PRODUCT OPERATING MANUAL

Manual No. ZVP-PC-0091-00

# AIRSTOP IV PNEUMATIC REMOTE CONTROL HANDLE - NPT

SECTION




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*An ISO 9001:2008 Quality Management System Certified Company*

## PRODUCT OPERATING MANUAL

### 1.0 GENERAL INFORMATION

**1.1** The PanBlast™ AirStop IV Pneumatic Remote Control Handle is a spool type plunger valve deadman Remote Control Handle utilized for the remote control activation and deactivation of abrasive Pressure Blast equipment when associated with the correct Remote Control Valve systems and Twinline Hose. If in doubt, contact your local Pan Abrasives office or distributor for verification of product compability.

**NOTE: UNDER OSHA 1915:34(c)(1)(iv) DEAD MAN CONTROL. A DEADMAN CONTROL DEVICE SHALL BE PROVIDED AT THE NOZZLE END OF THE BLAST HOSE EITHER TO PROVIDE DIRECT CUTOFF OR TO SIGNAL THE POT TENDER BY MEANS OF A VISUAL AND AUDIBLE SIGNAL TO CUT OFF THE FLOW, IN THE EVENT THE BLASTER LOSES CONTROL OF THE HOSE. THE POT TENDER SHALL BE AVAILABLE AT ALL TIMES TO RESPOND IMMEDIATELY TO THE SIGNAL.**

**1.2** The PanBlast™ AirStop IV Pneumatic Remote Control Handle can be used with the range of PanBlast™ Remote Control Valve systems such as UniFlo, Helix, Sola, Kombi, Kombi II as well as Tandem Valve Systems.

**1.3** All products as well as equipment designed and manufactured by Pan Abrasives are intended for use by experienced users of abrasive blasting equipment, and its associated operations with abrasive blasting media.

**1.4** It is the responsibility of the user to:-

**1.4.1** Determine if the equipment and abrasive media is suitable for the users intended process and application.

**1.4.2** Familiarize themselves with any appropriate laws, regulations, and safe working practices, which may apply within the users working environment.

**1.4.3** Provide appropriate operator training and a safe working environment, including operator protective equipment such as, but not limited to, blasting suits, safety footwear, and protective eyewear as well as hearing protection.

**1.5** Pan Abrasives Standard Terms and Conditions of Sales apply. Contact your local Pan Abrasives office or distributor should you require any further information or assistance.

### 2.0 PREPARATION FOR OPERATION

**2.1** Attach the PanBlast™ AirStop IV Pneumatic Remote Control Handle to the abrasive Blasting Hose behind the Nozzle Holder using either robust bands or strapping. Trim away any excess strapping after fixing, ensure the strapping does not catch or interfere with the operator during the abrasive blasting process.

**2.2** Connect the Twinline Hose fittings to the Remote Control Handle ensuring that the “live” air supply line is connected to the ¼” compression nipple on the PanBlast™ AirStop IV Pneumatic Remote Control Handle and the return signal line is connected to the 1/8” compression nipple, ensure that both fittings are firmly attached.

**⚠ ! WARNING! – INCORRECT CONNECTION OF THE TWINLINE HOSE FITTINGS TO THE REMOTE CONTROL HANDLE OR REMOTE CONTROL VALVE MAY CAUSE PREMATURE PRESSURIZATION OF THE SYSTEM RESULTING IN SERIOUS INJURY OR DEATH.**

**2.3** The Twinline Hose should be strapped to the abrasive blasting hose at one (1) meter intervals. Trim any excess strapping after attaching the Twinline Hose to ensure that the strapping does not catch or interfere with the operator during the abrasive blasting process.

**2.4** Connect the opposite two end fittings of the Twinline Hose via the Quick Disconnect fittings, supplied as standard on the Twinline Hose assembly to the matching Quick Disconnect fittings located on the Pressure Blast Machine Remote Control Valve

### 3.0 OPERATING INSTRUCTIONS

**⚠ ! WARNING! – READ THIS SECTION CAREFULLY BEFORE USING THIS EQUIPMENT/ APPARATUS.**

**3.1** The PanBlast™ AirStop IV Pneumatic Remote Control Handle is a spool type plunger valve deadman Remote Control Handle. When the Lever is in the “Up” or un-activated position, the air supply from the Pressure Blast Machine supply is closed off at the Remote Control Handle and the signal line to the Pressure Blast Machine Remote Control Valve system is open to exhaust at the Remote Control Handle. When the Lever is “Depressed” or in the activated position, the plunger directs air from the inlet port to the outlet port supplying a return signal to the Pressure Blast Machine Remote Control Valve system activating the Pressure Blast Machine and initializing the abrasive blasting process.

**3.2** Before pressurizing the Pressure Blast Machine check the functionality of the Remote Control Handle. The Lever should be in the upwards position with the “Safety Lock-Out” button in an outwards position on the side of the handle, isolating the Lever from accidental activation.

**3.3** Push in the "Safety Lock-Out" button followed by depressing the Lever and check for its functionality. Release your HOLD on the Lever and it should automatically reset the "Safety Lock-Out" button back to its original position.

**3.4** Connect the Pressure Blast Machine to an air supply that is adequate for the application, check the Blast Nozzle air requirement and the minimum air pressure and air volume required to operate the Remote Control Valve.

**3.5** Ensure that the "Safety" mini ball valve or Pet Cock on the Remote Control Valve has been closed.

**3.6** After following all start up procedures as detailed in the Pressure Blast Machine operator's manual, press the "Safety Lock-Out" button in on the PanBlast™ AirStop IV Pneumatic Remote Control Handle, hold this button in and depress the Lever. This action will initiate the abrasive blasting process. Blasting will begin within a few seconds.

**3.7** To deactivate the system, release the Lever, this will cause the "Safety Lock-Out" button to spring out preventing the Lever from being depressed, abrasive blasting will cease within 2-3 seconds.

**⚠ ! WARNING ! THE LEVER MUST NEVER BE WIRED OR BANDED/STRAPPED DOWN PERMANENTLY AS THIS MAY RESULT IN PREMATURE ACTIVATION OF THE SYSTEM AND IN TURN MAY CAUSE SERIOUS INJURY OR DEATH.**

## 4.0 MAINTENANCE

**4.1** Check the operation of the "Safety Lock-Out" button and Lever on a regular basis, clean as required.

**4.2** Ensure that the plunger sleeve O rings are in good condition and that the plunger plug is located correctly on the plunger.

**4.3** Replace any broken or faulty components immediately.

**4.4** Ensure that the PanBlast™ AirStop IV Pneumatic Remote Control Handle strapping is in good order, replace as required.

## 5.0 TROUBLESHOOTING GUIDE

| PROBLEM | PROBABLE SOLUTION |
|---|---|
| **The Lever is depressed but the Remote Control Valve does not activate.** | Ensure that the "Safety" mini ball valve or Pet Cock on the Remote Control Valve has been closed. |
| | Open the "Safety" mini ball valve or Pet Cock on the Pressure Blast Machine Remote Control Valve, depress the Lever handle, and check if there is air from the "Safety" mini ball valve or Pet Cock. If not, check for air supply to and from the PanBlast™ AirStop IV Pneumatic Remote Control Handle for air leaks or blockages. |
| | Check that the Lever is depressing the plunger adequately. |
| **The Lever does not pop up when released.** | Check that the Lever handle is free in its action and not catching on the "Safety Lock-Out" button. Ensure that the inside of the Lever handle is free of burrs and edges and that the "Safety Lock-Out" is also free of burrs on the outer edge. Replace if required. |
| | Check that the Lever hinge pin is not jammed due to intrusion of abrasive particles & dust. |
| **The "Safety Lock-Out" button does not spring back to the "Safety Lock-Out" position.** | Check that the "Safety Lock-Out" button has not seized in the Remote Control Handle body housing, or has not been damaged, it should always be free in its action. |
| **The system starts up as soon as air is turned on without the Lever handle depressed.** | Check that the Twinline Hose is properly connected, i.e.: the "live" supply line is connected to the correct inlet port and the signal line to the correct outlet port. |
| | Check that the plunger is free in its movement. |
| | Refer to the Pressure Blast Machine Remote Control Valve for correct and functional operation. |

## 6.0 ASSEMBLIES, PARTS LISTING & EXPLODED VIEW

### 6.1 AirStop IV Pneumatic Remote Control Handle NPT Assembly

| Stock Code | Description |
|---|---|
| BAC-RC-0549-00 | AirStop IV NPT Pneumatic Control Handle |

### 6.2 AirStop IV Pneumatic Remote Control Handle NPT Parts Listing

| Item | Stock Code | Description |
|---|---|---|
| 1 | YAC-FN-0391-00 | Hinge Pin |
| 2 | YAC-RC-0551-00 | Lever |
| 3 | YAC-FN-0388-00 | Screw |
| 4 | YAC-FN-0389-00 | Screw |
| 5 | YAC-RC-0552-00 | Body |
| 6 | YAC-PF-0353-00 | NPT To NPSM Nipple |
| 7 | YAC-PF-PB-0246 | NPT/NPSM Nipple |
| 8 | YAC-RC-0561-00 | Plunger Sub Assembly |
| 9 | YAC-RC-0556-00 | Button |
| 10 | YAC-RC-0557-00 | Spring |
| 11 | YAC-FN-0390-00 | Screw |
| 12 | YAC-RC-0553-00 | Plunger Plug |
| 13 | YAC-RC-0554-00 | Plunger Rubber |
| 14 | YAC-BS-PB-0013 | O-Ring |
| 15 | YAC-RC-0555-00 | Plunger Sleeve |

### 6.3 AirStop IV Pneumatic Remote Control Handle NPT Service Kit

| Stock Code | Description |
|---|---|
| BAC-RC-0550-00 | AirStop IV NPT Service Kit |

### 6.4 AirStop IV Pneumatic Remote Control Handle NPT Service Kit Parts Listing

| Item | Stock Code | Description |
|---|---|---|
| 3 | YAC-FN-0388-00 | Screw |
| 10 | YAC-RC-0557-00 | Spring |
| 11 | YAC-FN-0390-00 | Screw |
| 12 | YAC-RC-0553-00 | Plunger Plug |
| 13 | YAC-RC-0554-00 | Plunger Rubber |
| 14 | YAC-BS-PB-0013 | O-Ring |
| 15 | YAC-RC-0555-00 | Plunger Sleeve |

## 6.5 AirStop IV Pneumatic Remote Control Handle NPT Exploded View