



NC-41
February, 1971
Supersedes February, 1967

TYPE BC



“DESIGNER” SERIES FILTER/ REGULATOR

1/4" & 3/8"
FOR COMPRESSED AIR SERVICE

SPECIFICATIONS

PIPE SIZES: 1/4", 3/8"

FILTER ELEMENTS: SINTERED BRONZE
50-MICRON (STANDARD)
5-MICRON (OPTIONAL)
25-MICRON (OPTIONAL)

AUTOMATIC OR MANUAL DRAIN

REGULATOR SECTIONS: RELIEVING OR NON-RELIEVING

GAUGE PORTS: TWO 1/4" FULL FLOW

MAXIMUM RECOMMENDED OPERATING CONDITIONS:
150 PSIG AT 125°F. AMBIENT – POLYCARBONATE
250 PSIG AT 175°F. AMBIENT – METAL BOWL

*SECONDARY (REGULATED) PRESSURE RANGES:
1-50 PSI
2-125 PSI
5-175 PSI

*Can be adjusted to 0.

FEATURES

- Requires only two pipe connections instead of the four necessary for separate units.
- Balanced valve design.
- Integral panel mount ring standard.
- Screw-on type high-strength 1/3-Pint polycarbonate bowl. Bowl guard optional.
- Offers top performance with superb quality.
- Attractive, modern styling.

ORDER TABLE

Standard models normally available from distributor stock.
(Standard model consists of 125-lb. spring** and 50-micron element*)

| PIPE SIZE | GAUGE | AUTOMATIC DRAIN | MANUAL DRAIN |
|--------------|---------|----------------------------|----------------------------|
| 1/4" 3/8" | With | B01-221-A3L B01-321-A3L | B01-221-M3L B01-321-M3L |
| 1/4" 3/8" | Without | B01-200-A3L B01-300-A3L | B01-200-M3L B01-300-M3L |

* available with 25 Micron and 5 Micron elements

**for 50 psi adjustable range substitute "E" in 9th position of product number. For 175 psi adjustable range substitute "N" in 9th position of model number.

ACCESSORIES

Bowl guard 5176-02

Mounting Bracket 5203-01

| Gauges | | |
|---|------------|------------|
| Black metal case with plastic crystal, center-back 1/4" connection. Dual scale. | 0-160 psig | 18-013-209 |
| | 0-300 psig | 18-013-210 |

NORGREN
LITTLETON, COLORADO ©

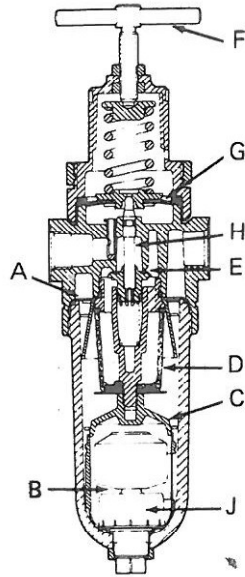


OPERATION

Flow through the directional louvers (A) forces air into a swirling pattern. Liquids and heavy solids in the air stream are directed away from the filter element and held against the inside of the bowl by centrifugal force. They move down the bowl wall into the quiet zone (B) below the baffle. The baffle (C) maintains the quiet zone in the lower part of the bowl to prevent air turbulence from picking up the liquid and returning it to the air stream. Air then flows inward and passes through the filter element (D) which further cleans the air and removes the fine solids.

Clean air flows from the filter element directly to the regulator valve (E). Desired secondary pressure is adjusted by adjusting screw (F). The secondary pressure is sensed by the diaphragm assembly (G) which moves the valve pin (H) opening or closing the regulator valve to maintain the desired outlet pressure.

Liquids accumulated in the filter quiet zone are drained off through the manual drain (J) or an automatic drain.



PARTS

REPAIR KIT

| | |
|--|---------|
| Non-Relieving (25 & 50 Micron) | 5304-01 |
| Non-Relieving (5 Micron) | 5304-02 |
| Relieving (25 & 50 Micron) | 5304-03 |
| Relieving (5 Micron) | 5304-04 |

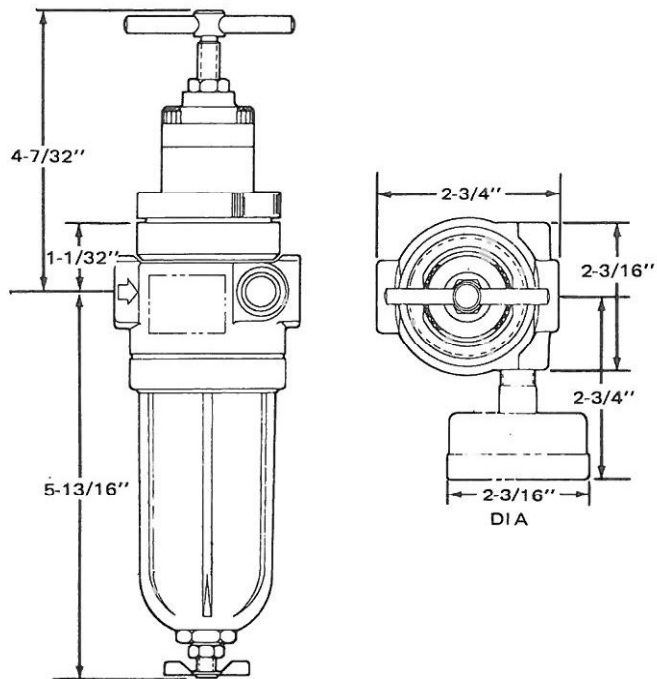
Filter Element (kit includes gaskets):

| | |
|---------------------|---------|
| 5 Micron | 3161-04 |
| 25 Micron | 3161-02 |
| 50 Micron | 3161-03 |

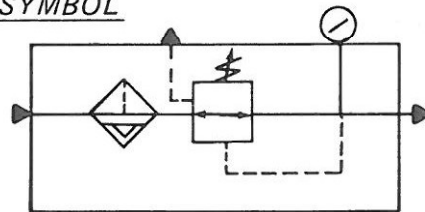
APPLICATION

The B01 filter/regulator combination unit is designed for general applications in compressed air systems where effective filtration as well as controlled pressure is required. For gases other than compressed air, or where the component is part of a life support system consult your Norgren Distributor for factory approval.

DIMENSIONS



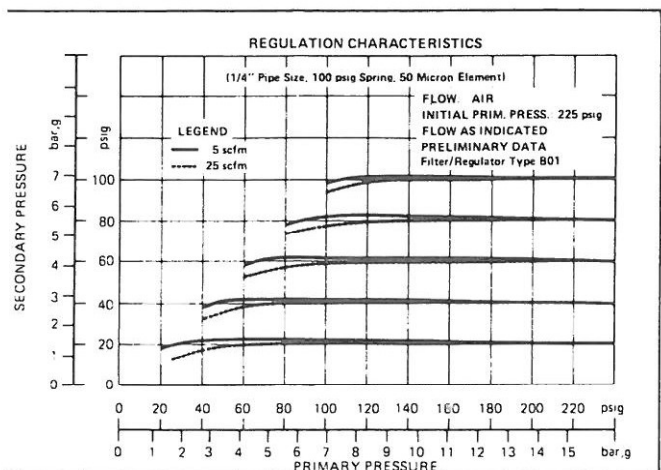
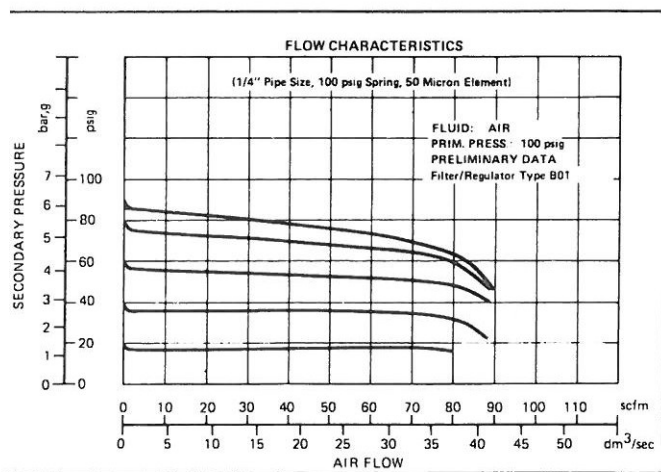
GRAPHIC SYMBOL



CAUTION

THIS FILTER/REGULATOR MUST NOT BE USED WHERE PRESSURE OR TEMPERATURE MAY EXCEED MAXIMUM RECOMMENDED OPERATING CONDITIONS. AVOID EXPOSURE TO MATERIALS NOT COMPATIBLE WITH POLYCARBONATE. SEE NIP-404. USE ONLY CLEAN WARM WATER OR KEROSENE TO CLEAN POLYCARBONATE BOWLS.

PERFORMANCE CHARACTERISTICS



C. A. NORGREN CO.

LITTLETON, COLORADO

80120 / 303-794-2611

Copyright © 1973, C.A. NORGREN CO.

Printed in U.S.A.