

Energy Saving Nozzles and Jets

Ugelli e Getti a Basso Consumo di Energia



Patented Air Amplifying Design Reduces Compressed Air Consumption

ITW Vortec's patented blowoff nozzles and jets are all designed to substantially reduce compressed air consumption, compared to open jets. Using an air amplification principle, the design allows air to accelerate, entraining free surrounding air as it exits. The result is a powerful and precise airflow that consumes less compressed air and saves energy costs.

Applications

All air nozzles and jets are not the same. ITW Vortec's Nozzles and Jets amplify airflow volume up to 25 times more than the compressed air supplied. The result is less compressed air usage to deliver the same or greater thrust performance. Perfect for all types of blowoff, cooling and drying applications, these Nozzles and Jets are available in a variety of low and high thrust models. Use them to meet OSHA compliance as they meet OSHA specifications for noise and dead-end pressure. Additionally, Vortec Nozzles and Jets deliver a very precise airflow making them ideal for parts movement and ejection.

Features and Benefits

- Drastically reduces compressed air consumption
- Provides a precise airflow
- Range of styles and thrust performance
- Quickly mount on machines, manifolds and blowguns
- Nozzles mounted on flexible hose or copper tube
- Adjustable and stainless steel models
- Meet OSHA noise and dead-end pressure spaces

Uses

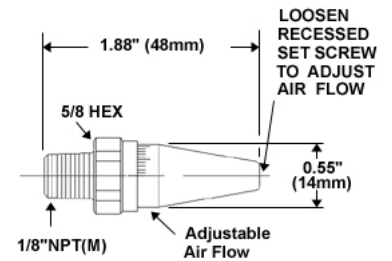
- Blowoff of chips, powders, dust, trim scrap
- Cooling or drying parts and assemblies
- Cleaning debris or stripping water and solvents
- Parts ejection and movement
- Replacing open copper tube jets
- Replacing headers with drilled holes
- Energy conservation programs
- OSHA compliance



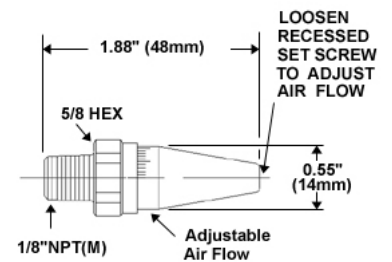
Energy Saver Air Amplification Nozzles

Save energy dollars and help reduce air-related noise levels when 25X Air Amplifier Nozzles are used to replace open copper tubes, pipe nipples and drilled headers.

1200: Nozzle with Adjustable Micrometer Dial



1200SS: Nozzle Stainless Steel with Adjustable Micrometer Dial

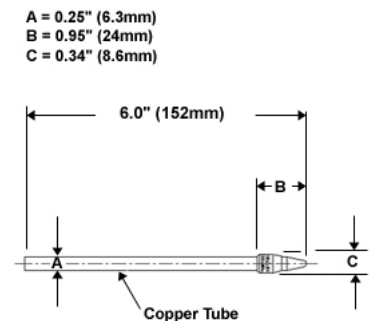
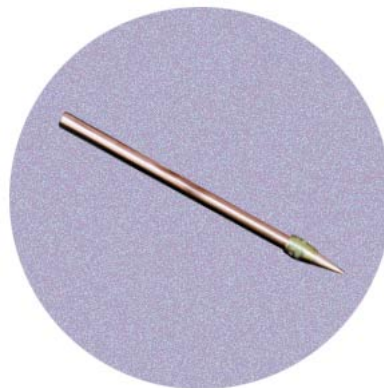


1201: Nozzle Mounted on 1/4" Copper Hose

Test pressure: 100 psig (6.9 bars)

Airflow: 9 scfm (255 l/min)

Copper tube: 1/4" (6.4 mm.)



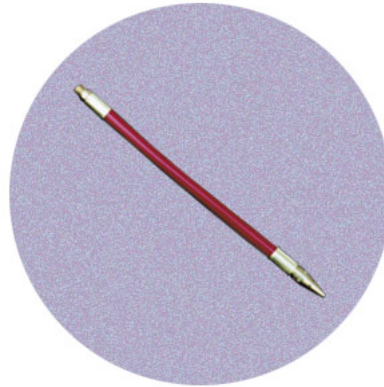
1201F-12: Nozzle Mounted on 3/8" "Stay Put" Flexible Hose

Test pressure: 100 psig (6.9 bars)

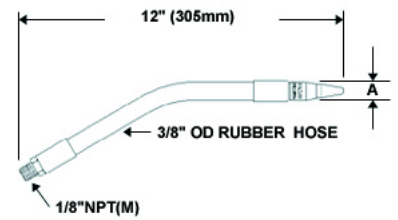
Airflow: 9 scfm (255 l/min)

NPT(M): 1/8" (3.2 mm.)

"stay put" rubber hose: 3/8" (9.5 mm.)



A = 0.34" (9mm)

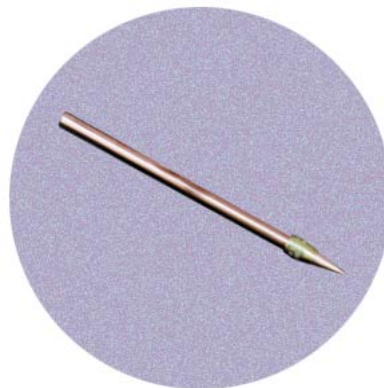


1203: Nozzle Mounted on 3/8" Copper Hose

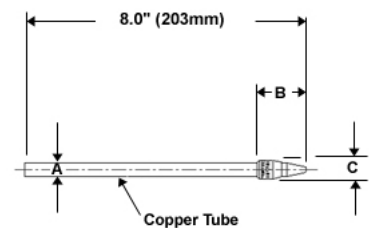
Test pressure: 100 psig (6.9 bars)

Airflow: 13 scfm (370 l/min)

Copper tube: 3/8" (9.5 mm.)



A = 0.38" (9.5mm)
B = 1.43" (36mm)
C = 0.50" (13mm)



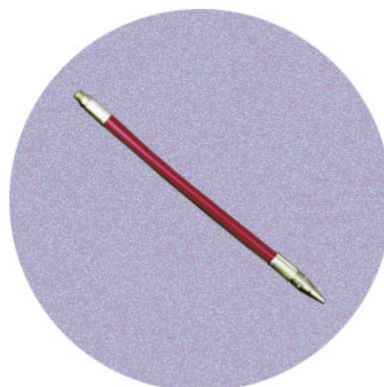
1204: Nozzle Mounted on 1/2" "Stay Put" Flexible Hose

Test pressure: 100 psig (6.9 bars)

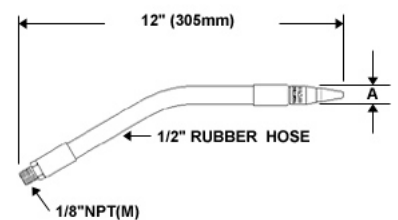
Airflow: 13 scfm (370 l/min)

NPT(M): 1/8" (3.2 mm.)

"stay put" rubber hose: 1/2" (12.7 mm.)



A = 0.60" (15mm)



9401: Blow Gun (nozzle tip)

Inlet NPT(F): 1/4 " (6.4 mm.)



9400: Blow Gun (unrestricted)

Inlet NPT(F): 1/4 " (6.4 mm.)

Outlet NPT(F): 1/8 " (3.2 mm.)

Energy Saver High Thrust Air Amplification Nozzles

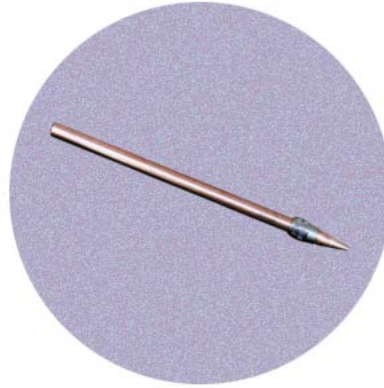
Save energy dollars and help reduce air-related noise levels when powerful 25X Amplifier Nozzles are used for parts ejection / rejection from conveyor lines, single or multiple cavity molds or other time-sensitive indexing-type operations.

1202: Nozzle Mounted on 1/4" Copper Hose

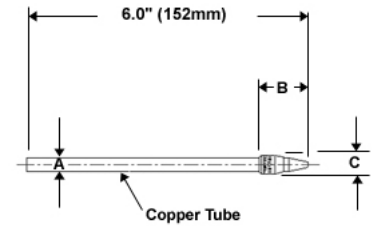
Test pressure: 100 psig (6.9 bars)

Airflow: 23 scfm (650 l/min)

Copper tube: 1/4 " (6.4 mm.)



A = 0.25" (6.3mm)
B = 0.95" (24mm)
C = 0.34" (8.6mm)

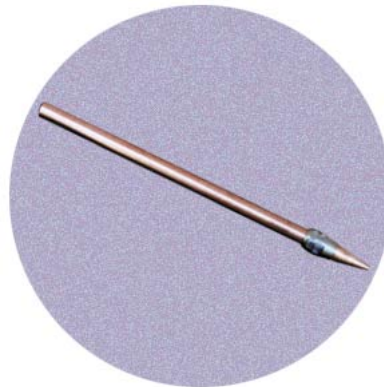


1205: Nozzle Mounted on 3/8" Copper Hose (High Thrust)

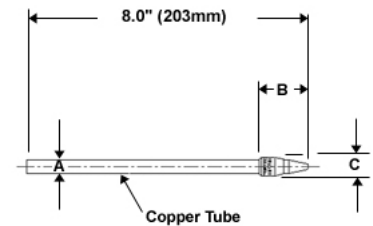
Test pressure: 100 psig (6.9 bars)

Airflow: 31 scfm (880 l/min)

Copper tube: 3/8 " (9.5 mm.)



A = 0.38" (9.5mm)
B = 1.43" (36mm)
C = 0.50" (13mm)



1206: Nozzle Mounted on 3/8" "Stay Put" Flexible Rubber Shaft (High Thrust)

Test pressure: 100 psig (6.9 bars)

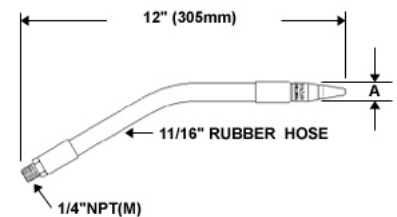
Airflow: 31 scfm (880 l/min)

NPT(M): 1/4 " (6.4 mm.)

"stay put" rubber hose: 3/8 " (9.5 mm.)



A = 0.70" (18mm)



1220: Max Thrust Nozzle