GFR

Specification

Model	GFR200-06	GFR200-08	GFR300-08	GFR300-10	GFR300-15	GFR400-10	GFR400-15	GFR600-20	GFR600-25
Fluid	Air								
Port size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtering grade	40 μ m or 5 μ m								
Pressure range	Semi-auto and automatic drain:0.15~0.9MPa(20~130psi);Manual drain:0.05~0.9MPa(7~130psi)								
Max. pressure	1.0MPa(145psi)								
Proof pressure	1.5MPa(215psi)								
Temperature range	–20~70℃								
Capacity of drain bowl	10CC		40CC			80CC		230CC	
Weight	220g		500g			1030g		2400g	

Ordering code

GFR200 08 M L □ □ F 1 W P K

Model
- GFR200: G200 Series filter-regulator
- GFR300: G300 Series filter-regulator
- GFR400: G400 Series filter-regulator
- GFR600: G600 Series filter-regulator

Port size

Model	Port size
GC200	06: 1/8"
	08: 1/4"
GC300	08: 1/4"
	10: 3/8"
	15: 1/2"
GC400	10: 3/8"
	15: 1/2"
GC600	20: 3/4"
	25: 1"

Drain type

Drain type	Adaptable product's series
Blank: Semi-auto drain	GFR200, GFR300
M: Manual drain	GFR400, GFR600
A: Automatic drain	GFR300, GFR400, GFR600

Type code
- Blank: Standard
- L: Lower pressure ①

Accessories
- Blank: Bracket
- J: No bracket

Pressure gauge
- Blank: Pressure gauge
- N: No pressure gauge

Pressure gauge shape
- F: Square
- C: Circular

Scale
- 1: MPa
- 2: psi
- 3: bar

Filtering grade
- Blank: 40 μ m
- W: 5 μ m

Thread type
- P: PT
- T: NPT
- G: G

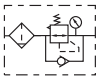
Code of reflux valve ②
- Blank: No reverse flow valve is attached
- K: Reverse flow valve is attached

① The maximum work pressure of lower pressure type is 0.4MPa(58psi). ② Please refer to page 148 for details of reflux valve.

Symbol

No reflux valve is attached

Reflux valve is attached

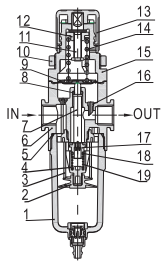


Product feature

1. Embedded square pressure gauge is used to save installation space. (External circular pressure gauge is also optional).
2. The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
3. Balanced design is adopted for the pressure adjustment mechanism.
4. In addition to standard type, lower pressure type is optional (The highest adjustable pressure is 0.4MPa).
5. Unique diversion structure spins the air flowing through to effectively sparate the liquid from the air and reliably filter the solid grain.
6. The filtering grade includes 5 μ m and 40 μ m (optional).
7. Three drain types are available: manual drain, semi-auto drain and automatic drain.
8. The bracket can be selected for installation.

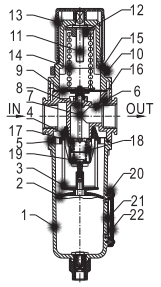
Inner structure and material of major parts

GFR200



Semi-Auto drain

GFR600



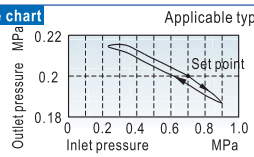
Semi-Auto drain

No.	Item	Material	
1	Drain bowl	Aluminum alloy(GFR600)\PC(others)	
2	Umbrella baffle	High viscosity POM	
3	Filter core	GFR600	Agglomerated by brass grain
		others 40 μ m	Agglomerated by brass grain
		others 5 μ m	Makrolon fiber
4	Air guider	High viscosity POM	
5	O-ring	NBR	
6	Body of filter-regulator	Aluminum alloy	
7	Adjusting spool	Brass (GFR600)\POM(others)	
8	O-ring	NBR	
9	Diaphragm	SUS304 & Rubber	
10	Fixation ring cap	Aluminum alloy(GFR600)\POM(others)	
11	Adjusting spindle	Steel	
12	Regulator nut	Steel	
13	Pressure knob	POM	
14	Spring	SWC	
15	Adjusting seat	Aluminum alloy(GFR600)\POM(others)	
16	Feedback tube	POM	
17	Adjusting plug	Brass & Rubber	
18	O-ring	NBR	
19	Spring	SUS304	
20	Liquid meter cover	SPCC	
21	Liquid meter seal	VITON	
22	Liquid meter inside	PC	

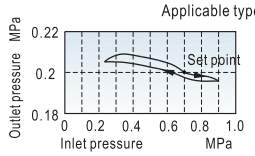
Pressure and feature of flow

Pressure chart

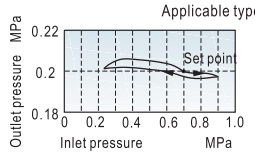
Applicable type: GFR200



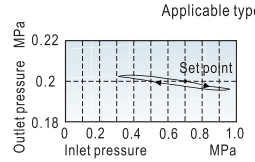
Applicable type: GFR300



Applicable type: GFR400

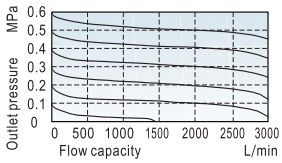


Applicable type: GFR600

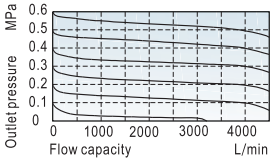


Flow chart

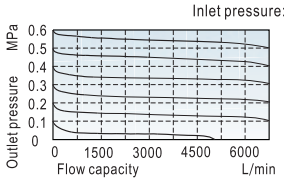
Applicable type: GFR200
Inlet pressure: 0.7MPa



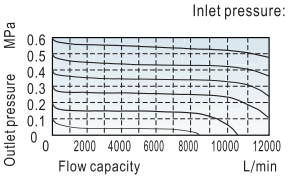
Applicable type: GFR300
Inlet pressure: 0.7MPa



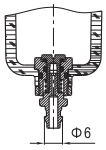
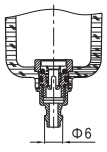
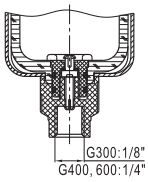
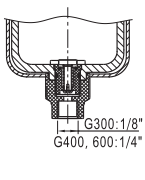
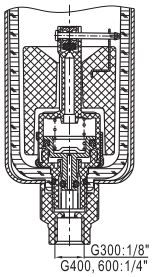
Applicable type: GFR400
Inlet pressure: 0.7MPa



Applicable type: GFR600
Inlet pressure: 0.7MPa

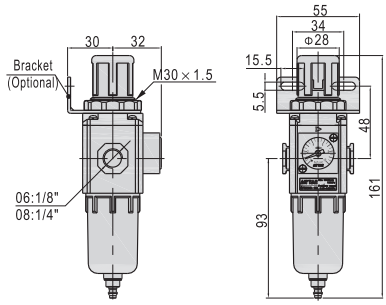


Selection of drain mode

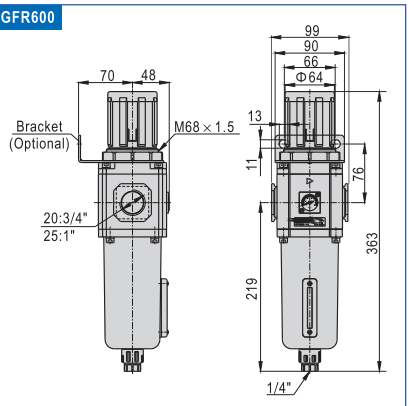
G200		G300\G400\G600		
Manual drain	Semi-auto drain	Manual drain	Semi-auto drain	Automatic drain
				
PU tube with an inner diameter of Φ5 or Φ5.5mm is recommended				

Dimensions

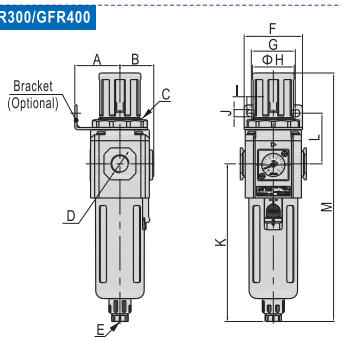
GFR200



GFR600



GFR300/GFR400



Model\Item	A	B	C	D	E	F
GFR300-08	41	31	M40x1.5	1/4"	1/8"	53
GFR300-10	41	31	M40x1.5	3/8"	1/8"	53
GFR300-15	41	31	M40x1.5	1/2"	1/8"	53
GFR400-10	50	40	M55x2.0	3/8	1/4"	72
GFR400-15	50	40	M55x2.0	1/2"	1/4"	72

Model\Item	G	H	I	J	K	L	M
GFR300-08	40	38	8	6.5	143	46	225.5
GFR300-10	40	38	8	6.5	143	46	225.5
GFR300-15	40	38	8	6.5	143	46	225.5
GFR400-10	52	52	11	8.5	166.5	53	270.5
GFR400-15	52	52	11	8.5	166.5	53	270.5

GFR