

Nozzle Identifying Features

Model	NPT/BSP Size	Copper Tube Dia.	Nozzle Sleeve	Hose Color
1200	1/8"	--	Aluminum	--
1200SS	1/8"	--	Stainless Steel	--
1220	3/4"	--	Aluminum	--
1201	--	1/4"	Brass	--
1202	--	1/4"	Nickel Plated	--
1203	--	3/8"	Brass	--
1205	--	3/8"	Nickel Plated	--
1201F-12	1/8"	--	Brass	Black
1204	1/8"	--	Brass	Red
1206	1/4"	--	Nickel Plated	Black



Energy Saving Nozzles

Including ***DURABLAST***

**Models 1200, 1200SS, 1200BSP, 1200SSBPS
& 9401 Blow Gun with 1200 Nozzle**

**and Models 1201, 1201F-12, 1202, 1203,
1204, 1205, 1206, 1220, 1201F-12BSP,
1204BSP & 1206BSP**

Operation & Safety Instructions

General Safety Considerations

Warning – Compressed Air Could Cause Death, Blindness or Injury

1. Do not operate these Nozzles at air pressures above 150 PSIG (10.3 Bar).
2. Do not operate flex hose models at line temperatures above 160°F.
3. Avoid direct compressed air.
4. Do not direct compressed air at any person.
5. When using compressed air, wear safety glasses with side shields.

NOTE: When using these Nozzles, there is no need to limit compressed air pressure to a maximum of 30 PSIG (2 bar). It is not possible to block the flow of compressed air from a Vortec nozzle to register 30 PSIG (2 bar) on a test gauge.



IMPORTANT

Please read all instructions **BEFORE** attempting to operate this product.

Introduction

A Vortec Energy-Saving Nozzle is an airflow amplifier that can reduce compressed air consumption by up to 50% while helping to meet OSHA 30 PSIG dead-end pressure and noise specifications. Nozzles are used as a direct replacement for copper tubes, pipe nipples, manifolds with drilled holes and other conventional blowoff methods that waste compressed air.

Compressed Air Supply

The compressed air supply must be filtered (5 micron maximum) to remove water and dirt. Failure to use a filter will cause clogging of the compressed air path inside the Nozzle. Change filter elements as needed. For assistance in selecting a compressed air line size, contact your local authorized distributor or ITW Air Management.

Installation and Operation

To conserve compressed air, match the size of the Nozzle airflow to the shape/size of the part. Nozzles can be installed to match the machine cycle. Output airflow volume and thrust can be changed by increasing or decreasing the compressed air supply pressure.

Models 1200, and 1200SS DuraBlast nozzles are attached to the compressed air source via the 1/8"-27 NPT threaded fitting. BSP versions of these nozzles have a 1/8"-28 BSP thread.

DuraBlast nozzles have a micrometer dial and are factory set at 0.008". To change the airflow, loosen the set screw (recessed into the tip of the Nozzle) with a 3/32" hex Allen key, and rotate the Nozzle tip (increase gap setting = increase airflow). Tighten the set screw to secure the setting. Output airflow volume can also be changed by increasing or decreasing the compressed air pressure.

The DuraBlast nozzle is easily disassembled for cleaning. If a reduction in airflow/thrust occurs from clogging, remove the set screw and nozzle tip and clean the air gap surface areas. After cleaning, reassemble the nozzle, adjust the gap, and tighten the set screw to secure the setting.

Models 1201, 1202, 1203 and 1205 are permanently formed on 1/4" or 3/8" diameter copper tubing. This tubing can be bent to the desired shape with the assistance of a tube bender. These models can be attached to the compressed air source with either a compression fitting or a copper solder joint fitting.

Models 1201F-12 and 1204 are attached to the compressed air source via the 1/8"-27 NPT threaded fitting. BSP versions of these nozzles have a 1/8"-28 BSP thread.

Model 1206 attaches to the compressed air source via the 1/4"-18 NPT threaded fitting. The 1206BSP has a 1/4"-19 BSP thread.

Model 1220 attaches to the compressed air source via the 3/4"-14 NPT threaded fitting.

Limited Warranty

Vortec compressed air products manufactured by ITW Air Management will be replaced or repaired if found to be defective due to manufacture within ten years from the date of invoice. DuraBlast nozzles are backed by a lifetime warranty and will be replaced at any time if found to be defective due to manufacture. Properly filtered air is essential to the performance and durability of Vortec nozzles. Signs of excessive wear from inadequately filtered compressed air may void this warranty. Refer to our website itwvortec.com for complete warranty details and limitations. ITW Air Management makes no specific warranty of merchantability or warrant of fitness for a particular purpose.

Thank you for choosing Vortec products.

For information contact your local authorized distributor or:

***ITW* Air Management**

**10125 Carver Road • Cincinnati, OH 45242
Ph: 513-891-7474 • Fx: 513-891-4092
800-441-7475 • itw-air.com • techsupport@vortec.com**

ITW Air Management offers other Vortec air amplification products, such as air knives, round air amplifiers, and air jets. For product information, please call us or visit our website.