



Air Saver Unit for Air Blowgun “Air Saver Module” HASV08R

9IM-E009-a

Issued : Jan.14.2016

Operating Manual

Thank you for your choice of Parker product. Please read this operating manual carefully and use the product correctly. Keep this operating manual in case questions arise about this product in the future. If this operating manual becomes unreadable or lost, consult our distributors or Parker sales offices.

For Safety Use

The following safety precautions are provided to prevent damage and injury to personnel and to provide instructions on the correct usage of this product. These precautions are classified into 3 categories: “CAUTION”, “WARNING”, and “DANGER” according to the severity of possible injury or damage and the likelihood of such injury or damage. Be sure to comply with all precautions. Also comply with safety regulations such as JIS B 8370(*1), Industrial Safety and Health Law, and High Pressure Gas Safety Law, and ISO 4414(*2).

 Danger:	Indicates an impending hazardous situation which may arise due to improper handling or operation and could result in serious personal injury or death.
 Warning:	Indicates a potentially hazardous situation which may arise due to improper handling or operation and could result in serious personal injury or death.
 Caution:	Indicates a potentially hazardous situation which may arise due to improper handling or operation and could result in personal injury or property-damage-only accidents.

*1 JIS B8370 : General Rules for Pneumatic Systems

*2 ISO 4414: Pneumatic fluid power recommendations for the application of equipment to transmission control system.



Warning

- **This product is designed for air blowgun.**
Do not use it for other purposes.
- **Use compressed air from an air compressor.**
Do not use air from a high pressure tank or any other gas.
- **Do not blow air from air blowgun towards personnel or animals.**
Direct air blow or substance blown by air blow can potentially cause injury for humans or animals.
- **Wear safety glasses and ear plugs.**
Regardless of the use of this product, wear safety glasses and earplugs when operating an air blowgun. Without proper protection, injury to eyes due to blown dust or noise induced deafness would be potentially caused.
- **Do not disassemble or modify this product.**
Disassembling or modification may cause safety accidents in addition to operation failure.



Caution

- **Attach a pipe fitting or joint properly.**
If a pipe fitting or joint are attached improperly, it may cause danger such as hose whip due to unplugged piping. Confirm the connection of hose, tube or coupler joint is tight as well as the connection to this product prior to use.

● Do not use for medical equipment or cooking equipment

This product contains a small amount of lubricant. If there is concern for contamination due to lubricant, do not use.

Specifications

Fluid	Compressed air	
Pressure Range	0.35 to 0.8MPa	
Maximum Flow	*1	1300L/min (@0.5MPa)
Ambient Temperature	*2	10 to 50°C
Pulse Adjustment Range	5 to 15Hz	
Port Size	IN	Rc1/4
	OUT	R1/4
Weight	155g	

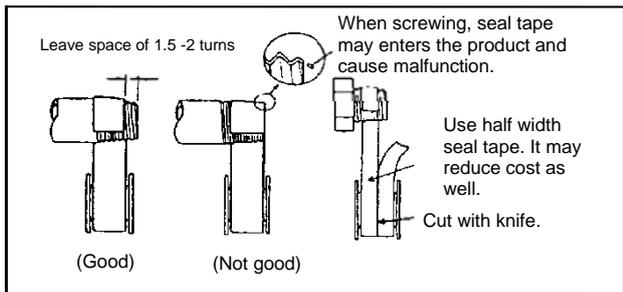
*1 “Maximum Flow” in this case is the flow capacity of this product, and actual flow consumption is depending on the attached air blowgun.

*2 If the temperature is under the specified temperature, pulse blow may be unstable. In this case, please use it as continuous blow temporarily for a while to reach specified temperature. This product works correctly within the specified ambient temperature.

Connection



1. Before Piping, thoroughly flush the inside of each pipe to remove chips, machining oil, and dust etc. If sealing tape is used for the thread, leave 1.5 to 2 thread turns unwrapped. Do not use liquid sealant. It has possibility to contaminate the product and may cause malfunction.

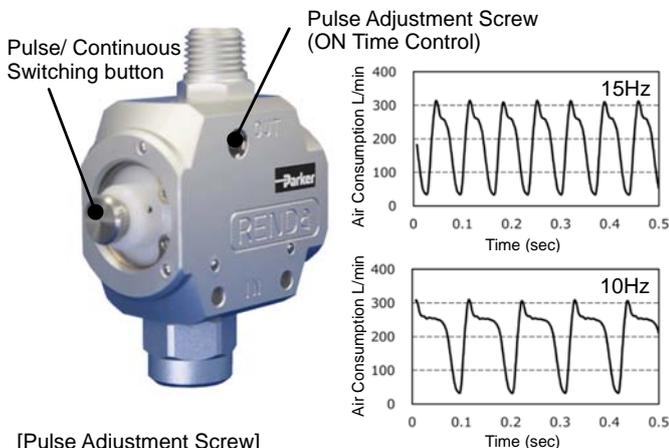


- When installing piping or a joint, prevent contamination of chips or sealing agent. Also tightening torque should be within the range indicated below.

Port Size	Tightening Torque (N·m)
R · Rc1/4	12 to 14

- An air filter (Nominal filtration rating of 5 micron or smaller) must be placed upstream of piping. There is no need for additional lubrication.
- Attach the piping towards the direction of air flow described on the body. If it is opposite direction, this product does not work.
- This product must be attached directly to an air blow gun. If connected with any part such as coupler, it has the possibility to decrease the capability due to pressure loss.
- This product is not water & drip proof. Do not install this product in a place with direct water contact (rain, etc). Also install this product in a place without dew condensation or direct sunlight.

Product Function



[Pulse Adjustment Screw]

This is a throttle valve for pulse ON time adjustment (Approx.5 to 15 Hz). When tightening this screw clockwise with flat-bladed screwdriver, the air ON time will be longer. When loosening the screw counter clockwise, the air ON time will be shorter. The air OFF time is fixed for approx. 30ms. Adjust the air ON time in accordance with using air blowgun or object. Control angle is approx. single rotation of the screw. When tightening at the end of clockwise, it will stop air output, however it is not malfunction.

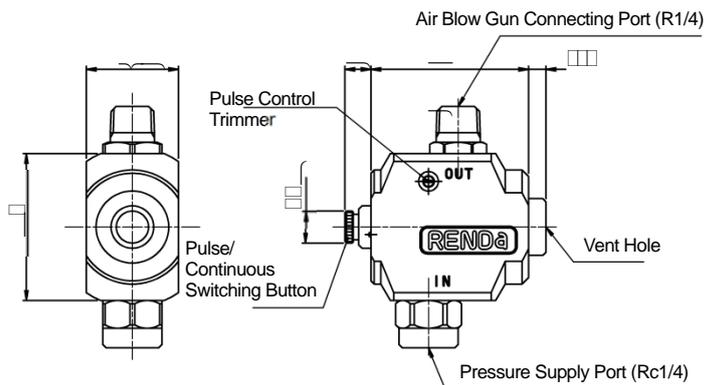
[Pulse/ Continuous Switching Button]

Press this button when requiring continuous blow. When pushing this button, air blows continuously. To keep continuous blow, press this button and turn the button 90 degrees. To release from this mode, press this button and turn counter clockwise for pulse blow mode.

[Note]

- Please contact our distributors or Parker for after-sales service.
- Please keep this operating manual.

Dimensions



Notes for Usage

- Discharge drain from upstream air filter periodically. If periodic drain discharge is difficult, Parker recommends setting up an air filter with automatic drain.
- Maintenance compressor periodically. If sludge, which is produced in compressor oil, enters pneumatic equipment, it will cause operation failure of pneumatic equipment. Coalescing filter removes oil and sludge which cannot be removed by air filter. Parker recommends setting up a coalescing filter.

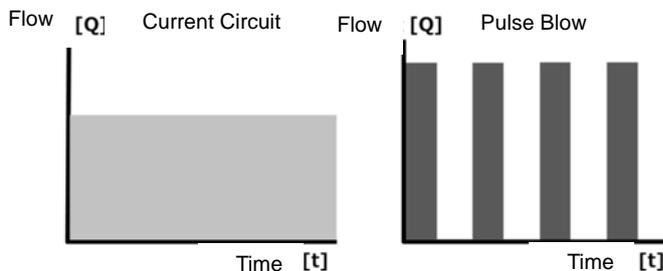
Effect of Pulse Blow

In many factories, air blow accounts for more than 50% of total compressed air consumption. Pulse blow can be a measure for saving energy by reducing the consumption of compressed air while maintaining the same capability of air blow operation.

- Hole machining, tap, chip removing of complex shape work
- Removing stuck dust or viscous liquid
- Blowing at narrow space
- Reducing load of compressor
- Energy saving activity

Pulse blow is especially effective for works listed above, however it is not for all applications. There is a possibility to reduce the removal effectiveness depending on the air blowgun. Parker recommends attaching to an air blowgun that has nozzle diameter bigger than I.D.2mm and low pressure loss.

Also, for the case of using reduced pressure for air supply, installing this product without regulator enables a low energy loss circuit, which provides improved blow effectiveness compared to the current circuit.



Kuroda Pneumatics Ltd

(Parker Hannifin Automation Division Japan)

10243 Kamakazu, Asahi city, Chiba 289-2505, Japan

E-mail: kpl_sales@parker.com

<http://www.parkerkuroda.com>