



INSTRUCTIONS & PARTS LIST FOR 1670FRL FILTER – REGULATOR – LUBRICATOR SERIAL “A”

WARNING

Wear gloves and eye protection while installing, using, and servicing the Filter Regulator Lubricator (FRL). The nature of compressed air, oil, and other contaminants, increases the physical hazard level. Also beware of extreme temperatures variations associated with compressed air systems. Inspect the system daily if in frequent use. Replace any damaged or worn parts, including warning labels as needed. For further information, consult the manufacturer (AirTAC International Group).

CAUTION

The filter and lubricator bowls are made of Polycarbonate (PC) resin. While PC offers proven structural reliability, and convenient translucence, certain chemicals MUST NOT come into contact with the Filter-Regulator-Lubricator (FRL) system. Some chemicals will degrade the PC to a point that will cloud the translucence, compromise the structural integrity, and/or dissolve the bowls entirely. Compromised bowls, even when under normal operating pressure, have a higher risk of rupturing; and can result in flying fragments. Never use organic solvents such as Trichloethylene, Thinner alcohols, etc. Certain compressor oils, chemicals, household cleaners, solvents, paints, and fumes will can compromise Polycarbonate. Use a common dishwashing liquid for cleaning. For further information, consult the manufacturer.

Unless stated by the manufacturer, the 1670 FRL is specifically intended for use with compressed air systems. Use with any other gases or fluids is a misapplication. For example, the use with, or injection of, certain hazardous liquids or gasses in the system (such as alcohol or liquid petroleum gas) could be harmful to the unit or result in a combustible condition, or hazardous external leakage. Before using with fluids other than oil, or for non-industrial applications, or for life-support systems, consult the manufacturer for written approval.

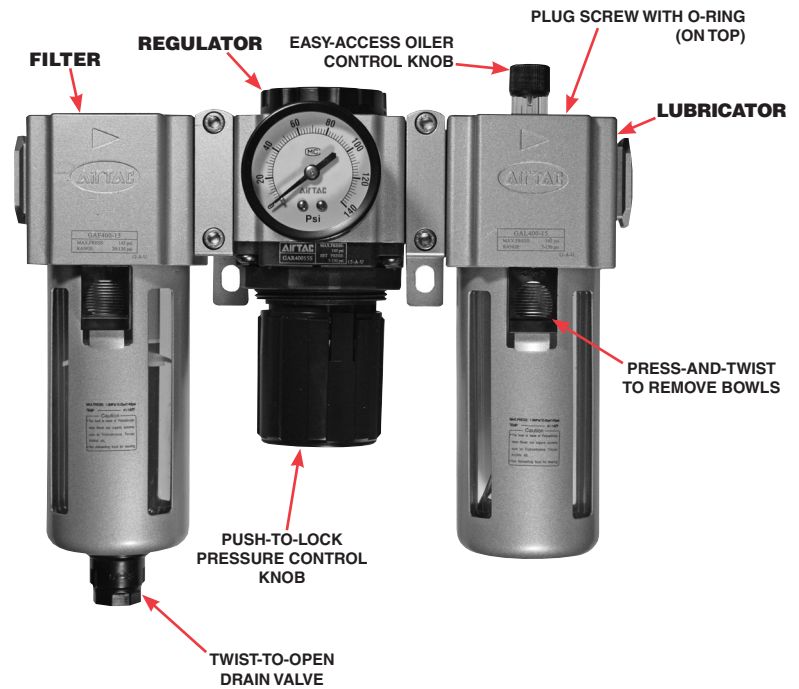
INSTALLATION

1. Read the warnings, and precautionary statements above.
2. Install FRL unit as close as possible to the point where the air is being used.
3. Plumb the FRL unit so that the air flows through the unit in the same direction as the arrows (arrows are triangle symbols found on multiple faces of the FRL hardware – all arrows should be pointing the same direction). The order of processing the air should be 1-filter 2-regulator 3-lubricator.
4. Use the same size pipe and fitting as the unit (1/2" NPT pipe for the 1670 FRL). Avoid using excessive fittings, couplings, etc. Non-essential hardware, and undersized hardware, restricts airflow.
5. Do not install the FRL in applications where the pressure drop will exceed 20 psi.
6. A drain line can be attached to the bottom of the filter bowl. Make sure the drain line can drain easily with gravity, and does not get pressure-locked, or kinked.
7. Keep the FRL unit horizontal, so that the bowls are pointing down.
8. Remove the threaded plug to install the pressure indicator. Seal the threads with Teflon tape (or similar).
9. MAXIMUM INLET PRESSURE: 145psi (1.0MPa)
10. OPERATING TEMPERATURE RANGE: 23° to 158°F (-5° to 70°C)

MAINTENANCE & OPERATION

Refer to the manufacturer's recommendations. Unless otherwise stated, depressurize the FRL unit before performing service. **FILTER:** Verify that the semi-automatic filter bowl is draining properly daily. The 1670 FRL should drain when the retained water level reaches the bottom of the filter body. The filter can also be drained manually. Drain the filter bowl daily (or as needed due to the equipment's environmental conditions). When the airflow drops significantly, even after the filter bowl has been drained, replace the filter element. **REGULATOR:** To adjust the regulator, PULL the pressure control knob before turning the knob. Press the knob to lock the position. Turning the knob clockwise increases the pressure (screwing the knob inward); and turning the knob counter-clockwise decreases the pressure. Adjust the pressure gradually. **LUBRICATOR:** Refill the lubricator reservoir with Sioux 288 Pneumatic Oil (or equivalent ISO VG32 lubricant). DO NOT FILL THE OIL BOWL OVER 80% FULL. ADJUSTMENTS to the lubricator should be gentle; noting that the OILER CONTROL KNOB CAN ONLY BE TURNED CLOCKWISE. "0" is the lowest oil setting, and "9" is the highest oil setting. The current setting is indicated by the arrow (triangle shape).

Verify all components are securely installed before placing the unit back into use. For service parts, contact the manufacturer; and refer to the part numbers engraved on the actual unit (not the Sioux part number). Service parts and accessories are available through the manufacturer.



To add oil to lubricator (without pre-system cut-off valve):

1. Fully loosen the pressure control knob (turn CCW) until pressure gauge reads zero.
2. Verify all pressure is released past the regulator (option: activate the attached tool until the motor stops).
3. Slowly remove the plug screw (located on top of lubricator) with 5-mm hex wrench, verifying all air pressure is out of the bowl. *Do not lose o-ring.
4. Add pneumatic oil through the plug screw's hole (or via removing the lubricator bowl).
5. Reinstall plug screw. Replace o-ring as needed.
6. Turn pressure control knob slowly to increase pressure.
7. Check for leaks.

This pdf incorporates the following model numbers:

1670 FRL