

WHAT EXACTLY IS AIR-OIL LUBRICATION?

WHAT IT IS NOT!

Air-Oil is NOT oil mist. The key difference and importance between an Air-Oil system and Oil Mist system is that with an Air Oil system, the oil always remains a liquid. It is not atomized like a mist system and when operated properly there is no oil fog created and no oil reclassification necessary.

HOW IT WORKS

An Air-Oil system uses a compressed air supply to push liquid oil which clings to the wall of the transport tube to the lubrication point. The lines can be mounted in any orientation and even tied in knots. If the air can get through the oil will too. Within the supply tubing, will even out to provide a continuous supply of oil to the lubrication point.

WHAT HAPPENS AT THE LUBRICATION POINT?

When the Air-Oil reaches the lubrication point the oil is deposited and the air is exhausted. If configured correctly this can create a positive pressure in the bearing cavity and prevent contaminants from entering the bearing. This can help significantly extend the life of bearings in hostile locations.

WHY SHOULD I USE AIR OIL INSTEAD OF GREASE?

Air-Oil offers many benefits over grease lubrication systems. Grease is a relatively ineffective lubricant. Only 85% of grease is a lubricant the rest is a soap used to thicken it. When displaced by a bearing pushing through, it the grease's thickness keeps it from returning to where the lubrication is needed. This excess grease is often pushed outside the bearing. Excess grease can even create additional heat within the bearing. Grease flows require more complicated dividing mechanisms than Air-Oil. Grease is often more difficult to re-capture than oil. Gease is much more difficult to clean up. A bearing lubricated with Air-Oil can often be inspected without any cleanup while a grease lubricated bearing must be washed in solvents to examine bearing wear.