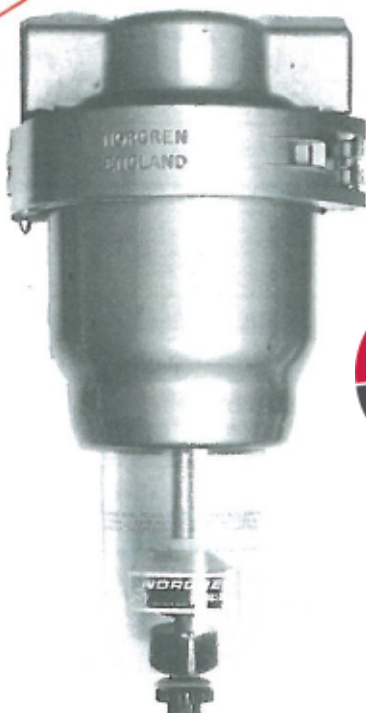


# IMI

*OBSOLETE*  
*31-7-85.*

# NORGREN



**OBSOLETE  
DOCUMENT**  
Technical  
Reference  
Only

GENERAL PURPOSE FILTERS

## SERIES 30BE & 30CG

3/4 - 1 1/2 PORT SIZES

### FEATURES

- General application for larger air flows.
- Directional louvres improve centrifugal action to remove moisture and oil emulsions.
- Large filter element minimises pressure drop.
- Interchangeable automatic or manual drain.
- Hinged clamp ring simplifies maintenance.
- Automatic - Drain operates under FLOW and NO - FLOW conditions.

### SPECIFICATIONS

**PORT SIZES:** G<sup>3</sup>/<sub>4</sub>, G1, G1<sup>1</sup>/<sub>4</sub>, G1<sup>1</sup>/<sub>2</sub>

Standard port threads are to ISO 1179 interchangeable with B.S.P. Parallel to BS 2779. Alternative threads must be specified.

**BOWLS:** CLEAR TRANSPARENT PLASTIC (Standard)  
METAL (Optional)

**FILTER ELEMENTS:**

50 MICROMETRE SINTERED BRONZE (Standard)  
25 and 5 MICROMETRE SINTERED BRONZE OR  
74 MICROMETRE MONEL WIRE SCREEN (Optional)

**MAXIMUM PRESSURE:**

Transparent Bowl: 10 bar (150 p.s.i.)  
Metal Bowl: 16 bar (250 p.s.i.)

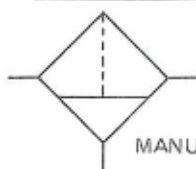
**MINIMUM OPERATING PRESSURE FOR  
AUTOMATIC MODELS:** 0.4 bar (5 p.s.i.)

**MAXIMUM TEMPERATURE:**

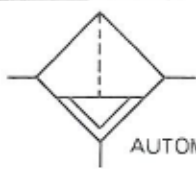
Transparent Bowl: 50°C (120°F)  
Metal Bowl: 80°C (175°F)

**AUTOMATIC OR MANUAL-DRAIN**

### INTERNATIONAL PNEUMATIC SYMBOLS



MANUAL DRAIN



AUTOMATIC DRAIN

## ORDER TABLE

| BOWL<br>TYPE    | DRAIN<br>TYPE | †PORT<br>SIZE                  | FILTER ELEMENT |               |              |               |
|-----------------|---------------|--------------------------------|----------------|---------------|--------------|---------------|
|                 |               |                                | STANDARD       | OPTIONAL      |              |               |
|                 |               |                                | 50 MICROMETRE  | 25 MICROMETRE | 5 MICROMETRE | 74 MICROMETRE |
| TRANSPARENT     | MANUAL        | G <sup>3</sup> / <sub>4</sub>  | 30BE-6         | 30BE-6 (25)   | 30BE-6 (5)   | 30BE-6 (74)   |
|                 |               | G1                             | 30BE-8         | 30BE-8 (25)   | 30BE-8 (5)   | 30BE-8 (74)   |
|                 |               | G1 <sup>1</sup> / <sub>4</sub> | 30BE-10        | 30BE-10 (25)  | 30BE-10 (5)  | 30BE-10 (74)  |
|                 |               | G1 <sup>1</sup> / <sub>2</sub> | 30BE-12        | 30BE-12 (25)  | 30BE-12 (5)  | 30BE-12 (74)  |
|                 | AUTOMATIC     | G <sup>3</sup> / <sub>4</sub>  | 30CG-6         | 30CG-6 (25)   | 30CG-6 (5)   | 30CG-6 (74)   |
|                 |               | G1                             | 30CG-8         | 30CG-8 (25)   | 30CG-8 (5)   | 30CG-8 (74)   |
|                 |               | G1 <sup>1</sup> / <sub>4</sub> | 30CG-10        | 30CG-10 (25)  | 30CG-10 (5)  | 30CG-10 (74)  |
|                 |               | G1 <sup>1</sup> / <sub>2</sub> | 30CG-12        | 30CG-12 (25)  | 30CG-12 (5)  | 30CG-12 (74)  |
| OPTIONAL MODELS |               |                                |                |               |              |               |
| METAL           | MANUAL        | G <sup>3</sup> / <sub>4</sub>  | 30BE-N6        | 30BE-N6 (25)  | 30BE-N6 (5)  | 30BE-N6 (74)  |
|                 |               | G1                             | 30BE-N8        | 30BE-N8 (25)  | 30BE-N8 (5)  | 30BE-N8 (74)  |
|                 |               | G1 <sup>1</sup> / <sub>4</sub> | 30BE-N10       | 30BE-N10 (25) | 30BE-N10 (5) | 30BE-N10 (74) |
|                 |               | G1 <sup>1</sup> / <sub>2</sub> | 30BE-N12       | 30BE-N12 (25) | 30BE-N12 (5) | 30BE-N12 (74) |
|                 | AUTOMATIC     | G <sup>3</sup> / <sub>4</sub>  | 30CG-N6        | 30CG-N6 (25)  | 30CG-N6 (5)  | 30CG-N6 (74)  |
|                 |               | G1                             | 30CG-N8        | 30CG-N8 (25)  | 30CG-N8 (5)  | 30CG-N8 (74)  |
|                 |               | G1 <sup>1</sup> / <sub>4</sub> | 30CG-N10       | 30CG-N10 (25) | 30CG-N10 (5) | 30CG-N10 (74) |
|                 |               | G1 <sup>1</sup> / <sub>2</sub> | 30CG-N12       | 30CG-N12 (25) | 30CG-N12 (5) | 30CG-N12 (74) |

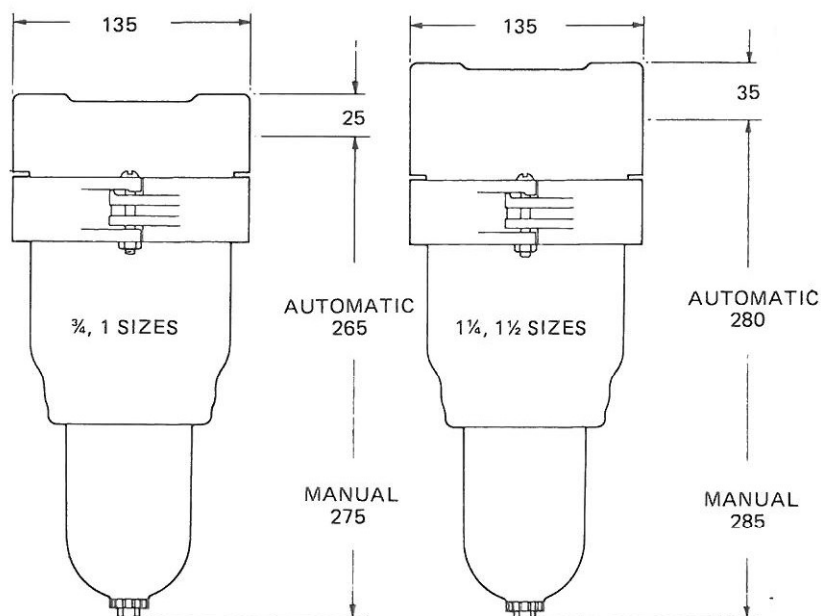
† 1<sup>1</sup>/<sub>2</sub> Models are 1<sup>1</sup>/<sub>4</sub> units tapped 1<sup>1</sup>/<sub>2</sub> for use with 1<sup>1</sup>/<sub>2</sub>" o.d. copper pipe fittings.

For air flows reaching the maximum for 1<sup>1</sup>/<sub>2</sub> pipe order Series 12-063.

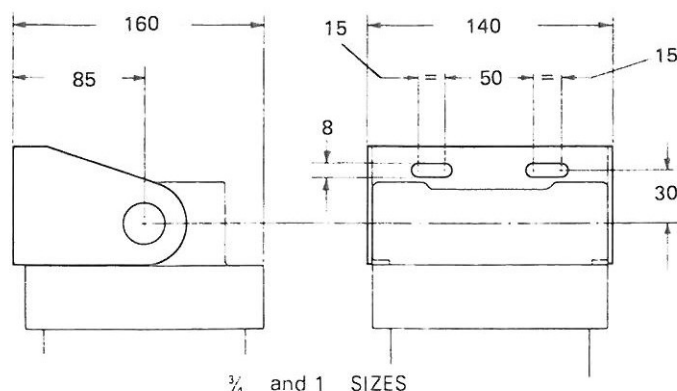
### DIMENSIONS (mm)

### ACCESSORIES AND REPAIR KITS

|                                                                                                                                                                                                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>MOUNTING BRACKET</b><br>For use on any vertical surface.<br>For ¾ size 18-001-033 (W-86)<br>For 1 size 18-001-034 (W-88)                                                                                                            |  |
| <b>BOWL GUARD KIT</b><br>(includes special intermediate body)<br>Expanded metal cage gives positive protection yet allows visibility of bowl contents. 18-012-995                                                                      |  |
| <b>CONVERSION KITS</b><br>Convert manual-drain filters to automatic-drain types.<br>For Transparent Bowl Types 3600-98                                                                                                                 |  |
| <b>REPAIR KIT</b> (includes 50 micrometre filter element — specify if alternative element required)<br>Automatic-Drain Models<br>¾, 1 30CG-8-120<br>1¼, 1½ 30CG-12-120<br>Manual-Drain Models<br>¾, 1 30BE-8-100<br>1¼, 1½ 30BE-12-100 |  |



### MOUNTING DIMENSIONS (mm)



¾ and 1 SIZES

## OPERATION

The air flow passes from the inside to the outside of a filter element (A) to remove solid contaminants. It then passes through directional louvres (B) which force it into a whirling flow pattern. Liquid particles are thrown against the inside wall of the intermediate body (C) by centrifugal force, and run down into the bottom of the bowl. The baffle (D) maintains a quiet zone which prevents air turbulence from picking up the liquid and returning it to the air stream. On manual-drain models liquid is removed by opening the manual draincock (E). On automatic-drain models the liquid is automatically dumped when it reaches a predetermined level. The mechanism is contained in a sealed unit (F) and is designed to open even when no air pressure is in the line, permitting overnight draining.

