

## AIR PREPARATION UNITS

### FILTER REGULATOR COMBINATION

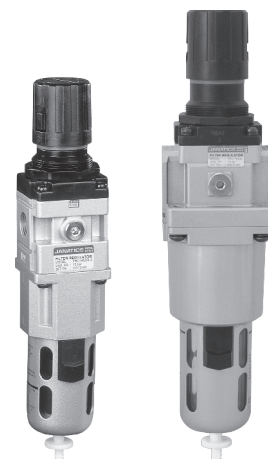
#### WITH INTERNAL AUTODRAIN - Series FRC1A

Cat No FRC1A - 01 - C

### FILTER REGULATOR COMBINATION WITH INTERNAL AUTODRAIN - 3/8, 1/2, 3/4, 1"

#### Features

- ☐ Modular type
- ☐ Suitable for panel mounting
- ☐ Filter
  - Bronze filtering element
  - Separator and shield for efficient moisture separation
  - Bayonet type steel bowl guard
- Internal Autodrain
  - Float type, no electrical connections required
  - Provided with manual drain
  - Provision for drain tube connection, to take the condensate away from the unit, to keep the working area clean
- ☐ Regulator
  - Diaphragm operated, relieving type
  - Pressure compensated by balanced poppet
  - Flow compensated ( with venturi ) for faster response
  - Non raising ' Press to lock ' adjusting knob for locking at any set pressure
- ☐ Good flow and regulating characteristics



#### Technical Specifications

| Model                                               | FRC14....A                                                   | FRC15....A | FRC17....A | FRC17....A |
|-----------------------------------------------------|--------------------------------------------------------------|------------|------------|------------|
| Medium                                              | Compressed air                                               |            |            |            |
| Port size                                           | G3/8                                                         | G1/2       | G3/4       | G1         |
| Pressure gauge port size                            | G1/8                                                         | G1/8       | G1/4       | G1/4       |
| Flow rate (lts / min) @                             | 1800                                                         | 3000       | 4250       | 5500       |
| Operating pressure (bar)                            | 2 - 10                                                       |            |            |            |
| Regulating pressure range # (bar)                   | 0.2 - 2, 0.2 - 4, 0.5 - 7, 0.5 - 10 (Standard)               |            |            |            |
| Ambient temperature                                 | +5° to +50° C                                                |            |            |            |
| Medium temperature                                  | +5° to +50° C                                                |            |            |            |
| Filtration # (µm)                                   | 1, 5, 25, 40 (Standard), 50, 100                             |            |            |            |
| Bowl capacity (ml)<br>(at maximum condensate level) | 35                                                           | 65         | 165        | 165        |
| Bowl material                                       | Polycarbonate                                                |            |            |            |
| Installation                                        | Vertical (as in the picture)                                 |            |            |            |
| Materials of construction                           | Aluminium, Bronze, Steel, Acetal, Polycarbonate, SS, Nitrile |            |            |            |
| Optional accessories *                              | Clamp, Modular mounting kit, Pressure Gauge                  |            |            |            |
| Weight (Kg)                                         | 0.74                                                         | 1.50       | 2.1        | 2.07       |

@ Supply pressure 7 bar, Set pressure 6 bar, Pressure drop  $\Delta p = 1$  bar (For standard models).

# For details see " How to order ".

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

#### Precautions

- Note the direction of flow before installation and connect piping accordingly.
- Flush pipings for dirt, dust, rust and other foreign particles.
- Install in clean atmosphere.
- 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.
- Polycarbonate bowls may get damaged and possibly fail if exposed to synthetic oils, thinner, solvents, trichloroethylene kerosene or other aromatic hydrocarbons.

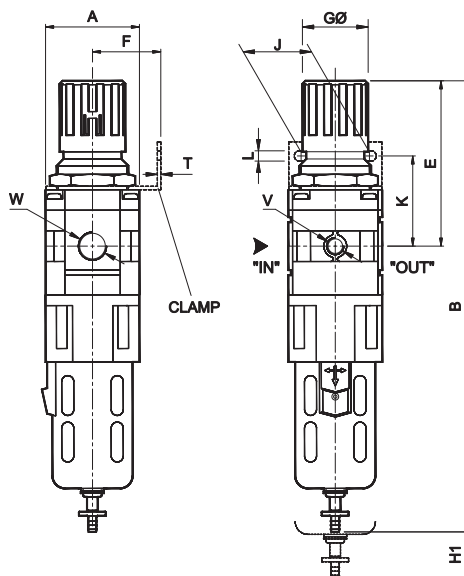
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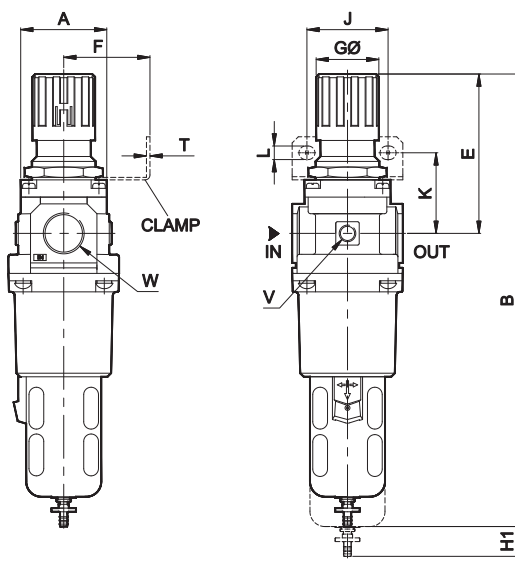
### WITH INTERNAL AUTODRAIN - Series FRC1A

Cat No FRC1A - 01 - C

Model FRC14...-A, FRC15...-A



Model FRC17...-A



| Model     | W    | V    | A     | B   | E   | K  | F  | GØ | J  | L   | T | H1 |
|-----------|------|------|-------|-----|-----|----|----|----|----|-----|---|----|
| FRC14...A | G3/8 | G1/8 | SQ 55 | 272 | 95  | 53 | 40 | 40 | 40 | 6.5 | 2 | 60 |
| FRC15...A | G1/2 | G1/8 | SQ 70 | 335 | 125 | 62 | 50 | 51 | 55 | 8.5 | 2 | 85 |
| FRC17...A | G3/4 | G1/4 | SQ 90 | 368 | 130 | 65 | 70 | 51 | 66 | 11  | 5 | 85 |
| FRC17...A | G1   | G1/4 | SQ 90 | 368 | 130 | 65 | 70 | 51 | 66 | 11  | 5 | 85 |

For Details of Clamp see optional accessories Cat No APA - 01 - C

### Pressure Setting

Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. ( Turning the knob counter clockwise will reduce the pressure )

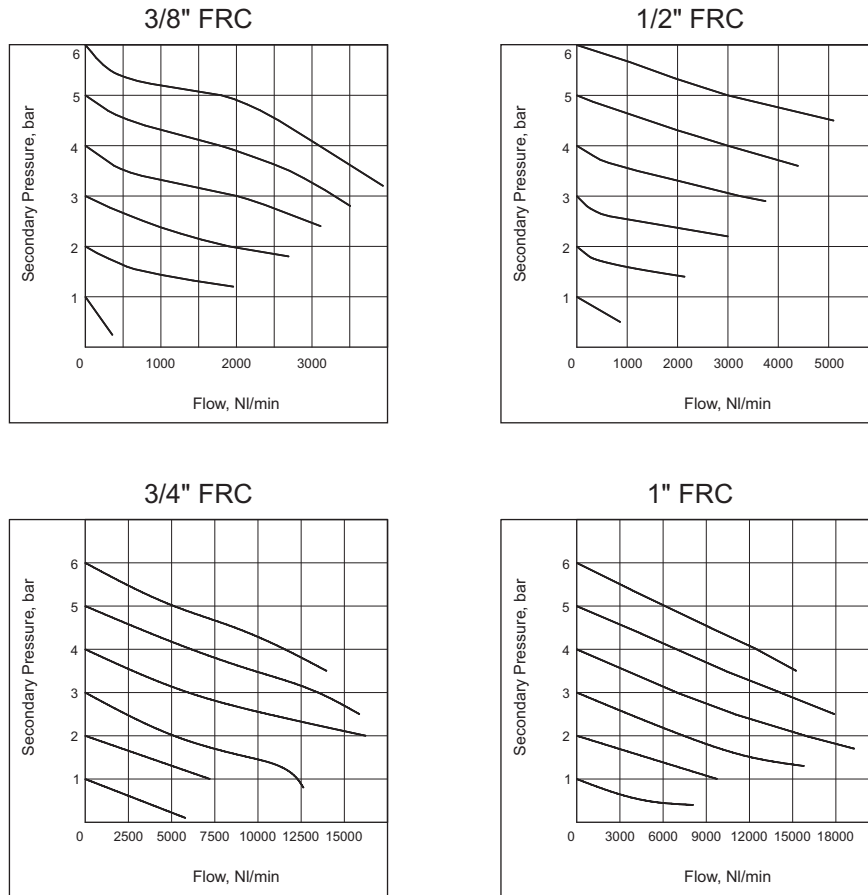
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Cat No FRC1A - 01 - C

### Flow Graphs



Flow graphs are for 40µm filtrations only.

### How to order

|                             |            |                         |                 |                       |                           |
|-----------------------------|------------|-------------------------|-----------------|-----------------------|---------------------------|
| <b>FRC1</b>                 | <b>462</b> | <b>3</b>                | <b>4</b>        | —                     | <b>A</b>                  |
| <b>Body &amp; Port size</b> |            | <b>Filtration in µm</b> |                 | <b>Pressure range</b> |                           |
| <b>462</b>                  | G3/8       | <b>0</b>                | - 1             | <b>1</b>              | 0.2 - 2 bar               |
| <b>563</b>                  | G1/2       | <b>1</b>                | - 5             | <b>2</b>              | 0.2 - 4 bar               |
| <b>764</b>                  | G3/4       | <b>2</b>                | - 25            | <b>3</b>              | 0.5 - 7 bar               |
| <b>765</b>                  | G1         | <b>3</b>                | - 40 (Standard) | <b>4</b>              | 0.5 - 10 bar (Standard)   |
|                             |            | <b>4</b>                | - 50            |                       |                           |
|                             |            | <b>5</b>                | - 100           |                       |                           |
|                             |            |                         |                 |                       | <b>Internal Autodrain</b> |

### Ordering example:

Filter Regulator Combination - 3/8 size (with G3/8 port) with a 5µm Filter, pressure range 0.5 - 7 bar with Internal Autodrain : Ordering No: **FRC146213 - A**

If ordered as 3/8 FRC with Internal Autodrain, our standard model **FRC146234 - A**, with a 40µm Filter, pressure range 0.5 - 10 bar with Internal Autodrain will be supplied.