

# INSTALLATION AND MAINTENANCE OF NEX FLOW™ AIR NOZZLES

## FILTRATION and DIRT CONTROL

Nex Flow™ manufactures a series of air nozzles – both standard type and the powerful Air Mag™ versions. All air nozzles operate with very small openings so cleanliness is very important.

Recommended water removal filtration is with water removal filters of at least 25 micron or lower. If there is oil in the air lines, recommended filtration is with a 0.3 microns oil removal filter. All filters should have an automatic drain and be sized to handle the flow of the nozzles filtered.

Do not use restrictive fittings which may cause excessive pressure drop. Filters should be located close to the nozzle or nozzles.

Use regulators sized for the air flow of the nozzle or nozzles.

## SAFE OPERATING PRACTICES

Air Nozzles are used extensively in production but also on Air Guns. Never use compressed air to blow off to clean clothing or dislodge particles on your person as high pressure air can penetrate the skin and cause injury, sometimes fatal.

Do not engage in horseplay with compressed air.

Always wear safety glasses with side shields when working in an area where compressed air is used for blow off.

## Troubleshooting and Maintenance

Air Nozzles in particular are usually at the end of long lengths of tubing or pipe, typically the same size as the nozzle connection. For example, a ¼" nozzle attached to a ¼" pipe. It is important to consider both the force and flow used by the air nozzle. When comparing nozzles, two different manufacturers may have the same force at the same rated pressure but, if one uses even a slightly more amount of compressed air, the actual force may be less than the one using less air. This is because of extra pressure drop caused by the extra amount of air consumed, even if small. So when replacing air nozzles of one type with another, make sure the consumption is the same or less at the rated pressure.

Reduction in flow or force can be caused by other restrictions in the supply line. To check this, install a pressure gage near the air nozzles and measure the pressure while operating. This will determine if there is too much pressure drop in the system. If so, check for any unnecessary restrictions, undersized or clogged filters, etc. that may be causing this and take corrective action.

Make sure air nozzles are installed securely to avoid leaks at the connection point which can waste energy and reduce their effectiveness.

## Cleaning

If any air nozzle becomes clogged simply remove and clean. A pin can be used to push dirt from holes in the nozzles. They can also be washed and cleaned.

Occasionally, there is dirt buildup on the outside surface of the nozzle due to vapors in the factory atmosphere. Clean the surface with a solvent and a clean rag. To prevent contaminants being pushed back into the nozzle do this operation while there is a small amount of air running through the nozzle.

If there are any questions concerning installation and maintenance contact Nex Flow™ or their closest representative.



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