

WILKERSON®

Englewood, CO 80110

Installation and Service Instructions:
83-958-000

F12 / M12 Electronic DPI

ISSUED: November, 2001
Supersedes: None

EN# 01085520, Rev.1



WARNING

To avoid unpredictable system behavior that can cause personal injury and property damage:

- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer's specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

Introduction:

Follow these instructions when installing, operating, or servicing the product.

Application Limits

These products are intended for use in general purpose compressed air systems only.

Electrical Rating:

5 Amps - 12/24VDC, 125/250VAC

With Polycarbonate Bowl

| | kPa | PSIG | bar |
|-------------------------------|--------------|------|------|
| Operating Pressure Maximum | 1024 | 150 | 10.2 |
| Operating Temperature Maximum | 52°C (125°F) | | |
| Operating Temperature Minimum | 0°C (32°F) | | |

With Metal Bowl

| | kPa | PSIG | bar |
|-------------------------------|--------------|------|------|
| Operating Pressure Maximum | 1734 | 250 | 17.3 |
| Operating Temperature Maximum | 80°C (175°F) | | |
| Operating Temperature Minimum | 0°C (32°F) | | |

Operation and Service

1. The particulate and coalescing filter element should be removed and replaced when pressure differential across the filter is 10 PSID.
2. Absorber elements are designed to absorb vaporous contaminants. The relative efficiency of an absorber varies

depending on the vapor to be absorbed and the environmental temperature. At higher temperatures, absorbers become less efficient.

Absorber elements are not particle filters. All particles and aerosols should be removed prior to absorbing vaporous contaminants. The initial pressure drop across an absorber element (1.5 PSIG maximum) should never increase. The presence of any liquids, aerosols or particulate matter in an absorber indicates that the effective life of the element has been exceeded and the element should be replaced and the system cleaned.

The most effective method of testing whether an element needs to be replaced is to smell the air coming from the absorber. Offensive odors will be present well before oil levels become detectable.

3. If the electronic differential pressure indicator, located on top of the filter body is wired as normally open, it sends an electrical signal when the differential is greater than the specified range. If the electronic differential pressure indicator is wired as normally closed, there will be a signal until the differential exceeds the specified range. Change the filter element when this happens. For units without a differential pressure indicator, pressure differential gauges should be used to determine when the maximum recommended pressure differential has been reached.
4. Shut off air supply and depressurize the unit before servicing.
5. After servicing, apply system pressure and check for air leaks. If leakage occurs, **Do Not Operate** — conduct servicing again.



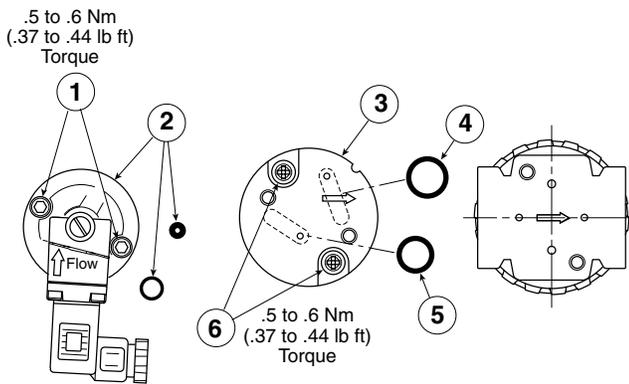
WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

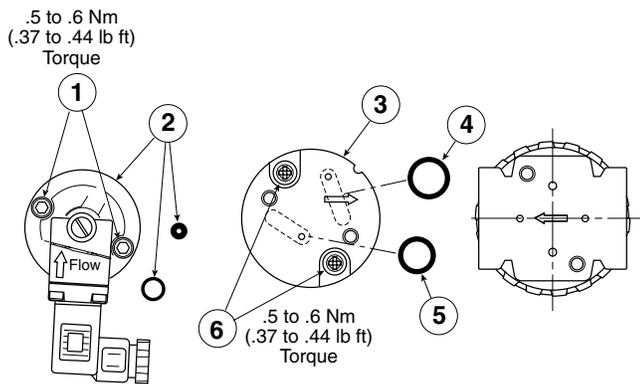
This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or systems in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.



Orientation / Assembly for (F12) Electronic DPI



Orientation / Assembly for (M12) Electronic DPI

- Item 1: Screws (2) for mounting Electronic DPI
- Item 2: Electronic DPI with two seals - Preset at 10 PSID
- Item 3: Adapter, F12/M12
- Item 4: O-ring, large
- Item 5: O-ring, small
- Item 6: Screw (2) for mounting adapter

Kits Available

| Description | F12 | M12 |
|---------------------|------------|------------|
| 5 Micron Element* | GRP-96-344 | — |
| 40 Micron Element* | GRP-96-343 | — |
| Absorber | FRP-96-301 | FRP-96-301 |
| Coalescing Type "C" | — | GRP-96-300 |
| Coalescing Type "B" | — | GRP-96-301 |
| DPI Repair Kit | FRP-96-300 | FRP-96-300 |
| Electronic DPI Kit | FRP-96-302 | FRP-96-302 |

*Element kits include body / bowl seal.

Wiring Code

- Pin 1: Common
- Pin 2: Normally Closed
- Pin 3: Normally Open

