INSTALLATION GUIDE

FRL FILTER-REGULATOR-LUBRICATOR



TECHNICAL DOCUMENT

1.1 PURPOSE

This document gives instructions on installing and using the FRL Filter-Regulator-Lubricator on a mill with a Power Drawbar or Automatic Tool Changer (ATC).

1.2 PRODUCT INFORMATION

Product: FRL Filter-Regulator-Lubricator (PN 32457)



Quantity	Description
2	1/4 NPT to 3/8 NPT Brass Fitting (PN 32456)
1	Dial
1	FRL Filter-Regulator-Lubricator (PN 32445)
2	Quick-Connect Bushing



Note: If any of these items are missing, we can help. Email support@tormach.com to contact Tormach Technical Support for guidance on how to proceed.

TECHNICAL DOCUMENT

2.1 INSTALL AND SET UP THE FRL

Complete the following steps in the order listed:

- Step 1: "Install the FRL" (below)
- Step 2: "Set Up the FRL" (below)

2.1.1 Install the FRL

- 1. Clean the FRL to make sure that it's free of dust.
- 2. Remove and discard the plastic inserts from the FRL.
- 3. Identify the dial provided, and then put two layers of thread seal tape on its threads.
- 4. Attach the dial on the front of the FRL.
- Identify the two quick-connect bushings and the two NPT reducers provided. Connect the quick-connect bushings to the NPT reducers.
- 6. Put two layers of thread seal tape on the threads of the NPT reducers.
- Attach the NPT reducers to the valve housings on either side of the FRL.
- 8. Determine a location to install the FRL. We recommend installing it on the back of the machine's chip pans.

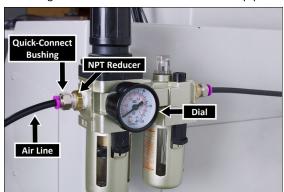


Figure 2-1: FRL installed on the machine.

- 9. Use the FRL bracket as a template to mark the two hole locations, and then drill two holes.
- 10. Install the FRL bracket on the machine with your own hardware.
- 11. Connect the air lines to the quick-connect bushings.

2.1.2 Set Up the FRL

1. Open the fill port on the FRL with a hex wrench.



Figure 2-2: Fill port on an FRL.

- Fill the lubricator bowl with standard air tool oil with a small funnel to. You must only use oil specifically designed for air tools.
- 3. Turn the adjustment knob halfway toward the +.
- 4. Flush all air bubbles from the system.
- Examine the sight window for air bubbles. When there
 are no air bubbles in the sight window, and a drop of
 lubricant is on the bottom of the stem, turn the
 adjustment knob one-quarter turn back.

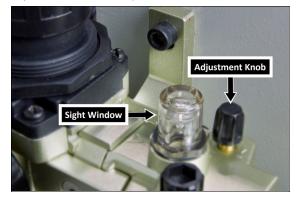


Figure 2-3: Components to flush the air from the FRL.