the Factory.
- * **WARRANTY DOES NOT COVER DAMAGES IN TRANSIT. IN SUCH CASES, THE RECEIVER SHOULD CONTACT THE FREIGHT CARRIER WITHIN 15 DAYS OF DELIVERY TO FILE A CLAIM. IT IS NOT THE RESPONSIBILITY OF THE MANUFACTURER TO FILE THE CLAIM. IF ANY PARTS SHOULD BE REQUIRED TO FIX A FREIGHT DAMAGED UNIT, THE RECEIVER WILL BE BILLED ACCORDINGLY. THIS BILL CAN THEN BE TURNED OVER TO THE FREIGHT CARRIER.**

USERS SHOULD CALL THEIR DISTRIBUTOR OR THE FACTORY UPON INSPECTION OF ANY PROBLEM. A TECHNICAL PERSON CAN ASSIST YOU.

This warranty grants the user certain legal rights. Users and purchasers may also be protected by other rights that vary with location.

Note: Except for the warranties set forth above, Cyclone makes no other warranties of any kind-express or implied. Including warranties of merchantability of fitness of product for a particular purpose.

Replacement Parts List and Accessory Listing

4056	Window/Door Gasket (Spec. Model)	2001	Window W/ 1 Mylar Shield
2010	Glove Clamp	2913	1/2" ID Air Hose (Spec. Model)
2015	Pick Up Hose (Spec. Model)	2018	Gauge*
2019	Regulator*	2927	Window Frame (new style)
2057	Pack of 12 Mylar Sheets*	2074	32" Lined Gloves (pr)
2905	H.D. Foot Pedal Assembly	2910	Valve Only f/Foot Pedal/Safety Valve
7008	25 CFM T.C. Nozzle	7030	25 CFM H.D. Nozzle Holder Only
7038	25 CFM Orifice & Brass Holder	7040	25 CFM Heavy Duty Gun Assembly
DC4000	400 CFM Dust Collection System**	2028	Door Handle (new style)

Items marked () are accessories and DO NOT COME STANDARD WITH THIS UNIT.
They may be purchased separately.

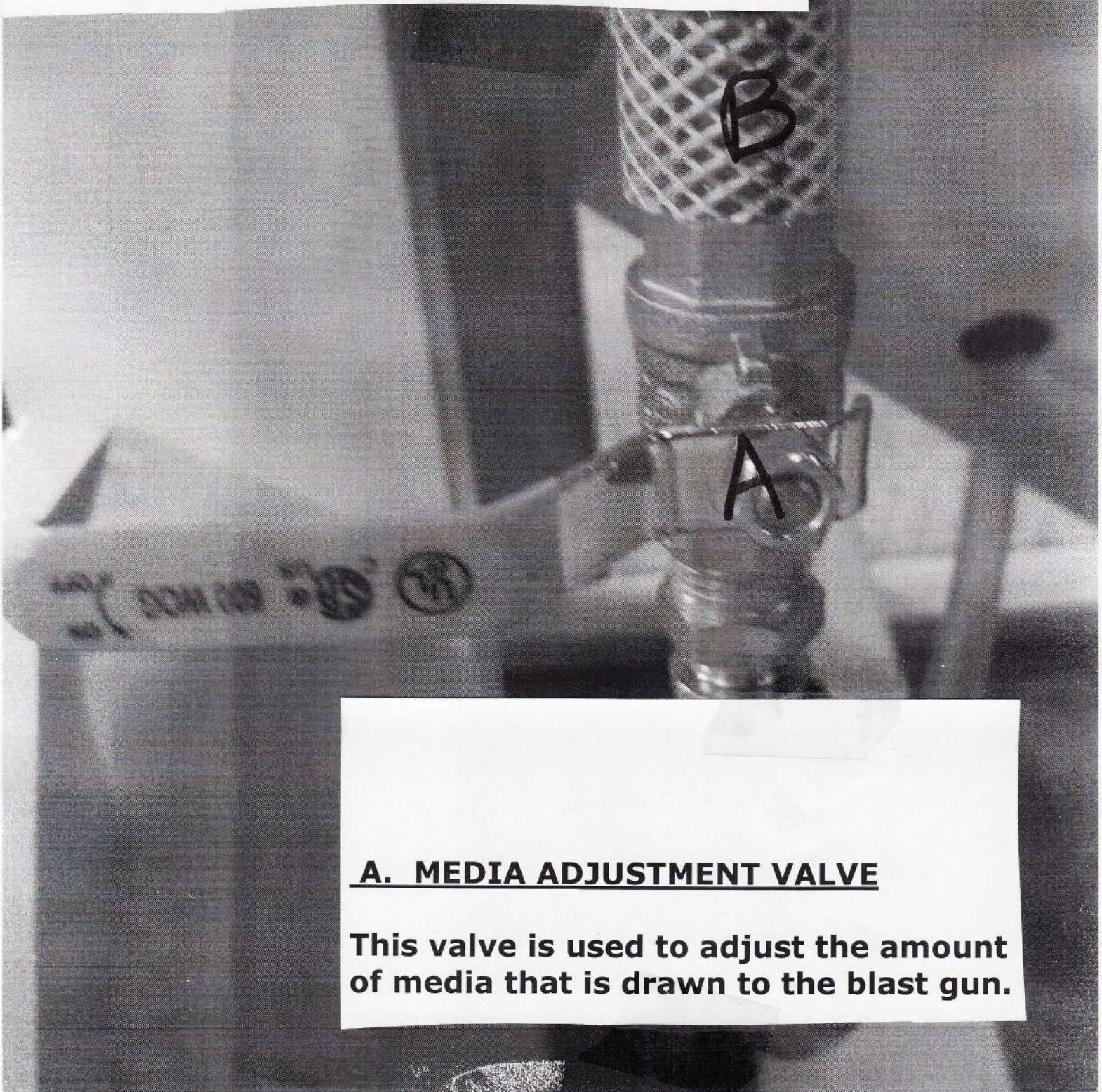
**See DC4000 Manual for replacement parts.

Trouble Shooting

<u>Problem</u>	<u>Cause</u>	<u>Remedy</u>
Excessive Dust	Dust collection system failing	Clean out canister and/or replace filters.
	Too much blasting material	Remove excess material
	Blasting material worn	Replace with new material
Surging	Too much blasting material	Remove excess material
Inadequate Blast	Blast material worn	Replace with new material
	Gun parts worn	Replace with new nozzle & orifice
	Blast material worn	Replace with new material
	Too much air	Regulate air to 80-100 psi
Static	Change in humidity	Stand on cardboard/rubber mat
	Faulty ground wiring	Install static electric band. Check electrical wiring Get lined gloves
Unit Won't Blast	Excessively worn gun parts.	Replace parts and be sure they are in the proper place.

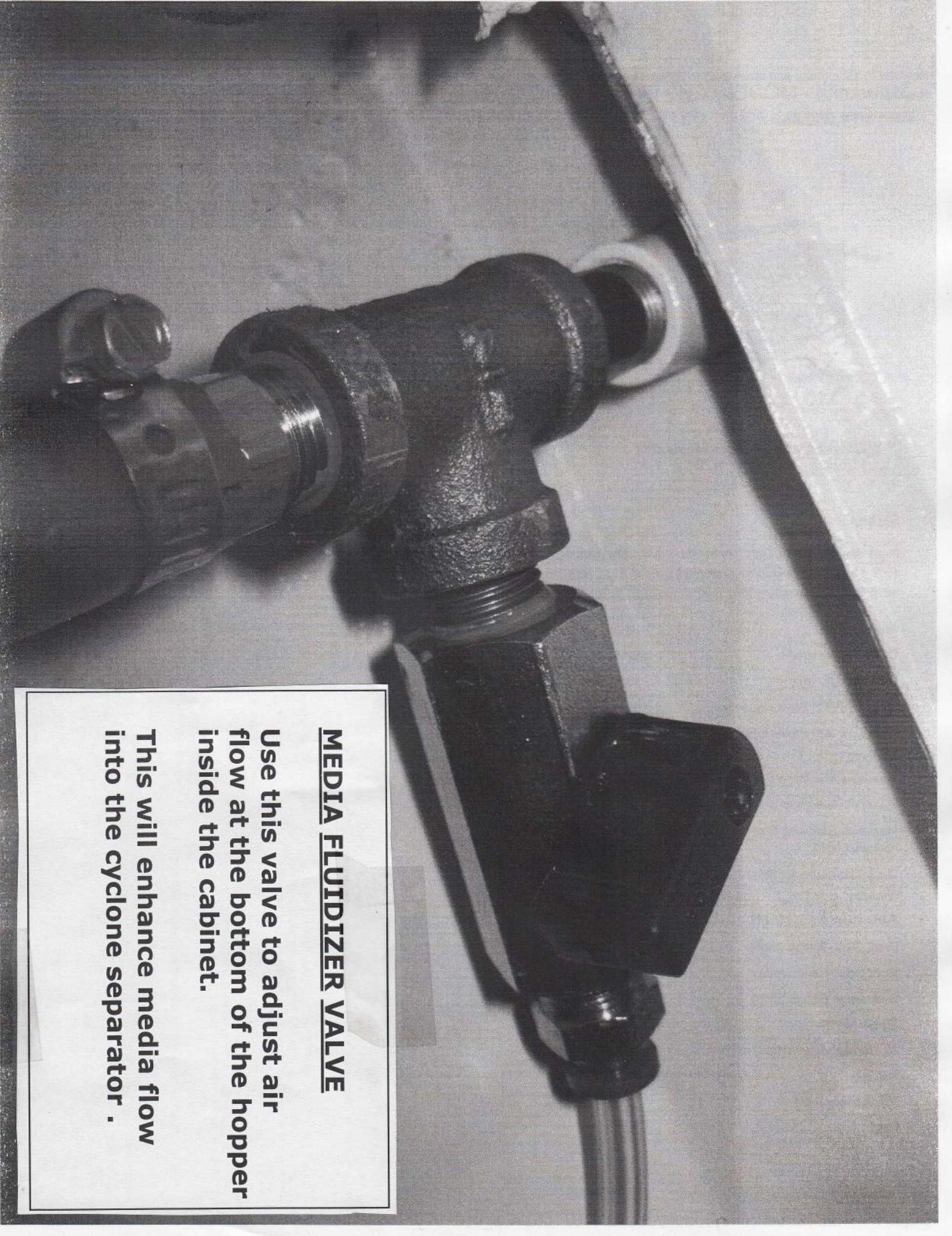
B. AIR MIX SLEEVE

This sleeve covers a hole in the pipe nipple. The hole is necessary to allow air to mix with the media being drawn to the gun. Cover or uncover the hole,(or adjust the sleeve partially,) to get the desired low.



A. MEDIA ADJUSTMENT VALVE

This valve is used to adjust the amount of media that is drawn to the blast gun.



MEDIA FLUIDIZER VALVE

Use this valve to adjust air flow at the bottom of the hopper inside the cabinet.

This will enhance media flow into the cyclone separator .