

AIR PREPARATION UNITS

FRL MODULAR Series FRLM3

Cat No FRLM3W - 01 - 01 - A

FILTER - REGULATOR - LUBRICATOR, MODULAR - G1/4 & G1/2

Features

- ☐ Modular type for easy and fast maintenance
- ☐ Suitable for Modular mounting
- ☐ Clean design
- ☐ Filter
 - Inbuilt service indicator turns from green to red when ($\Delta p=1$ bar)
 - Separator for efficient moisture separation
 - Screw type manual drain for easy operation
 - Bronze & Polyethylene filtering element
 - Increased bowl capacity
- ☐ 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
 - Padlock provision is provided to secure the pressure setting values
 - Inbuilt flush type pressure gauge, it can be mounted at both ends & Inverted position
 - Built in non return valve allows free air flow in reverse direction
 - Quick release bayonet type bottom plug
- ☐ Lubricator
 - Mist type lubricator
 - Fine adjustment of lubrication
 - Lubrication proportional to flow
 - Quick and easy oil top-up even during operation (under pressure)
- ☐ Quick release bayonet type bowl guard
- ☐ Good flow and regulating characteristics

Model - with Wall mounting bracket



Model - with Bracket



Technical Specifications

Model	FRLM33...	FRLM35...
Medium	Compressed air	
Port size	G1/4	G1/2
Flow rate @ (lts/min)	700	3500
Working pressure range (bar)	0.8 to 10	
Regulating pressure range # (bar)	0.2 to 2, 0.2 to 4, 0.5 - 7, 0.5 - 8.5 (Standard)	
Ambient temperature ** C	-10° to +50°	
Medium temperature C	+5° to +50°	
Filtration # (μm)	1, 5, 25, 40 (Standard), 50, 100	
Minimum operating flow (lts/min)	40	75
Bowl capacity Filter (at maximum condensate level) (ml)	17	50
Bowl capacity Lubricator (at maximum oil level) (ml)	30	65
Recommended oil	ISO VG 32 (Servo System 32)	
Bowl material	Polycarbonate	
Bowl guard material	Plastic	
Installation	Vertical (as in the picture)	
Materials of construction	Die cast Aluminium, Brass, Steel, Polycarbonate, Nitrile, Polyamide, Stainless steel, Acetal, Bronze	
Optional accessories *	Clamp, Modular mounting kit	
Weight (kg)	0.69	2.13

@ - Supply pressure 10 bar, Set pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar as per ISO standard (For standard models)

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

- For details see "How to order"

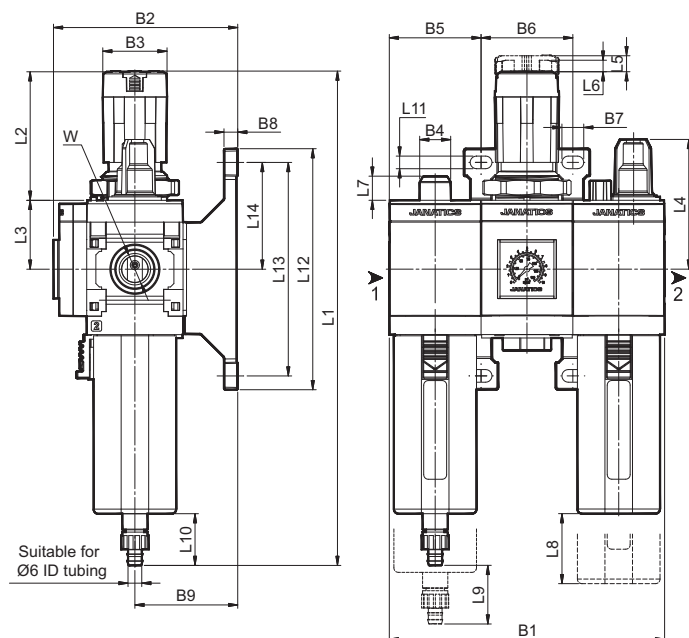
** - Ambient temperature +5° to +50°C for Pressure gauge and Pressure sensor model

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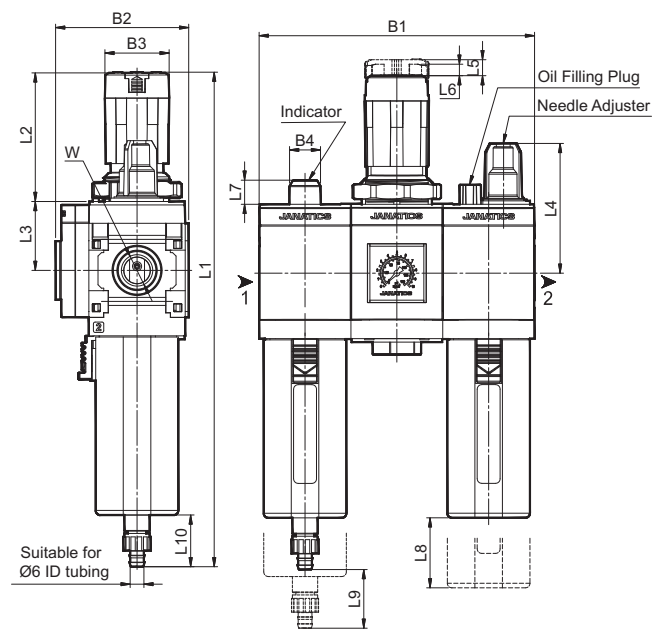
FRL MODULAR Series FRLM3

Cat No FRLM3W - 01 - 01 - A

Model FRLM3...-W



Model FRLM3...-B



Model FRLM3...-W

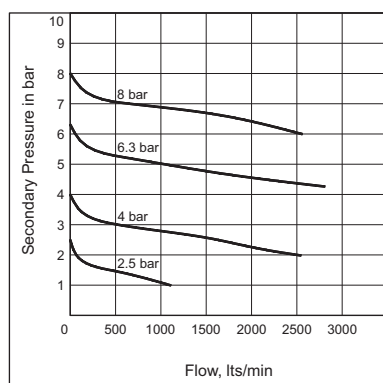
Model	W	B1	B2	B3	B4	B5	B6	B7	B8	B9	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
FRLM33...-W	G1/4	120	80	Ø28	Ø13.5	40	40	9.5	6	45	215	56	30	56.5	7	5	10.5	35	25	22	5.5	105	93	46.5
FRLM35...-W	G1/2	186	97	Ø42.5	Ø22	62	62	10	7.5	52.5	302	84	45.5	70.5	7	5	18	50	30	21	6.5	158	142	71

Model FRLM3...-B

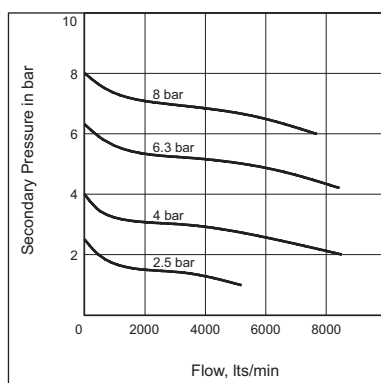
Model	W	B1	B2	B3	B4	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
FRLM33...-B	G1/4	120	58	Ø28	Ø13.5	215	56	30	56.5	7	5	10.5	35	25	22
FRLM35...-B	G1/2	186	77.5	Ø42.5	Ø22	302	84	45.5	70.5	7	5	18	50	30	21

Flow Graph

1/4" FRLM



1/2" FRLM



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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 and possibly fail if exposed to synthetic oils, thinner, solvents, trichloroethylene, kerosene or other aromatic hydrocarbons.

Pressure Setting

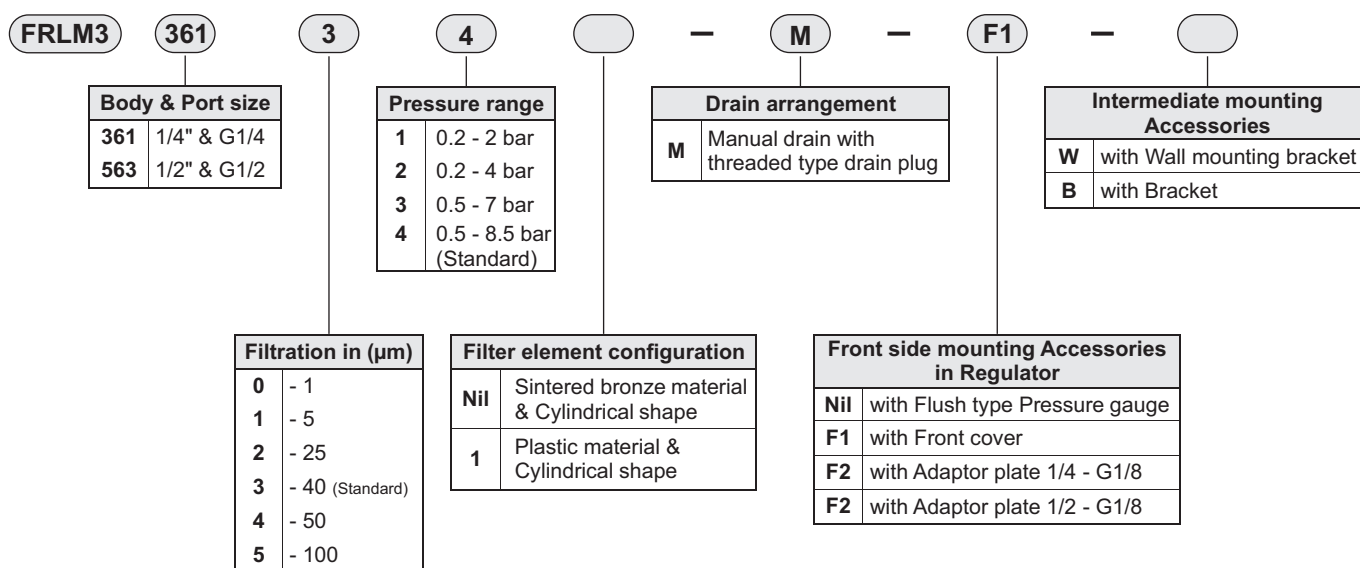
Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. (Turning the knob counter clockwise will reduce the pressure)

Caution and Warning

For caution and warning refer catalogue No:

- 1) F3 - 01- 01 for Filter
- 2) R3 - 01 - 01 for Regulator
- 3) L3 - 01 - 01 for Lubricator

How to order



Ordering example:

Filter Regulator Lubricator Modular - 1/4 size (with G1/4 port) with 5µm Filter and pressure range 0.5 - 7 bar, Plastic material filter element, with Front cover and with Bracket - **Ordering No : FRLM3361131-M-F1-B**

If ordered as FRLM 1/4 our standard model **FRLM336134-M-W**, with 40µm filter, pressure range 0.5 -10 bar and with Flush type pressure gauge, with wall mounting bracket will be supplied.