# PIRATE® BRAND

## 6.5 / 8 / 10 Cu Ft Stationary Abrasive Blasters

# S-Series



PIRATE BRAND® ABRASIVE BLAST POTS

5 YEAR / 10 YEAR WARRANTY

See limited warranty documentation for complete details

## Standard SPR Series
**Our Standard Pressure Release Workhorse**

Pages 4-5

**6.5** Cu Ft (185 Liters)

**AVAILABLE WITH**
• Pneumatic Controls
• Electric Controls
• One(1) Outlet

**10** Cu Ft (285 Liters)

**AVAILABLE WITH**
• Pneumatic Controls
• Electric Controls
• One(1) or Two(2) Outlets

## Short-Cycle™ Series
**Designed For Short Blast Cycles**

Pages 6-7

Remote Blow-Down Palm-Button
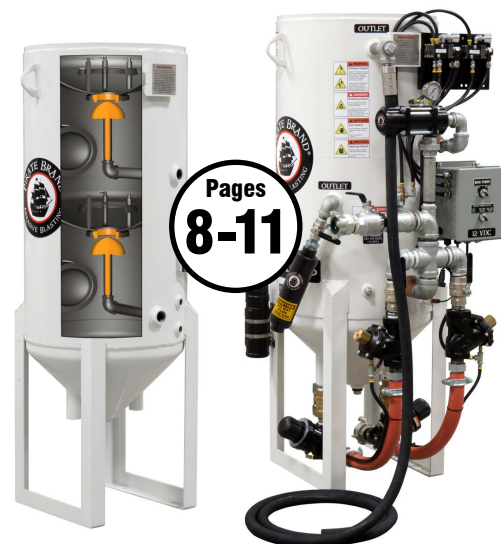
**6.5** Cu Ft (185 Liters)

**AVAILABLE WITH**
• Pneumatic Controls
• Electric Controls
• One(1) Outlet

**10** Cu Ft (285 Liters)

**AVAILABLE WITH**
• Pneumatic Controls
• Electric Controls
• One(1) or Two(2) Outlets

## Dual-Chamber Series
**Refills Continuously For Uninterrupted Blasting**

Pages 8-11

**8** Cu Ft (225 Liters)

**AVAILABLE WITH**
• Pneumatic Controls
• Electric Controls
• One(1) or Two(2) Outlets

*No Stopping To Add Abrasive!*

## Loaded With Standard Features That Matter

All Pirate Brand® S-Series stationary abrasive blasters come standard with the following features making them an exceptional value. Choose Pirate Brand® and you get more.

### SKIRTED POP-UP O-RING

We use a skirted Pop-Up O-Ring (internal) for more reliable sealing and reduced abrasive "burping" common to overhead hopper fed blasters.

### 150 PSI VESSEL

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

### 5 YEAR / 10 YEAR LIMITED WARRANTY

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

### POWDER COATED

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

### UNION-END BALL VALVE

Big-Bore™ Union-End Ball Valves are supplied at the metering valve connections and provide a simple means of shutting off the abrasive flow and removal of the metering valve for inspection or maintenance.

### ABRASIVE UMBRELLA

Prevents excessive weight on the pop-up ensuring a proper seal.

**OUTLET**

**DRAIN**

**SURVIVOR™**

### BLOW-DOWN HOSE

Durability and reliability matter, so we include Survivor™ blast hose standard as an extended life blow-down hose. 15' standard length to allow for blowing-down into blast room.

### 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.

### SEALED CONNECTORS & URETHANE CONTROL CORD

Sealed Waterproof Cord Connectors (appropriate for use with steel abrasives) and X-Treme Duty™ Urethane Control Cord are now standard on S-Series stationary blasters with electric controls.

### MANUAL STORAGE TUBE

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

### BIG-GUN™ SYSTEM

The Pirate Brand® BIG-GUN™ system makes use of upgraded components and a larger inside diameter pipe string to lower airflow restriction and increase performance so you can blast faster.

### ABRASIVE METERING VALVES

The right abrasive metering valve makes all the difference. The standard metering valves included with S-Series stationary blasters are the tried-and-true Pirate Brand® MPV and APVII™ which feature tungsten carbide components for extended life. Special application metering valve upgrades are available including Big-Bore™, Straight-Down™ & "Shot-Peener." See "Accessories and Upgrades."

**MPV (Manual Plunger Valve)**
Featured on Standard SPR Series single outlet blasters without abrasive cutoff controls.

**APVII™ (Automatic Plunger Valve)**
Standard on all other models. Includes multiple plunger seals for durability

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## Designed For High Performance

The Pirate Brand® Line of Standard SPR Stationary Abrasive Blasters are your ticket to highly efficient blast room blasting. Just like their portable counterparts, the stationary BIG GUN™ Blasters are designed to give you the best production possible by eliminating restriction in the blaster's air flow. Remember, for every 1 PSI of pressure lost or gained in abrasive blasting, there is a 1.5% loss or gain in productivity.

### BIG GUN™ FULL FLOW SYSTEM

They are equipped with 1-1/2" zero-pressure-drop piping and a full-port blast hose connection to make the most of your air source. The BIG GUN™ Full Flow System is also a must for blasting with large bore #7, #8, #10 & #12 nozzles. The bottom line is the more air you can move through your blaster, the more productive you will be.

### PNEUMATIC vs ELECTRIC CONTROLS

Our blasters are available with Pneumatic or 12VDC Electric controls. Electric controls are by far the most popular in blast room applications and result in faster starts/stops, are preferable for long blast hose runs, and are less prone to freezing in cold temperatures. Other voltages can be custom ordered.

### ABRASIVE CUT-OFF

Order your blaster with an abrasive cut-off feature and you will be able to turn off the abrasive feed and blow-off your project with air only.

### CUSTOM FEATURES

In addition to the variety of available models, there are plenty of ways to customize Pirate-Brand® abrasive blasters to make them perfect for your particular application. Don't settle for a "good enough" blast machine when you can have the perfect machine. See the "Upgrades & Accessories" section of this brochure.

6.5 Cu Ft - Pneumatic Controls

10 Cu Ft - 2-Outlet Electric Controls

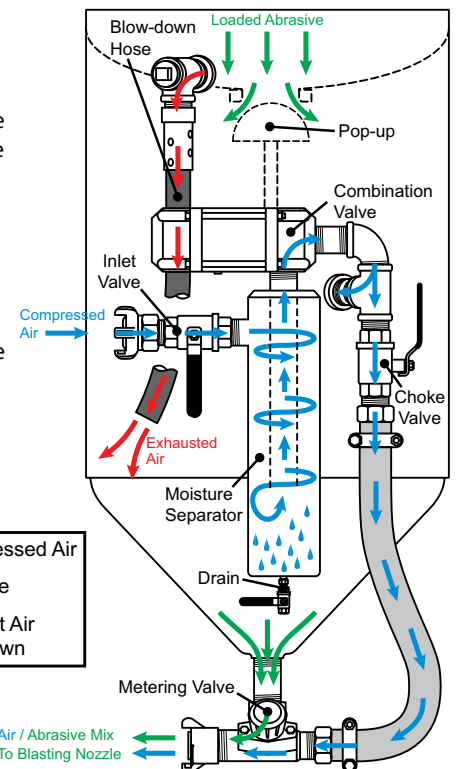## How SPR Systems Work (Pressure Release)

### 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 Valve is opened, compressed air flows through the Moisture Separator and reaches the Combination Valve where it is stopped. When the control handle is activated, the Combination Valve pinches the Blow-down Hose and air flows through the Combination Valve into the pressure vessel causing the Pop-up (located internally) to seal against its seat. The pressure vessel is now sealed and pressurized. Air will also continue past the Choke Valve to the Metering Valve where it is mixed with abrasive. The mixture of compressed air will now exit the Abrasive Blaster through a blast hose and nozzle connected to the coupling on the Metering Valve and blasting begins. It is important to note that in SPR abrasive blasters equipped with MPV Metering Valves, some abrasive will collect at the base of the valve causing the blast hose to pulsate and spray abrasive erratically for a short time when blasting is started. This is normal and will not hurt the Abrasive Blaster.

### DEPRESSURIZATION (BLOW-DOWN)

When the control handle is released in a pressure release (SPR) system, the Combination Valve automatically closes stopping the flow of compressed air and releasing the Blow-down Hose. The compressed air remaining in the pressure vessel is released through the Blow-down Hose and blasting ends.

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

Blow-down Hose
Loaded Abrasive
Pop-up
Combination Valve
Inlet Valve
Compressed Air
Choke Valve
Exhausted Air
Moisture Separator
Drain
Metering Valve
Air / Abrasive Mix To Blasting Nozzle

# AVAILABLE MODELS

## 6.5 Cu Ft – 1-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• MPV Metering Valve

Part Number  **888-0431-12914PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose w/Cut-Off Switch
• APVII™ Metering Valve

Part Number  **888-1431-33914PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• APVII™ Metering Valve
• 25' Remote Cut-Off Palm Button

Part Number  **888-3431-33914PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • Electric Control Handle
• 110' Control Cord
• MPV Metering Valve

Part Number  **888-0432-12914PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord w/Cut-Off Switch
• APVII™ Metering Valve

Part Number  **888-4432-33914PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord
• APVII™ Metering Valve
• 25' Remote Cut-Off Selector Switch

Part Number  **888-5432-33914PB-E**

## 10 Cu Ft – 1-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• MPV Metering Valve

Part Number  **888-0731-12914PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose w/Cut-Off Switch
• APVII™ Metering Valve

Part Number  **888-1731-33914PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• APVII™ Metering Valve
• 25' Remote Cut-Off Palm Button

Part Number  **888-3431-33914PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • Electric Control Handle
• 110' Control Cord
• MPV Metering Valve

Part Number  **888-0732-12914PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord w/Cut-Off Switch
• APVII™ Metering Valve

Part Number  **888-4732-33914PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord
• APVII™ Metering Valve
• 25' Remote Cut-Off Selector Switch

Part Number  **888-5732-33914PB-E**

## 10 Cu Ft – 2-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • (2) Pneumatic Control Handles
• (2) 110' Twinline Control Hoses
• (2) APVII™ Metering Valves

Part Number  **888-0741-33910PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • (2) Pneumatic Control Handles
• (2) 110' Twinline Control Hoses
• (2) APVII™ Metering Valves

Part Number  **888-1741-33910PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • (2) Pneumatic Control Handles
• (2) 110' Twinline Control Hoses
• (2) APVII™ Metering Valves
• (2) 25' Remote Cut-Off Palm Buttons

Part Number  **888-3741-33910PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • (2) Electric Control Handles
• (2) 110' Control Cords
• (2) APVII™ Metering Valves

Part Number  **888-0742-33910PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • (2) Electric Control Handles
• (2) 110' Control Cords
• (2) APVII™ Metering Valves

Part Number  **888-4742-33910PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • (2) Electric Control Handles
• (2) 110' Control Cords
• (2) APVII™ Metering Valves
• (2) 25' Remote Cut-Off Selector Switches

Part Number  **888-5742-33910PB-E**

## Short Blast Cycles Destroy Blast Equipment

Short-Cycle™ blasters are designed to withstand the punishing effects of quick on-off blasting while retaining the convenience of a pressure release system.  Standard SPR Blasters (p4-5) are great for blast rooms because when paired with an overhead abrasive hopper, they can be refilled by simply releasing the control handle and allowing the blaster to depressurize and automatically fill.  Unfortunately, when blasting frequently for less than 10 minutes at a time, abrasive can overfill the blaster, damage the pop-up causing it not to seal properly, cause abrasive to "burp" from around the popup, and leak pressure eventually ruining the metering valve.

Pirate Brand® Short-Cycle blasters remain pressurized when the control handle is released but feature a remote blow-down button to allow you to depressurize/refill your blaster without leaving the blast room.  All Short-Cycle™ blasters come standard with the BIG GUN™ Full Flow System providing a low restriction air path for better productivity.
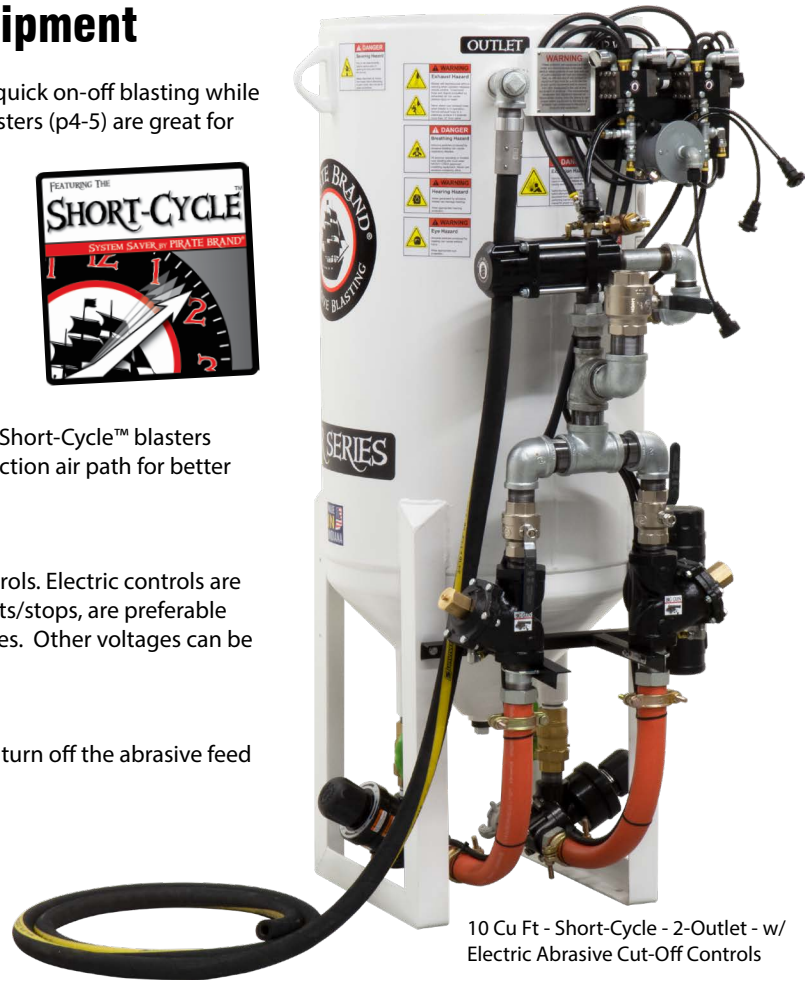
### PNEUMATIC vs ELECTRIC CONTROLS
Short-Cycle™ blasters are available with Pneumatic or 12VDC Electric controls. Electric controls are by far the most popular in blast room applications and result in faster starts/stops, are preferable for long blast hose runs, and are less prone to freezing in cold temperatures.  Other voltages can be custom ordered.

### ABRASIVE CUT-OFF
Order your blaster with an abrasive cut-off feature and you will be able to turn off the abrasive feed and blow-off your project with air only.

### CUSTOM FEATURES
In addition to the variety of available models, there are plenty of ways to customize Pirate-Brand® abrasive blasters to make them perfect for your particular application.  Don't settle for a"good enough" blast machine when you can have the perfect machine.  See the "Upgrades & Accessories" section of this brochure.

10 Cu Ft - Short-Cycle - 2-Outlet - w/ Electric Abrasive Cut-Off Controls

## How Short-Cycle™ Systems Work
### (Remote Blow-Down)

**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.

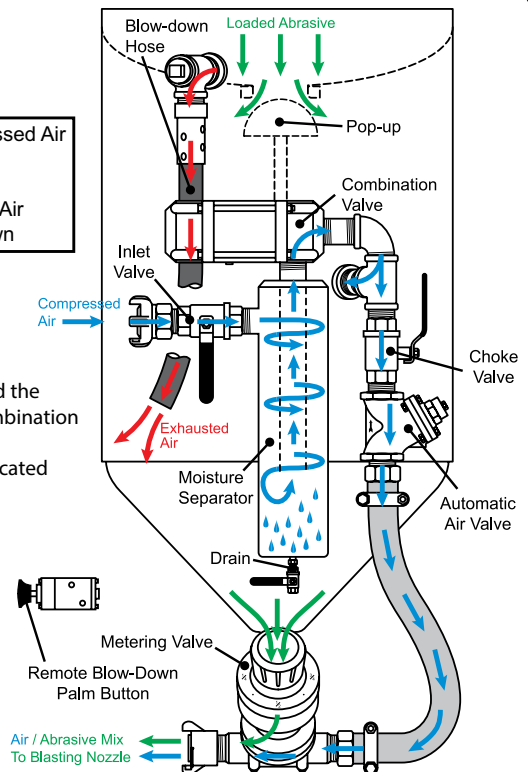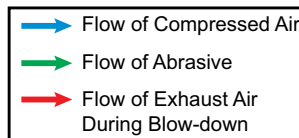**PRESSURIZATION / DEPRESSURIZATION (BLOW-DOWN)**
Short Cycle systems feature a Remote Blow-Down Palm Button which is used to pressurize/depressurize the Abrasive Blaster.

When a compressed air source (such as an air-compressor) is connected to the inlet of the Abrasive Blaster and the Inlet Valve is opened, compressed air flows through the Moisture Separator (if equipped) and reaches the Combination Valve where it is stopped. When the Blow-Down Palm Button is pulled out, the Combination Valve pinches the Blow-down Hose and air flows through the Combination Valve into the pressure vessel causing the Pop-up (located internally) to seal against its seat. The pressure vessel is now sealed, pressurized and ready to blast.

When the Blow-Down Palm Button is pressed, the Combination Valve automatically closes stopping the flow of compressed air and releasing the Blow-Down Hose. The compressed air remaining in the pressure vessel is released through the Blow-down Hose and the Abrasive Blaster is depressurized.

**BLASTING**
Blasting can only take place in Short Cycle systems when the Blow-Down Palm Button is in the pulled position. When the control handle is activated, the Automatic Air Valve and Metering Valve open allowing compressed air & abrasive to flow and mix. The mixture of compressed air and abrasive will now exit the Abrasive Blaster through a blast hose and nozzle connected to the coupling on the Metering Valve and blasting begins.

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

Blow-down Hose
Loaded Abrasive
Pop-up
Combination Valve
Inlet Valve
Compressed Air
Choke Valve
Exhausted Air
Moisture Separator
Automatic Air Valve
Drain
Metering Valve
Remote Blow-Down Palm Button
Air / Abrasive Mix To Blasting Nozzle

# Available Models

## 6.5 Cu Ft – 1-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• MPV Metering Valve

Part Number **888-0431-33954PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-1431-33954PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• APVII™ Metering Valve
• 25' Remote Cut-Off Palm Button

Part Number **888-3431-33954PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • Electric Control Handle
• 110' Control Cord
• MPV Metering Valve

Part Number **888-0432-33954PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-4432-33954PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord
• APVII™ Metering Valve
• 25' Remote Cut-Off Selector Switch

Part Number **888-5432-33954PB-E**

## 10 Cu Ft – 1-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• MPV Metering Valve

Part Number **888-0731-33954PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-1731-33954PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• APVII™ Metering Valve
• 25' Remote Cut-Off Palm Button

Part Number **888-3731-33954PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • Electric Control Handle
• 110' Control Cord
• MPV Metering Valve

Part Number **888-0732-33954PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-4732-33954PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord
• APVII™ Metering Valve
• 25' Remote Cut-Off Selector Switch

Part Number **888-5732-33954PB-E**

## 10 Cu Ft – 2-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • (2) Pneumatic Control Handles
• (2) 110' Twinline Control Hoses
• (2) APVII™ Metering Valves

Part Number **888-0741-33950PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • (2) Pneumatic Control Handles
• (2) 110' Twinline Control Hoses
• (2) APVII™ Metering Valves

Part Number **888-1741-33950PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • (2) Pneumatic Control Handles
• (2) 110' Twinline Control Hoses
• (2) APVII™ Metering Valves
• (2) 25' Remote Cut-Off Palm Buttons

Part Number **888-3741-33950PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • (2) Electric Control Handles
• (2) 110' Control Cords
• (2) APVII™ Metering Valves

Part Number **888-0742-33950PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • (2) Electric Control Handles
• (2) 110' Control Cords
• (2) APVII™ Metering Valves

Part Number **888-4742-33950PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • (2) Electric Control Handles
• (2) 110' Control Cords
• (2) APVII™ Metering Valves
• (2)25' Remote Cut-Off Selector Switches

Part Number **888-5742-33950PB-E**

# How would blasting at least
# 20% more
## every day affect your profitability?

With a dual-chamber abrasive blast pot from Pirate Brand® you never need to stop production to add abrasive. The blast pot continuously replenishes the lower chamber with abrasive while remaining pressurized.
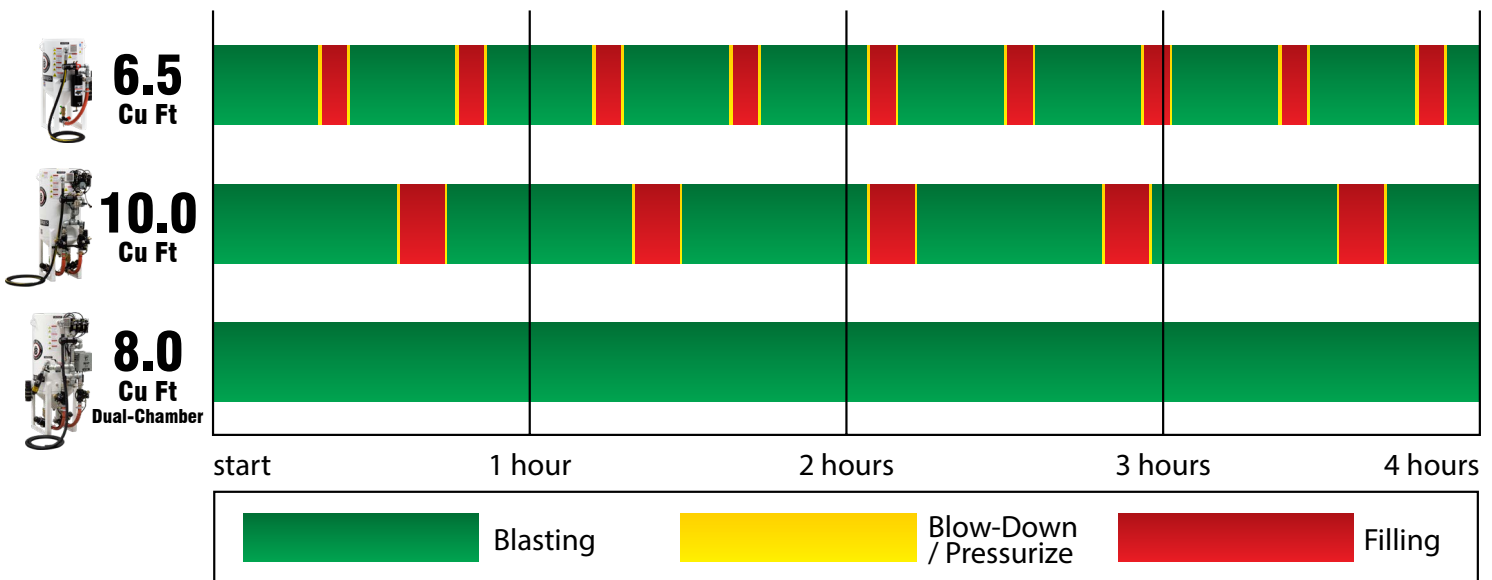
## Time Spent Filling vs. Blasting

**6.5** Cu Ft

**10.0** Cu Ft

**8.0** Cu Ft Dual-Chamber

| start | 1 hour | 2 hours | 3 hours | 4 hours |

Blasting     Blow-Down / Pressurize     Filling

Chart data and percentages above based on real-world observations when blasting with a single #8 or dual #6 nozzles. Data represents the "best case" scenario as the total **filling time may actually be longer** if the operator starts blasting before the vessel is full or is idle for a time after it is full. To put it another way, 20% is a very low estimate of how much time is wasted on filling in a real-world environment. Times may vary depending on type of abrasive, nozzle & PSI.

# How Dual-Chamber Systems Work

## ADDING ABRASIVE
Abrasive is added through the hole in the top of the Abrasive Blaster where the upper chamber Pop-up and its seat are located.  When abrasive is added, it flows down through the hole, around the Pop-up and into the upper chamber.  Abrasive will flow from the upper chamber into the lower chamber via the lower chamber Pop-up during the automatic cycle process or when the Abrasive Blaster is in its depressurized state.

## PRESSURIZATION
Before pressurization can take place in a pressure hold system, the Blow-down Valve must be closed. Then, when a compressed air source (such as an air-compressor) is connected to the inlet of the Abrasive Blaster and the Inlet Valve is opened, compressed air can flow into the pressure vessel causing the lower chamber Pop-up (located internally) to seal against its seat allowing the lower chamber to become pressurized. When the control handle is activated, the Auto Air Valve and Metering Valve open allowing compressed air & abrasive to flow and mix. The mixture of compressed air and abrasive will now exit the Abrasive Blaster through a blast hose and nozzle connected to the coupling on the Metering Valve and blasting begins.  While in use, the Combination Valve will cycle the upper chamber between pressurized and depressurized states, exhausting air through the blow-down hose.  This cycling is what allows a dual-chamber abrasive blaster to continuously refill itself from the upper chamber.

## DEPRESSURIZATION (BLOW-DOWN)
When the control handle is released in a pressure hold (SPH) system, the pressure vessel remains filled with compressed air. The compressed air remaining in the pressure vessel is released when the control box power is turned off, the inlet valve is manually closed and the blow-down valve is manually opened.

Flow of Compressed Air
Flow of Abrasive
Flow of Exhaust Air During Blow-down
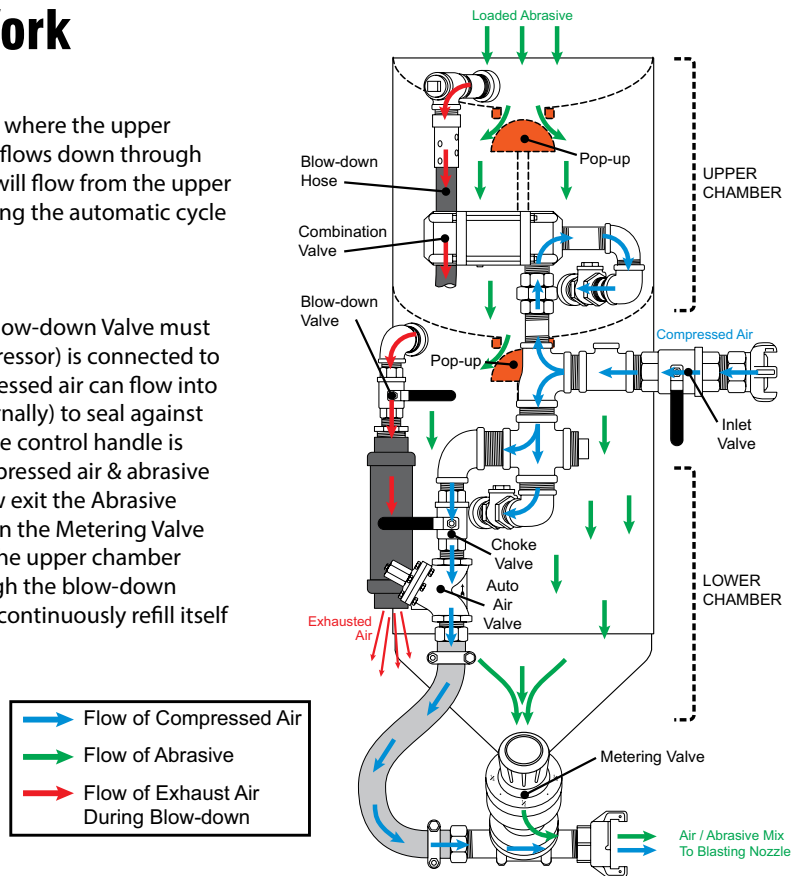
# Automated Refill Cycle

## OFF / STARTUP
When the abrasive blaster is off and in a fully depressurized state, both Pop-Ups are lowered and abrasive can flow freely into the upper and lower chambers, filling them completely.

## LOWER CHAMBER EMPTIES
When the abrasive blaster is pressurized, the lower chamber Pop-Up seals and the lower and upper chambers are isolated from each other.  When blasting begins, abrasive from the lower chamber is consumed and the level continues to drop until the Level Sensor is exposed.

## ABRASIVE TRANSFER
When the Level Sensor is exposed, it sends a signal that triggers the automatic controls to pressurize the upper chamber causing the upper chamber Pop-Up to seal.  Once the pressure in the upper chamber is the same as the pressure in the lower chamber, the lower chamber Pop-Up falls.  Abrasive can now flow from the upper chamber to the lower chamber while pressurized allowing blasting to continue uninterrupted. When the level sensor becomes covered again, it signals a timer in the automatic controls to begin a countdown.  The countdown is set to allow enough time for all of the abrasive in the upper chamber to flow into the lower chamber.  When the countdown reaches 0, the automatic controls depressurize the upper chamber causing the lower chamber Pop-Up to seal and the upper chamber Pop-Up to fall.

## REFILL UPPER CHAMBER
Once the upper chamber Pop-Up falls, abrasive will flow through the opening and into the upper chamber filling it.  While the upper chamber is filling, abrasive is being consumed from the lower chamber starting the cycle over again.

OFF / STARTUP → LOWER CHAMBER EMPTIES → ABRASIVE TRANSFER → REFILL UPPER CHAMBER
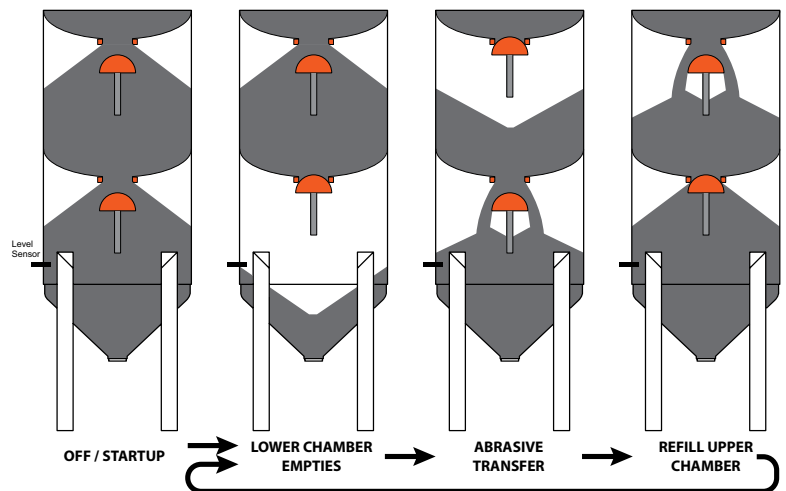
# Features & Benefits to Dual-Chamber Abrasive Blasters

In addition to the many standard features described on pg 3, Pirate Brand® Dual-Chamber abrasive blasters have several premium features that make them our top-of-the-line stationary blasters.  The Dual-Chamber design is also inherently able to handle short blast cycles giving them the same advantages as Short-Cycle™ blasters.

The refilling and chamber pressurization is fully automated and will continuously blast as long as the overhead hopper contains abrasive.  All Dual-Chamber blasters come standard with the BIG GUN™ Full Flow System providing a low restriction air path for better productivity.

### PNEUMATIC vs ELECTRIC CONTROLS
Dual-Chamber blasters are available with Pneumatic or 12VDC Electric controls. Electric controls are by far the most popular in blast room applications and result in faster starts/stops, are preferable for long blast hose runs, and are less prone to freezing in cold temperatures.  Other DC voltages can be custom ordered.
**NOTE**: Dual-chamber abrasive blast pots with pneumatic controls require 12VDC to power the cycle controls.

### ABRASIVE CUT-OFF
Order your blaster with an abrasive cut-off feature and you will be able to turn off the abrasive feed and blow-off your project with air only.

### CUSTOM FEATURES
In addition to the variety of available models, there are plenty of ways to customize Pirate-Brand® abrasive blasters to make them perfect for your particular application.  Don't settle for a"good enough" blast machine when you can have the perfect machine.  See the "Upgrades & Accessories" section of this brochure.

## Standard Features From p3 PLUS

## DUAL CHAMBERS
The top chamber cycles to refill the bottom chamber while maintaining pressure.  The result is uninterrupted blasting while the supply of abrasive is maintained

## PRESSURE GAUGE
A pressure gauge is included as standard equipment to aid in performance adjustments and troubleshooting.
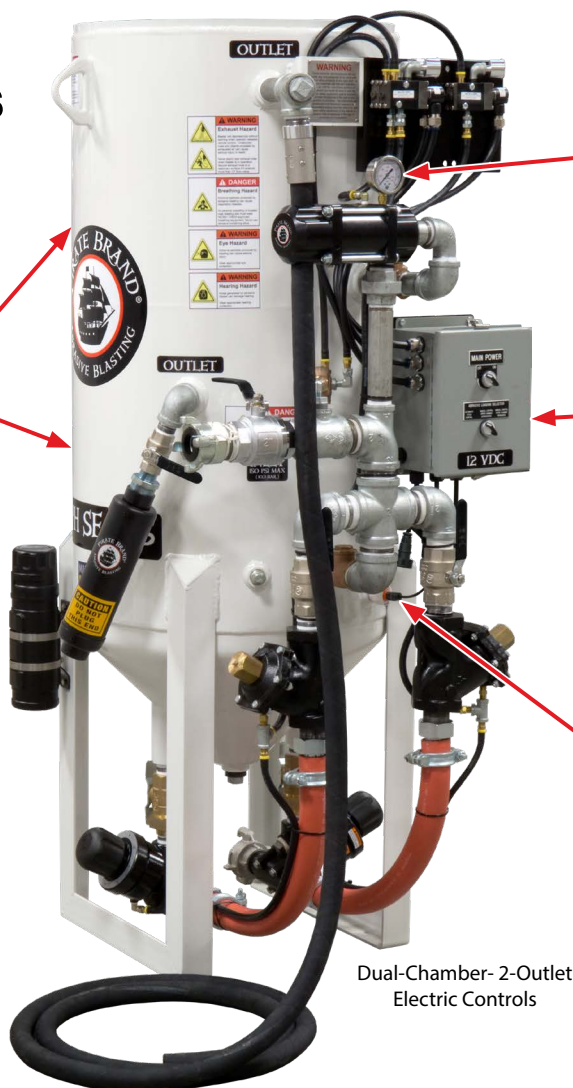
## CYCLE CONTROLS
The dual-chamber 12VDC cycle controls are clearly marked and housed inside a NEMA 4 enclosure for protection.  Now includes sealed waterproof cord connectors and X-Treme™ duty urethane control cord.

## ABRASIVE PROBE
Cycling of the dual-chamber blaster is activated only when the abrasive probe detects low abrasive in the lower chamber.  Therefore, the blaster only cycles when it needs to saving on wear-and-tear.

Dual-Chamber- 2-Outlet Electric Controls

# Available Models

## Dual-Chamber – 1-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• MPV Metering Valve

Part Number **888-0631-33944PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-1631-33944PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• APVII™ Metering Valve
• 25' Remote Cut-Off Palm Button

Part Number **888-3631-33944PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • Electric Control Handle
• 110' Control Cord
• MPV Metering Valve

Part Number **888-0632-33944PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-4632-33944PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord
• APVII™ Metering Valve
• 25' Remote Cut-Off Selector Switch

Part Number **888-5632-33944PB-E**

## Dual-Chamber – 2-Outlet

### Pneumatic Controls

**STANDARD PNEUMATIC CONTROLS**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• MPV Metering Valve

Part Number **888-0641-33940PB-E**

**W/ ABRASIVE CUT-OFF (Hose Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-1641-33940PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Pneumatic Control Handle
• 110' Twinline Control Hose
• APVII™ Metering Valve
• 25' Remote Cut-Off Palm Button

Part Number **888-3641-33940PB-E**

### Electric Controls

**STANDARD 12VDC ELECTRIC CONTROLS**
Includes: • Electric Control Handle
• 110' Control Cord
• MPV Metering Valve

Part Number **888-0642-33940PB-E**

**W/ ABRASIVE CUT-OFF (Cord Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord w/Cut-Off Switch
• APVII™ Metering Valve

Part Number **888-4642-33940PB-E**

**W/ ABRASIVE CUT-OFF (Wall Mounted)**
Includes: • Electric Control Handle
• 110' Control Cord
• APVII™ Metering Valve
• 25' Remote Cut-Off Selector Switch

Part Number **888-5642-33940PB-E**
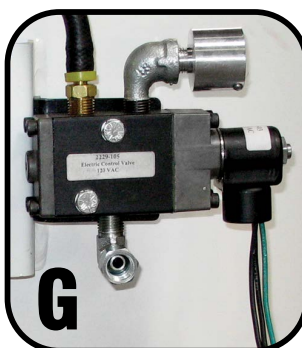
## RECOMMENDED UPGRADE

## Regulator Kits

⚠ **IMPORTANT INFORMATION ABOUT REGULATING YOUR AIR SUPPLY** ⚠

Adding a regulator kit to your abrasive blaster solves many of the problems that result from a fluctuating air supply. All Dual-Chamber abrasive blasters, regardless of the manufacturer, are sensitive to these fluctuations because both chambers must completely equalize during the refilling process

Since air compressors naturally fluctuate as they kick up and unload, an inconstant pressure is typical. Adding a pressure regulator and setting it below the minimum PSI that your compressed air source can maintain results in a consistent supplied pressure allowing your blast equipment to function properly and smoothly.

See the "Upgrades & Accessories" section of this brochure.

C

C

A

Dual-Chamber -
2-Outlet - Electric
Controls W/Abrasive
Cutoff

C

A

B

10 Cu Ft- 2-Outlet -
Pneumatic Controls

D

E

F

G

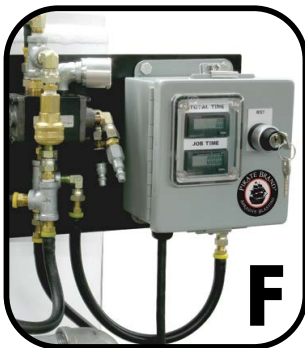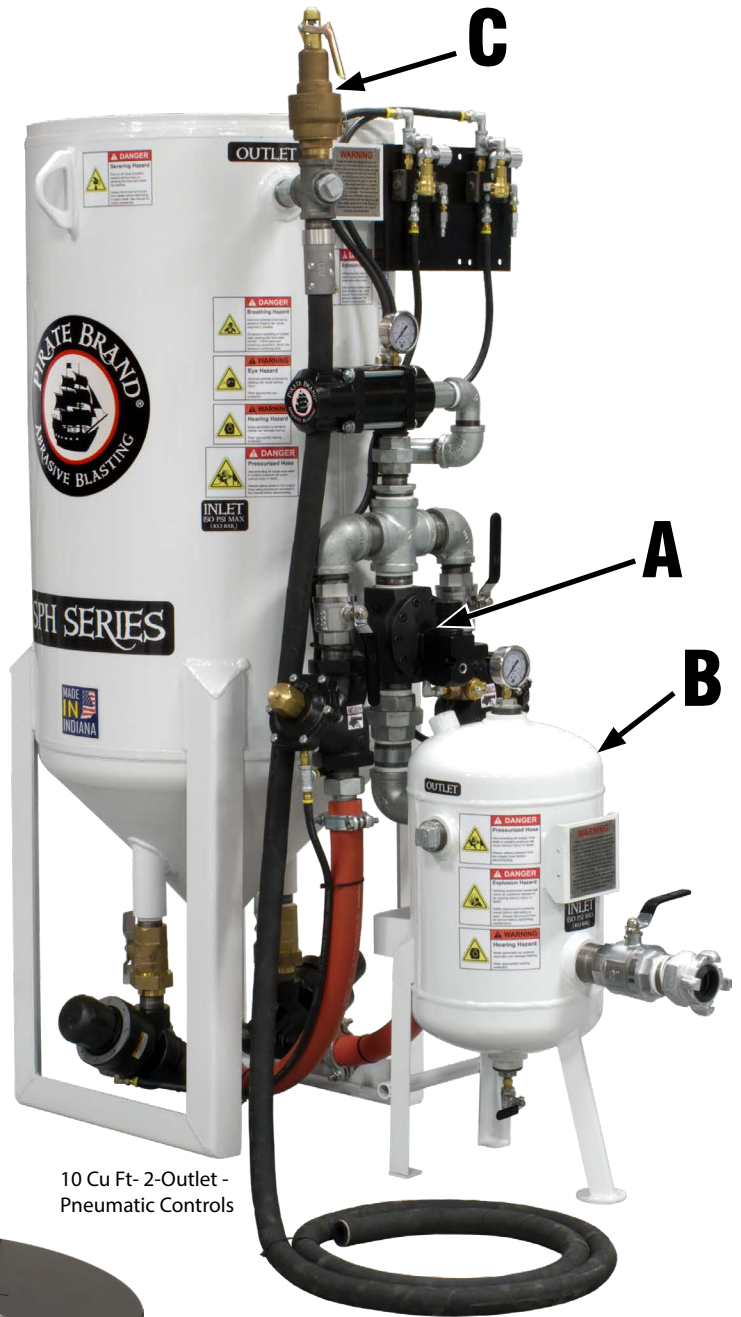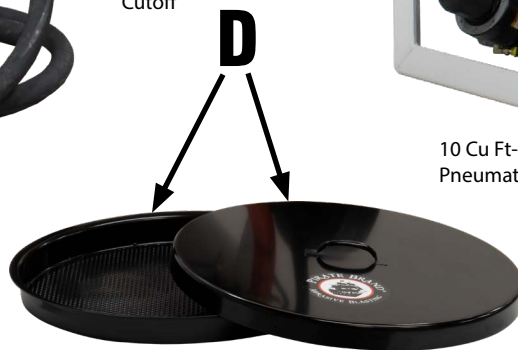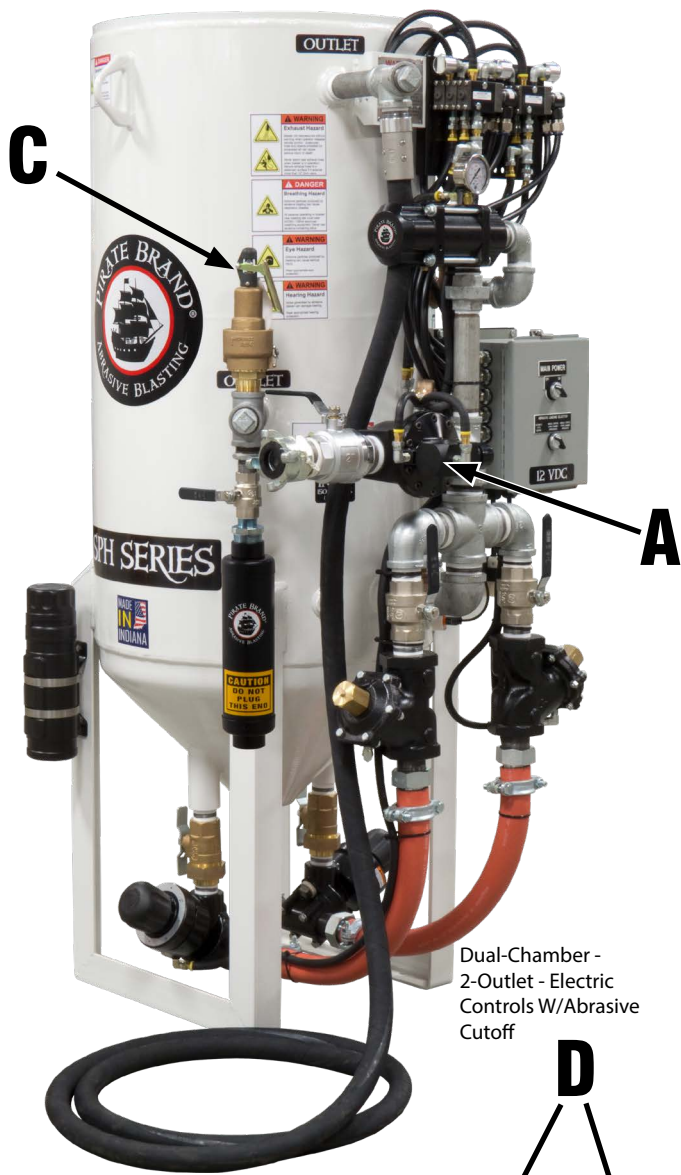H

I

# UPGRADES & ACCESSORIES

## A — Regulator Kits

### ! IMPORTANT INFORMATION ABOUT REGULATING YOUR AIR SUPPLY.

Adding a regulator kit to your abrasive blaster solves many of the problems that result from a fluctuating air supply. All dual-chamber abrasive blasters are sensitive to these fluctuation because both chambers must completely equalize during the refilling process.

Since air compressors naturally fluctuate as they "kick up" and "unload," an inconstant pressure is typical. Adding a pressure regulator and setting it below the minimum PSI that your compressed air source can maintain results in a consistent supplied PSI allowing your blast equipment to function properly and run smoothly.

| | |
|---|---|
| 888-2000-007PB-FI | 1-1/2" BIG GUN™ REGULATOR KIT |
| 888-2000-008PB-FI | 2" BIG GUN™ REGULATOR KIT |
| 888-2001-00199PB | REGULATOR, 1/4", REPAIR KIT |
| 888-2000-00399PB | REGULATOR, 1-1/2" & 2" BIG GUN™, REPAIR KIT |

## B — Moisture Separator

Moisture separators are your last line of defense against moisture reaching your blast equipment. Moisture leads to wet abrasive clogs and component break down.

| | |
|---|---|
| 888-1200-08007PB-FI | 800 CFM MOISTURE SEPARATOR **(FOR 10 CU FT 2-OUTLET BLASTERS)** |

## C — Relief Valve Kit

Adding this ASME relief valve kit to your blaster can prevent dangerous over-pressurization. Local codes may require a different valve.

| | |
|---|---|
| 888-2470-00702PB | 150 PSI RELIEF VALVE KIT FOR SMALL S-SERIES ABRASIVE BLASTERS |

## D — Lid & 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.

| | |
|---|---|
| 888-5010-060PB | 24" LID FOR 6.5 / 8 / 10 CU FT BLASTERS |
| 888-5011-060PB | 24" SCREEN, LOW PROFILE, (1/4" MESH) FOR 6.5 / 8 / 10 CU FT ABRASIVE BLASTERS |
| 888-5011-062PB | 24" SCREEN, **FINE MESH**, LOW PROFILE, 24" (3/32" MESH) FOR 6.5 / 8 / 10 CU FT BLASTERS |

## E — Loading Ladder

Use this 4 step loading ladder to provide access to the top of the blaster for convenient loading of abrasive.

| | |
|---|---|
| PB-LAD-MM-4-P | 4-STEP LOADING LADDER FOR TOP ACCESS TO 8, 10 & 20 CU FT BLASTERS |

## F — 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. Requires custom installation on Dual-Chamber blasters.

| | |
|---|---|
| PB-9805023P-01 | DUAL TIMER CONTROL BOX W/KEY RESET & MOUNTING BRACKET (**1-OUTLET BLASTERS**) |
| PB-9805023P-02 | DUAL TIMER CONTROL BOX W/KEY RESET & MOUNTING BRACKET (**2-OUTLET BLASTERS**) |

## G — Door Interlock Kit

Add a door interlock kit to connect your pneumatic 6.5 or 10 Cu Ft abrasive blaster to a door interlock system.

DUAL CHAMBER - Cutting power to the control box on dual-chamber abrasive blasters will not disable pneumatic controls. To connect a dual-chamber abrasive blaster with pneumatic controls to a door interlock system, an interlock kit is necessary. Electric Dual Chamber blast pots come factory equipped to connect to a 12VDC door interlock system.

| | |
|---|---|
| 999-8400-00021PB | 120VAC BLAST ROOM DOOR INTERLOCK KIT FOR USE WITH PNEUMATIC AND ELECTRIC BLAST POTS (FACTORY INSTALL) |
| 999-8400-10021PB | 12VDC BLAST ROOM DOOR INTERLOCK KIT FOR USE WITH PNEUMATIC BLAST POTS (FACTORY OR CUSTOMER INSTALL) |

## H — Power Supply

Add a power supply to run any 12VDC electric blaster on common 120VAC outlet power.

| | |
|---|---|
| PB-SMP3WP-S | POWER SUPPLY 120VAC INPUT / 12VDC @ 2.5 AMPS (**UP TO 4 CONTROL VALVES**) (**SEALED WATERPROOF CONNECTORS**) |
| PB-SMP7WP-S | POWER SUPPLY 120VAC INPUT / 12VDC @ 6 AMPS (**UP TO 8 CONTROL VALVES**) (**SEALED WATERPROOF CONNECTORS**) - **REQUIRED FOR DUAL-CHAMBER 2 OUTLET ELECTRIC CONTROLS WITH ABRASIVE CUT-OFF** |

## I — Fork Pockets

Adding fork pockets to your blaster will allow for easier mobility. (Factory installed only)

| | |
|---|---|
| PB-FP10CUFT | FORK POCKETS UPGRADE FOR 6.5, 8 & 10 CU FT S-SERIES BLASTERS |

## Specialty Metering Valves

An array of abrasive metering valves are available for specialty applications. Specify when ordering.

**BIG-BORE™** - Offers more than 2X the abrasive flow rate of a standard metering valve. A must when blasting with #8 and larger nozzles.

**STRAIGHT-DOWN** - Features a more direct abrasive path. Commonly used in shot peen-ing as a shot "on/off" valve. Available in APV, APVII™ & Big-Bore™ versions

**SHOT-PEENER** - Same as a Straight-Down valve but with a hard tungsten carbide seat for long life in shot peening applications. Available in APV 30#, APVII™ 30#, and Big-Bore™ 100# versions. (FOR USE WITH STEEL SHOT AND CONDITIONED CUT WIRE ONLY)

6.5 Cu Ft
Portable Blaster Shown

## Air Hose

| | |
|---|---|
| 10-034RED-050-1 | 3/4" AIR HOSE ASSEMBLY, 50' (RED) |
| 10-112RED-025-1 | 1-1/2" AIR HOSE ASSEMBLY, 25' (RED) |
| 10-112RED-050-1 | 1-1/2" AIR HOSE ASSEMBLY, 50' (RED) |
| 10-200YEL-050-1 | 2" AIR HOSE ASSEMBLY, 50' (YELLOW) |
| 27WT-1 | SAFETY CABLE, 1/2" - 1", **HOSE TO EQUIP.** |
| 27WC-1 | SAFETY CABLE, 1/2" - 1", **HOSE TO HOSE** |
| 27WT-2 | SAFETY CABLE, 1-1/2" - 3", **HOSE TO EQUIP.** |
| 27WC-2 | SAFETY CABLE, 1-1/2" - 3", **HOSE TO HOSE** |

## Blast Hose, Twinline & Control Cord

| | |
|---|---|
| 10-114BLK-050-3XAL | 1-1/4" **BIG GUN™** BLAST HOSE ASSEMBLY, 50', INCLUDES NOZZLE HOLDER |
| 10-112BLK-050-3XAL | 1-1/2" **BIG GUN™** BLAST HOSE ASSEMBLY, 50', INCLUDES NOZZLE HOLDER |
| 10-114BLK050-4XAL | 1-1/4" **BIG GUN™** EXTENSION BLAST HOSE ASSEMBLY, 50' |
| 10-112BLK050-4XAL | 1-1/2" **BIG GUN™** EXTENSION BLAST HOSE ASSEMBLY, 50' |
| 200-055 | HOSE, **TWINLINE** CONTROL, ASSEMBLY, YEL/YEL W/BLACK STRIPE, NOMINAL, 3/16" ID X 55' |
| 200-110 | HOSE, **TWINLINE** CONTROL, ASSEMBLY, YEL/YEL W/BLACK STRIPE, NOMINAL, 3/16" ID X 110' |
| 888-7074-05501PB | ELECTRICAL EXTENSION CONTROL CORD W/ **SEALED WATERPROOF CONNECTORS**, 55' |
| 888-7074-11001PB | ELECTRICAL EXTENSION CONTROL CORD W/ **SEALED WATERPROOF CONNECTORS**, 110' |
| 27WC-15 | SAFETY CABLE, 1" - 2-1/2", **HOSE TO HOSE** |
| 27WT-2 | SAFETY CABLE, 1-1/2" - 3", **HOSE TO EQUIP.** |
| 27WC-2 | SAFETY CABLE, 1-1/2" - 3", **HOSE TO HOSE** |

# BLASTING SET-UP

## Nozzles



| 1-1/4" ENTRY NOZZLES | |
|---|---|
| 1348-555 | #5 TUNGSTEN CARBIDE NOZZLE, BRASS THD |
| 1348-556 | #6 TUNGSTEN CARBIDE NOZZLE, BRASS THD |
| 1348-557 | #7 TUNGSTEN CARBIDE NOZZLE, BRASS THD |
| 1348-558 | #8 TUNGSTEN CARBIDE NOZZLE, BRASS THD |
| 1-1/4" BIG GUN™ NOZZLES - HIGH PRODUCTION | |
| 888-5001-305PB | #5 BIG GUN™ TUNGSTEN CARBIDE NOZZLE |
| 888-5001-306PB | #6 BIG GUN™ TUNGSTEN CARBIDE NOZZLE |
| 888-5001-307PB | #7 BIG GUN™ TUNGSTEN CARBIDE NOZZLE |
| 888-5001-308PB | #8 BIG GUN™ TUNGSTEN CARBIDE NOZZLE |
| 888-5001-310PB | #10 BIG GUN™ TUNGSTEN CARBIDE NOZZLE |

## Breathing Equipment



| NV3-702-50-PFC | RPB® NOVA 3® RESPIRATOR PACKAGE |
|---|---|
| 407000-PFC | RPB® NOVA 2000™ RESPIRATOR PACKAGE |
| 407800-PFC | RPB® ASTRO™ RESPIRATOR PACKAGE |
| 03-501 | RPB® C40 HOT/COLD CLIMATE CONTROL DEV. |
| 407001 | RPB® COOL TUBE W/BELT |
| 407024 | RPB® HOT TUBE W/BELT |
| 08-400-01 | RPB® GX4 CO / GAS MONITOR (120 VAC) |
| 08-401-01 | RPB® GX4 CO / GAS MONITOR (12 VDC) |



| GENVX-PKG-STD | BULLARD® GENVX® RESPIRATOR PACKAGE |
|---|---|
| 88VX-PKG-STD | BULLARD® 88VX RESPIRATOR PACKAGE |
| AC1000 | BULLARD® AC1000 COOL TUBE W/BELT |
| HC2400 | BULLARD® HC2400 HOT/COLD TUBE W/BELT |
| COHP | BULLARD® CAB CO MONITOR |
| RESPIRATOR PACKAGES INCLUDE RESPIRATOR HELMET, 50' BREATHING AIR SUPPLY HOSE, AND AIRLINE FILTER | |

## Air Dryers / After Coolers



| DLAD-250-360 | PORTABLE AIR DRYER, 250 CFM @ 100 PSIG, 360 CFM @ 150 PSIG |
|---|---|
| DLAD-450-575 | PORTABLE AIR DRYER, 450 CFM @ 100 PSIG, 575 CFM @ 150 PSIG |
| DLAD-750-1130 | PORTABLE AIR DRYER, 750 CFM @ 100 PSIG, 1130 CFM @ 150 PSIG |
| DLAD-900-1160 | PORTABLE AIR DRYER, 900 CFM @ 100 PSIG, 1160 CFM @ 150 PSIG |
| DLAD-1600-2300 | PORTABLE AIR DRYER, 1600 CFM @ 100 PSIG, 2300 CFM @ 150 PSIG |
| DLAC-250-360 | PORTABLE AFTER COOLER, 250 CFM @ 100 PSIG, 360 CFM @ 150 PSIG |
| DLAC-450-575 | PORTABLE AFTER COOLER, 450 CFM @ 100 PSIG, 575 CFM @ 150 PSIG |
| DLAC-750-1130 | PORTABLE AFTER COOLER, 750 CFM @ 100 PSIG, 1130 CFM @ 150 PSIG |
| DLAC-900-1160 | PORTABLE AFTER COOLER, 900 CFM @ 100 PSIG, 1160 CFM @ 150 PSIG |
| DLAC-1600-2300 | PORTABLE AFTER COOLER, 1600 CFM @ 100 PSIG, 2300 CFM @ 150 PSIG |

## 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 |

# 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**