

VORTEC Air Jets

Amplify Compressed Air Volumes Up To 4 Times

Jets are round-throated air flow amplifiers: one end provides a strong airflow while the other creates suction as free air is entrained. As the free air is entrained, jets amplify air volume up to 4 times more than the compressed air supplied, resulting in less compressed air usage to deliver the same or greater thrust performance.

Jets are designed to reduce compressed air consumption and noise drastically as compared to open jets, copper tubes and iron or steel pipes without an engineered nozzle. Perfect for all types of blow off, conveying, cooling and drying applications, jets are available in a variety of high and low thrust models. Since they output a more concentrated, targeted volume of air than nozzles, they are ideal for water, solvents or light oil stripping applications. Additionally, because they deliver a precise air flow, jets are ideal for parts movement and ejection, with a focused air flow targeted directly on the parts being moved or ejected. Vortec Jets meet OSHA specification for noise and dead-end pressure.



Features

- Wide range of designs and force/thrust levels
- Several suction and outlet options
- Adjustable jets enable varying power/thrust levels for each application
- Power/thrust levels ranging from 2 – 17 oz-force
- Air stream sizes at nozzle ranging from 3/16" to 1"
- Low noise levels, ranging from 65 to 80 dBA.
- Output thrust can be varied on all 901 units by changing or adding an internal shim. Larger shims give more blow off force. Contact Vortec for details

Benefits

- Convey small parts without motors or pumps
- Save time with better blow off capability
- Up to 4 times blow off power compared to compressed air alone
- Reduce operating costs due to compressed air usage by up to 75%
- Reduce noise levels by up to 70% compared to non-amplifying jets

Air Jet Applications:






- Weigh sorting
- Parts drying
- Waste or trim removal
- Vacuum generation
- Blow off cleaning
- Cooling
- Conveying small parts or materials
- Ejection of parts or cut-outs
- Fume extraction



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Amplification 4:1

Model No.	Description	Thrust (Power) Oz at 12"	Air Consumption SCFM (SPLM)
909A Jet 	Air Jet, Easily adjustable output	2 to 17	5-21 (142-594)
901A Jet 	Air Jet	6	8 (226)
901BA Jet 	Air Jet, for conveying applications, 3/4" (19 mm) diameter suction and discharge	6	8 (226)
901DA Jet 	Air Jet, high thrust-forced output	14	17 (481)
901HA 	Air Jet, high thrust, 3/4" (19 mm) diameter suction connection	14	17 (481)

The compressed air inlet size for all of the above models is 1/8" -27 female NPT. All Air Jets are anodized aluminum and can be shimmed (except Model 909A) to vary the out put thrust, suction and air consumption. Thrust and air consumption specifications are at 100 psig (6.9 bar).



909A Jet



901A Jet



901BA Jet



901DA Jet



901HA

Airstream Size

Model No.	At Jet	12" from Jet
909A	3/8" (10 mm)	3" (76 mm)
901A	5/8" (16 mm)	3-1/2" (89 mm)
901BA	5/8" (16 mm)	3-1/4" (83 mm)
901DA	3/8" (10 mm)	3" (76 mm)
901HA	3/8" (10 mm)	3" (76 mm)

901A and 901BA

Pressure (psig)	Air Consumption (scfm)	Dead-end Vacuum (inches of H2O)	Dead-end Pressure (inches of H2O)
40	3.4	22	44
60	5.0	36	76
80	6.5	52	108
100	8.0	65	141

901BA and 901HA

Pressure (psig)	Air Consumption (scfm)	Dead-end Vacuum (inches of H2O)	Dead-end Pressure (inches of H2O)
40	7.9	65	123
60	11.1	103	197
80	14.3	142	249
100	17.0	169	229

909A Set at "2"

Pressure (psig)	Air Consumption (scfm)	Dead-end Vacuum (inches of H2O)	Dead-end Pressure (inches of H2O)
40	2.6	13	13
60	3.1	36	66
80	4.1	47	94
100	5.3	57	129

909A Set at "10"

Pressure (psig)	Air Consumption (scfm)	Dead-end Vacuum (inches of H2O)	Dead-end Pressure (inches of H2O)
40	9.3	94	185
60	13.1	117	298
80	16.4	162	441
100	21.0	190	586