

Lubrication Parameters for ARO Pumps

Why would an ARO Pump require Lubrication?

ARO Diaphragm and Piston Pumps are assembled with enough lubricant to last until the first maintenance. However, in some cases adding an airline lubricator can extend service life.

This can include applications with a lot of moisture in the air supply. If the pumps run continuously, the moisture could wash out the factory installed lubricant.

Which Type of Oil to use?

There is a specific airline lubricant that should be used with ARO Diaphragm or Piston pumps. Make sure it is a quality 80/90-weight non-detergent gear oil.

Why is Non-Detergent Oil Important?

DO NOT use lubricants such as Marvel Mystery Oil® or automatic transmission fluid. These have additives which will attack the Buna O-Rings and U-Cups within the pumps air motor. These additives will gum up the O-Ring seals and the air motor will not shift.

For this reason, only a quality non-detergent 80/90-weight gear oil should be used.

How much Oil is needed?

The amount of oil should not exceed one (1) drop per minute.

With the pump running continuously, adjust the lubricator so that it dispenses one drop of oil into the air stream each minute.

If you have the lubricator set too high, there will be oil dripping from the pump's muffler. This means the pump air motor is receiving too much oil and the airline lubricator will need adjusted. On ARO airline lubricators, this adjustment would be made by turning the sight-dome clockwise.

Which airline Lubricator should be used?

Any airline device leading to the pump should have the same port size as the pump's air inlet.

If the air motor has a 1/4" air inlet, then the airline filter, regulator and lubricator should also have 1/4" ports. Doing this can help avoid a restriction that would result in too little air being supplied to the pump.