

SOUNDSCREEN™ High Thrust Air Nozzles

a McGill AirSilence™ Product

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United McGill® products

SOUNDSCREEN High Thrust Air Nozzles Reduce Noise and Save Air

The high noise levels associated with blow-off air applications can also represent proportionate energy losses to a plant's compressed air system. These conditions usually stem from use of home-made air control devices, such as bent copper tubing, flattened pipe or holes in header piping. Besides wasting energy, the loud harsh noise these devices create can be harmful to workers. McGill AirSilence's High Thrust Air Nozzles are the proven alternative to such devices. They optimize the existing psig of the air system while significantly reducing blow-off air noise.

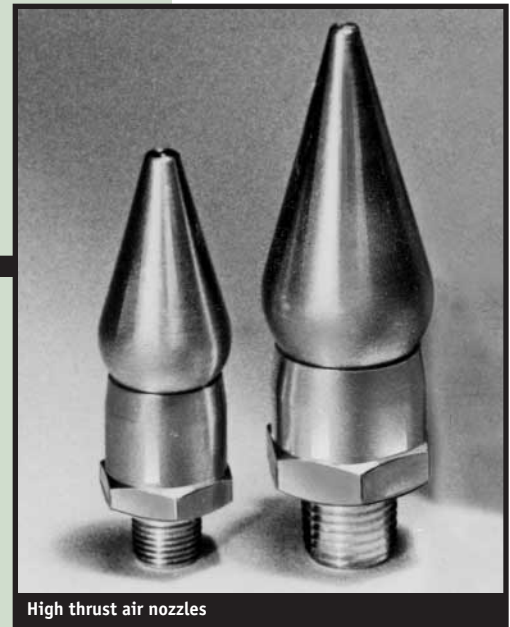
Quiet, Energy Efficient Air Nozzles

SOUNDSCREEN High Thrust Air Nozzles are an efficient way to use compressed air to move, clean, dry or cool a product, process or tool. A small flow of compressed air is throttled through a thin perimeter slot to produce a cone of high velocity air. This air cone, directed along the nozzle profile, entrains large quantities of air from the surroundings. Total flow can be 10 to 25 times as great as the compressed air consumption, depending on nozzle size and slot setting. The resulting "thrust" is much larger than the open air jet, and noise levels are reduced.

Wide Range of Applications

SOUNDSCREEN High Thrust Air Nozzles are recommended for cleaning wands, drying, part ejection, and other compressed air blow-off applications. The all-aluminum construction is resistant to corrosion and may be used at pressures up to 150 psig. A filtered air supply is recommended to keep the approximate .005-inch slot gap clear. Available from stock, nozzles come in two pipe sizes. See chart.

Part Number	Size	Weight
ATN-18A	1/8" NPT	1 oz.
ATN-14A	1/4" NPT	2 oz.



High thrust air nozzles

Factory Tested, 85dBA Performance

A few thousandths variation in slot gap can cause wide variations in air consumption and noise levels of nozzles. SOUNDSCREEN High Thrust Air Nozzles are individually tested and permanently set at the factory to obtain maximum thrust at an OSHA acceptable 85 dBA noise level for line pressures between 10 and 80 psig. This is a "close in" (two feet) noise level. For intermittent operation or for further distances away, the total noise exposure is significantly less.

Useful air thrust is delivered even when the nozzle is placed some distance away. Performance over distance with 60 psig air is shown in the chart.

Distance	Thrust (ounces)	
	ATN-18A	ATN-14A
3"	11.1	11.5
8"	10.2	11.0
15"	9.2	10.2



Recommended for cleaning wands

McGill AirSilence's High Thrust Air Nozzles will optimize the existing psig of the air system while drastically reducing the blow-off air noise level.

Products depicted in this specification sheet were current at the time of publication. As a quality-conscious manufacturer, McGill AirSilence is continually seeking ways to improve its products to better serve its customers. Therefore, all designs, specifications, and product features are subject to change without notice.

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An enterprise of United McGill Corporation — Founded in 1951

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