

## CORRECT AND SAFE TEST MUFFLER APPLICATION



**MQ Part #AIRCOMPTESTMUFFLER**

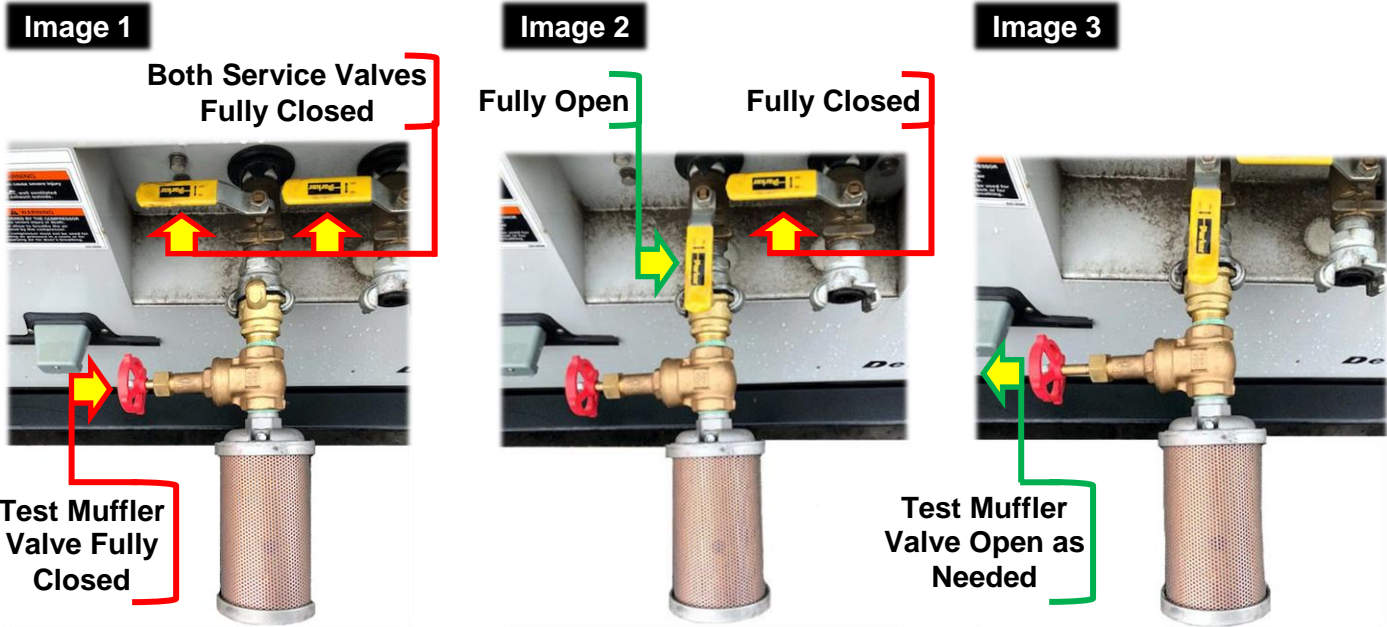
A test muffler is required for safely load testing the DIS185SSI4F air compressor's air output without causing damage to the compressor or surrounding personnel. Performing a load test is recommended after any maintenance or repairs are done to the air end. The following instructions are designed for properly performing a load test using a test muffler. Hearing protection is highly recommended as well as alerting nearby personnel in preparation for this procedure.

**Caution:** Do not operate or service the equipment before reading the entire Operation Manual. Safety precautions must be followed at all times. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

### Load Test Procedure:

1. Perform the following pre-inspection prior starting the unit:
  - Ensure the fuel delivery system is in good working order
  - Ensure the fuel and air filters do not need replacing
2. Ref. Image 1, install the test muffler:
  - Ensure BOTH of the unit's Service Valves are fully closed
  - Ensure the test muffler's Valve is fully closed
3. Start the unit and allow it to come up to operating temperature:
  - The engine will go into an idle RPM when operating temperature is reached
4. Ref. Image 2, fully open the service valve that has the test muffler connected to it:
  - Do not open the other service valve
5. While wearing personal protective equipment for hearing & hands, proceed with the following:
  - Ref. Image 3, slowly open the test muffler's valve until the following is attained
    - The engine reaches full/operating speed of (2400 RPM)
    - The target pressure of (100 PSI)

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**Please note the following:**

- a. Do not open valve all the way, it may cause a syphon effect and saturate the air/oil separator filter.
- b. There will be oil droplets when test valve is opened. If muffler continues to drip oil, refer to the operator’s manual to identify and resolve the issue.
- c. Once the desired (2400 RPM) and (100 PSI) is attained, run the unit for 30 minutes.
- d. It is possible that there will be a challenge getting the RPM and PSI to target values. This may be attributed to ambient temperature, altitude or other outside influences. Using the valve on the test muffler, make small adjustments to find a balance between RPM and PSI.
- e. The PSI is factory set to 100, the range is 85 to 105 PSI.
- f. If the unit fails the test i.e.:
  - Engine shuts down.
  - Excessive oil out of the test muffler.
  - Address the issue(s) and retest.