
Air Amplifiers

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1 Air Amplifiers

Air Amplifiers, or Round Transvectors, deliver a large airflow for conveying, drying, cooling or ventilation

1.1 Overview

These high flow, bladeless blowers have no moving parts so they are inherently safe. They amplify compressed air volumes by 12 - 20 fold in ducted applications and up to 60 fold in unducted applications.

As a vacuum or blow-off device, air amplifiers are more compact and less expensive than variable-speed blowers and fans, provide instant on/off performance, and operate at low noise levels to meet OSHA requirements. Round Transvectors are easily mounted and can be used in both ducted and unducted applications. They are available in several sizes, both aluminum and stainless steel and deliver flow rates from 32 to 2300 SCFM.



1.2 Features

- Amplify compressed air volumes by 12 - 20 fold in ducted applications; and up to 60 fold in unducted applications
- Adjustable airflow and output
- Quiet - meets OSHA noise requirements
- Easily mounted, ducted and moved
- No electrical connections required at target
- Instant on/off performance

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- Easily adapts for smoke and fume control, vacuum or blow off
 - Available in stainless steel and aluminum

1.3 Benefits

- Increase production rates by removing smoke, dust and debris
- Improve quality through better weigh sorting of under-filled or underweight capsules and parts
- Reduce compressed air usage vs open nozzles
- Lower cost as compared to fans or blowers
- Application mobility, compared to large fans and blowers
- Improved safety and eliminate shock hazards, with no moving parts, electricity or motors

1.4 Applications

They are especially useful for removing metal chips and scrap, ventilating fumes or smoke, and conveying small parts, pellets, powders and dust.

1.5 Uses

- Convey or Blow lightweight materials such as:
 - Grain
 - Plastic Pellets
 - Sawdust
 - Powders
 - Capsules
 - Metal chips
 - Paper trim
 - Cloth trim
 - Dust
 - Small parts
 - Plastic parts
 - Scrap
- Ventilate and exhaust welding fumes, soldering and machine smoke, auto exhaust, tank fumes and other gases
- Cool, clean or dry molded parts, casting, food products, etc.
- Weigh sort pharmaceuticals and other light materials

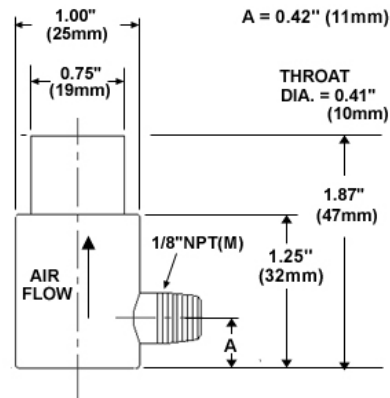
2 Models

2.1 Round Airflow Amplifiers (aluminum body) int. diam. 10-20-40-76 mm.

Available in several sizes, aluminum Round Airflow Amplifiers deliver flow rates from 32 to 2300 SCFM

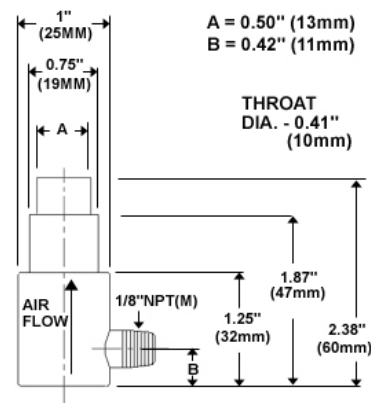
901A: Transvector Jet (Blow Off, Cooling)

Model	901A
Suction End Diameter (mm)	32
Throat diameter (mm)	10
Ducted Output (l/min)	2520
Air Amplification	25
Air Consumption @ 80 psig (l/min)	210
Air Consumption @ 100 psig (l/min)	226
Material of Construction	Aluminium

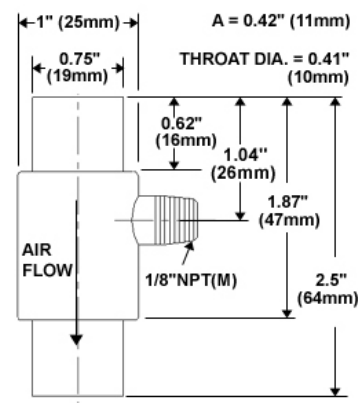


901DA: Transvector Jet (Blow Off, focused output)

Model	901DA
Suction End Diameter (mm)	32
Throat diameter (mm)	10
Ducted Output (l/min)	3500
Air Amplification	25
Air Consumption @ 80 psig (l/min)	452
Air Consumption @ 100 psig (l/min)	481
Material of Construction	Aluminium

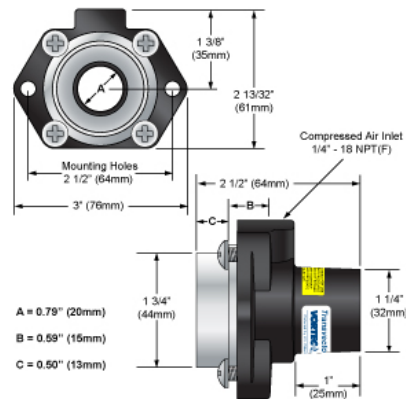
**901BA: Transvector Jet (Conveying)**

Model	901BA
Suction End Diameter (mm)	32
Throat diameter (mm)	10
Ducted Output (l/min)	2520
Air Amplification	25
Air Consumption @ 80 psig (l/min)	212
Air Consumption @ 100 psig (l/min)	226
Material of Construction	Aluminium



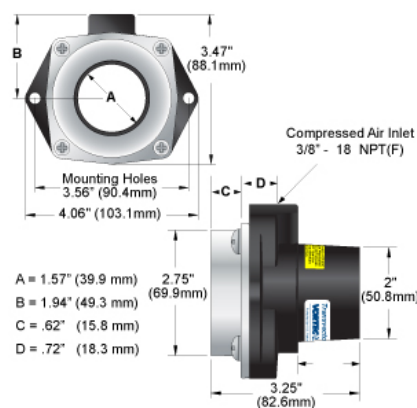
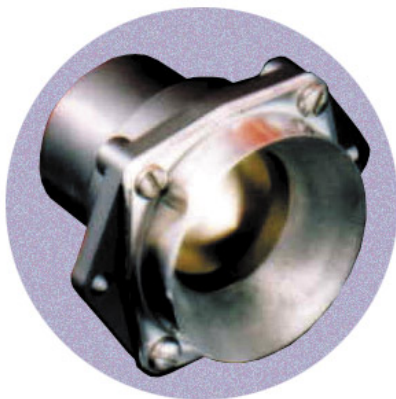
902: Transvector Airflow Amplifier (20 mm diameter)

Model	902
Suction End Diameter (mm)	44
Throat diameter (mm)	20
Ducted Output (l/min)	5773
Air Amplification	12
Air Consumption @ 80 psig (l/min)	411
Air Consumption @ 100 psig (l/min)	482
Material of Construction	Aluminum



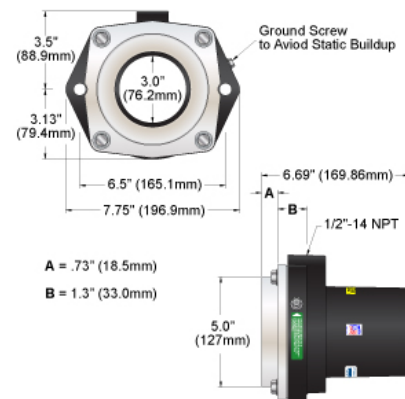
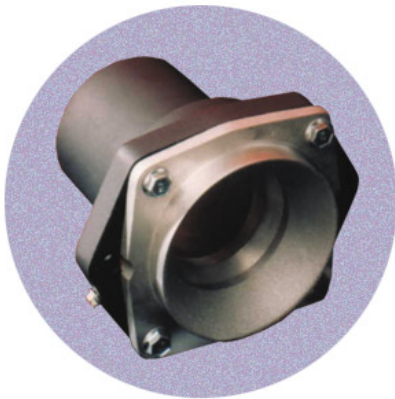
903: Transvector Airflow Amplifier (40 mm diameter)

Model	903
Suction End Diameter (mm)	70
Throat diameter (mm)	40
Ducted Output (l/min)	13443
Air Amplification	19
Air Consumption @ 80 psig (l/min)	583
Air Consumption @ 100 psig (l/min)	708
Material of Construction	Aluminium



904: Transvector Airflow Amplifier (76 mm diameter)

Model	904
Suction End Diameter (mm)	127
Throat diameter (mm)	76
Ducted Output (l/min)	40186
Air Amplification	20
Air Consumption @ 80 psig (l/min)	1633
Air Consumption @ 100 psig (l/min)	2012
Material of Construction	Aluminum

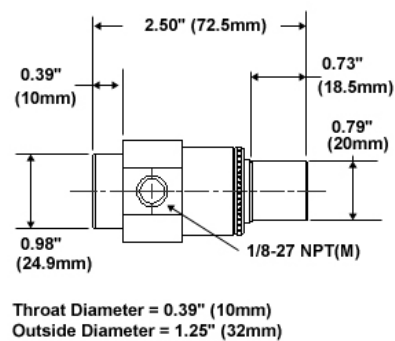


2.2 Round Airflow Amplifiers (stainless steel body) int. diam. 10-20-40 mm.

Available in several sizes, stainless steel Round Airflow Amplifiers deliver flow rates from 32 to 2300 SCFM

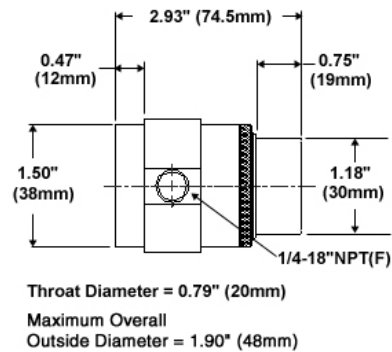
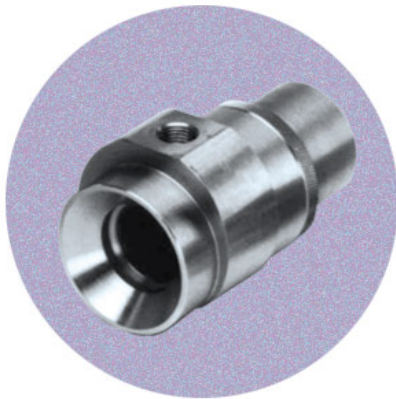
901XSS: Transvector Airflow Amplifier (10 mm diameter)

Model	901XSS
Suction End Diameter (mm)	25
Throat diameter (mm)	10
Ducted Output (l/min)	1358
Air Amplification	5
Air Consumption @ 80 psig (l/min)	212
Air Consumption @ 100 psig (l/min)	255
Material of Construction	Stainless Steel

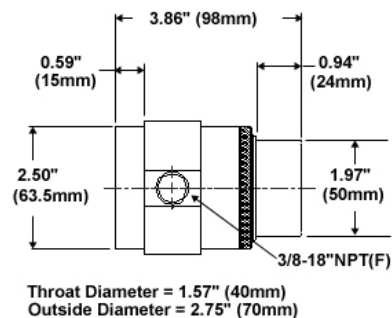
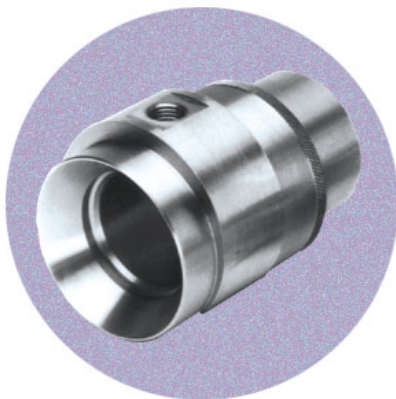


902XSS: Transvector Airflow Amplifier (20 mm diameter)

Model	902XSS
Suction End Diameter (mm)	38
Throat diameter (mm)	20
Ducted Output (l/min)	5773
Air Amplification	12
Air Consumption @ 80 psig (l/min)	411
Air Consumption @ 100 psig (l/min)	482
Material of Construction	Stainless Steel

**903XSS: Transvector Airflow Amplifier (40 mm diameter)**

Model	903XSS
Suction End Diameter (mm)	64
Throat diameter (mm)	40
Ducted Output (l/min)	13443
Air Amplification	19
Air Consumption @ 80 psig (l/min)	583
Air Consumption @ 100 psig (l/min)	708
Material of Construction	Stainless Steel



3 Technical data

Round Airflow Amplifiers (aluminum body) int. diam. 10-20-40-76 mm.

Model	Suction End Diameter (mm)	Throat diameter (mm)	Ducted Output (l/min)	Air Amplification
901A	32	10	2520	25
901DA	32	10	3500	25
901BA	32	10	2520	25
902	44	20	5773	12
903	70	40	13443	19
904	127	76	40186	20

Model	Air Consumption @ 80 psig (l/min)	Air Consumption @ 100 psig (l/min)	Material of Construction
901A	210	226	Aluminium
901DA	452	481	Aluminium
901BA	212	226	Aluminium
902	411	482	Aluminum
903	583	708	Aluminium
904	1633	2012	Aluminum

Round Airflow Amplifiers (stainless steel body) int. diam. 10-20-40 mm.

Model	Suction End Diameter (mm)	Throat diameter (mm)	Ducted Output (l/min)	Air Amplification
901XSS	25	10	1358	5
902XSS	38	20	5773	12
903XSS	64	40	13443	19

Model	Air Consumption @ 80 psig (l/min)	Air Consumption @ 100 psig (l/min)	Material of Construction
901XSS	212	255	Stainless Steel
902XSS	411	482	Stainless Steel
903XSS	583	708	Stainless Steel