

INSTALLATION AND MAINTENANCE OF NEX FLOW™ AIR JETS

FILTRATION and DIRT CONTROL

Nex Flow™ manufactures a series of air jets in aluminum, brass and stainless steel. All air jets operate with very small air exit gaps 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 air jets filtered.

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

Use regulators sized for the air flow of the air jet or air jets.

SAFE OPERATING PRACTICES

Air jets are used extensively in production but also occasionally on Air Guns or at the end of piping that is handled manually. 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 Jets are usually at the end of long lengths of tubing or pipe. It is important to consider both the force and flow used by the air jet. Air Jets have an adjustable gap. If you increase the gap it will provide more force but also consume more air. If you open the gap too much it will not work well so keep the gap less than .008". If you open the gap but stay within this range and the force goes down, it can be from excess pressure drop in the air line. Line size may have to be increased if that higher force is desired.

Reduction in flow or force can be also because of 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 jets are installed securely to avoid leaks at the connection point which can waste energy and reduce their effectiveness.

Cleaning

If any air jet becomes clogged simply take apart, clean, and reassemble. If it is just some dirt from the air line, just open the gap slightly to blow out the dirt while the compressed air is flowing (but at a lower pressure), then reset the gap and tighten with the lock ring. Occasionally, there is dirt buildup on the outside surface or on the inner diameter of the air jet 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 air gap of the air jet, do this operation while there is a small amount of air running through the air jet.

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



USA & CANADA Tel: (877) 797-2777 Fax: (877) 797-2660

INTERNATIONAL Tel: (416) 410-1313 Fax: (416) 410-1806

Website : www.nexflow.com

Email : sales@nexflow.com