



# AIR PREPARATION UNITS

## FILTER Series F3

Cat No F3 - 01 - 01 - A

### AIR FILTER - G1/4" & G1/2"

#### Features

- ☐ Conforms to ISO 5782 -1
- ☐ Clean design
- ☐ Suitable for modular mounting
- ☐ Quick release of bayonet type bowl guard
- ☐ Screw type Manual drain for easy operation
- ☐ Bronze & Polyethylene filtering element
- ☐ Separator for efficient moisture separation
- ☐ Inbuilt service indicator turns from Green to Red when ( $\Delta P > 1$  bar)
- ☐ High flow rate
- ☐ Increased bowl capacity



#### Function

Filter cleans the compressed air of impurities and condensate.

The air enters the inlet port and is directed into the louvers which centrifugally separate the entrained liquids and dirt which fall to the bottom of the bowl. The air, now free of water droplets and large dirt particles, passes through the filter element which removes small dirt particles.

#### Technical Specifications

| Model                         | F33...                                                                                        |      |      |      | F35...        |      |      |  |
|-------------------------------|-----------------------------------------------------------------------------------------------|------|------|------|---------------|------|------|--|
| Medium                        | Compressed air                                                                                |      |      |      |               |      |      |  |
| Port Size                     | G1/4                                                                                          |      |      |      | G1/2          |      |      |  |
| Filtration # (µm)             |                                                                                               | 1    | 5    | 25   | 40 (Standard) | 50   | 100  |  |
| Flow rate @ (lts/min)         | G1/4                                                                                          | 700  | 700  | 850  | 900           | 950  | 1000 |  |
|                               | G1/2                                                                                          | 2300 | 2700 | 3300 | 3500          | 3600 | 3700 |  |
| Maximum supply pressure (bar) | 10                                                                                            |      |      |      |               |      |      |  |
| Ambient temperature (C)       | -10° to +50°                                                                                  |      |      |      |               |      |      |  |
| Medium temperature (C)        | +5° to +50°                                                                                   |      |      |      |               |      |      |  |
| Bowl capacity (ml)            | 17                                                                                            |      |      |      | 50            |      |      |  |
| Bowl material                 | Polycarbonate                                                                                 |      |      |      |               |      |      |  |
| Bowl guard material           | Plastic                                                                                       |      |      |      |               |      |      |  |
| Installation                  | Vertical (As in the picture)                                                                  |      |      |      |               |      |      |  |
| Material of construction      | Die cast Aluminium, Bronze, Acetal, Polycarbonate, Nitrile, polyamide, Stainless steel, Steel |      |      |      |               |      |      |  |
| Optional accessories *        | Clamp, Modular mounting kit                                                                   |      |      |      |               |      |      |  |
| Weight (kg)                   | 0.19                                                                                          |      |      |      | 0.65          |      |      |  |

@ - Supply pressure 6.3 bar, Pressure drop  $\Delta p = 0.32$  bar as per ISO standard ( For standard models )

# - For details see "How to order"

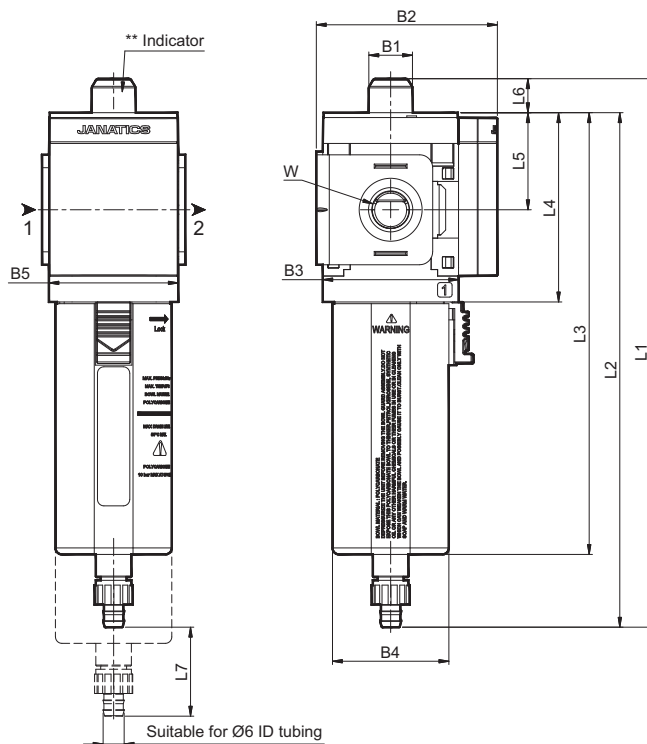
\* - For details refer optional accessories Cat No APA- 01 - 05 - A

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Cat No F3 - 01 - 01 - A

### Model F33... & F35...

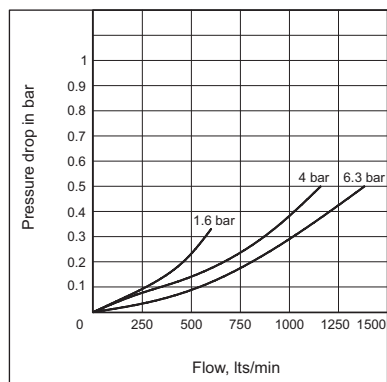


| Model   | W    | L1    | L2  | L3  | L4   | L5   | L6   | L7 | B1    | B2   | B3 | B4   | B5 |
|---------|------|-------|-----|-----|------|------|------|----|-------|------|----|------|----|
| F33.... | G1/4 | 169.5 | 159 | 137 | 58.5 | 30   | 10.5 | 25 | Ø13.5 | 55.5 | 42 | SQ36 | 40 |
| F35.... | G1/2 | 235   | 217 | 196 | 89.5 | 45.5 | 18   | 30 | Ø22   | 77.5 | 62 | SQ56 | 62 |

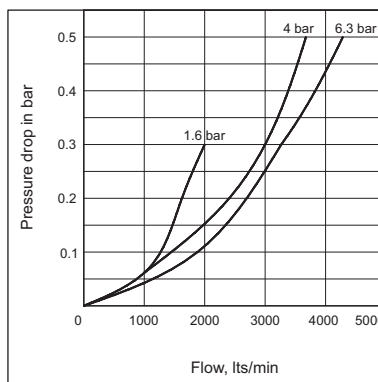
For details of clamp see optional accessories Cat No APA - 01 - 05 - A

### Flow Graph

1/4" FILTER



1/2" FILTER



Flow graphs are for 40µm filtrations only.

### Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.
5. Polycarbonate bowls may get damaged if exposed to synthetic oils, thinner, solvents, trichloroethylene, kerosene or other aromatic hydrocarbons.

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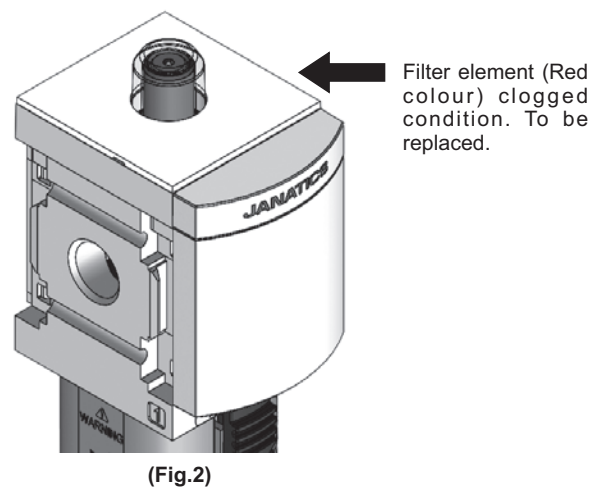
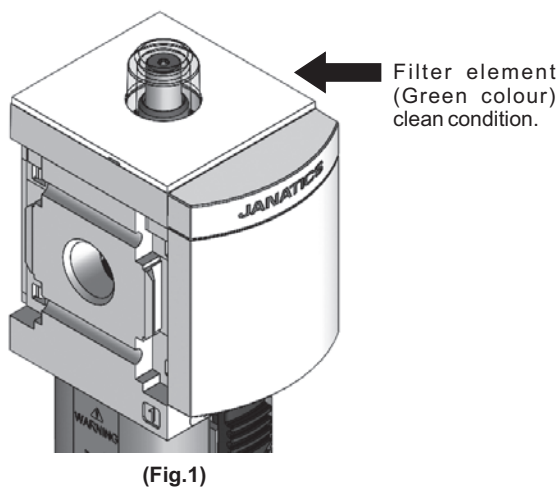
Cat No F3 - 01 - 01 - A

#### Warning

1. Bowl and Indicator cover are made of polycarbonate material and it cannot be used in the environments containing thinner, petrol, kerosene, synthetic oil or any other harmful chemicals.
2. Regularly monitor the bowl & Indicator cover. If any cracks or damages, it must be replaced with new one.

#### Cautions

1. Periodically drain the water so that it does not accumulate or clog the filter element.
2. Performance could be dropped if the filter element is clogged. Regularly inspect and replace the element.
3. If the bowl is heavily contaminated or its transparency has dropped, clean (or) replace with new bowl.
4. Clean (or) Replace the filter element before the differential indicator green colour (**Fig.1**) changes completely to red (**Fig 2**).



#### How to order

|                             |             |                           |                                                         |                                                     |                                 |
|-----------------------------|-------------|---------------------------|---------------------------------------------------------|-----------------------------------------------------|---------------------------------|
| <b>F3</b>                   | <b>361</b>  | <b>3</b>                  |                                                         | <b>M</b>                                            |                                 |
| <b>Body &amp; Port size</b> |             | <b>Filtration in (µm)</b> | <b>Filter element configuration</b>                     | <b>Drain arrangement</b>                            | <b>Accessories</b>              |
| <b>361</b>                  | 1/4" & G1/4 | <b>0</b> - 1              | <b>Nil</b> Sintered bronze material & Cylindrical shape | <b>M</b> Manual drain with threaded type drain plug | <b>Nil</b> without clamp        |
| <b>563</b>                  | 1/2" & G1/2 | <b>1</b> - 5              | <b>1</b> Plastic material & Cylindrical shape           |                                                     | <b>C2</b> with clamp (Standard) |
|                             |             | <b>2</b> - 25             |                                                         |                                                     |                                 |
|                             |             | <b>3</b> - 40 (Standard)  |                                                         |                                                     |                                 |
|                             |             | <b>4</b> - 50             |                                                         |                                                     |                                 |
|                             |             | <b>5</b> - 100            |                                                         |                                                     |                                 |

#### Ordering example:

Filter - 1/4 size ( with G1/4 port ) with 50µm, Plastic filter element material and Manual drain with Clamp :  
Ordering No: **F336141-M-C2**

If ordered as 1/4 Filter, our standard model **F33613-M**, with 40µm will be supplied.