GAFR100 Series filter & regulator



Symbol

Reflux valve option is not available



Specification

Model	GAFR100M5	GAFR10006
Fluid	Air	
Port size [Note1]	M5	1/8"
Filtering grade	40μm or 5μm	
Pressure range	0.15~0.9MPa(20~130psi)	
Max. pressure	1.0MPa(145psi)	
Proof pressure	1.5MPa(215psi)	
Temperature range	-5~70°C(Unfreeze)	
Capacity of drain bowl	6CC	
Weight	80g	

[Note1] G thread is available.

Ordering code

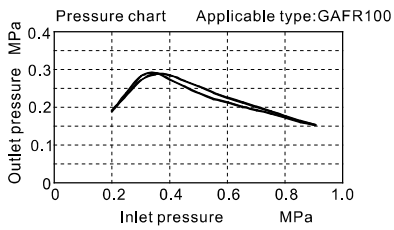
GAFR100 □ 06 □ S □ □ W G □

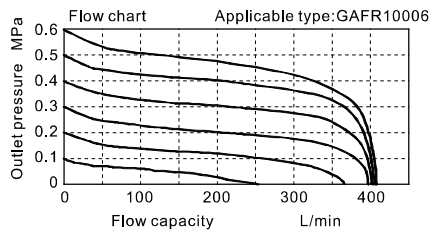
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

①Model	②Bowl material	③Port size	④Drain type	⑤Type code	⑥Accessories	⑦Pressure gauge	⑧Filtering grade	⑨Thread type [Note2]	⑩Code of reflux valve
GAFR100:GA100 Series Filter & regulator	Blank : PC	M5: M5 06: 1/8"	Blank: Semi-auto drain +Manual drain	S: Standard L: Lower pressure [Note1]	Blank: Bracket J: No bracket	Blank: Circular N: No gauge	Blank: 40μm W: 5μm	G: G (bar/MPa)	Blank: Reflux valve is not available

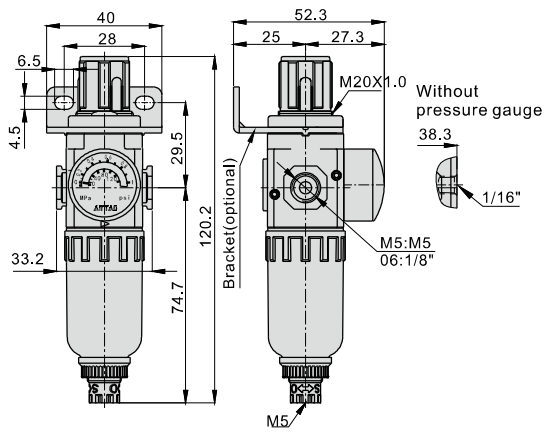
[Note1] The working pressure range of lower pressure type is 0.15~0.4MPa(20~58psi) ;
[Note 2] Thread type means connecting thread and scales of pressure gauge while port size is M5.

Pressure and Flow chart

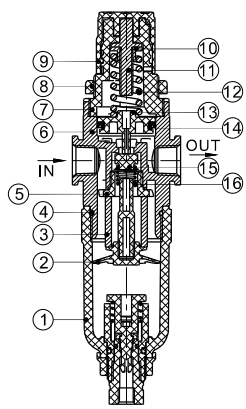




Dimensions



Inner structure



No.	Item	Material
1	Drain bowl	PC
2	Umbrella baffle	POM
3	Filter core	HDPE
4	O-ring	NBR
5	Air guider	POM
6	Body	Aluminum alloy
7	Adjusting seat	POM
8	Fixation ring cap	POM
9	Pressure knob	POM
10	Spindle nut	Steel
11	Adjusting spindle	08A
12	Spring	Spring Steel
13	Piston	POM
14	Piston O-ring	NBR
15	Adjusting plug	NBR
16	Spring	Stainless steel

GAFR Series filter & regulator

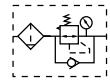


Symbol

No reflux valve is attached



Reflux valve is attached



Product feature

1. Circular square pressure gauge which with clip and magnifier is used to save installation space.
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. Unique diversion structure spins the air flowing through to effectively separate the liquid from the air and reliably filter the solid grain.
5. The filtering grade includes 5 μ m and 40 μ m (optional).
6. Two drain types are available: semi-auto drain and automatic drain.
7. Three material of bowl are available: PC, Nylon and metal.
8. The bracket can be selected for installation.

Specification

Model	GAFR200-06	GAFR200-08	GAFR300-08	GAFR300-10	GAFR300-15	GAFR400-10	GAFR400-15	GAFR500-20	GAFR600-20	GAFR600-25
Fluid	Air									
Port size [Note1]	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	3/4"	1"
Filtering grade	40 μ m or 5 μ m									
Pressure range	0.15~0.9MPa(20~130psi)									
Max. pressure	1.0MPa(145psi)									
Proof pressure	1.5MPa(215psi)									
Temperature range	-5~70°C(Unfreeze)									
Capacity of drain bowl	25CC		60CC			100CC		108CC	205CC	
Weight	290g		500g			880g		950g	1880g	

[Note1] G thread is available.

Ordering code

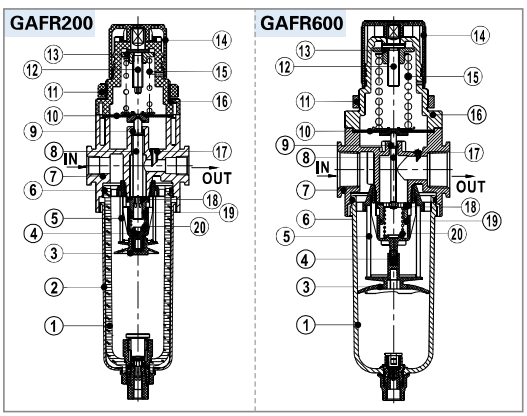
GAFR300 □ 10 □ S □ □ W G K

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

①Model	②Bowl material	③Port size	④Drain type	⑤Type code	⑥Accessories	⑦Pressure gauge	⑧Filtering grade	⑨Thread type	⑩Code of reflux valve
GAFR200:GA200 Series Filter & regulator	Blank: PC bowl C: Metal bowl N: Nylon bowl	06: 1/8" 08: 1/4"	Blank: Semi-auto drain +Manual drain A: Automatic drain	S: Standard L: Lower pressure [Note1]	Blank: Bracket J: No bracket	Blank: Circular N: No gauge [Note2]	Blank: 40μm W: 5μm	G: G Thread (bar/MPa)	Blank: No reverse flow valve is attached K: Reverse flow valve is attached [Note2]
GAFR300:GA300 Series Filter & regulator		08: 1/4" 10: 3/8" 15: 1/2"							
GAFR400:GA400 Series Filter & regulator		10: 3/8" 15: 1/2"							
GAFR500:GA500 Series Filter & regulator		20: 3/4"							
GAFR600:GA600 Series Filter & regulator	C: Metal bowl	20: 3/4" 25: 1"		S: Standard					

[Note1] The work pressure of lower pressure type is 0.15~0.4MPa(20~58psi) ; [Note2] Please refer to page 250 for details of sealing plate Installation and reflux valve.

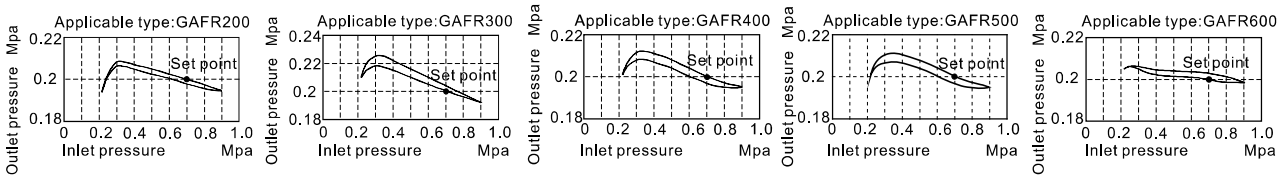
Inner structure



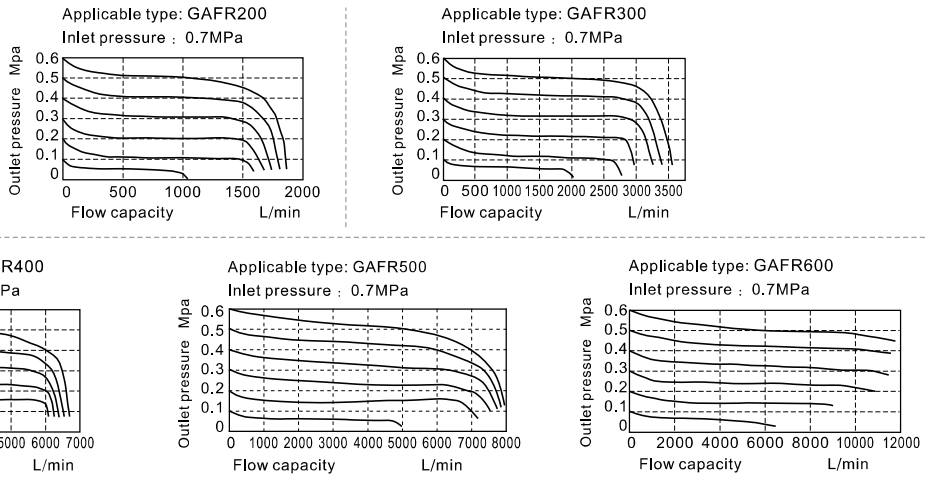
No.	Item	Material
1	Drain bowl	Aluminum alloy \ PC \ Nylon
2	Meter cover	SPCC
3	Umbrella baffle	High viscosity POM
4	Air guider	High viscosity POM
5	Filter core	HDPE
6	O-ring	NBR
7	Body of filter-regulator	Aluminum alloy
8	Adjusting spool	Brass(GAFR600)\POM(others)
9	O-ring	NBR
10	Diaphragm	NBR
11	Fixation ring cap	Aluminum alloy (GAFR600)\POM(others)
12	Adjusting spindle	08A
13	Regulator nut	Steel
14	Pressure knob	POM
15	Spring	SWPB
16	Adjusting seat	Aluminum alloy (GAFR600)\POM(others)
17	Feedback tube	POM
18	Adjusting plug	Brass & Rubber
19	O-ring	NBR
20	Spring	SWPB

GAFR Series filter & regulator

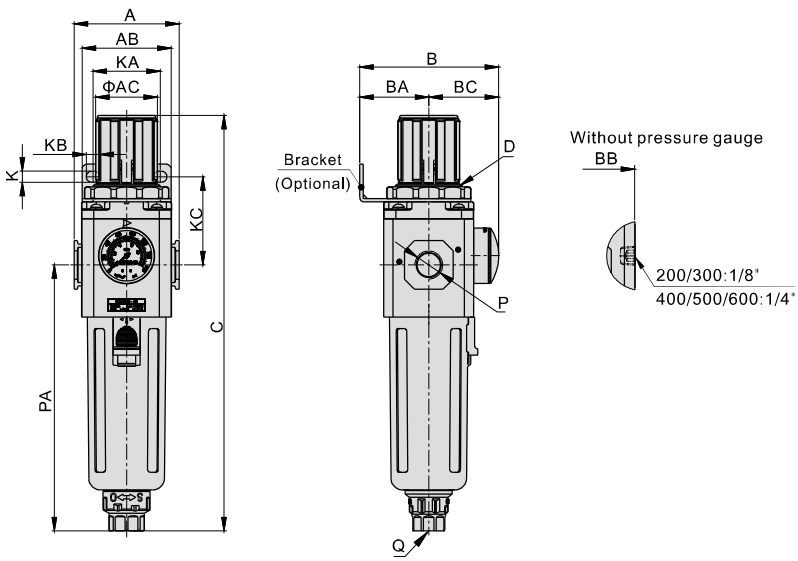
Pressure chart



Flow chart



Dimensions



Model\Item	A	AB	AC	B	BA	BB	BC	C	D	K	KA	KB	KC	P	PA	Q
GAFR200-06	52.5	55	31	69	30	51.5	39	192.5	M33x1.5	5.4	34	15.4	52	1/8"	120	M5X0.8
GAFR200-08	52.5	55	31	69	30	51.5	39	192.5	M33x1.5	5.4	34	15.4	52	1/4"	120	M5X0.8
GAFR300-08	62.5	53	38	82.5	41	67.5	41.5	247	M40x1.5	6.5	40	8	52.5	1/4"	158	G1/4
GAFR300-10	62.5	53	38	82.5	41	67.5	41.5	247	M40x1.5	6.5	40	8	52.5	3/8"	158	G1/4
GAFR300-15	62.5	53	38	82.5	41	67.5	41.5	247	M40x1.5	6.5	40	8	52.5	1/2"	158	G1/4
GAFR400-10	80	72	52	99	50	84	49	285.5	M55x2.0	8.5	55	11	57	3/8"	177.5	G1/4
GAFR400-15	80	72	52	99	50	84	49	285.5	M55x2.0	8.5	55	11	57	1/2"	177.5	G1/4
GAFR500-20	82	72	52	100	50	85	50	299.5	M55x2.0	8.5	55	11	57	3/4"	191.5	G1/4
GAFR600-20	100	90	59	128	70	113	58	336.5	M62x1.5	11	66	13	76	3/4"	205	G1/4
GAFR600-25	100	90	59	128	70	113	58	336.5	M62x1.5	11	66	13	76	1"	205	G1/4