

FRCL MODULAR Series FRCLM1

Cat No FRCLM1 - 01 - 01

FILTER REGULATOR COMBINATION - LUBRICATOR, MODULAR 1/4 3/8 1/2

Features

- Modular type for easy and fast maintenance.
- Suitable for wall mounting.
- - Bronze filtering element.
 - Separator and shield for efficient moisture separation.
 - Press type manual drain for easy operation
- Regulator Diaphragm operated, relieving type.
 - Pressure compensated by Balanced poppet.
 - Flow compensated in models FRCLM14 and
 - FRCLM15 for faster response.
 - Non raising ' Press to lock ' adjusting knob for locking at any set pressure.
- Lubricator Fog / Mist type Lubricator.
 - Fine adjustment of lubrication.
- Steel bowl guard, bayonet type on FRCLM14 & FRCLM15 models and threaded type on FRCLM13 model.
- Good flow and regulating characteristics.

- Lubrication proportional to flow.

Model FRCLM1.../W



Model FRCLM1.../S



Technical Specifications

Model	FRCLM13/W	FRCLM13/S	FRCLM14/W	FRCLM14/S	FRCLM15/W	FRCLM15/W				
Medium	Compressed air									
Port size	G 1	G 1 / 4 G 3 / 8								
Pressure gauge port size	G 1	/ 8	G 1	/ 8	G 1	/8				
Flow rate lts / min @	50	00	12	50	28	800				
Max Supply pressure			10	bar						
Regulating Pressure Range #		0.2 - 2 bar, 0.2 - 4 bar, 0.5 - 7 bar, 0.5 - 10 bar (Standard)								
Ambient / Medium temperature	5° - 60° C									
Filteration #		5 μm, 25 μm, 40 μm (standard), 50 μm, 100 μm								
Min operating flow Its / min	1	2	4	.0	4	.5				
Bowl capacity Filter (at maximum condensate level)	9	ml	32	ml	44 ml					
Bowl capacity Lubricator (at maximum condensate level)	20	ml	57	ml	152	2 ml				
Recommended oil			ISO VG 32 (Se	rvo System 32)						
Bowl material	Polycarbonate									
Installation	Vertical (as shown in the picture)									
Materials of construction		Aluminium, Br	onze, Brass, Steel,	Acetal, Polycarbor	nate, SS, Nitrile					
Weight	0.54 Kg	0.51 Kg	1 Kg	0.95 Kg	2.01 Kg	1.92 Kg				
Optional accessories *	Pressure gauge									

- Supply pressure 7 bar , Set pressure 6 bar , Pressure drop Δ p = 1bar (For standard models) For details see " How to order "
- For details refer optional accessories Cat No. APA 01

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 doesnot 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

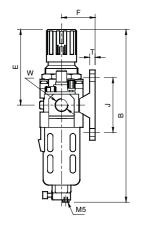
Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. (Turning the knob counter clockwise will reduce the pressure)

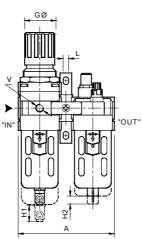


FRCL MODULAR Series FRCLM1

Cat No FRCLM1 - 01 - 01

Model FRCLM1.../W

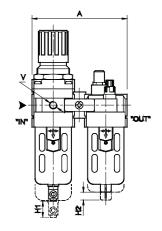




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Model FRCLM1.../S

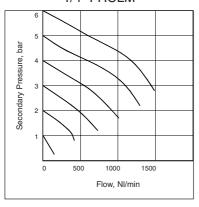


Model	W	٧	Α	В	Е	F	GØ	J	L	Т	H1	H2
FRCLM13/W	G1/4	G1/8	92	170	68	35	28	50	7	7	50	35
FRCLM14/W	G3/8	G1/8	124	220	95	45	40	70	7	7	55	45
FRCLM15/W	G1/2	G1/8	156	280	125	55	51	90	9	9	80	45

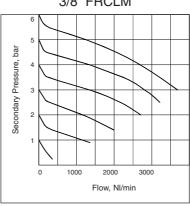
Model	W	٧	Α	В	Е	GØ	H1	H2
FRCLM13/S	G1/4	G1/8	92	170	68	28	50	35
FRCLM14/S	G3/8	G1/8	124	220	95	40	55	45
FRCLM15/S	G1/2	G1/8	156	280	125	51	80	45

Flow Graphs

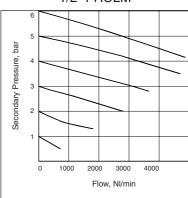
1/4" FRCLM



3/8" FRCLM



1/2" FRCLM



How to order

FRCLM1











Body & Port size

361 -- G1/4 462 -- G3/8 563 -- G1/2 Filteration in µm

5 µm

25 µm 3 --- 40 μm (Standard) 4 --- 50 μm

5 --- 100 μm

Pressure Range 1 -- 0.2 - 2 bar

2 -- 0.2 - 4 bar

3 -- 0.5 - 7 bar 4 -- 0.5 - 10 bar (Standard)

Mounting

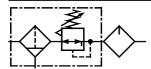
W - Wall mounting bracket

S - Spacer

Ordering example:

Filter Regulator Combination and Lubricator Modular - 3/8 size (with G3/8 port) and wall mounting bracket with 5µm Filter and pressure range 0.5 - 7 bar : Ordering No: FRCLM146213 / W.





FRCL MODULAR Series FRCLM1

Cat No FRCLM1 - 1 - 03 - 01

FILTER REGULATOR COMBINATION - LUBRICATOR, MODULAR - 3/4 & 1" SIZES

Features

- Modular type for easy and fast maintenance.
- Suitable for wall mounting.
- □ Filter Bronze filtering element.
 - Separator and shield for efficient moisture separation.
 - Press type manual drain for easy operation.
- □ 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.
- □ Lubricator Fog / Mist type Lubricator.
 - Fine adjustment of lubrication.
 - Lubrication proportional to flow.
- ☐ Steel bowl guard, bayonet type.
- Good flow and regulating characteristics.

Model FRCLM17.../W



Model FRCLM17.../S



Technical Specifications

Model	FRCLM 1764/W	FRCLM 1764/S	FRCLM 1765/W	FRCLM 1765/S				
Medium	Compressed air							
Port size	G	G3/4 G1						
Pressure gauge port size		G [.]	1/4					
Flow rate Its / min @	35	00	40	00				
Max Supply pressure		10	bar					
Regulating Pressure Range #	0.2 - 2	bar, 0.2 - 4 bar, 0.5 - 7	7 bar, 0.5 - 10 bar (Sta	andard)				
Ambient / Medium temperature	5° - 60° C							
Filteration #	1 μm, 5 μm, 25 μm, 40 μm (standard), 50 μm, 100 μm							
Min operating flow lts / min	50 50							
Bowl capacity Filter (at maximum condensate level)	165 ml							
Bowl capacity Lubricator (at maximum condensate level)	165 ml 165 ml							
Recommended oil	ISO VG 32 (Servo System 32)							
Bowl material	Polycarbonate							
Installation	Vertical (as shown in the picture)							
Materials of construction	Aluminium, Bronze, Brass, Steel, Acetal, Polycarbonate, SS, Nitrile							
Optional accessories *		Modular mounting	kit, Pressure gauge					
Weight	3.690	3.545	3.635	3.490				

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

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)

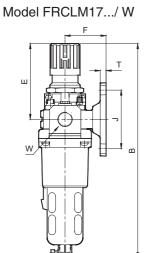
[#] For details see " How to order "

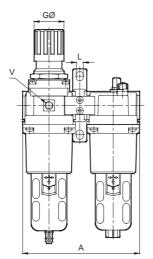
^{*} For details refer optional accessories Cat No. APA - 02

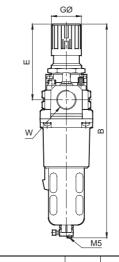


FRCL MODULAR Series FRCLM1

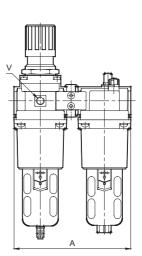
Cat No FRCLM1 - 1 - 03 - 01







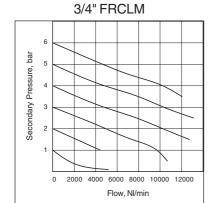
Model FRCLM17.../S

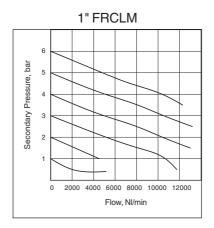


Model	W	V	Α	В	Е	F	GØ	J	L	Т
FRCLM17/W	G3/4	G1/4	200	370	130	70	51	100	12	10
FRCLM17/W	G1	G1/4	200	370	130	70	51	100	12	10

Model	W	V	Α	В	E	GØ
FRCLM17/S	G3/4	G1/4	200	370	130	51
FRCLM17/S	G1	G1/4	200	370	130	51

Flow Graphs





Flow graphs are for 40µm filterations only

How to order

FRCLM1

Body & Port size 764 -- G3/4

765 -- G1

Filteration µm

1 µm

5 µm 2 25 µm

3 40 µm (Standard) 50 µm

--- 100 μm 5

Pressure Range 1 -- 0.2 - 2 bar

2 -- 0.2 - 4 bar

3 -- 0.5 - 7 bar 4 -- 0.5 - 10 bar (Standard)

Mounting

W - Wall mounting bracket

S - Spacer

Ordering example: Filter Regulator Combination and Lubricator Modular - 3/4 size (with G3/4 port) and wall mounting bracket, with 5µm Filter and pressure range 0.5 - 7 bar : Ordering No : FRCLM 176413 / W.

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 doesnot 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. Subject to change