PRODUCT OPERATING MANUAL

PANBLAST™

QUIKSTOP IIS PNEUMATIC CONTROL HANDLE

Manual Number: ZVP-PC-0207-00

SECTION

1.0 GENERAL INFORMATION

1.1 Panblast notice to purchasers and users

1.1.1 All products and equipment designed and manufactured by Panblast are intended for use by experienced users of abrasive blasting equipment and its associated operations and abrasive blasting media.

1.1.2 It is the responsibility of the user to:

- Determine if the equipment and abrasive media is suitable for the users' intended use and application.
- Familiarize themselves with any appropriate laws, regulations and safe work practices, which may apply within the users' working environment.
- Provide appropriate operator training and a safe working environment including operator protective equipment such as, but not limited to, blasting suit, safety footwear, protective eyewear and hearing protection.

1.1.3 Panblast Standard Terms and Conditions of Sale apply. Contact your local Panblast office or distributor should you require any further information or assistance.

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

1.2.1 Heavy metal paint, asbestos and other toxic material dusts will cause serious lung disease or death without the use of properly designed and approved supplied air respiratory equipment (SAR) by blast operators and all personnel within the work site area.

1.2.2 The compressor must have adequate output and the plumbing between the compressor and the point of attaching the air supply hose must have sufficient capacity to supply the volume of air at the pressure required.

1.3 Standard safety precautions

1.3.1 Approved safety eyewear, hearing and footwear protection should be worn at all times by the operator and all personnel in the immediate area that may be exposed to any hazards generated by the abrasive blasting process.

1.3.2 Suitably approved respiratory protection should also be worn when handling abrasive media, abrasive refuse dust and when carrying out any service/maintenance work where any dust may be present.

1.3.3 Any work performed on electrical wiring or components must only be carried out by suitably qualified and registered electrical trades' personnel.

1.3.4 Under no circumstances should any safety interlocks or features be altered or disabled in any way.

1.3.5 All equipment must be isolated from the compressed air supply and electrical power source prior to any service or maintenance work being carried out.

1.3.6 All care must be taken by the operator when lifting or moving equipment or components in order to prevent injury. Pressure blast pots must always be emptied of abrasive media before any attempt is made to move them.

1.3.7 Any modification of the equipment or use of non-genuine PanBlast™ replacement parts will void warranty.

1.3.8 Always check the Material Safety Data Sheet (MSDS) on the abrasive being used to ensure that it is free of harmful substances, in particular, free silica, cyanide, arsenic or lead.

1.3.9 Test the surface to be blasted for harmful substances, taking the appropriate measures and precautions to ensure the safety of the operator and others.

1.3.10 The operator should carry out a daily inspection before start up of all wearing and safety items to ensure that they are in correct operating order. In particular check all blast hose couplings and nozzle holders, ensuring that all couplings have engaged correctly and the safety locking pins are fitted and in good condition. Always install safety whip check cables at every connection. Ensure that the blast nozzle has been securely screwed into the nozzle holder and the nozzle holder has been secured to the blast hose correctly and that all screws are engaged.

2.0 INTRODUCTION

2.1 These instructions cover the installation, operation and maintenance of the PanBlast™ QuikStop IIS Pneumatic Control Handle.

2.2 The PanBlast™ QuikStop IIS Pneumatic Control Handle is an air "bleed off" style deadman handle used for the remote control of abrasive blast pots. When operated it supplies a pneumatic signal to the blast pot remote control system which then activates the blasting process.

2.3 It can be used with the PanBlast™ range of remote control valve systems such as the UniFlo, Helix, Sola, Kombi, Tandem and Safe-T-Pinch Valve System.

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.

⚠ ! WARNING! THE SYSTEM MUST BE IN SHUT DOWN MODE AND THE COMPRESSED AIR DISCONNECTED BEFORE PERFORMING ANY INSTALLATION WORK. FAILING TO DO SO MAY RESULT IN PREMATURE ACTIVATION OF THE SYSTEM THAT MAY CAUSE SERIOUS INJURY OR DEATH

3.0 PREPARATION FOR OPERATION

3.1 Attach the QuikStop IIS Remote Control Handle to the blast hose behind the nozzle holder using robust bands or strapping, trim any excess strapping after fixing the remote handle so that they don't catch or interfere with the operator during the abrasive blasting process.

3.2 Connect the twinline hose from the marked (IN) port of the QuikStop IIS Remote Control Handle to the live air source on the remote control valve. Proceed to connect the second twinline hose

from the remote control handle marked (OUT) port to the remote control valves air activation port. Then lay the twinline hose out alongside the blast hose for its full length.

⚠ ! 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.

3.3 The twinline hose should be strapped to the blast hose at one (1) meter intervals.

4.0 OPERATING INSTRUCTIONS

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

⚠ ! WARNING ! – NEVER EXCEED THE MAXIMUM OPERATING PRESSURE OF 150PSI (10.4BAR), AS THIS MAY RESULT IN SERIOUS INJURY OR DEATH.

4.1 The PanBlast™ QuikStop IIS Remote Control Handle is a “bleed off” style remote handle, when the remote handle ball & strap is removed the remote control handle is in the de-activated position and the air supply from the remote control supply is bled off to atmosphere via an orifice in the handle manifold. When the ball & strap is inserted into the ball holding channel the orifice is closed off via the safety lever lock and a return air signal is supplied to the blast pot remote control system activating the blast pot and initializing the abrasive blasting process.

4.2 Before pressurizing the system, check the operation of the handle and ensure it is free in its action. Is the safety lever lock operational? Does it snap back to the "open" position on removal of the activation ball from the ball channel?

4.3 Connect the blast pot to an air supply that is adequate for the application, check the blast nozzle air requirement and the minimum air pressure required to operate the remote control valve.

4.4 Ensure that the mini ball valve or pet cock on the remote control valve has been closed.

4.5 Check that the air is escaping from the bleed off orifice on the remote control handle manifold when the main air supply ball valve is opened.

4.6 After following all start up procedures as detailed in the blast pot manual, place the ball strap on your wrist and insert the activation ball in to the ball channel on the QuikStop IIS Handle, this will then depress the safety lever lock. The safety lever lock will close off the air bleed hole on the handle manifold and initiate the abrasive blasting process. Blasting will begin within a few seconds.

4.7 To stop blasting, release / remove your wrist away from the QuikStop IIS Handle which in turn will pull / release the activation ball from the ball channel, the safety lever lock will snap back to its original de-activated position and air will again bleed off from the handle manifold. Blasting will cease within 2-3 seconds.

⚠ ! WARNING ! – THE SAFETY LEVER LOCK MUST NEVER BE WIRED OR BANDED DOWN PERMANENTLY AS THIS MAY RESULT IN PREMATURE ACTIVATION OF THE SYSTEM WHICH MAY CAUSE SERIOUS INJURY OR DEATH.

5.0 MAINTENANCE

⚠ ! WARNING ! – THE SYSTEM MUST BE IN SHUT DOWN MODE AND THE COMPRESSED AIR DISCONNECTED BEFORE PERFORMING ANY MAINTENANCE WORK. FAILING TO DO SO MAY RESULT IN PREMATURE ACTIVATION OF THE SYSTEM THAT MAY CAUSE SERIOUS INJURY OR DEATH.

5.1 Check the operation of the safety lever lock on a regular basis and ensure it is always free in its movement.

5.2 Replace any broken or faulty components immediately.

5.3 Check the condition of the bumper button located on the safety lever lock, replace it if it no longer seals off the bleed hole.

5.4 Periodically check that the restricted hole in the inlet port of the remote handle is clear and has not reduced in size due to dust and moisture build up. If blockages are detected remove the access plug located on the manifold and clean with compressed air.

5.5 Ensure that the handle strapping is in good order, replace as required.

6.0 TROUBLE SHOOTING GUIDE

ITEM	PROBLEM	PROBABLE SOLUTION
1	**The activation ball is in place within the ball channel 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.
		Check that the air is escaping from the bleed off hole in the remote handle manifold with the activation ball removed. If not, check for air leaks in the twinline hose to the remote handle and check the inlet fitting to ensure that it is not blocked.
		Check that the bumper button is sealing on the manifold orifice, there should be no air leakage from the orifice when the activation ball is in place.
2	**The safety lever lock does not spring back to the de-activated position.**	Check that the safety lever lock has not seized in the remote control handle body housing, or has not been damaged. It should always be free in its action and not jammed due to abrasives dust.
3	**The system starts up as soon as air is turned on without the activation ball in the ball channel.**	Check that the twinline hose is connected correctly, 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 safety lever lock is free in its movement and ensure that the bleed hole is free and clear of any obstruction.
		Refer to the pressure blast machine remote control valve for correct and functional operation.

7.0 ASSEMBLIES, PARTS LISTING & EXPLODED VIEW

7.1 QuikStop IIS Pneumatic Control Handle Assembly

Stock Code	Description	Weight
BAC-RC-0236-04	QuikStop IIS Pneumatic Control Handle	0.3Kg (10.6lbs)

7.2 QuikStop IIS Pneumatic Control Handle Parts Listing

Item	Stock Code	Description	Qty
1	YAC-FN-PB-0268	Screw	3
2	YAC-RC-PB-0269	Base	1
3	YAC-RC-PB-0271	Pin	1
4	YAC-RC-PB-0065	Safety Lock Spring	1
5	YAC-FN-PB-0206	Screw	2
6	YAC-RC-0539-00	Mounting Bracket	1
7	YAC-FN-PB-0038	Flat Washer	1
8	YAC-FN-PB-0127	Screw	2
9	YAC-FN-PB-0121	Spring Washer	4
10	YAC-RC-PB-0267	Safety Lock Lever	1
11	YAC-RC-0615-00	Ball With Strap	1
12	YAC-RC-0540-00	Side Wall	1
13	YAC-PF-PB-0237	Hose Barb - NPT	2
14	YAC-PF-0321-00	NPT Plug	1
15	YAC-RC-0538-00	Mounting Block	1
16	YAC-RC-PB-0268	Bumper Button	1
17	YAC-RC-0610-00	Shim Washer	1

7.3 QuikStop IIS Pneumatic Control Handle Exploded View