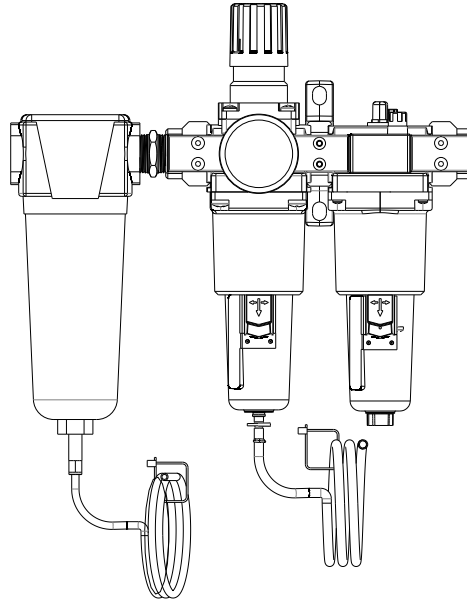


FRL & WATER SEPARATOR A700221



The FRL & WATER SEPARATOR is intended for use only in industrial compressed air systems. Do not use the FRL in applications where pressure and temperature exceeds 140 psi (0.97 MPa) and/or 120°F (50°C).

Safety

Oil mist may escape from the air system at point of use. Observe appropriate health and safety standards for limiting oil mist contamination and ensure that approved personal protective equipment is worn. MSDS information relating to the lubricant should be made available to personnel.

Make sure that the valve from the air source is closed and all air is vented from the supply line before attempting to install the FRL.

Installation

Install the FRL & WATER SEPARATOR in the supply line according to the following:

- vertically (reservoir down)
- air flow matches the direction of the arrow on the body for the FRL & WATER SEPARATOR
- upstream of cycling valves
- close to the device to be lubricated
- downstream of all other filters, regulators and lubricators
- Use proper thread sealant on tapered thread connections



Install the FRL & SEPARATOR after air coolers and reservoirs. Do not install it near the compressor as the air exiting the compressor is very hot and will damage the FRL & SEPARATOR components.

Document 1901016

Changes and Revisions

Version	Revision Details	Revised by/date	Checked by/date	Reviewed by/date	Implemented
A	Engineering Release	JR 30JUN2015	MH 30 Jun 2015	DB 30 Jun 2015	06 Jul 2015

Operation and Maintenance

Water Separator

Good maintenance and routine checks should be carried out to ensure correct Operation and to maintain long-term system reliability. **Note: there are no moving or replaceable parts for Water Separators.**

Filter/Regulator

Operation

1. To set the Regulator, pull the regulating knob till "Red band" (Indicator ring) is visible
2. To increase the pressure, turn the regulating knob in clockwise direction (see the marking on the knob).
3. To reduce the pressure, turn the regulating knob in counter clockwise direction
4. Set the pressure always in the ascending manner.
5. For draining the condensate water collected in the bowl, press the knob of the drain valve.
6. It is advisable to drain the bowl every day. The frequency of draining can be decided based on the condensate collection. However, take care that the condensate level does not cross the "Max. Level" marked on the bowl guard.

Maintenance

- a. Before dismantling the unit for maintenance:
 1. Check whether there is any leak observed.
 2. Check whether you find any restricted flow.
 3. Check whether the drain works properly.
 4. Check whether the set pressure has changed.
 5. Completely exhaust the air in the line.
- b. Dismantle the components and clean them with soap and water, and blow with compressed air to clean the filter element.
Removing the bowl guard:

- Lift the bowl guard upwards, pull down the locking piece, turn the bowl guard by 45 ° & pull down.

Clean the bowl only with soap water or neutral detergent. Do not use thinner, kerosene, petrol, synthetic oil, trichloroethylene or other aromatic hydrocarbons.

(Polycarbonate bowl may get damaged and possibly fail if exposed to these solvents)

- c. Check for damages in the 'O'-rings and at sealing areas in the valvecone rubber, spherical seating, seating area of the housing etc. Replace if needed (or) clean and reassemble. (O-rings may be sourced locally).
- d. For assembly of the unit: Apply general purpose grease on the 'O'rings and on the surface of the housing where the O-ring enters the housing. Reassemble all the components.
Assembling the bowl guard:
 - Position the projected lug portion of the bowl guard to the corresponding slot in the housing. Push the bowl guard fully. Turn the bowl guard by 45 ° till the locking piece enters into the housing slot fully.

Lubricator

Operation

Oil Filling:

- Remove the oil filling plug assembly. Pour the oil (Recommended oil ISO VG 32 / Servo system 32) in to the lubricator.

Oil Flow Adjustment:

- Turn the needle knob to adjust the oil drops to your requirement, clockwise to decrease and counter clockwise to increase the oil flow.

Maintenance

- a. Before dismantling the unit, exhaust the air in the line completely.
- b. To clean the Lubricator.

Removing the bowl guard:

- Lift the bowl guard upwards, pull down the locking piece, turn the bowl guard by 45 ° and pull down.

Dismantle the components and clean all the components with soap and water, and blow with compressed air.

Clean the bowl only with soap water or neutral detergent. Do not use thinner, kerosene, petrol, synthetic oil, trichloroethylene or other aromatic hydrocarbons.

(Polycarbonate bowl may get damaged and possibly fail if exposed with these solvents)

- c. Check for damages in the O-rings and other parts. Replace if needed (or) clean and reassemble. (O-rings may be sourced locally).
- d. For assembly of the unit: Apply general purpose grease on the 'O'rings and on the surface of the housing where the O-ring enters the housing. Reassemble all the components.

Assembling the bowl guard:

- Position the projected lug portion of the bowl guard to the corresponding slot in the housing. Push the bowl guard fully. Turn the bowl guard by 45 ° till the locking piece enters into the housing slot fully.