



## Maintenance Bulletin MB-0043

### GSD Series Oil Change Procedure

Version 1, Oct. 2017

#### Purpose

This document provides instructions for conducting an oil change on the GSD Scroll compressors.

#### Warning!

The compressor will be under pressure with a refrigerant charge above atmospheric pressure. Incorrect handling may cause injury to skin and eyes. Only properly trained personnel should open systems containing refrigerant. Always wear safety equipment while working on the compressor.

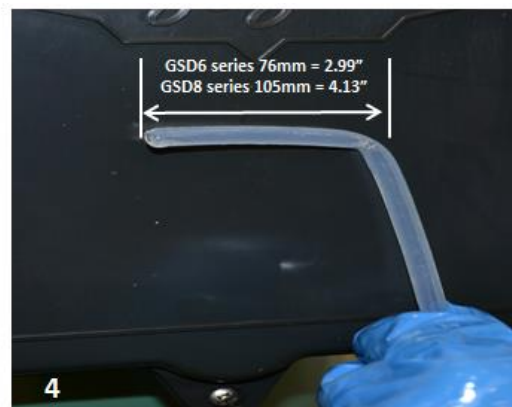
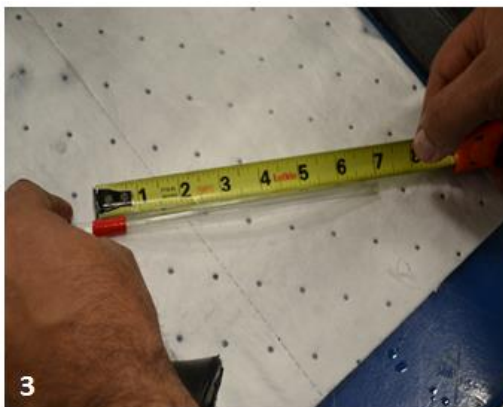
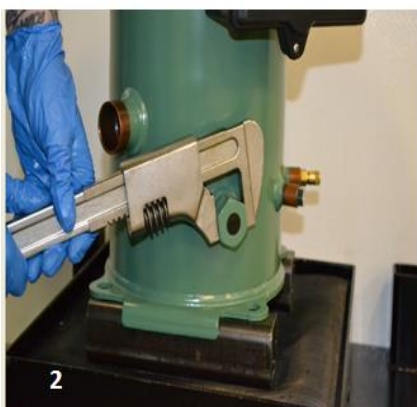
#### Required Tools

- Manifold gauges + hoses
- 3 feet of 1/4" plastic tubing
- Vacuum pump
- Refrigerant recovery machine
- Pipe wrench or 36mm (1-7/16") socket
- Brass access fittings for oil pump
- Bucket for oil
- Hand-operated oil pump (e.g. Yellow Jacket oil pump UPC#77940)
- Safety glasses
- Gloves



#### Oil Draining Procedure

1. Ensure the compressor has been isolated and refrigerant charge has been recovered.
2. Unscrew the compressor sight glass using the pipe wrench as shown in picture number 2.
3. Connect the plastic tubing to the 1/4" flare fitting at the bottom of the pump and insert the other end loosely into the compressor sump and draw the oil out. Measure insertion tube that will be inserted into oil sump as depicted in picture numbers 3, 4 & 5.
4. Remove oil as shown in picture number 6 and dispose it responsibly.





## Oil Filling Procedure

1. Screw sight glass back onto the compressor. Use a new SG gasket.
  - a. GSD6 sight glass gasket p/n 372200-04 – Torque 55-60 Nm (40-44 ft/lbs.)
  - b. GSD8 sight glass gasket p/n 372200-03 – Torque 120-135 Nm (88-99 ft/lbs.)
2. Insert the oil pump into the oil container until it touches the bottom. Push the universal stopper down into the neck opening of the container as shown in picture number 7.
3. Connect a hose to the 1/4" flare fitting at the top of the pump. Attach the other end loosely to the compressor oil service port (Schrader valve) as shown in picture number 8.
4. Purge the air from the hose and tighten the fitting at the oil service port. Start pumping the oil into the compressor with slow even strokes.
5. After the desired charge of oil has been pumped into the compressor, remove the connecting line from the oil service port.
6. Place the compressor on a vacuum and pulldown to manufacturer's recommendations.
7. Warning: Do Not start the compressor while in a vacuum.

