






# When to Use a Particular Vortec Nozzle or Jet




When it comes to choosing the appropriate Air Jet or Nozzle for your application, the options can be a bit daunting to evaluate. In this white paper, we discuss the differences between each Vortec Air Jet and Air Nozzle and in which situations you would choose each.









## 901 series Transvector Jets

	Thrust: 6 oz	Use the 901A for general blow-off or cooling applications. It produces a slightly higher amplification ratio than the other 901 models so it creates greater total airflow for cooling.
	Thrust: 14 oz	Use the 901DA for blow-off applications that require a very focused output airstream or more output thrust than the 901A is required. The output thrust is more than 2X that of the 901A (but it also uses more compressed air).
	Thrust: 6 oz	Use the 901BA model for conveying applications. The 901BA has 3/4" (19mm) diameter collars at both the suction and the discharge ends so that a 3/4" hose or ducting can be attached to it. This makes the unit an "in-line" conveying device. The 901BA has an inside diameter of .40" (10mm) so it can be used to convey small parts, granules, pellets, smoke or fumes.
	Thrust: 14 oz	Use the 901HA where an "in-line" conveying version of the 901DA is desired. The 901HA has a 3/4" (19mm) suction collar and both 3/4" and 1/2" (13mm) diameter discharge collars. The 901HA produces more vacuum than the 901BA.
	Thrust: 2-17 oz	Use the 909A in applications that the 901DA would normally be used in, but where the output thrust needs to be varied frequently. The 909A's thrust and air consumption are easily varied by a simple turn of the outlet, unlike the other 901 models which require a shim change. The 909A can also be used as an experimental nozzle, when the required blow-off force is not known. It can also be easily disassembled for cleaning.

**Note:** The output thrust of the 901A, 901BA, 901DA and 901HA can be increased by changing or adding an internal shim to the unit. Increasing shim size results in increased air consumption and blow-off force. All of the 901 series Transvector Jets have a 1/8" female NPT compressed air connection.

## 1200 Series Blow-Off Nozzles:

	Thrust: 3-21 oz	Air Consumption: 8-26 scfm	Use the 1200 nozzle in applications where blow-off thrust or force needs to be changed frequently, or, where the compressed air supply is contaminated or not filtered-these nozzles can be disassembled so that the internal air passages can be cleaned if necessary. These nozzles have a 1/8" male NPT thread for easy attachment to compressed air supply pipe.
	Thrust: 3-21 oz	Air Consumption: 8-26 scfm	Use the 1200SS nozzle in applications where blow-off thrust or force needs to be changed frequently, or, where the compressed air supply is contaminated or not filtered-these nozzles can be disassembled so that the internal air passages can be cleaned if necessary. Use the stainless steel 1200SS nozzle in corrosive or high purity applications. These nozzles have a 1/8" male NPT thread for easy attachment to compressed air supply pipe.
	Thrust: 3-21 oz	Air Consumption: 8-26 scfm	Use the 9401 Blowgun in any hand held blow-gun application. The trigger lever operated model 9401 incorporates the 1200 nozzle and its benefits noted above.

	Thrust: 6 oz	Air Consumption: 9 scfm	Use the 1201F-12 nozzle in any blow-off application where the target blow-off site frequently changes location or position. These nozzles can be positioned and re-positioned easily and frequently. The 1201F-12 nozzle creates 6 oz of thrust. Attach to the compressed air source via a 1/8" male NPT fitting.
	Thrust: 9 oz	Air Consumption: 13 scfm	Use the 1204 nozzle in any blow-off application where the target blow-off site frequently changes location or position. These nozzles can be positioned and re-positioned easily and frequently. The 1204 nozzle creates 9 oz of thrust. Attach to the compressed air source via a 1/8" male NPT fitting.
	Thrust: 28 oz	Air Consumption: 31 scfm	Use the 1206 nozzle in any blow-off application where the target blow-off site frequently changes location or position. These nozzles can be positioned and re-positioned easily and frequently. The 1206 nozzle creates 28 oz of thrust. Attach to the compressed air source via a 1/4" male NPT fitting.
	Thrust: 6 oz	Air Consumption: 9 scfm	Use the 1201 nozzle in any blow-off application where the target area remains in a fixed location, or where the nozzle must reach into a tight space. The nozzles are mounted on 1/4" diameter semi-rigid copper tubing that can be bent with a tube bending tool one time only. They can be attached to the compressed air source via compression fitting, solder joint or push-to-connect fittings. These nozzles create thrusts of 6 oz at a 12" distance.
	Thrust: 20 oz	Air Consumption: 23 scfm	Use the 1202 nozzle in any blow-off application where the target area remains in a fixed location, or where the nozzle must reach into a tight space. The nozzles are mounted on 1/4" diameter semi-rigid copper tubing that can be bent with a tube bending tool one time only. They can be attached to the compressed air source via compression fitting, solder joint or push-to-connect fittings. These nozzles create thrusts of 20 oz at a 12" distance.
	Thrust: 9 oz	Air Consumption: 13 scfm	Use the 1203 nozzle in any blow-off application where the target area remains in a fixed location, or where the nozzle must reach into a tight space. The nozzles are mounted on 3/8" diameter semi-rigid copper tubing that can be bent with a tube bending tool one time only. They can be attached to the compressed air source via compression fitting, solder joint or push-to-connect fittings. These nozzles create thrusts of 9 oz at a 12" distance.
	Thrust: 28 oz	Air Consumption: 31 scfm	Use the 1205 nozzle in any blow-off application where the target area remains in a fixed location, or where the nozzle must reach into a tight space. The nozzles are mounted on 3/8" diameter semi-rigid copper tubing that can be bent with a tube bending tool one time only. They can be attached to the compressed air source via compression fitting, solder joint or push-to-connect fittings. These nozzles create thrusts of 28 oz at a 12" distance.
	Thrust: 72 oz	Air Consumption: 120 scfm	Use the 1220 "Mega Nozzle" for only very high thrust applications where the surface to be blown clean is several feet away from the nozzle. Examples include: blowing out expansion joints between slabs of concrete, blowing off roofing materials, construction applications, etc. Has a 3/4" male NPT connection.