



STREAMTEKTM PRODUCT CATALOG

CONTACT US



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At Streamtek Corp. we strive to provide our clients with superior customer service and the best quality in compressed air products. We find that building long-term customer relationships based on trust and high service standards will help us better address your needs and concerns.



Air Nozzles

The STREAMTEK Air Nozzle is used when a smaller area needs to be hit with amplified air.

Available in either 1/8" or 1/4" male NPT connection, they are ideal for moving objects and for most blow-off applications involving liquids. Air Jets on the other hand (above) are larger than nozzles and are used when a wider area needs to be hit with the amplified air.

Applications



Chip/Scrap Removal

The Large Advanced Air Nozzle (**Model - NZ00L**) at a 25:1 air amplification ratio easily provides the cleaning power for a standard factory air gun! In addition, it meets OSHA requirements for noise limits and dead-end pressure.



Boosting Vacuum System

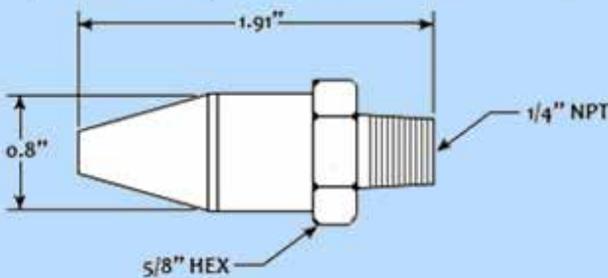
Negating the need for a more expensive and much larger system to remove the grinding dust, A 2-1/2" Adjustable Air Amplifier (Model – SAM212A) it added to boost the vacuum system by ~ 325 SCFM.

Air Nozzle Dimensions

Streamtek Air Nozzles are designed to fit into the smallest of spaces. Can't find a nozzle that suits your application? Contact an Application Engineer today to discuss custom nozzles.

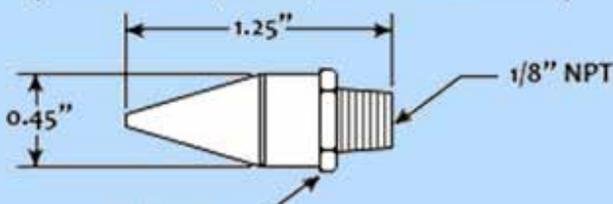
NOTE: BSP threads and/or female type nozzles can be manufactured upon special request.

(Models AN14-A, AN14-S, AN14-316 and AN14-B)



1/8" Air Nozzle

(Models AN18-A, AN18-S, AN18-316 and AN18-B)



Air Nozzle Description

Choose between 1/8" & 1/4" MNPT Air Nozzles! Available in Aluminum, Brass, 303 Stainless Steel and 316 Stainless Steel. Zinc & PEEK Plastic available upon special request.

Aluminum		
Model #	Description	Material
AN18-A	1/8" MNPT	Aluminum

303 Stainless		
Model #	Description	Material
AN18-SS	1/8" MNPT	303 Stainless

316 Stainless		
Model #	Description	Material
AN18-316	1/8" MNPT	316 Stainless

Brass		
Model #	Description	Material
AN18-B	1/8" MNPT	Brass

Streamtek Corp Sustainability Plan

Streamtek is using the internet as a venue to showcase its ongoing environmental commitment to inspire everyone around the world to be more environmentally-friendly.

Air Nozzle Specifications

Air Nozzles are the smallest amplifiers for precise point type applications. If a larger blowoff area is required, our Air Jets are the more efficient choice!

Inlet	Material	Air Consumption @ 80 PSIG (5.5 BAR)	Force	Sound Level
1/8" MNPT	Aluminum, Brass, 303 Stainless Steel and 316 Stainless Steel	11 SCFM (310 SLPM)	8 Ozs* (227 Grams)	76 dBA**
1/4" MNPT		11 SCFM (310 SLPM)	21 Ozs* (596 Grams)	77 dBA**

* Force in oz (grams) at 12" (305mm) from target @ 80 PSIG (5.5 BAR)

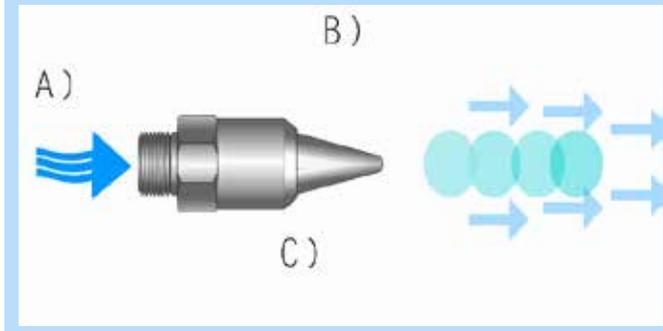
** Sound level at 3ft (0.90m) from target @ 80 PSIG (5.5 BAR)

How Air Nozzle Works?

(A) Compressed air enters the Air Nozzle via a standard MNPT inlet

(B) As the compressed air moves through the nozzle, the surrounding air is entrained over a precision engineered designed profile surface. This action is called the "coanda effect".

(C) The compressed air in combination with the entrained air results in a high volume, high velocity, laminar airflow stream of amplified air (25 times or more) with maximized force.



Did you know?

Air Nozzles Copper Tube 1/4" (6mm) open ended copper tube will output up to approximately 40 SCFM (Standard Cubic Feet per Minute) – 1133 SLPM! This is equivalent to the total output of an 8-12 horsepower air compressor. The static pressure requirements set by OSHA will be compromised when the supply pressure of an open pipe, tube and/or drilled holes surpasses 30 PSIG (2 BAR). In addition, the noise levels will often reach well above 95 dBA. Streamtek Air Nozzles & Air Jets address all of these issues!

1. Are STREAMTEK Air Nozzles OSHA safe?

Yes. Our Air Nozzles meet OSHA standard CFR 1910.242(b) for dead end pressure. In addition, noise levels are significantly reduced with our Air Nozzles.

2. What is the material of STREAMTEK Air Nozzles?

Our Air Nozzles are available in four materials (aluminum, brass, 303 stainless steel and 316 stainless steel). Zinc & PEEK Plastic Air Nozzles can be manufactured upon special request.

3. What are the temperature limits for your Air Nozzles?

Aluminum for temperatures up to 275°F (121°C)
 PEEK for temperatures up to 320°F (160°C)
 303 Stainless Steel for temperatures up to 400°F (204°C)
 316 Stainless Steel for temperatures up to 1000°F (538°C)

4. Will Streamtek Air Nozzles replace an open air line with identical effectiveness?

Both the dead end pressures and noise levels of an open air line pose a very serious safety issue! Our Air Nozzles will provide noise reduction up to 10 dBA as well as reduced air consumption when compared to open lines, tubes and jets. All this is done while maintaining OSHA-mandated dead end pressure levels.

Due to the significant reduction in compressed air consumption, Streamtek Air Nozzles may not always provide the 1:1 blow-off force as an open air line operating at same supply pressures. With that said, there are many applications that will not require the high force of an open air line. If you need a higher force, we can provide larger Air Nozzles that will produce the required force and still comply with OSHA standards.

Looking for Air Nozzle Accessories?

You can find Air Nozzles inside this catalog or our website stream-tek.com



Need Valves?

STREAMTEK carries a wide variety of Manual Valves, Check Valves and a Foot Pedal Valve.



High Velocity Air Jets

The Streamtek High Velocity Air Jet will provide you with absolute maximum thrust with a confined, directed stream of air. This high-velocity, high-force air jet is commonly used for chip removal, part ejection, and part drying.

Unlike some competitive Air Jets, the Streamtek High Velocity and High Flow Air Jets do NOT use cheap plastic shims to alter your air consumption, flow, force and vacuum. Instead our Air Jets are all made adjustable with a lock-ring to ensure the security of virtually any gap setting you require.

Specifications

Model #	Outlet Diameter (OD)	Inlet	Air Consumption @ 80 PSIG (5.5 BAR)	Force *	Sound Level**
HVAIRJT	3/4" (19 mm)	1/8" NPTF	21 SCFM (594 SLPM)	20 Oz (567 Grams)	82 dBA

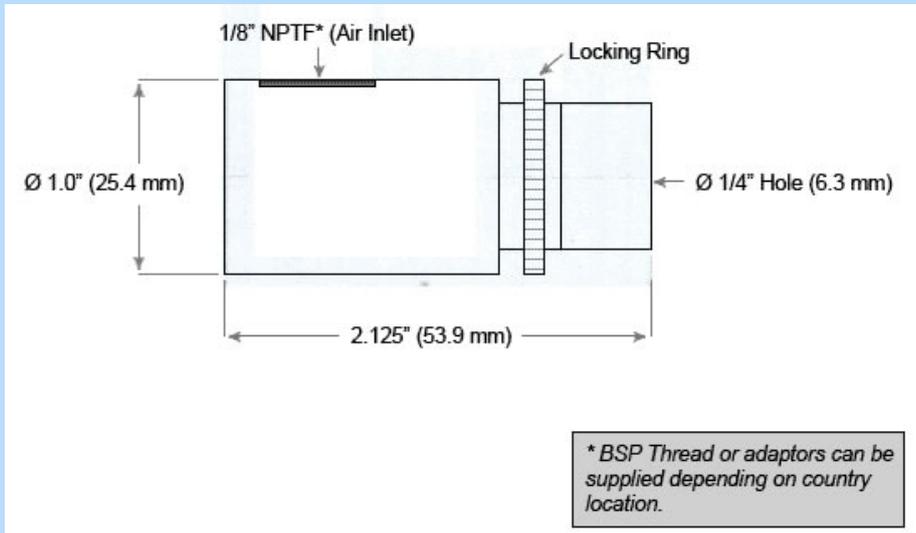
* Force is measured at 12" (305mm) from target with a .015" (.38mm) pre-set factory gap.
 ** Sound level (dBA) measured at 36" (914mm) from outlet.

Advantages

The Streamtek High Velocity Air Jet is significantly more efficient than your standard nozzle, although often consuming as much compressed air.

- Compact in size
- ~10dBA average noise reduction
- Lower compressed air cost
- Ideal for part ejection
- Meets OSHA noise level and pressure requirements

High Velocity Air Jet Dimensions



* BSP Thread or adaptors can be supplied depending on country location.

How do High Velocity Air Jets Work?

A small amount of compressed air enters an annular chamber and is throttled through an adjustable internal ring nozzle above sonic velocity. This is called the 'coanda effect'. A vacuum is produced, entraining large volumes of surrounding air, thus converting the pressure to a high flow high velocity output. An adjustable lock-ring can be used to increase/decrease flow. Both the inlet and outlet can be ducted for remote location positioning. If an end is blocked, flow will reverse at well below OSHA requirements.

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Stainless Steel Advanced Air Knife: Deluxe Kit



Unit, Filter Separator and Pressure Regulator /w Gauge.

Can I use the High Velocity Air jet with a Stay Set Hose?

Yes. All our Air Jets are constructed of lightweight aluminum which will work seamlessly with virtually any stay set hose found today. At this time, Streamtek does not offer its own Stay Set Hose.

High Velocity Air Jet Description

Model #	Description	Material
HVAIRJT	3/4" (19 mm) OD outlet /w 1/8" NPTF inlet	Anodized Aluminum

Aur Curtain is a device that produces high velocity air stream(s) that help execute various operations. It is primarily used in cooling, drying, blow-off, or light conveying applications.



High Flow Air Jets

The Streamtek High Flow Air Jet system is typically used in cooling and light blow-off applications. If an extreme high force is required, we'd recommend our High Velocity Air Jet. Unlike some competitive Air Jets, both STREAMTEK High Flow and High Velocity Air Jets do NOT use cheap

plastic shims to alter your air consumption, flow, force and vacuum. Instead our Air Jets are all made adjustable with a lock-ring to ensure the security of virtually any gap setting you require.

Specifications

Advantages

Model #	Outlet Diameter (OD)	Inlet	Air Consumption @ 80 PSIG (5.5 BAR)	Force *	Sound Level**
HFAIRJT	3/4" (19 mm)	1/8" NPTF	17 SCFM (481 SLPm)	16 Oz (453 Grams)	81 dBA

* Force is measured at 12" (305mm) from target with a .006" (.15mm) pre-set factory gap.
 ** Sound level (dBA) measured at 36" (914mm) from outlet.

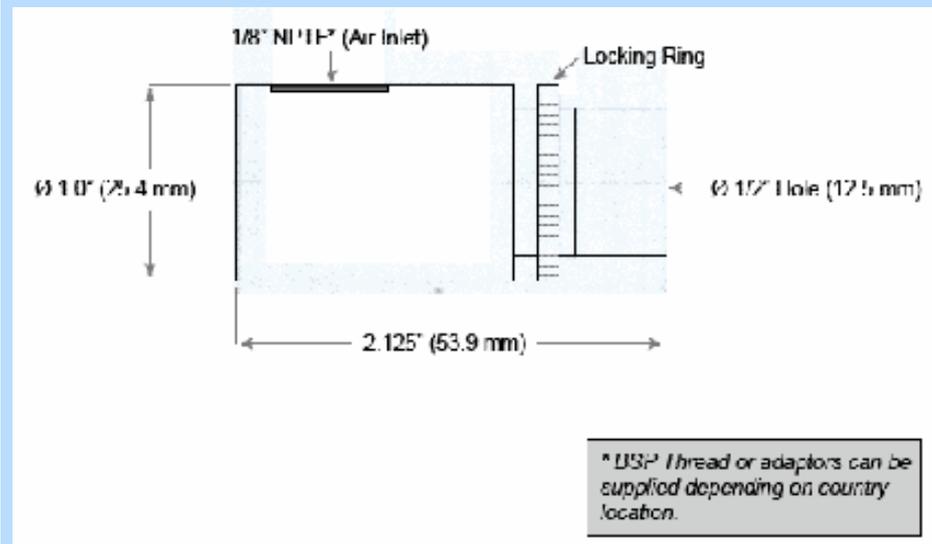
The Streamtek High Flow Air Jet is significantly more efficient than your standard nozzle, although often consuming as much compressed air.

- Compact in size
- ~10dBA average noise reduction
- Lower compressed air cost
- Ideal for part ejection
- Meets OSHA noise level and pressure requirements

How do High Flow Air Jets Work?

A small amount of compressed air enters an annular chamber and is throttled through an adjustable internal ring nozzle above sonic velocity. This is called the 'coanda effect'. A vacuum is produced, entraining large volumes of surrounding air, thus converting the pressure to a high flow high velocity output. An adjustable lock-ring can be used to increase/decrease flow. Both the inlet and outlet can be ducted for remote location positioning. If an end is blocked, flow will reverse at well below OSHA requirements.

High Flow Air Jet Dimensions



High Flow Air Jet Description

Model #	Description	Material
HFAIRJT	3/4" (19 mm) OD outlet /w 1/8" NPTF inlet	Anodized Aluminum

Can I adjust the Airflow and Thrust?

Yes. Both Airflow and Thrust are made adjustable with a lock-ring to assure the security of any gap setting you may desire. Gone are the days of flimsy plastic shims that often get lost and/or damaged.

Want to know advantages of our Air Conveyors?

You can find informations on [page 15](#)

We have over 15 years of experience in compressed air-operated products. All our products are manufactured in-house. We pride ourselves on keeping costs low and eliminating the middle man.

