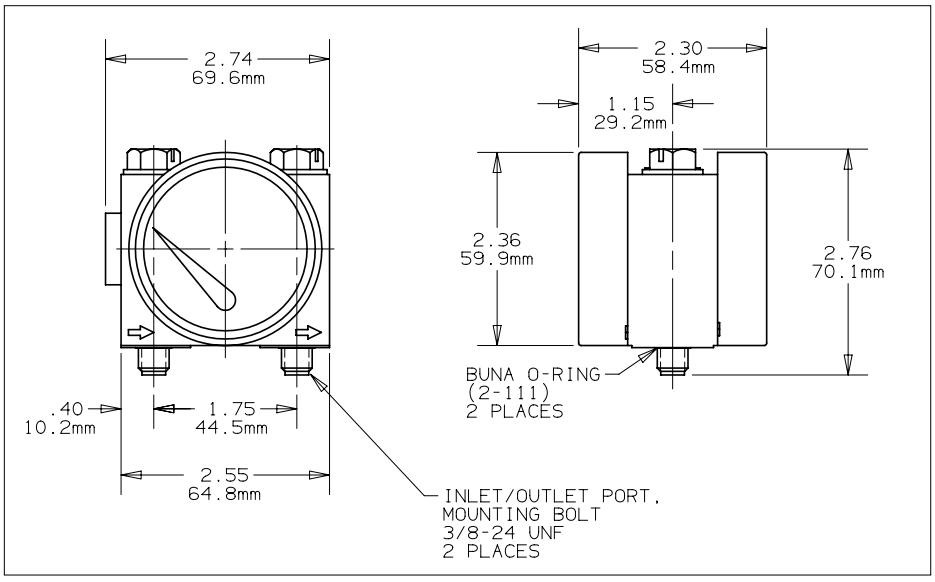
# Parker Balston® Model C02-2377 Differential Pressure Indicator for Compressed Air Service

Installation, Operation, and Maintenance Manual






**These instructions must be thoroughly read and understood before installing and operating this product. If you have any questions or concerns, please call the Technical Services Department at 800-343-4048, 8AM to 5PM Eastern Time (North America only). For other locations, please contact your local representative. Email: BalstonTechSupport@Parker.com**

## General Description

The Balston C02-2377 Differential Pressure Indicator (DPI) is used to monitor the pressure drop across filters or other components in compressed air systems. The DPI is sensitive in the range of 2 psi to 5 psi differential pressure, and has a dual-faced gauge which is visible from all vantage points. When installed with a Balston filter, the DPI monitors the differential pressure across the filter. The pressure differential actuates a magnet which, in turn, guides the needle travel across the face of the gauge.

**The DPI is designed to be installed only on compressed air systems with pressure and temperature conditions which meet DPI specifications (see page 2). Do not use the DPI with fluids other than compressed air or with compressed air which does not meet the product specifications. Use of the DPI in these installations will void the warranty.**

## Installation

**All installation and maintenance activities for the Balston C02-2377 DP Indicator should be performed by suitable personnel using reasonable care.**

The DPI gauge face is readily visible from a distance of 20 feet (6 m), through a wide viewing angle. Choose a location for the filter and DPI which will allow the operator to regularly monitor the DPI gauge.

Connect the DPI to the high and low pressure taps of select Balston 900 Series Compressed Air filters. If the filter does not have pressure taps, the DPI may be line mounted or mounted remotely from the filter using a remote mounting block (P/N B04-0253). Connect the high pressure and low pressure ports on the DPI to the high pressure and low pressure taps on the filter, or to the high pressure and low pressure lines (if remotely mounted). The sealant should be compatible with the fluid being filtered.

Check all connections for leaks after installation.

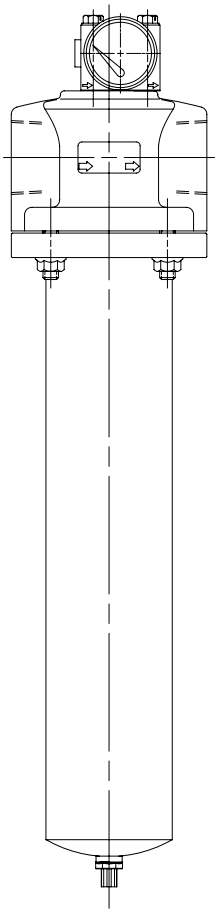
## Principal Specifications

| Port Size | Max. Pressure | Max. Temp. | Materials of Construction | | | | |
|---|---|---|---|---|---|---|---|
| | | | Housing | Lens | Spring | Diaphragm | Internals |
| 3/8"-24 UNF | 300 psig | 150°F (65°C) | Nylon | Nylon | SS | Buna-N | Nylon |

## Operation

During operation, the indicator needle will travel across the three zones on the gauge face, depending on the pressure drop through the filter. At differential pressures below the sensitivity range (<2 psid), the needle is fully retracted into the green zone. As the differential pressure increases into the sensitivity range of the DPI (2 psid-5 psid), the needle will travel across the gauge face, toward the red zone. At a pressure differential of 5 psid or greater, the needle will stay in the red zone. The filter cartridge should be changed when the indicating needle is in the yellow ("Change") zone. The red ("Dirty") zone indicates that the filter has little effective life left.

The Balston C02-2377 DPI may be cleaned with warm soapy water, as needed (externally only).



Typical Mounting on
Balston 15/80
Compressed Air Filter

**Parker Hannifin Corporation**
Filtration and Separation Division
242 Neck Road
Haverhill, MA 01835
Tel: 978-858-0505 Fax: 978-556-7501
www.balstonfilters.com

**Parker Hannifin (UK) Ltd**
Industrial Division
Suite 42, Kent House, Romney Place
Maidstone, Kent ME15 6LH United Kingdom
Tel: +44 (0)1622 772440 Fax: +44 (0)1622 772446
www.parker.com/pag

Copyright© Parker Hannifin Corporation 1997, 2012
Printed in U.S.A. Bulletin TI-C02-2377C

CELL: ASSY