

## GF Series



GF

### Symbol



### Product feature

1. Unique diversion structure spins the air flowing through to effectively separate the liquid from the air and reliably filter the solid grain.
2. It has low pressure loss, high efficiency in separating water and large drain bowl capacity.
3. Filtering grade includes 5 μm and 40 μm (Optional).
4. Three drain types are available: manual drain, semi-auto drain and automatic drain.
5. The bracket can be selected for installation.

### Specification

Model	GF200-06	GF200-08	GF300-08	GF300-10	GF300-15	GF400-10	GF400-15	GF600-20	GF600-25
Fluid	Air								
Port size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtering grade	40 μm or 5 μm								
Pressure range	Semi-auto and automatic drain: 0.15~0.9MPa(20~130psi); Manual drain: 0.05~0.9MPa(7~130psi)								
Proof pressure	1.5MPa(215psi)								
Temperature range	-20~70°C								
Capacity of drain bowl	10CC		40CC			80CC		230CC	
Weight	135g		360g			680g		1440g	

### Ordering code

GF200 08 M  W

#### Model

GF200: G200 Series Filter
GF300: G300 Series Filter
GF400: G400 Series Filter
GF600: G600 Series Filter

#### Thread type

Blank: PT
T: N
G: G

#### Port size

Model	Port size
GF200	06: 1/8"
	08: 1/4"
GF300	08: 1/4"
	10: 3/8"
	15: 1/2"
GF400	10: 3/8"
	15: 1/2"
GF600	20: 3/4"
	25: 1"

#### Filtering grade

Blank: 40 μm
W: 5 μm

#### Accessories

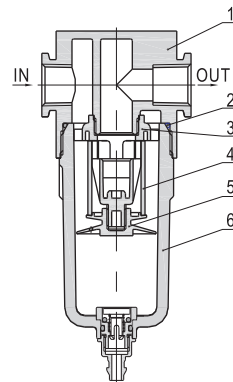
Blank: Bracket
J: No bracket(standard configuration)

#### Drain type

Drain type	Addable product's series
Blank: Semi-auto drain	GF200, GF300
M: Manual drain	GF400, GF600
A: Automatic drain	GF300, GF400, GF600

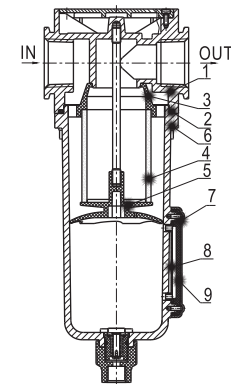
### Inner structure and Material of major parts

GF200



Semi-Auto drain

GF600



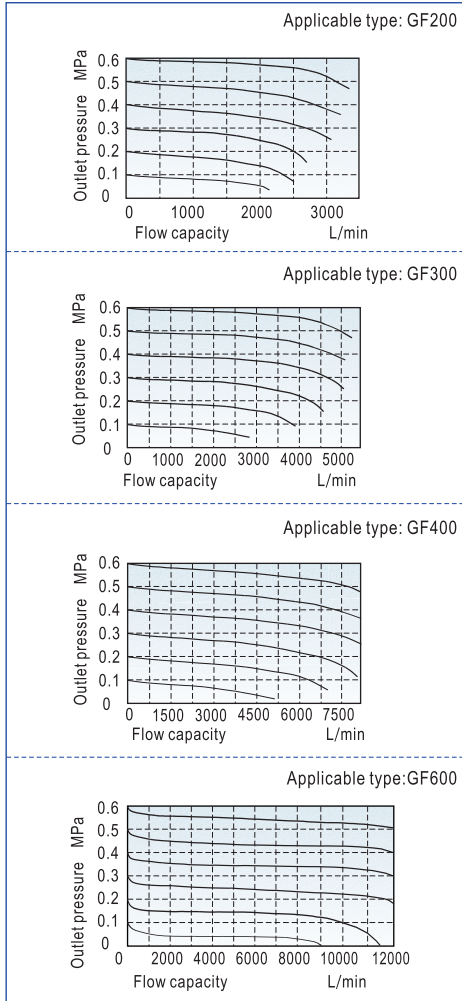
Semi-Auto drain

No.	Item	Material
1	Body	Aluminum alloy
2	O-ring	NBR
3	Air guide	High viscosity POM
4	Filter core	GF600 Agglomerated by bronze grain Others 40 μm: Agglomerated by bronze grain\5 μm: Makrolon fiber
5	Umbrella baffle	High viscosity POM
6	Drain bowl	Aluminum alloy(GF600)\PC(Others)
7	Liquid meter cover	SPCC
8	Liquid meter seal	VITON
9	Liquid meter inside cover	PC



## GF Series

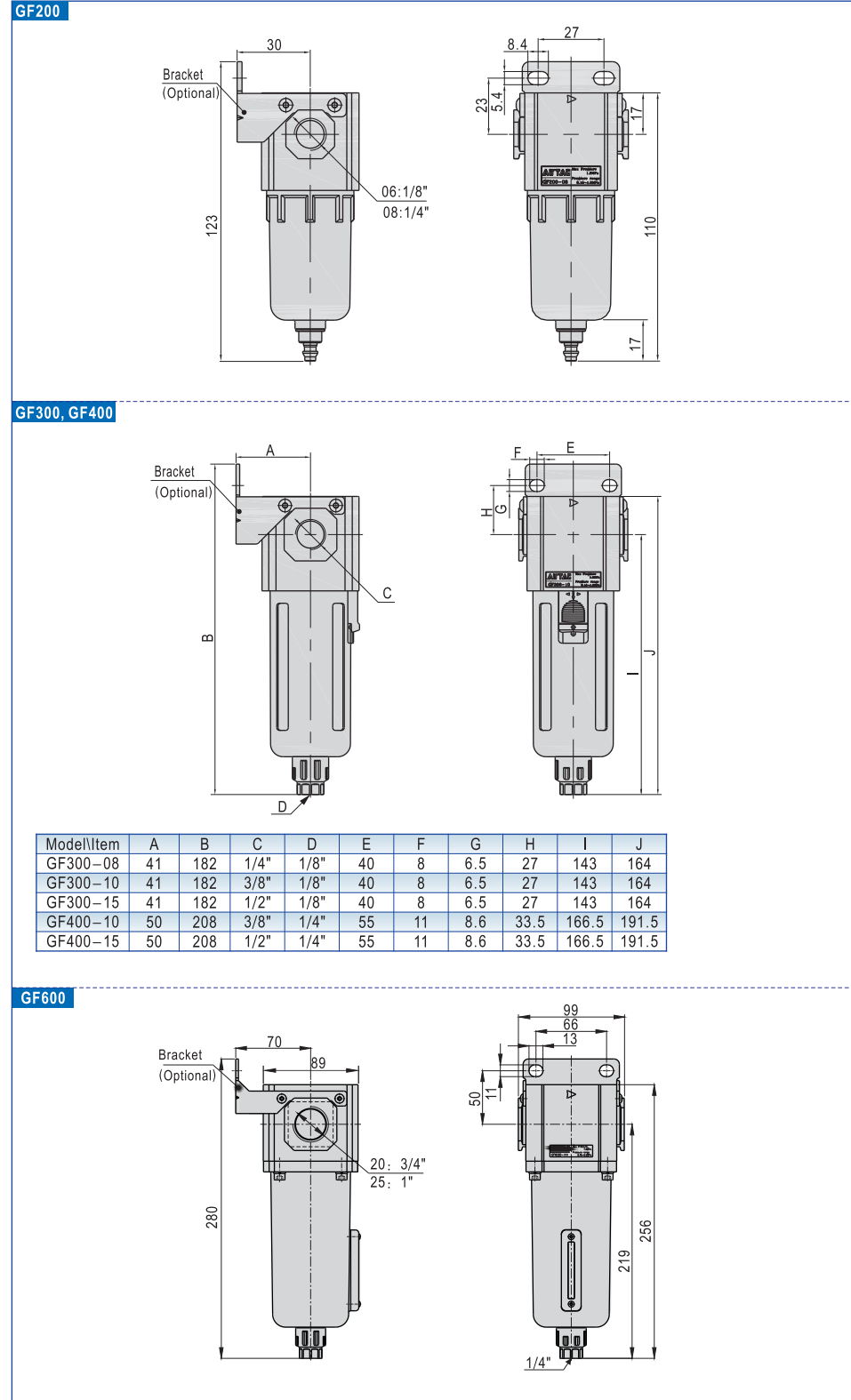
### Flow chart



### Selection of drain mode

The drain modes of different series are different. Please refer to P137 for details.

### Dimensions



GF

# Preparation unit—Regulator



## GR Series



GR

### Symbol

No Reverse Flow valve is attached      Reverse Flow 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 panel installation, the bracket is optional for installation.
5. In addition to standard type, lower pressure type is optional (the highest adjustable pressure is 0.4MPa).

### Specification

Model	GR200-06	GR200-08	GR300-08	GR300-10	GR300-15	GR400-10	GR400-15	GR600-20	GR600-25
Fluid	Air								
Port size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Pressure range	0.05~0.9MPa(7~130psi)								
Max. pressure	1.0MPa(145psi)								
Proof pressure	1.5MPa(215psi)								
Temperature range	-20~70°C								
Weight	160g		350g			720g		1700g	

### Ordering code

GR200 08 L   F 1  K

**Model**  
 GR200: G200 Series Regulator  
 GR300: G300 Series Regulator  
 GR400: G400 Series Regulator  
 GR600: G600 Series Regulator

Model	Port size
GR200	06: 1/8"
	08: 1/4"
GR300	08: 1/4"
	10: 3/8"
GR400	10: 3/8"
	15: 1/2"
GR600	20: 3/4"
	25: 1"

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

**Code of reflux valve**  
 Blank: No Reverse flow valve is attached  
 K: Reverse flow valve is attached

**Thread type**  
 Blank: PT  
 T: NPT  
 G: G

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

**Pressure gauge shape**  
 F: Square  
 C: Circular

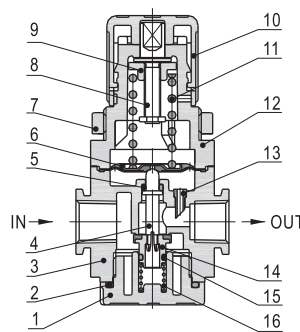
**Pressure gauge**  
 Blank: Pressure gauge  
 N: No pressure gauge

**Accessories**  
 Blank: Bracket  
 J: No bracket(standard configuration)

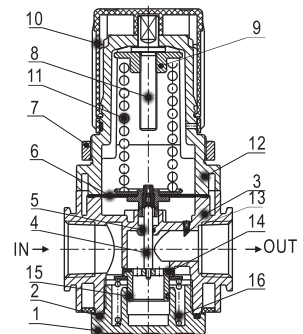
① The maximum work pressure of lower pressure type is 0.4MPa(58psi). ② Please refer to page 144 for details of reflux valve.

### Inner structure and Material of major parts

GR200



GR600



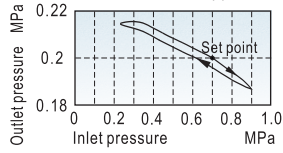
No.	Item	Material	No.	Item	Material
1	Valve cap	Aluminum alloy	9	Regulator nut	Steel
2	O-ring	NBR	10	Pressure knob	POM
3	Body	Aluminum alloy	11	Pressure spring	SWC
4	Spool	Brass(GR600)\POM(others)	12	Adjusting seat	Aluminum alloy(GR600)\POM(others)
5	O-ring	NBR	13	Feed back tube	POM
6	Diaphragm	SUS304 & Rubber	14	Pressure plug	Brass & steel
7	Fixed ring	Aluminum alloy(GR600)\POM(others)	15	O-ring	NBR
8	Adjusting spindle	Steel	16	Spring	Stainless steel

# Preparation unit—Regulator

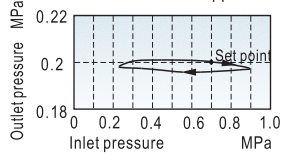
## GR Series

### Pressure and feature of flow

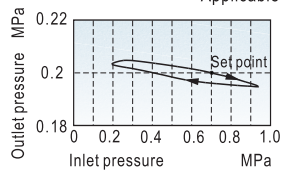
**Pressure chart** Applicable type: GR200



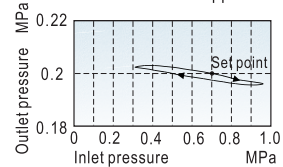
Applicable type: GR300



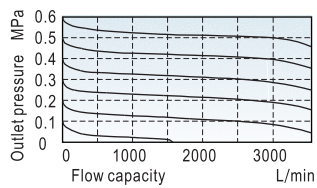
Applicable type: GR400



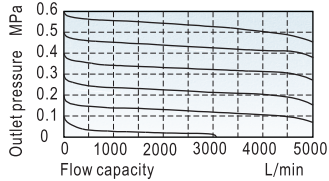
Applicable type: GR600



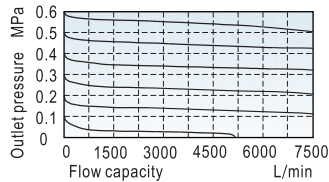
**Flow chart** Applicable type: GR200  
Inlet pressure: 0.7MPa



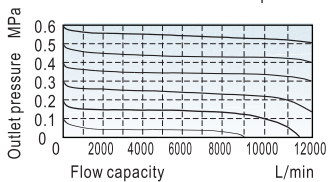
Applicable type: GR300  
Inlet pressure: 0.7MPa



Applicable type: GR400  
Inlet pressure: 0.7MPa

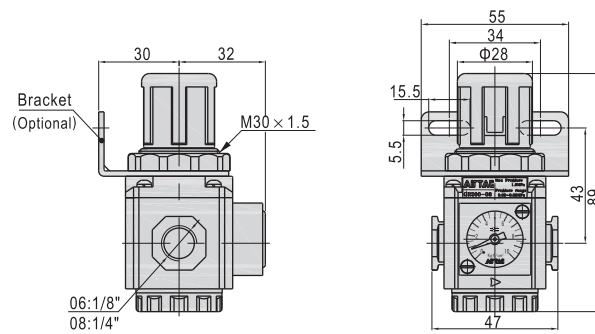


Applicable type: GR600  
Inlet pressure: 0.7MPa

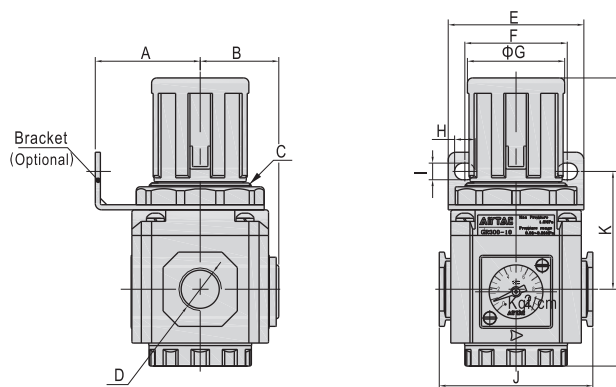


### Dimensions

**GR200**

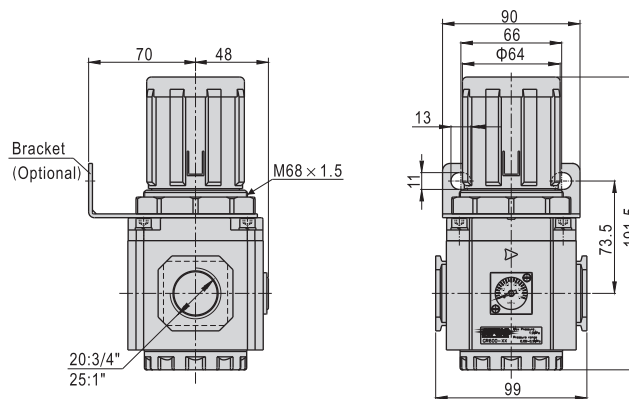


**GR300, GR400**



Model/Item	A	B	C	D	E	F	G	H	I	J	K	L
GR300-08	41	31	M40x1.5	1/4"	53	40	38	8	6.5	60	46	112.5
GR300-10	41	31	M40x1.5	3/8"	53	40	38	8	6.5	60	46	112.5
GR300-15	41	31	M40x1.5	1/2"	53	40	38	8	6.5	60	46	112.5
GR400-10	50	40	M55x2.0	3/8"	72	55	52	11	8.5	80	53	140.5
GR400-15	50	40	M55x2.0	1/2"	72	55	52	11	8.5	80	53	140.5

**GR600**



GR