



# PIRATE<sup>®</sup> BRAND

## 0.5 / 1.0 Cu Ft Abrasive Blasters

# C-SERIES JR



See limited warranty documentation for complete details

# FEATURES & BENEFITS

## Professional Grade Components Paired With Small Capacity Blasters

### PNEUMATIC OR ELECTRIC CONTROLS



Choose between pneumatic or 12VDC electric controls. Electric controls are recommended for blast hose lengths longer than 100', feature faster starts/stops, and are less prone to freezing in cold climates.

### 5 YEAR / 10 YEAR LIMITED WARRANTY

That's not a mistake. All Pirate Brand® CPR blasters include our incredible warranty. See limited warranty documentation for complete details.



### 150 PSI VESSEL

It's simple, more psi = more productivity. To give you the best possible productivity, CPR pressure vessels are ASME certified and Canadian Registered for all provinces for everyday use at 150 PSI (10.3 BAR).

### 2 CAPACITIES

In addition to their larger 3.0 and 6.0 cousins, these smaller CPR Jr. blasters are available in 0.5 & 1.0 cu ft abrasive capacities.

### MANUAL HOLDER

Attached container keeps the user's manual protected from damage and where you need it most.



### POWDER COATED

Powder coated pressure vessel keeps your investment protected and looking good for the long haul.



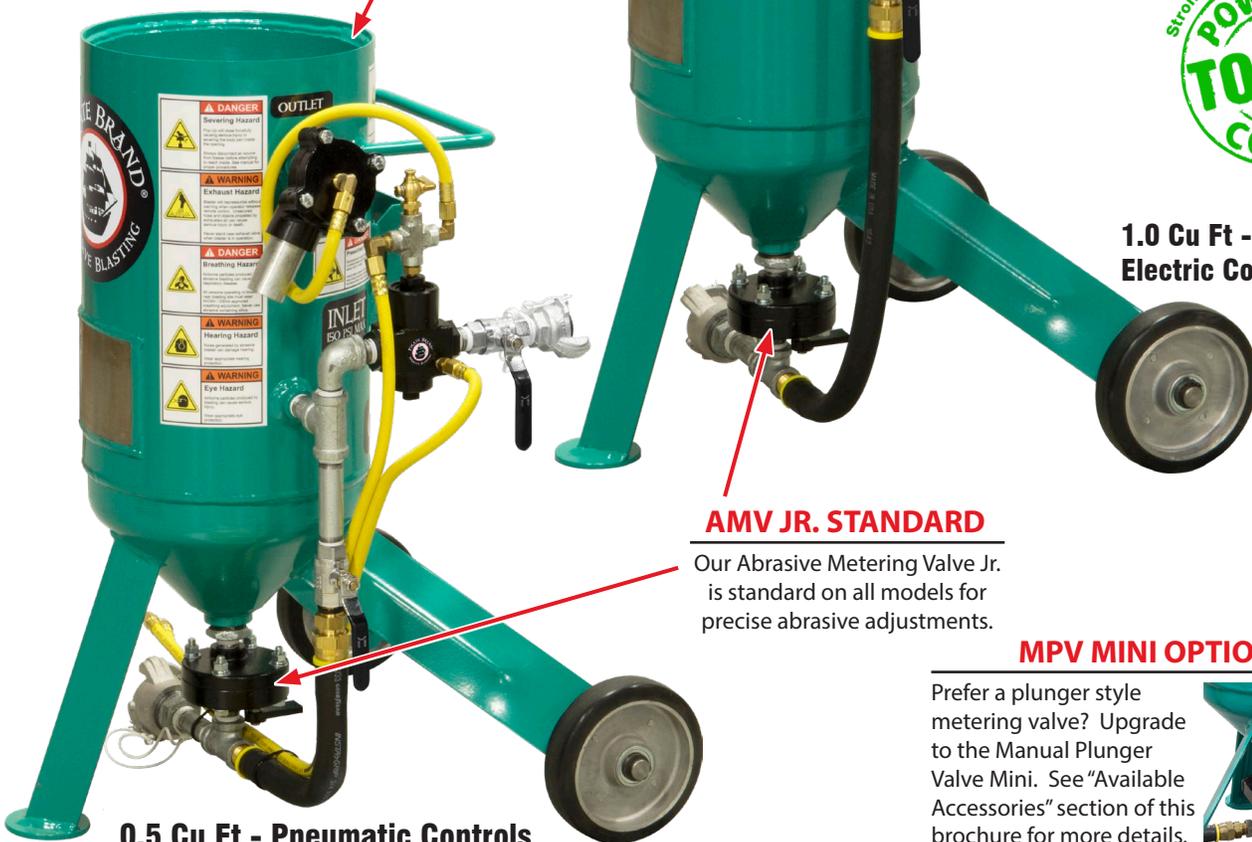
1.0 Cu Ft - 12VDC Electric Controls

### AMV JR. STANDARD

Our Abrasive Metering Valve Jr. is standard on all models for precise abrasive adjustments.

### MPV MINI OPTION

Prefer a plunger style metering valve? Upgrade to the Manual Plunger Valve Mini. See "Available Accessories" section of this brochure for more details.



0.5 Cu Ft - Pneumatic Controls

# HOW CPR JR SYSTEMS WORK

## (Pressure Release)

### ADDING ABRASIVE

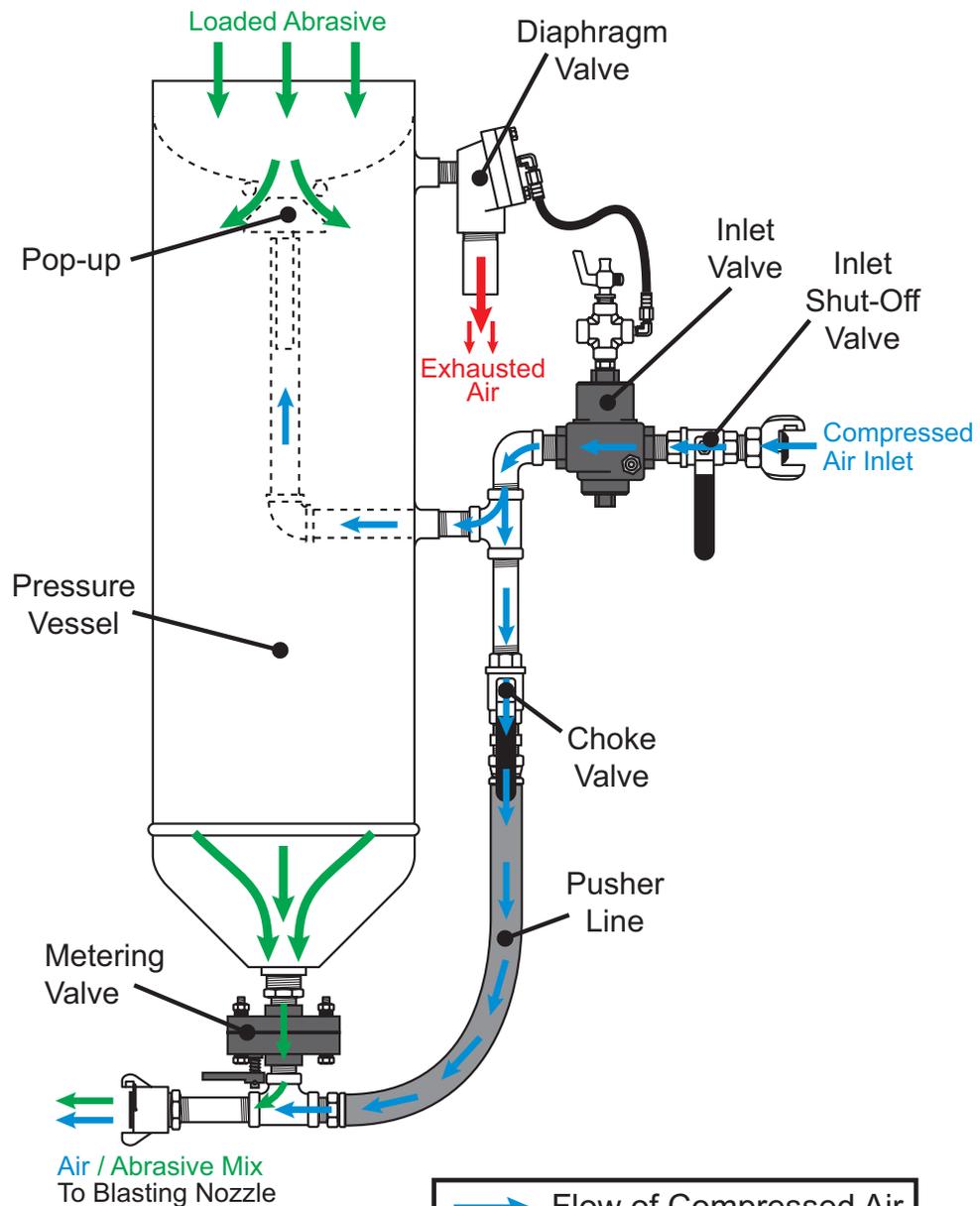
Abrasive is added through the hole in the top of the Abrasive Blaster where the Pop-up and its seat are located. When abrasive is added, it flows down through the hole, around the Pop-up, and down to the bottom of the pressure vessel where it will exit through the Metering Valve when blasting is started.

### PRESSURIZATION

When a compressed air source (such as an air-compressor) is connected to the inlet of the Abrasive Blaster and the Inlet Shut-Off Valve is opened, compressed air flows to the Inlet Valve where it is stopped. When the control handle is activated, the Inlet Valve opens and air flows into the Pressure Vessel causing the Pop-up (located internally) to seal against its seat. Simultaneously, the Diaphragm Valve closes sealing the Pressure Vessel allowing it to hold pressure. Air will also continue past the Choke Valve, through the Pusher Line, and finally to the "tee" under the Metering Valve where it is mixed with abrasive. The mixture of compressed air and abrasive will now exit the Abrasive Blaster through a blast hose and nozzle connected to the coupling under the Metering Valve and blasting begins. It is important to note that, some abrasive will collect at the base of the Metering Valve causing the blast hose to pulsate and spray abrasive erratically for a short time while pressure builds up in the pressure vessel. This is normal and will not damage the Abrasive Blaster.

### DEPRESSURIZATION (BLOW-DOWN)

When the control handle is released in a pressure release (CPR) system, the Inlet Valve automatically closes stopping the flow of compressed air into the Pressure Vessel. Simultaneously, the Diaphragm Valve opens allowing the compressed air in the pressure vessel to exit the Abrasive Blaster through the Diaphragm Valve. When all the pressure in the Pressure Vessel is released, blasting stops.



- Flow of Compressed Air
- Flow of Abrasive
- Flow of Exhaust Air During Blow-down

# STANDARD PACKAGES

## PNEUMATIC

Pirate Brand® CPR Blasters with pneumatic controls start and stop the blasting process using a bleeder type control handle and twinline control hoses connected to the inlet and outlet diaphragm valves on the blast pot.

### ADVANTAGE:

- Does not require a 12V power source.



0.5 Cu Ft Electric



## ELECTRIC

Pirate Brand® CPR Blasters with 12VDC electric controls start and stop the blasting process using an electric control handle and control cord that activate a control valve connected to the inlet and outlet diaphragm valves on the blast pot.

### ADVANTAGES:

- Faster starts and stops
- Recommended for blast hose runs longer than 100'
- Less likely to freeze up in cold conditions.

### Pneumatic Controls



- BASE PACKAGE** Includes:
- CPR Portable Blaster w/ Pneumatic Controls
  - AMV JR. Abrasive Metering Valve
  - 25' Pneumatic Control Twinline
  - Pneumatic Bleeder Type Control Handle

0.5 CU FT 121-0510-A

1.0 CU FT 121-0530-A



- BRONZE PACKAGE** Includes:
- Base Package Items PLUS:
  - 25' Blast Hose Assembly w/ Couplings
  - #4 Tungsten-Carbide Nozzle

0.5 CU FT 121-0510-B

1.0 CU FT 121-0530-B



- SILVER PACKAGE** Includes:
- Bronze Package Items PLUS:
  - RPB® ASTRO™ Respirator Package w/ Radex Airline Filter™ & 25' Breathing Hose
  - Blast Suit (Large)
  - Double Palmed Blast Gloves

0.5 CU FT 121-0510-C

1.0 CU FT 121-0530-C



- GOLD PACKAGE** Includes:
- Silver Package Items PLUS:
  - 50' Air Hose Assembly for Connecting CPR Blaster to Compressed Air Source
  - 50' Air Hose Assembly for Breathing Airline Filter Connection + 2-Lug Fitting For Filter

0.5 CU FT 121-0510-D

1.0 CU FT 121-0530-D

### Electric Controls (12VDC)



- BASE PACKAGE** Includes:
- CPR Portable Blaster w/ Pneumatic Controls
  - AMV JR. Abrasive Metering Valve
  - 55' Electric Control Cord
  - Electric #2 Control Handle

0.5 CU FT 121-0510-A-EDC

1.0 CU FT 121-0530-A-EDC



- BRONZE PACKAGE** Includes:
- Base Package Items PLUS:
  - 25' Blast Hose Assembly w/ Couplings
  - #4 Tungsten-Carbide Nozzle

0.5 CU FT 121-0510-B-EDC

1.0 CU FT 121-0530-B-EDC



- SILVER PACKAGE** Includes:
- Bronze Package Items PLUS:
  - RPB® ASTRO™ Respirator Package w/ Radex Airline Filter™ & 25' Breathing Hose
  - Blast Suit (Large)
  - Double Palmed Blast Gloves

0.5 CU FT 121-0510-C-EDC

1.0 CU FT 121-0530-C-EDC



- GOLD PACKAGE** Includes:
- Silver Package Items PLUS:
  - 50' Air Hose Assembly for Connecting CPR Blaster to Compressed Air Source
  - 50' Air Hose Assembly for Breathing Airline Filter Connection + 2-Lug Fitting For Filter

0.5 CU FT 121-0510-D-EDC

1.0 CU FT 121-0530-D-EDC

# LOW-PRESSURE PACKAGES

## LP RESPIRATOR

High pressure respirators require an additional 15 CFM @ 100 PSI to work properly. For those with an air compressor that can produce enough CFM to run the blast equipment but not enough extra for a high pressure respirator we have created Low-Pressure Silver & Gold Packages. These packages feature a 3/4 hp ambient air pump which feeds a low-pressure version of the RPB® ASTRO™ respirator.



### ADVANTAGE:

- Reduced CFM requirement for your compressor by eliminating the 15 CFM used by the respirator.

## Compressor Requirements @100 PSI - Standard vs. Low-Pressure

	#3 (3/16") NOZZLE		#4 (1/4") NOZZLE		#5 (5/16") NOZZLE	
	Standard Pkg.	Low-Pressure	Standard Pkg.	Low-Pressure	Standard Pkg.	Low-Pressure
Blaster	45 CFM	45 CFM	80 CFM	80 CFM	140 CFM	140 CFM
Respirator	15 CFM	none	15 CFM	none	15 CFM	none
<b>Total Air Required</b>	<b>60 CFM</b>	<b>45 CFM</b>	<b>95 CFM</b>	<b>80 CFM</b>	<b>155 CFM</b>	<b>140 CFM</b>

\*Air consumption requirements will increase as nozzles wear.

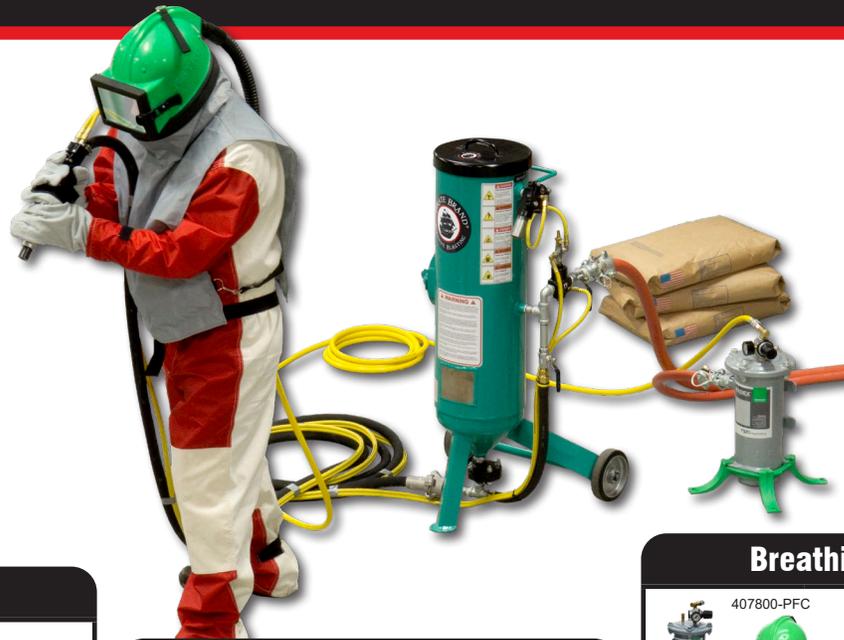
### Pneumatic Controls

	<b>SILVER LOW PRESSURE PACKAGE</b>	
	Includes:	
	<ul style="list-style-type: none"> <li>• Bronze Package Items PLUS:</li> <li>• RPB® ASTRO™ Respirator Package w/ AMBIENT AIR PUMP &amp; 50' Breathing Hose</li> <li>• Blast Suit (Large)</li> <li>• Double Palmed Blast Gloves</li> </ul>	
0.5 CU FT	<b>121-0510-CLP</b>	
1.0 CU FT	<b>121-0530-CLP</b>	
	<b>GOLD LOW PRESSURE PACKAGE</b>	
	Includes:	
	<ul style="list-style-type: none"> <li>• Silver Low Pressure Package Items PLUS:</li> <li>• 50' Air Hose Assembly for Connecting CPR Blaster to Compressed Air Source</li> </ul>	
0.5 CU FT	<b>121-0510-DLP</b>	
1.0 CU FT	<b>121-0530-DLP</b>	

### Electric Controls (12VDC)

	<b>SILVER LOW PRESSURE PACKAGE</b>	
	Includes:	
	<ul style="list-style-type: none"> <li>• Bronze Package Items PLUS:</li> <li>• RPB® ASTRO™ Respirator Package w/ AMBIENT AIR PUMP &amp; 50' Breathing Hose</li> <li>• Blast Suit (Large)</li> <li>• Double Palmed Blast Gloves</li> </ul>	
0.5 CU FT	<b>121-0510-CLP-EDC</b>	
1.0 CU FT	<b>121-0530-CLP-EDC</b>	
	<b>GOLD LOW PRESSURE PACKAGE</b>	
	Includes:	
	<ul style="list-style-type: none"> <li>• Silver Low Pressure Package Items PLUS:</li> <li>• 50' Air Hose Assembly for Connecting CPR Blaster to Compressed Air Source</li> </ul>	
0.5 CU FT	<b>121-0510-CLP-EDC</b>	
1.0 CU FT	<b>121-0530-DLP-EDC</b>	

# BLASTING SET-UP



## Air Hose



10-034RED-050-1	3/4" AIR HOSE ASSEMBLY, 50' (RED)
10-100RED-025-1	1 AIR HOSE ASSEMBLY, 25' (RED)
10-100RED-050-A	1" AIR HOSE ASSEMBLY, 50' (RED)
27WT-1	SAFETY CABLE, 1/2" - 1', HOSE TO EQUIP.
27WC-1	SAFETY CABLE, 1/2" - 1', HOSE TO HOSE

## Blast Hose, Twinline & Control Cord



10-050BLK-025-3AL	1/2" BLAST HOSE ASSEMBLY, 25', INCLUDES NOZZLE HOLDER
10-050BLK-050-3AL	1/2" BLAST HOSE ASSEMBLY, 50', INCLUDES NOZZLE HOLDER
10-050BLK-025-4AL	1/2" EXTENSION BLAST HOSE ASSEMBLY, 25'
10-050BLK-050-4AL	1/2" EXTENSION BLAST HOSE ASSEMBLY, 50'
10-034BLK-025-4AL	3/4" EXTENSION BLAST HOSE ASSEMBLY, 25'
10-034BLK-050-4AL	3/4" EXTENSION BLAST HOSE ASSEMBLY, 50'
200-025	HOSE, TWINLINE CONTROL, ASSEMBLY, YEL/YEL W/BLACK STRIPE, NOMINAL 3/16" ID x 25', W/UNIONS
200-050	HOSE, TWINLINE CONTROL, ASSEMBLY, YEL/YEL W/BLACK STRIPE, NOMINAL 3/16" ID x 50', W/UNIONS
888-7073-055PB	ELECTRICAL EXTENSION CONTROL CORD W/ TWIST-LOCK CONNECTORS, 55', 3 PRONG
888-7073-110PB	ELECTRICAL EXTENSION CONTROL CORD W/ TWIST-LOCK CONNECTORS, 110', 3 PRONG
888-7074-05501PB	ELECTRICAL EXTENSION CONTROL CORD W/ SEALED WATERPROOF CONNECTORS, 55'
888-7074-11001PB	ELECTRICAL EXTENSION CONTROL CORD W/ SEALED WATERPROOF CONNECTORS, 110'
27WT-1	SAFETY CABLE, 1/2" - 1', HOSE TO EQUIP.
27WC-1	SAFETY CABLE, 1/2" - 1', HOSE TO HOSE

## Nozzles



STANDARD STRAIGHT BORE TUNGSTEN CARBIDE NOZZLES (3/4" THREADS)	
1348-430	#3 TUNGSTEN CARBIDE NOZZLE
1348-780	#4 TUNGSTEN CARBIDE NOZZLE
1348-781	#5 TUNGSTEN CARBIDE NOZZLE
HIGH PERFORMANCE MEDIUM VENTURI TUNGSTEN CARBIDE NOZZLES (3/4" THREADS)	
1348-614	#3 TUNGSTEN CARBIDE NOZZLE
1348-616	#4 TUNGSTEN CARBIDE NOZZLE
1348-317	#5 TUNGSTEN CARBIDE NOZZLE
LONG LIFE SHORT VENTURI BORON CARBIDE NOZZLES (3/4" THREADS)	
1348-1133	#3 BORON CARBIDE NOZZLE
1348-1144	#4 BORON CARBIDE NOZZLE
1348-1155	#5 BORON CARBIDE NOZZLE

## Air Dryer / After Cooler



DLAD-250-360	PORTABLE AIR DRYER, 250 CFM @ 100 PSIG, 360 CFM @ 150 PSIG
DLAC-250-360	PORTABLE AFTER COOLER, 250 CFM @ 100 PSIG, 360 CFM @ 150 PSIG

## Breathing Equipment



HIGH PRESSURE (AIR COMPRESSOR SUPPLIED)	
407800-PFC	RPB® ASTRO™ RESPIRATOR PACKAGE (INCLUDES RESPIRATOR, 50' BREATHING HOSE & RADEX AIRLINE FILTER™)
407800	RPB® ASTRO™ RESPIRATOR
407028	RPB® 25' BREATHING AIR SUPPLY HOSE, 3/8"
407029	RPB® 50' BREATHING AIR SUPPLY HOSE, 3/8"
03-501	RPB® C40 HOT/COLD CLIMATE CONTROL DEV.
407001	RPB® COOL TUBE ASSEMBLY W/BELT
407024	RPB® HOT TUBE ASSEMBLY W/BELT
407900	RPB® RADEX AIRLINE FILTER™ COMPLETE
08-400-01	RPB® GX4 GAS MONITOR, 120V AC
08-401-01	RPB® GX4 GAS MONITOR, 12VDC
LOW PRESSURE (AIR PUMP SUPPLIED)	
407802-PLP	RPB® ASTRO™ LOW PRESSURE RESPIRATOR PACKAGE (INCLUDES RESPIRATOR, 50' BREATHING HOSE & AIR PUMP)
407802	RPB® ASTRO™ RESPIRATOR, LOW PRESSURE
407035	RPB® 50' BREATHING AIR SUPPLY HOSE, 1/2"
06-100	RPB® AMBIENT AIR PUMP, 3/4 HP

## Blast Suits / Gloves



122-9140	BLAST SUIT, LIGHTWEIGHT, MEDIUM
122-9150	BLAST SUIT, LIGHTWEIGHT, LARGE
122-9160	BLAST SUIT, LIGHTWEIGHT, XL
122-9170	BLAST SUIT, LIGHTWEIGHT, XXL
122-9180	BLAST SUIT, LIGHTWEIGHT, XXXL
407701	DOUBLE PALMED LEATHER BLASTING GLOVES

# AVAILABLE ACCESSORIES

## A Lids and Screens

**Lids** are important for preventing moisture from falling into the abrasive blaster in outdoor applications. Moisture in the abrasive blaster can cause obstructions in the metering valve leading to costly down-time.

**Screens** are important for preventing foreign objects from falling into the abrasive blaster. Foreign objects in the abrasive blaster can cause obstructions in the metering valve leading to costly down-time.

103-1070	LID FOR 0.5 & 1.0 CU FT C-SERIES BLASTERS
103-3620	SCREEN FOR 0.5 & 1.0 CU FT C-SERIES BLASTERS

## B Moisture Separator

Moisture separators reduce the moisture content of the supplied air to the abrasive blaster. Moisture in the air can lead to clogs and premature wear of blaster components.

101-2970-FI	MOISTURE SEPARATOR KIT FOR 0.5 & 1.0 CU FT C-SERIES BLASTERS
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## C Regulator Kit

Adding a regulator kit to your abrasive blaster will allow you to blast at lower pressures to achieve custom finishes or help control profile

101-9020-FI	1/2" REGULATOR KIT FOR 0.5 & 1.0 CU FT C-SERIES BLASTERS
508-102	REPAIR KIT FOR 1/2" REGULATORS

## D Muffler

Add a muffler to the blow-down diaphragm valve to reduce noise during depressurization

888-2011-006SPB	MUFFLER, BLOWDOWN, SHORT, 1" MNPT
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## E Job Timer

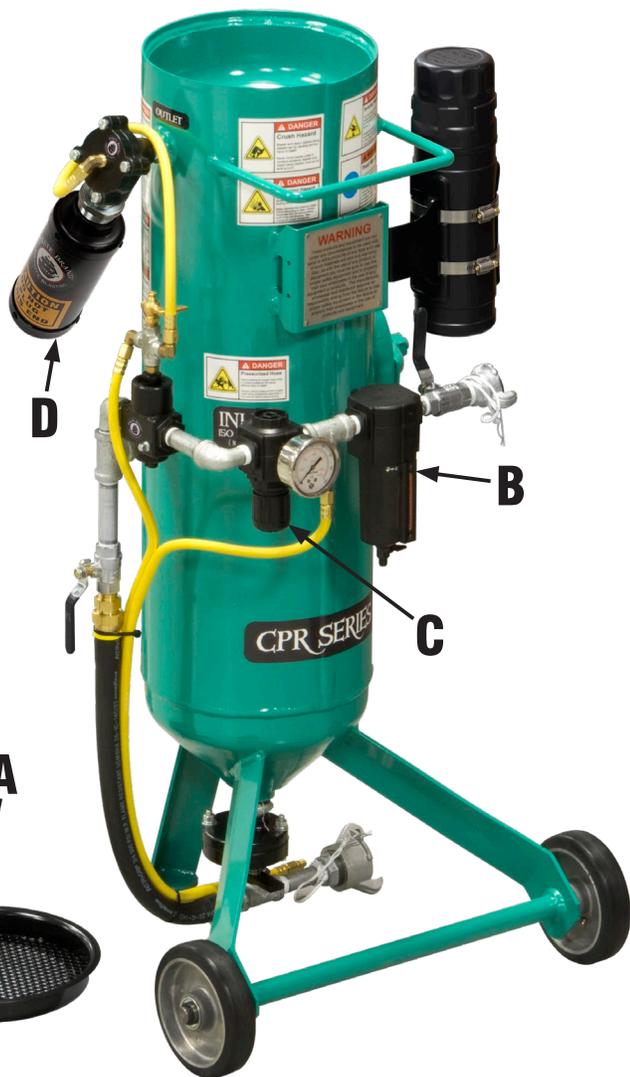
Keep track of the time spent on a job and total hours on your abrasive blaster. Know your cost, control your cost & set up a preventative maintenance program for your blast equipment. **For use with C-Series blasters with electric controls only.**

PB-9805023P-01	DUAL TIMER CONTROL BOX W/KEY RESET & MOUNTING BRACKET
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## F Power Supply

Add a power supply to run any 12VDC electric blaster on common 120VAC outlet power. Powers up to 4 control valves at one time.

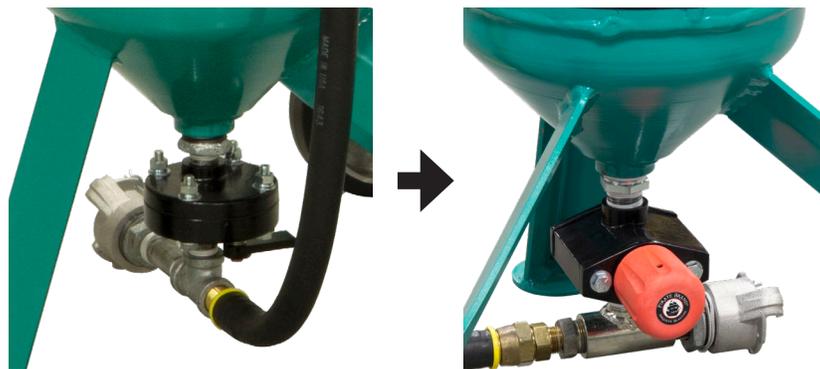
PB-SMP3WP	POWER SUPPLY 120VAC INPUT / 12VDC @ 2.5 AMP OUTPUT
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## MPV Mini Upgrade

If you prefer a REPAIRABLE manual plunger style metering valve, we can swap out the AMV Jr. for the MPV Mini.

888-2124-00512PB-FI	MPV MINI UPGRADE, FACTORY INSTALLED
888-2124-10099PBPB	MPV MINI, REPAIR/SERVICE KIT



# PIRATE BRAND®

At Pirate Brand®, we know abrasive blasting. We have fused our 100+ years of combined experience in the blasting industry with feedback from distributors and end-users to produce abrasive blast equipment and replacement parts that are second to none. In addition to our extensive line of blasting equipment, we produce a full line of aftermarket parts that are 100% compatible replacements for other blast equipment manufacturers. We believe in quality, reliability and productivity so we subject all our products to strict quality control testing to ensure the best possible performance is achieved.

**In the tough world of abrasive blasting, quality is crucial,**

**...and Pirate Brand® delivers.**



**Portable Abrasive Blasters • Stationary Abrasive Blasters • Bulk Abrasive Blasters  
Soda Blasters • Air Dryers • After Coolers • Specialty Equipment • Blast Cabinet Parts  
Parts For Other Brands • Safety Gear • Nozzles • Air & Blast Hose • Couplings**