

AIR PREPARATION UNITS

FILTER REGULATOR COMBINATION Series FRC1

Cat No FRC1 - 01 - C

FILTER REGULATOR COMBINATION - 1/4, 3/8 (N/A), 1/2, 3/4, 1"

Features

- ❑ Modular type
- ❑ Suitable for panel mounting
- ❑ Filter
 - Bronze filtering element.
 - Separator and shield for efficient moisture separation.
- ❑ Regulator
 - Diaphragm operated, relieving type.
 - Pressure compensated by balanced poppet.
 - Flow compensated in models FRC 3/8", FRC1/2" & FRC1" (with venturi) for faster response.
 - Non raising ' Press to lock ' adjusting knob for locking at any set pressure.
- ❑ Steel bowl guard, bayonet type on FRC 1/4", FRC1/2" & FRC 3/4 & 1" models and threaded type on FRC1/4" model.
- ❑ Good flow and regulating characteristics.



Technical Specifications

Model	13810-00	N/A	13813-00	13815-00	N/A
Medium	Compressed air				
Port size	G1/4	G3/8	G1/2	G3/4	G1
Pressure gauge port size	G1/8	G1/8	G1/8	G1/4	G1/4
Flow rate (lts / min) @	550	1800	3000	4250	5500
Maximum supply pressure (bar)	10				
Regulating pressure range # (bar)	0.2 - 2, 0.2 - 4, 0.5 - 7, 0.5 - 10 (Standard)				
Ambient / Medium temperature	5° - 50° C				
Filtration # (µm)	5				
Bowl capacity (ml) (at maximum condensate level)	9	32	44	165	165
Bowl material	Polycarbonate				
Installation	Vertical (as shown in the picture)				
Materials of construction	Aluminium, Bronze, Brass, Steel, Acetal, Polycarbonate, SS, Nitrile				
Optional accessories *	Clamp, Modular mounting kit, Pressure gauge				
Weight (Kg)	0.30	0.58	1.27	2.09	2.05

@ Supply pressure 7 bar, Set pressure 6 bar, Pressure drop Δp = 1bar (For standard models)

For details see " How to order "

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

Precautions

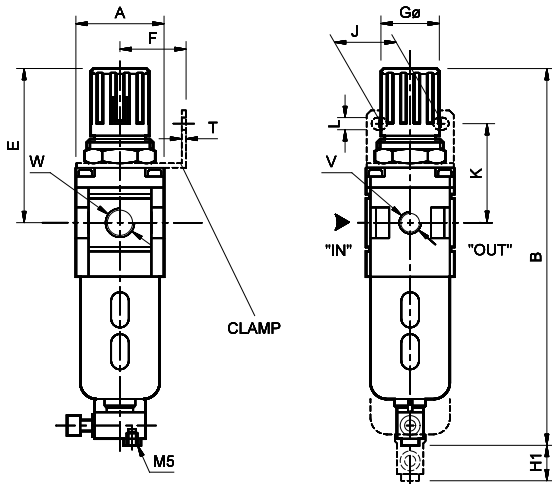
- Note the direction of flow before installation and connect piping accordingly.
- Flush pipings for dirt, dust, rust and other foreign particles.
- Install in clean atmosphere.
- Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples 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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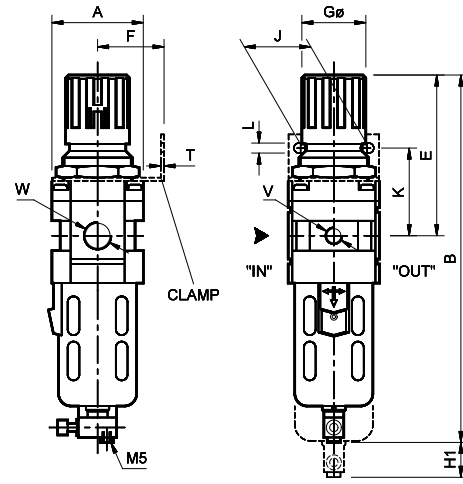
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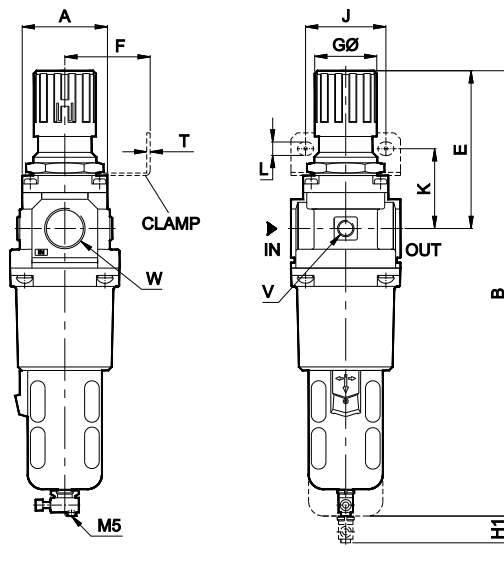
Model FRC1/4"



Model FRC3/8" & FRC1/2"



Model FRC1"



Model	W	V	A	B	E	K	F	GØ	J	L	T	H1
13810-00	G1/4	G1/8	SQ 40	170	68	45	30	28	28	5.5	2	50
N/A	G3/8	G1/8	SQ 55	220	95	53	40	40	40	6.5	2	55
13813-00	G1/2	G1/8	SQ 70	280	125	62	50	51	55	8.5	2	80
13815-00	G3/4	G1/4	SQ 90	370	130	65	70	51	66	11	5	80
N/A	G1	G1/4	SQ 90	370	130	65	70	51	66	11	5	80

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

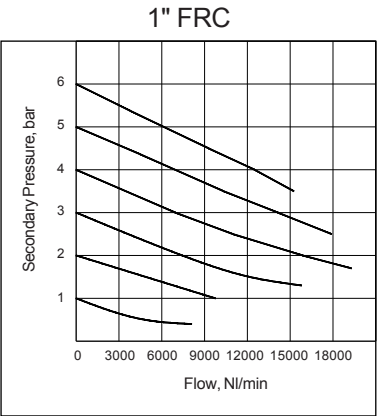
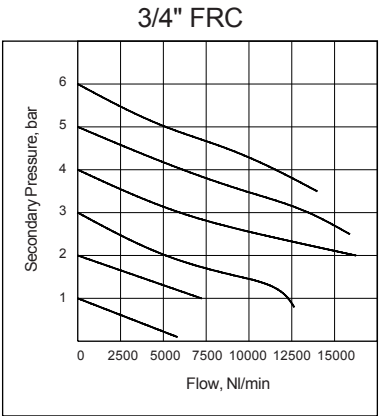
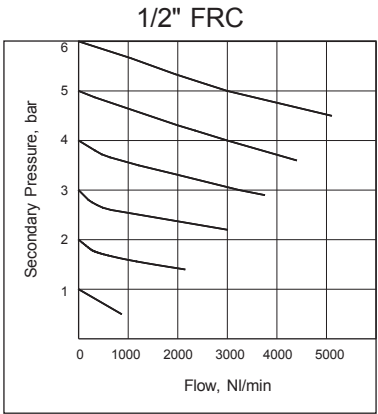
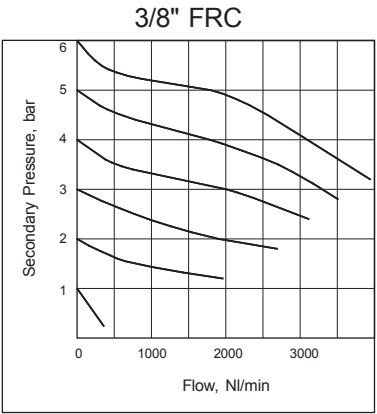
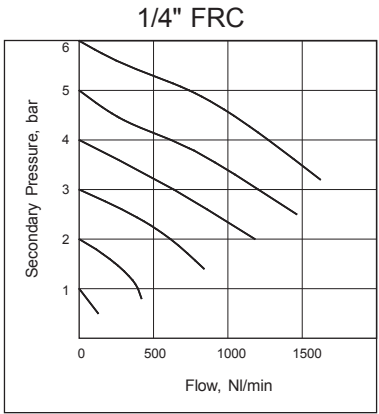
Pressure Setting

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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Flow Graphs



Flow graphs are for 40µm filtrations only