AIR NOZZLES AND JETS

Superior designed Air Nozzle and Jets reduce compressed air consumption and noise levels while maintaining laminar flow for strong Blowoff

WHAT ARE THEY - REASONS TO USE

Air Nozzles are the smallest amplifiers for point applications.

Air Jets entrain large volumes of surrounding air through the Jet (similar to Air Amplifiers) and are more efficient than Air Nozzles. They cover a larger blowoff target than a Nozzle.

The larger the Nozzle or the Jet the greater the efficiency for flow amplification and significant energy savings can be achieved.

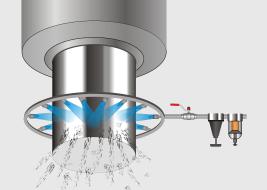
It is important to recognize that amplification Nozzles and Jets are "flow" amplifiers and not force amplifiers. However the more air consumed the greater the force produced.

The most important reason to use Air Nozzles or Jets is safety. All Nex Flow[™] Air Nozzles and Jets meet OSHA standard CFR 1910.242(b) for dead end pressure. Noise levels are dramatically reduced with Air Nozzles and Jets in addition to lower energy use.

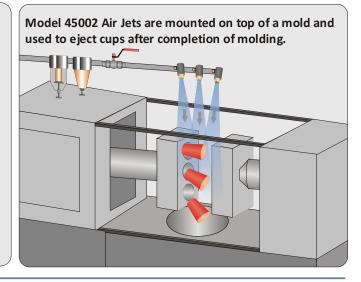


Nex Flow[™] removes the confusion from Air Jets and Nozzles. You do NOT need hundreds of different nozzles. All air amplifying Nozzles produce air flows up to 25 times the compressed air consumed. Different Nozzles have different outlet sizes and the more air used, the greater the force produced. Noise reduction up to 10 dBA as well as reduced air consumption when compared to open Jets and Tubes.

By maintaining a reasonable choice of nozzles most valid applications can be addressed with our range.



Model 47003 Nozzles are mounted along the circumference of a one meter diameter piston rod to blow off debris from its surface. The Nozzles are operated only when piston rod retracts in to the cylinder.



Manufactured by: Nex Flow™ Air Products Corp. 10520 Yonge Street, Unit 35B-220 Richmond Hill, ON, Canada, L4C 3C7 Tel: +1-416-410-1313 Fax: +1-416-410-180 or +1-716-626-3001

HOW IT WORKS

Air Nozzle - Models 47001, 47002, 47003, 47004, 47009 – Compressed air enters at point (A). Surrounding air (B) is entrained over a specially designed profile surface by the action of the small amount of compressed air leaving the ring gap at point (C). This results in a concentrated high velocity, laminar flow stream of amplified air with maximized force.

HOW IT WORKS

X-stream[™] Air Nozzle - Model 47010 - Compressed air enters at point (A). Surrounding air (B) is entrained over a specially designed profile surface by the action of the small amount of compressed air leaving the small drilled holes at point (C). This results in a concentrated high velocity, laminar flow stream of amplified air with maximized force.

RIGID FLEX HOSE NOZZLE ACCESSORIES - TO HOLD AND AIM NOZZLES AND JETS

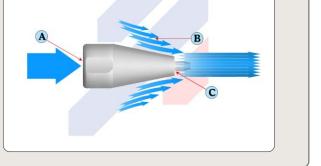
The unique **Nex Flow[™] RIGID FLEX** hose is an all stainless steel hose that dose not break after a few bends like competitive rubber hose with a simple copper insert. It is resistant to creep and crimping. The all stainless construction allows its uses in any difficult environment. They have 1/4" male NPT welded end connections and come in 6" and 12" overall lengths.

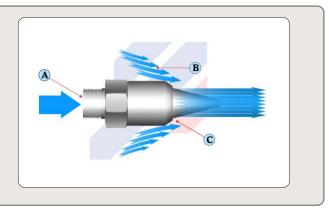
AIR NOZZLES

PART NO.	DESCRIPTION	
47001	Brass Mini-Nozzle with 10/32 fitting or metric equivalent	
47002	Brass Mini-Nozzle with copper tube - male	
47003	Standard Aluminum 1/8" NPT male fitting	
47004	Extra Strong Aluminum 1/4" NPT male fitting	
47009	Adjustable Aluminum Nozzle with 1/8" male NPT fitting	
47010	X-stream [™] Strong Force Nozzle with 1/4" female NPT fitting	

STAINLESS STEEL RIGID FLEX HOSE

PART NO.	DESCRIPTION
6RF	6" Stainless Steel Rigid Hose which can be flexed to a shape
12RF	12" Stainless Steel Rigid Hose which can be flexed to a shape



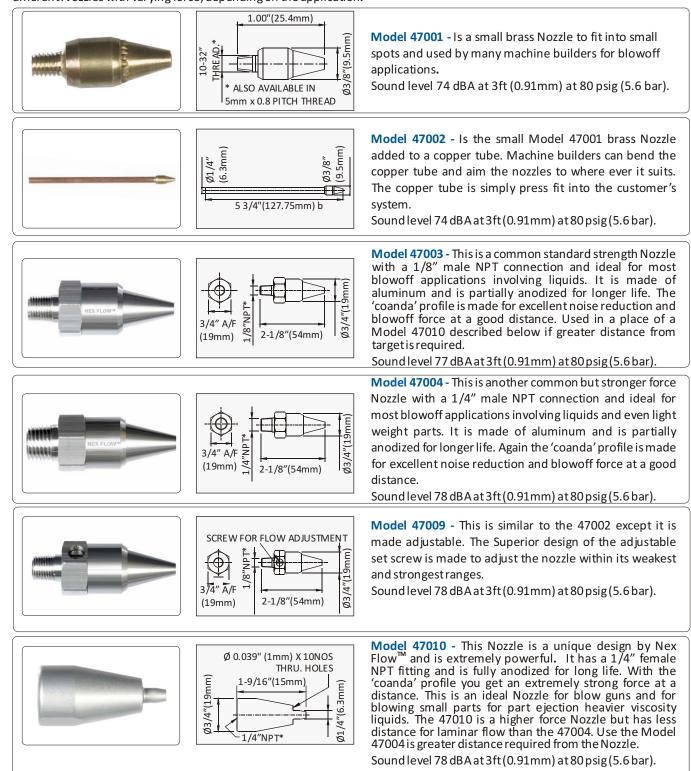


AIR NOZZLES



AIR NOZZLES:

Nex Flow[™] Nozzles are designed to fit into small spaces. We have an adjustable Nozzle for some applications and then a few different Nozzles with varying force, depending on the application.

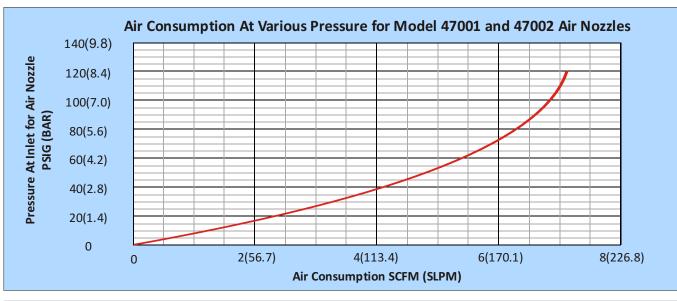


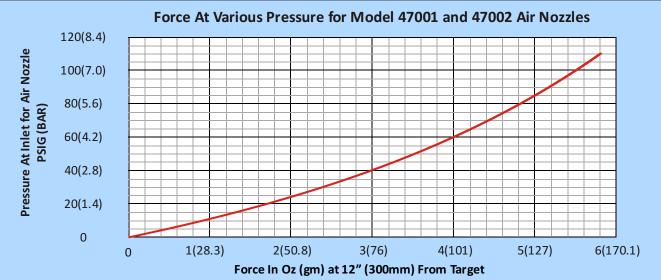
*BSP Threads or Adaptors can be supplied depending on country location.

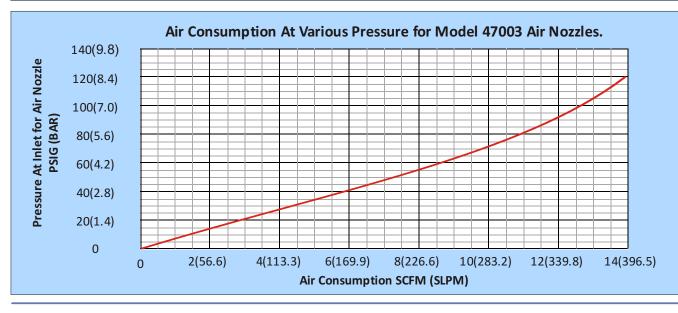
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AIR NOZZLES

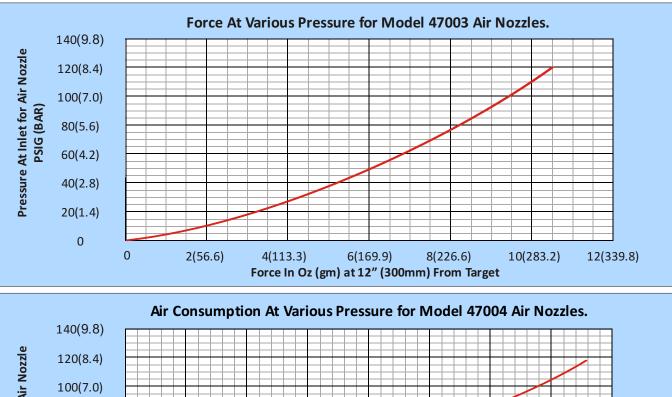
≫NEX FLOW[™]

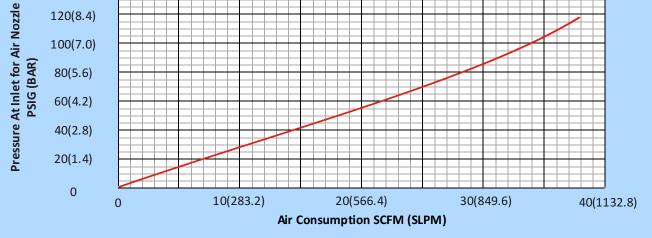


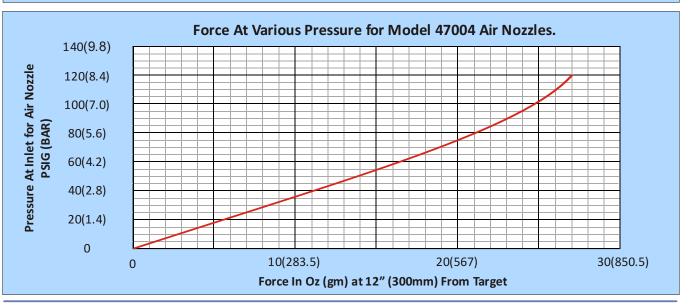




Engineering Representation: NueAir Engineered Products P.O. Box 15923 Cincinnati, OH 45215 Toll Free: 1-888-560-7027 Fax: 1-513-761-0585 sales@nueair.com



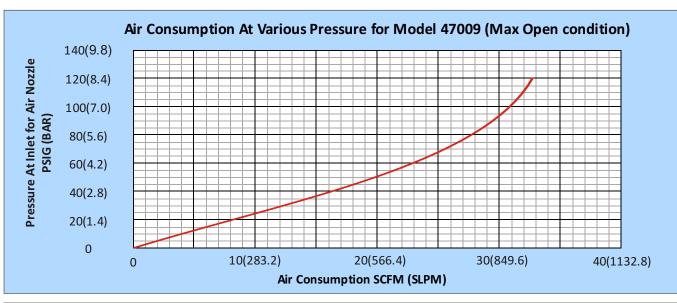


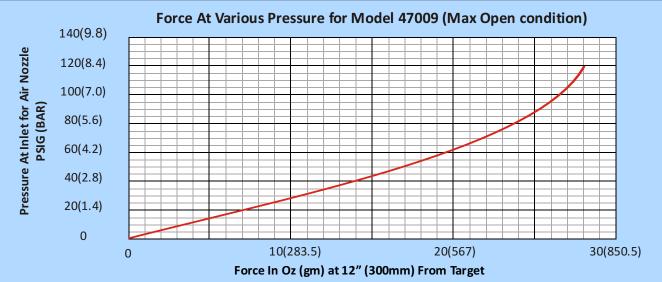


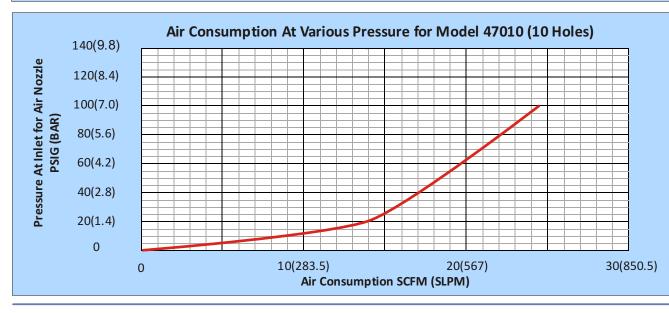
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AIR NOZZLES

≫NEX FLOW[™]



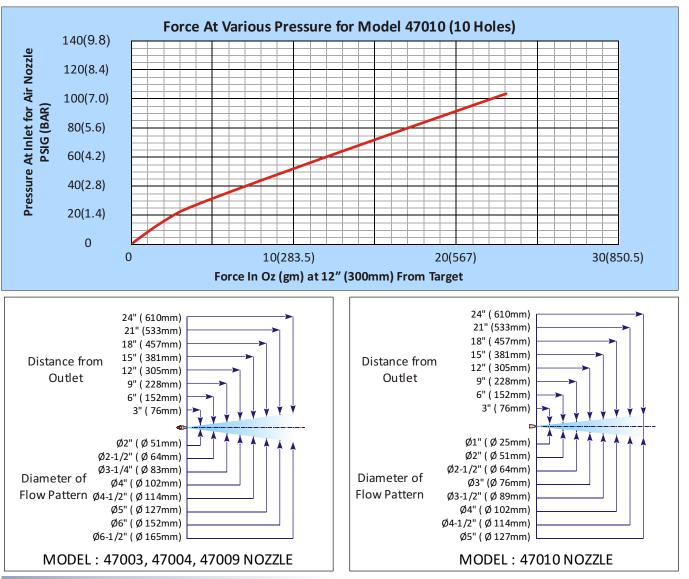




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STAINLESS STEEL RIGID FLEX HOSE

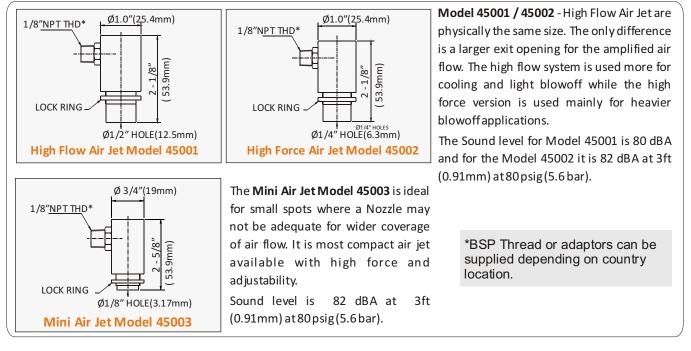
PART NO.	DESCRIPTION
6RF	6" Stainless Steel Rigid Hose which can be flexed to a shape
12RF	12" Stainless Steel Rigid Hose which can be flexed to a shape

AIR JETS:

Air Jets are larger than Nozzles and used when a wider area needs to be hit with the amplified air. They are significantly more efficient than Nozzles although often use as much compressed air. Their best use is to replace pairs of Nozzles that are used for part ejection or for blowoff applications that require greater force than that provided by Air Knives or Air Movers. Nozzles are for point use while air jets can fan out somewhat for better continuous blowoff when a row of them are made. Nex Flow[™] Jets are all made adjustable with a lock ring to assure the security of any gap setting. They have a female 1/8" NPT and made lightweight with anodized aluminum.

From left to right is the High Flow Air Jet (Model 45001) the High Force Air Jet (Model 45002) and the Mini Air Jet (Model 45003).

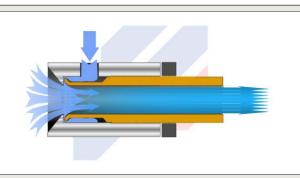




Air Jets perform similar to Adjustable Air Amplifiers - with the same lock ring and methodology. **Nex Flow™** Air Jets are adjustable and come with a lock ring to fix the gap.

HOW IT WORKS

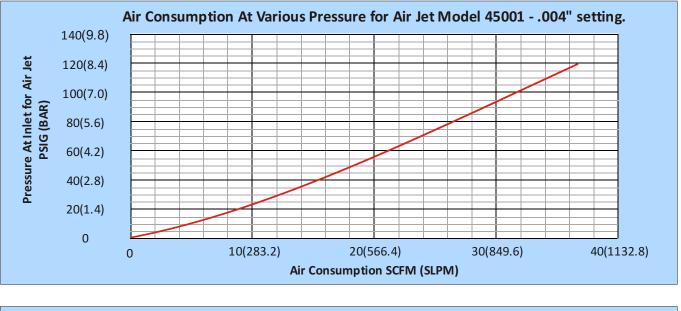
Model 45001, 45002 and 45003 Air Jets use a small amount of compressed air entering the annular chamber and exit via small ring nozzle at high speed over a "coanda" profile. This creates a vacuum entraining outside air converting the pressure to a high flow output while maintaining a high blowoff force. Energy cost and noise levels are reduced as a result.

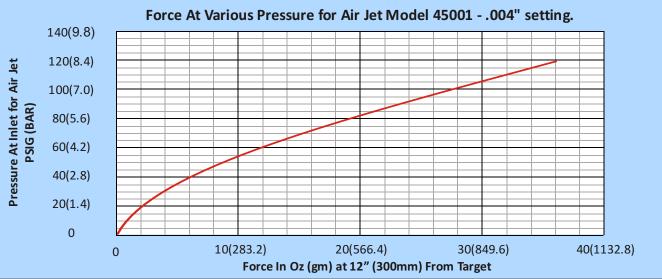


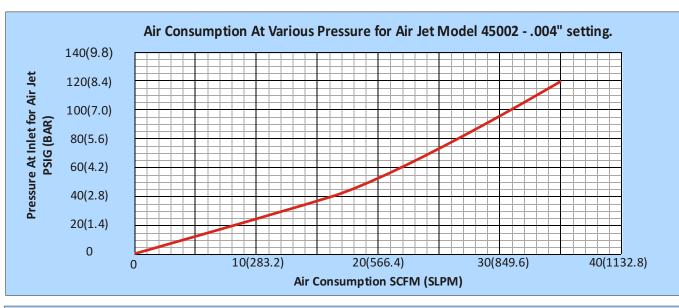
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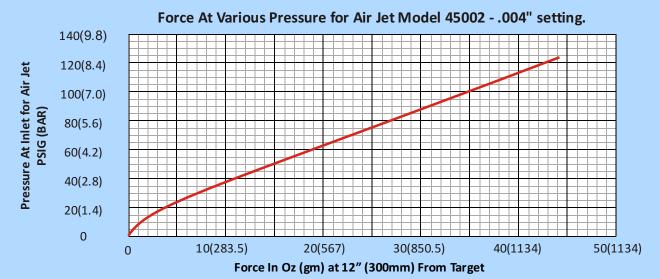
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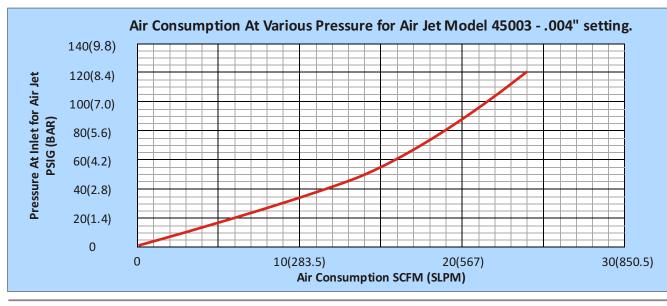






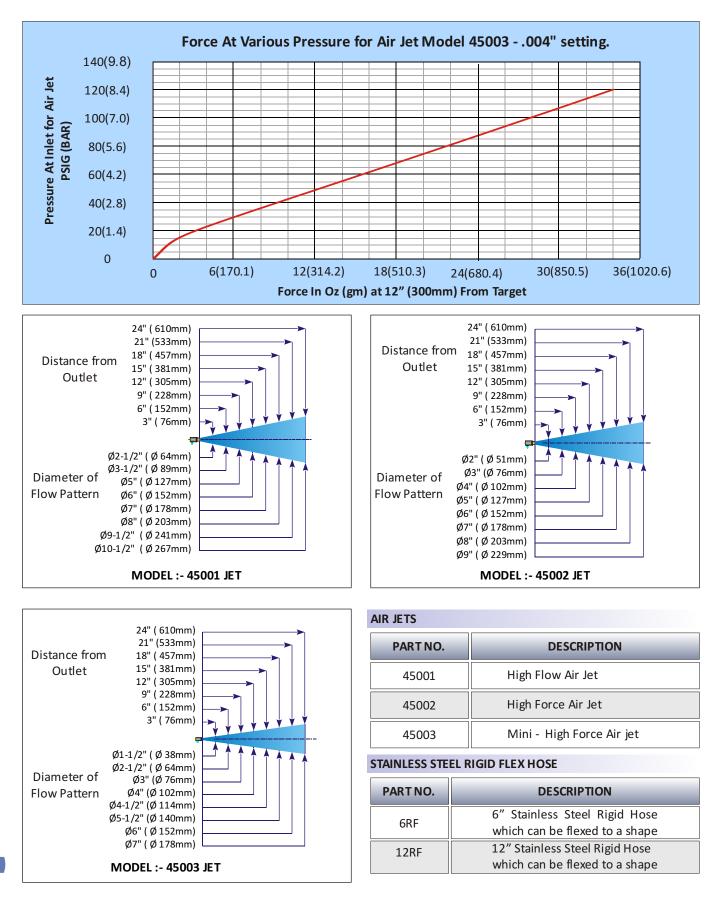






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AIR JETS

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