

FILTER REGULATOR COMBINATION Series FRC1

Cat No FRC1 - 01 - C

FILTER REGULATOR COMBINATION - 1/4, 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.
- □ Regulator Diaphragm operated, relieving type.
 - Pressure compensated by balanced poppet.
 - Flow compensated in models FRC14, FRC15 & FRC17 (with venturi) for faster response.
 - Non raising ' Press to lock ' adjusting knob for locking at any set pressure.
- □ Steel bowl guard, bayonet type on FRC14, FRC15 & FRC17 models and threaded type on FRC13 model.
- Good flow and regulating characteristics.

Model	FRC 13	FRC 14	FRC 15	FRC 17	FRC 17			
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 (Its / min) @	550	1800	3000	4250	5500			
Maximum supply pressure (bar)			10	1	1			
Regulating pressure range [#] (bar)	0.2 - 2, 0.2 - 4, 0.5 - 7, 0.5 - 10 (Standard)							
Ambient / Medium temperature	5° - 50° C							
Filteration [#] (µm)		1, 5, 2	25, 40 (standard), 5	0, 100				
Bowl capacity (ml) (at maximum condensate level)	9	32	44	165	165			
Bowl material	Polycarbonate							
Installation		Vertica	al (as shown in the p	picture)				
Materials of construction	Alum	ninium, Bronze, Bra	ass, Steel, Acetal, P	olycarbonate, SS, N	litrile			
Optional accessories *	Clamp, Modular mounting kit, Pressure gauge							
Weight (Kg)	0.30	0.58	1.27	2.09	2.05			
			1	1	1			

Technical Specifications

@ 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

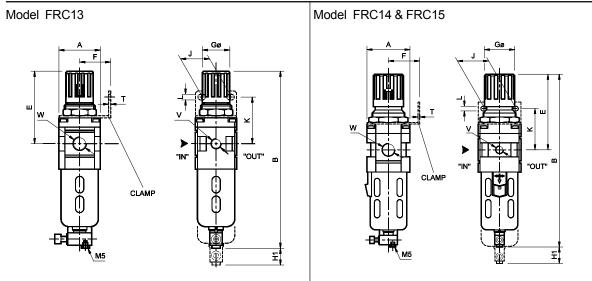
Precautions

- 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.

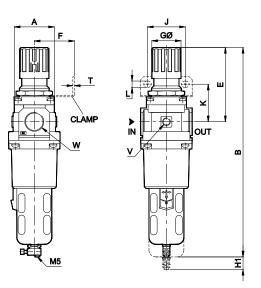




Cat No FRC1 - 01 - C



Model FRC17



Model	w	v	Α	в	Е	к	F	GØ	J	L	т	H1
FRC13	G1/4	G1/8	SQ 40	170	68	45	30	28	28	5.5	2	50
FRC14	G3/8	G1/8	SQ 55	220	95	53	40	40	40	6.5	2	55
FRC15	G1/2	G1/8	SQ 70	280	125	62	50	51	55	8.5	2	80
FRC17	G3/4	G1/4	SQ 90	370	130	65	70	51	66	11	5	80
FRC17	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

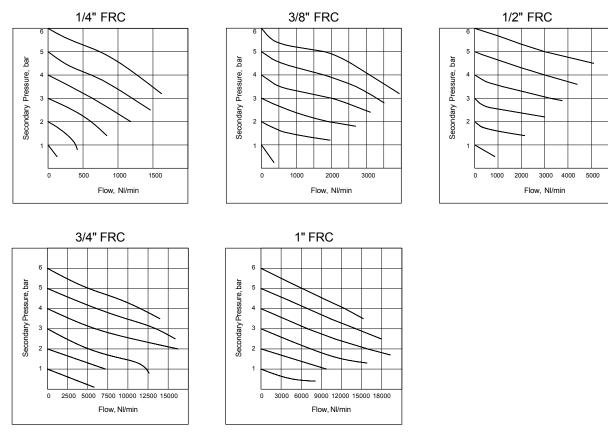
Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. (Turning the knob counter clockwise will reduce the pressure)



AIR PREPARATION UNITS FILTER REGULATOR COMBINATION Series FRC1

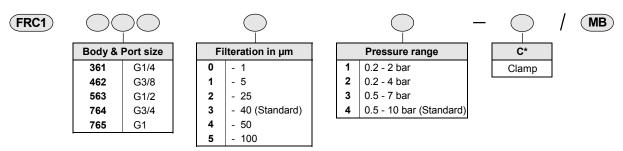
Cat No FRC1 - 01 - C

Flow Graphs



Flow graphs are for 40µm filterations only

How to order



Ordering example

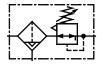
* Filter Regulator Combination with Clamp :-

Filter Regulator Combination - 3/8 size (with G3/8 port), 50 μ m filter and pressure range 0.5 - 7 bar with clamp Ordering No: FRC146243-C/MB

Filter Regulator Combination without Clamp :-

Filter Regulator Combination - 3/8 size (with G3/8 port), 50µm filter and pressure range 0.5 - 7 bar : Ordering No: **FRC146243/MB** If ordered as FRC 3/8 our standard model FRC146234, with 40µm filter and pressure range 0.5 - 10 bar will be supplied.





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	FRC14A	FRC15A	FRC17A	FRC17A				
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 (Its / 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 / Medium temperature		5° - 5	50° C					
Filteration [#] (µm)		1, 5, 25 , 40 (St	andard), 50, 100					
Bowl capacity (ml) (at maximum condensate level)	35	65	165	165				
Bowl material	Polycarbonate							
Installation		Vertical (as i	n the picture)					
Materials of construction	Alun	ninium, Bronze, Steel, Ace	etal, Polycarbonate, SS, I	Nitrile				
Optional accessories *		Clamp, Modular mount	ing 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

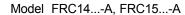
Precautions

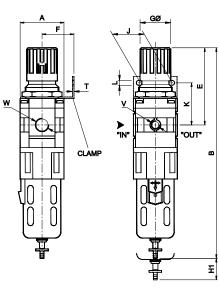
- 1. Note the direction of flow before installation and connect piping accordingly.
- 2. Flush pipings for dirt, dust, rust and other foreign particles.
- 3. Install in clean atmosphere.
- 4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening.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



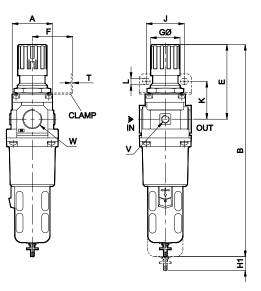
FILTER REGULATOR COMBINATION WITH INTERNAL AUTODRAIN - Series FRC1A

Cat No FRC1A - 01 - C





Model FRC17 ... - A



Model	w	v	Α	в	Е	к	F	GØ	J	L	т	H1
FRC14A	G3/8	G1/8	SQ 55	272	95	53	40	40	40	6.5	2	60
FRC15A	G1/2	G1/8	SQ 70	335	125	62	50	51	55	8.5	2	85
FRC17A	G3/4	G1/4	SQ 90	368	130	65	70	51	66	11	5	85
FRC17A	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

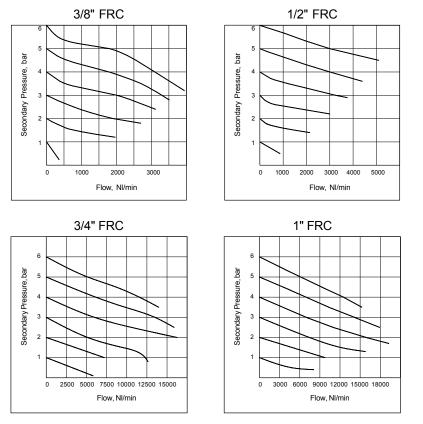
Pressure Setting

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)



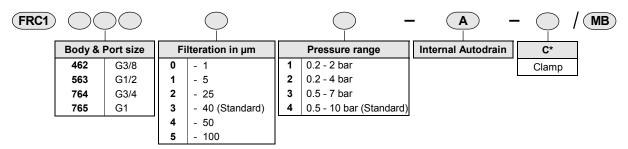
FILTER REGULATOR COMBINATION WITH INTERNAL AUTODRAIN - Series FRC1A

Flow Graphs



Flow graphs are for 40µm filterations only

How to order



Ordering example

* Filter Regulator Combination Internal Autodrain with Clamp :-

FRC Internal Autodrain - 3/8 size (with G3/8 port), 50µm filter and pressure range 0.5 - 7 bar with clamp

Ordering No: FRC146243-A-C/MB

* Filter Regulator Combination Internal Autodrain without Clamp :-

FRC Internal Autodrain - 3/8 size (with G3/8 port), 50µm filter and pressure range 0.5 - 7 bar : Ordering No: FRC146243-A/MB

If ordered as FRC 3/8 our standard model FRC 146234, with 40µm filter and pressure range 0.5 -10 bar will be supplied.

Cat No FRC1A - 01 - C



FILTER REGULATOR COMBINATION WITH METAL BOWL - Series FRC1M

Cat No FRC1M - 01 - C

FILTER REGULATOR COMBINATION with Metal Bowl - 1/4, 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.
 - Press type manual drain for easy operation
 - Suitable for automatic drain
- Regulator Diaphragm operated, relieving type.
 - Pressure compensated by balanced poppet.
 - Flow compensated
 - Non raising ' Press to lock ' adjusting knob
 - Aluminium bowl guard, bayonet type (3/4 and 1" only)
- Good flow and regulating characteristics.

Application

These type of filters are used for Chemical, Paintshops, Pharmaceutical, Foundry etc.

Technical Specifications

Model	FRC13M	FRC14M	FRC15M	FRC17M	FRC17M				
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 [@] (Its / min)	550	1800	3000	6000	6500				
Maximum supply pressure (bar)	20								
Regulating pressure range [#] (bar)	0.2 - 2, 0.2 - 4, 0.5 - 7, 0.5 - 10 (Standard)								
Ambient / Medium temperature	5° - 60° C								
Filteration [#] (µm)		1, 5, 2	25, 40 (standard), 50	0, 100					
Bowl capacity (ml) (At max. condensate level)	9	64	90	165	165				
Bowl material			Aluminium						
Installation		Vertica	al (as shown in the p	picture)					
Materials of construction		Aluminium, Bro	nze, Brass, Steel, A	cetal, SS, Nitrile					
Optional accessories *		Clamp, Modu	lar mounting kit, Pre	essure gauge					
Weight (Kg)	0.30	0.70	1.50	2.16	2.12				

(a) 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 AP1A - 01 - C

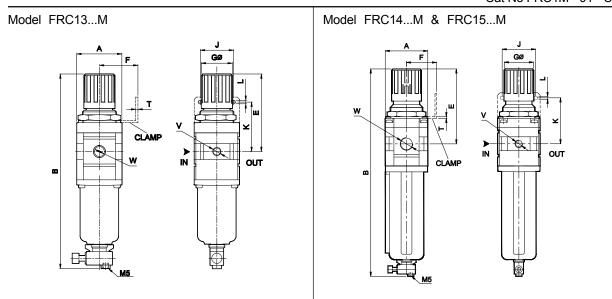
Precautions

- 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 with taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples with straight threads (G) to be used with sealing washer.

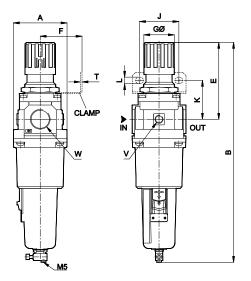


AIR PREPARATION UNITS FILTER REGULATOR COMBINATION WITH METAL BOWL - Series FRC1M

Cat No FRC1M - 01 - C



Model FRC17 ... - MM



Model	w	v	Α	В	Е	к	F	GØ	J	L	т
FRC13M	G1/4	G1/8	SQ 40	172	68	45	30	28	28	5.5	2
FRC14M	G3/8	G1/8	SQ 55	265	95	53	40	40	40	6.5	2
FRC15M	G1/2	G1/8	SQ 70	330	125	62	50	51	55	8.5	2
FRC17M	G3/4	G1/4	SQ 90	371	130	65	70	51	66	11	5
FRC17M	G1	G1/4	SQ 90	371	130	65	70	51	66	11	5

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

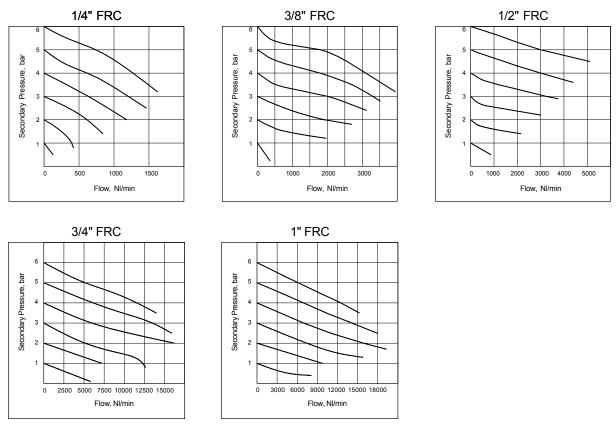
Pressure Setting

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)



FILTER REGULATOR COMBINATION WITH METAL BOWL - Series FRC1M Cat No FRC1M - 01 - C

Flow Graphs



Flow graphs are for $40\mu m$ filterations only

How to order

FRC1											/(MB
	Body & Port size		Filteration in µm		Pressure range		Metal bowl		Drain arrangement		C*	
	361 462 563	G1/4 G3/8 G1/2	0 1 2	- 1 - 5 - 25	1 2 3	0.2 - 2 bar 0.2 - 4 bar 0.5 - 7 bar	М	Without level indicator	M A*	Manual drain (Standard) Auto drain	Clamp	
	764 765	G3/4 G1	3 4	- 40 (Standard) - 50	-	0.5 - 10 bar (Standard)			* Auto Drain - G3/8, G1/2, G3/4 & G1 model only			
			5	- 100								

Ordering example

* Filter Regulator Combination Metal bowl with Clamp :-

FRC Metal bowl - 3/8 size (with G3/8 port), 50µm filter and pressure range 0.5 - 7 bar with clamp: Ordering No: FRC146243-MA-C/MB * Filter Regulator Combination Metal bowl without Clamp :-

FRC Metal bowl - 3/8 size (with G3/8 port), 50µm filter and pressure range 0.5 - 7 bar : Ordering No: FRC146243-MA/MB If ordered as FRC 3/8 our standard model FRC 146234, with 40µm Filter and pressure range 0.5 -10 bar will be supplied.

Subject to change