

Preparation unit—Filter



GF Series

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 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)								
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 P

Model

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

Thread type

P: PT
T: N
G: G

Filtering grade

Blank: 40 μ m
W: 5 μ m

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

Port size

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

Symbol

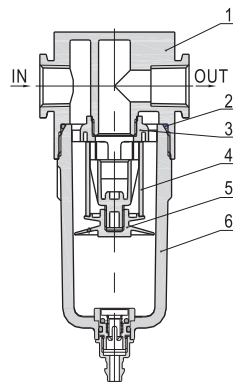


Product feature

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 μ m and 40 μ m (Optional).
4. Three drain types are available: manual drain, semi-auto drain and automatic drain.
5. The bracket can be selected for installation.

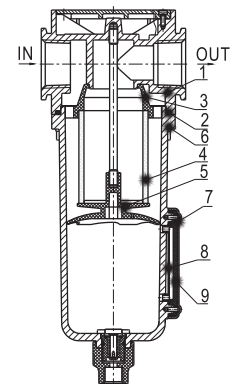
Inner structure and Material of major parts

GF200



Semi-Auto drain

GF600



Semi-Auto drain

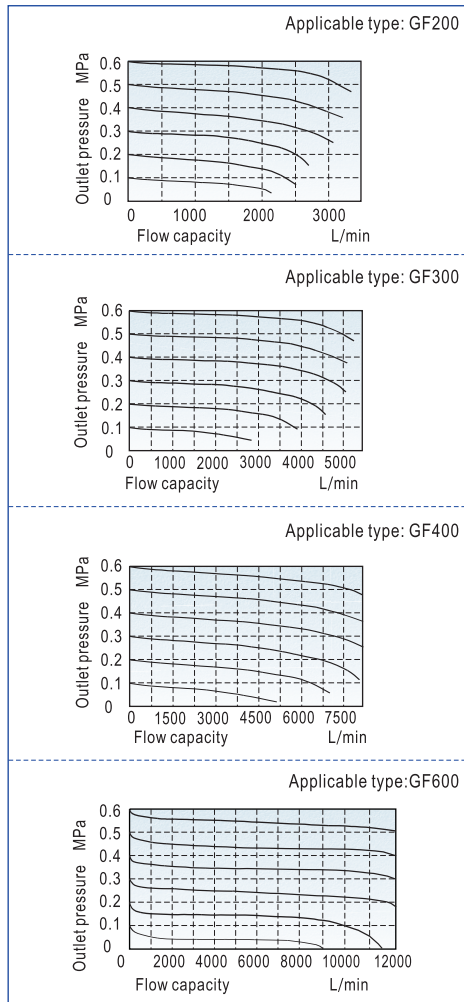
No. Item	Material
1 Body	Aluminum alloy
2 O-ring	NBR
3 Air guide	High viscosity POM
4 Filter core	GF600 Agglomerated by bronze grain Others 40 μ m: Agglomerated by bronze grain 5 μ m: Makrolon fiber
5 Umbrella baffle	High viscosity POM
6 Drain bowl	Aluminum alloy(GF600)\PC(Others)
7 Liquid meter cover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



Preparation unit—Filter

GF Series

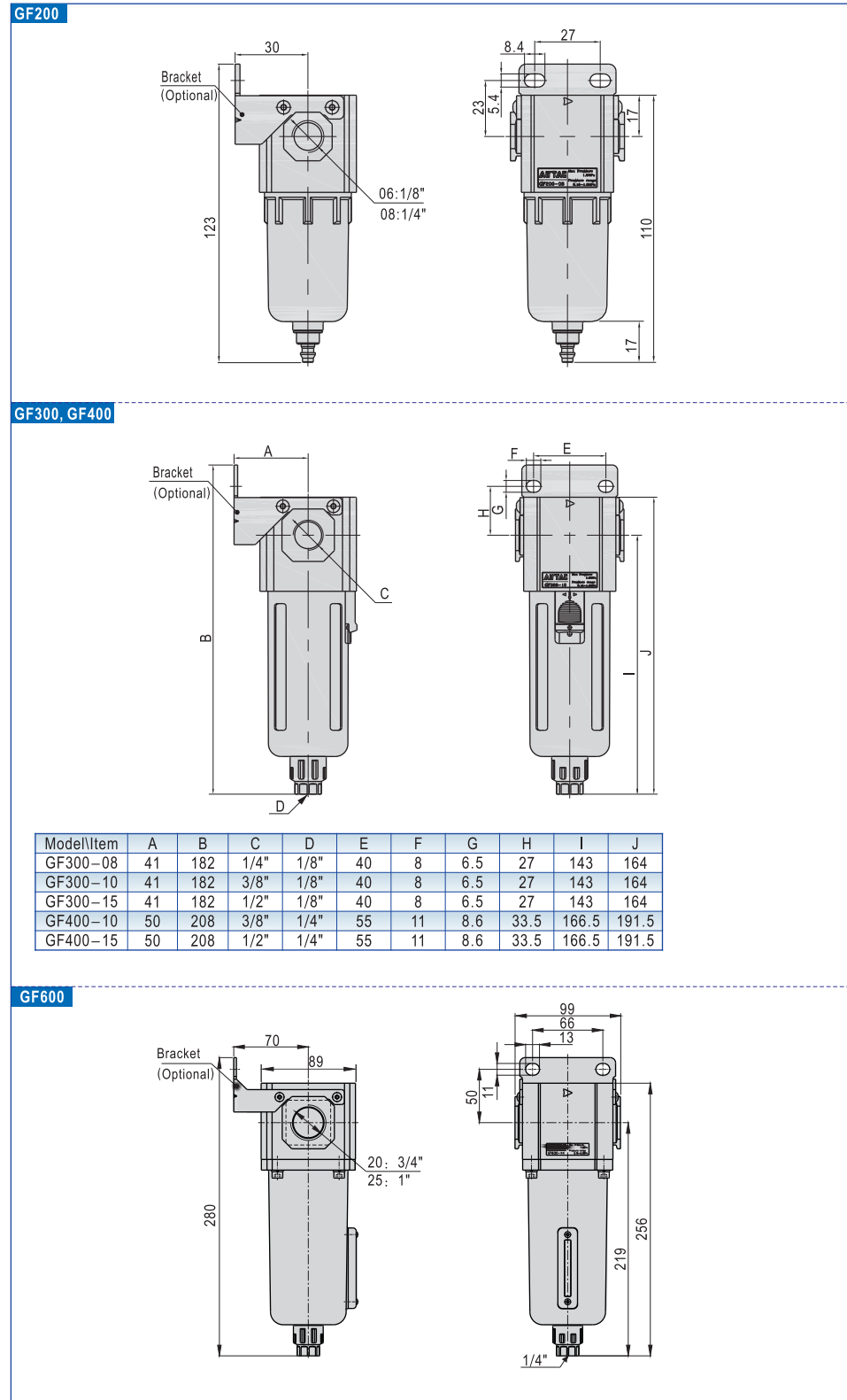
Flow chart



Selection of drain mode

The drain modes of different series are different.
Please refer to P141 for details.

Dimensions



Preparation unit—Regulator



GR Series



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 P K

Model

- GR200: G200 Series Regulator
- GR300: G300 Series Regulator
- GR400: G400 Series Regulator
- GR600: G600 Series Regulator

Port size

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

- P: 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 154 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



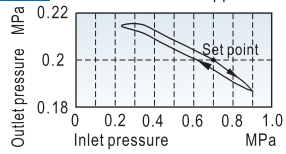
Preparation unit—Regulator



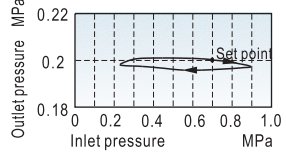
GR Series

Pressure and feature of flow

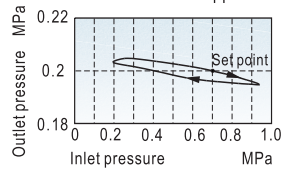
Pressure chart Applicable type: GR200



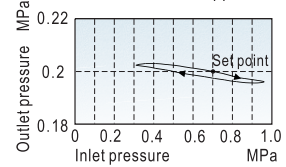
Applicable type: GR300



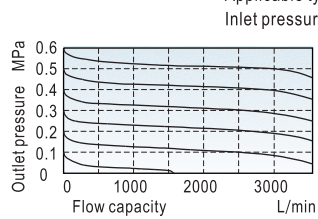
Applicable type: GR400



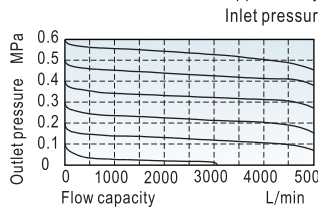
Applicable type: GR600



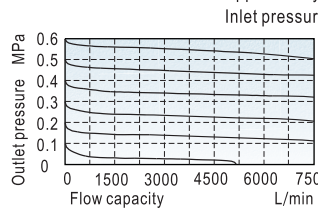
Flow chart Applicable type: GR200



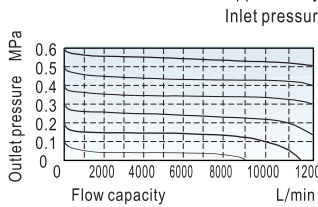
Applicable type: GR300



Applicable type: GR400

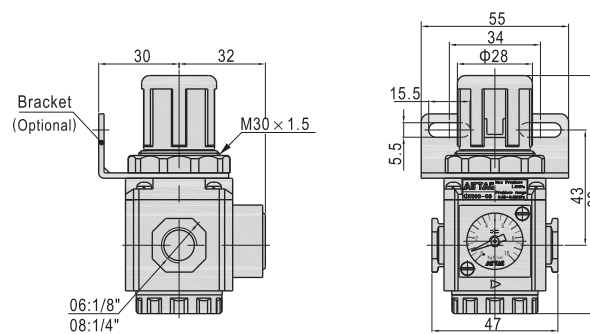


Applicable type: GR600

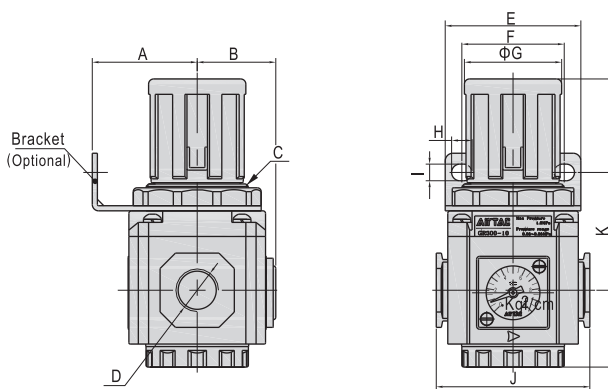


Dimensions

GR200

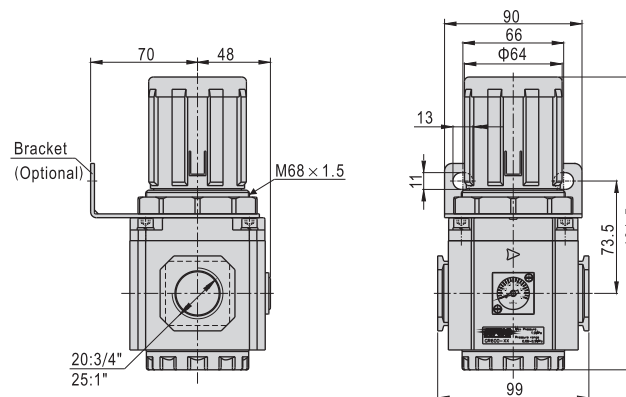


GR300, GR400



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



Preparation unit—Lubricator



GL Series

Specification

Model	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15	GL600-20	GL600-25
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)								
Proof pressure	1.5MPa(215psi)								
Temperature range	-20~70°C								
Recommended lubricant	ISO VG 32 or equivalent								
Capacity of oil bowl	25CC		75CC			160CC		380CC	
Weight	130g		360g			670g		1300g	

Ordering code

GL200 08 □ P

Model

GL200: G200 Series Lubricator
GL300: G300 Series Lubricator
GL400: G400 Series Lubricator
GL600: G600 Series Lubricator

Thread type

P: PT
T: NPT
G: G

Port size

Model	Port size
GL200	06: 1/8"
	08: 1/4"
GL300	08: 1/4"
	10: 3/8"
GL400	15: 1/2"
	10: 3/8"
GL600	20: 3/4"
	25: 1"

Accessories

Blank: Bracket
J: No bracket(standard configuration)

Symbol

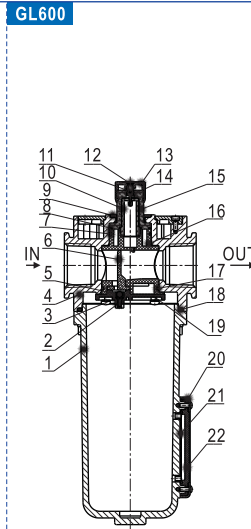
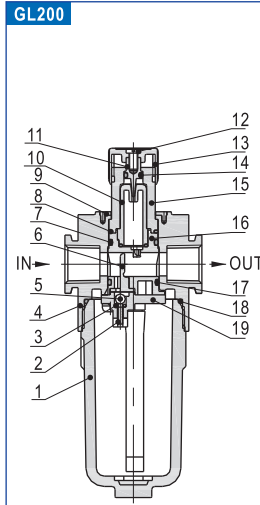


Product feature

1. The structure of oil dripping adopts gap seal type, which makes the adjustment of oil supply more reliable.
2. Oil feed ring can only make one full turn. The quantity of oil supply basically takes on linear distribution. The quantity of oil supply can be generally calculated according to the position of graduation ring.
3. Special drip nozzle structure will produce negative pressure in oil dripping outlet and the mist flow is minimal.
4. Filling of oil while the lubricator is under pressure is made possible, and the oil bowl is large;
5. The bracket can be selected for installation.

Inner structure and Material of major parts

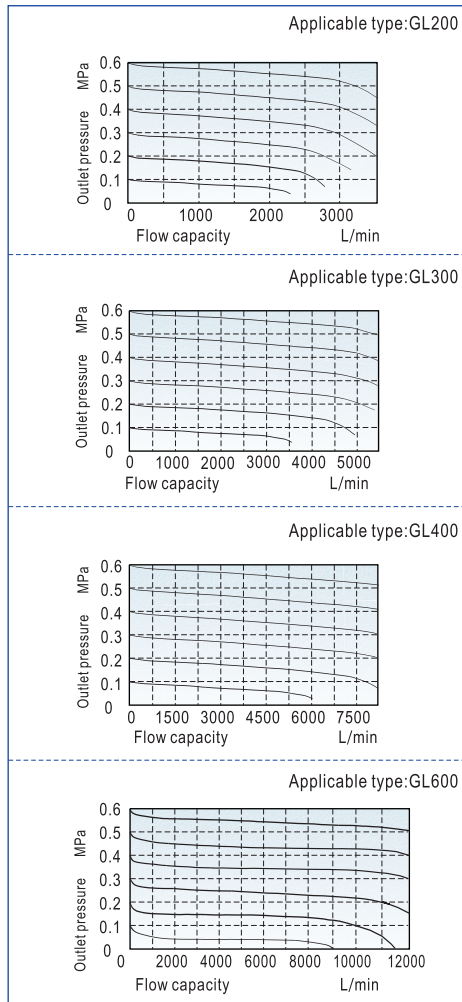
No.	Item	Material
1	Oil bowl	Aluminum alloy (GL600)\PC(others)
2	Adjusting spring	Stainless steel
3	O-ring	NBR
4	Body of lubricator	Aluminum alloy
5	Steel ball	Stainless steel
6	Distance block	TPU
7	O-ring	NBR
8	O-ring	NBR
9	Indicating ring	POM
10	Drip pipe	PC
11	Ejector pin	Brass
12	Screw	Carbon steel
13	Adjusting ring	POM
14	O-ring	NBR
15	Bowl	PC
16	Sprayer body	PA66
17	O-ring	NBR
18	O-ring	NBR
19	Sprayer bottom cap	POM
20	Liquid meter cover	SPCC
21	Liquid meter seal	NBR
22	Liquid meter inside cover	PC



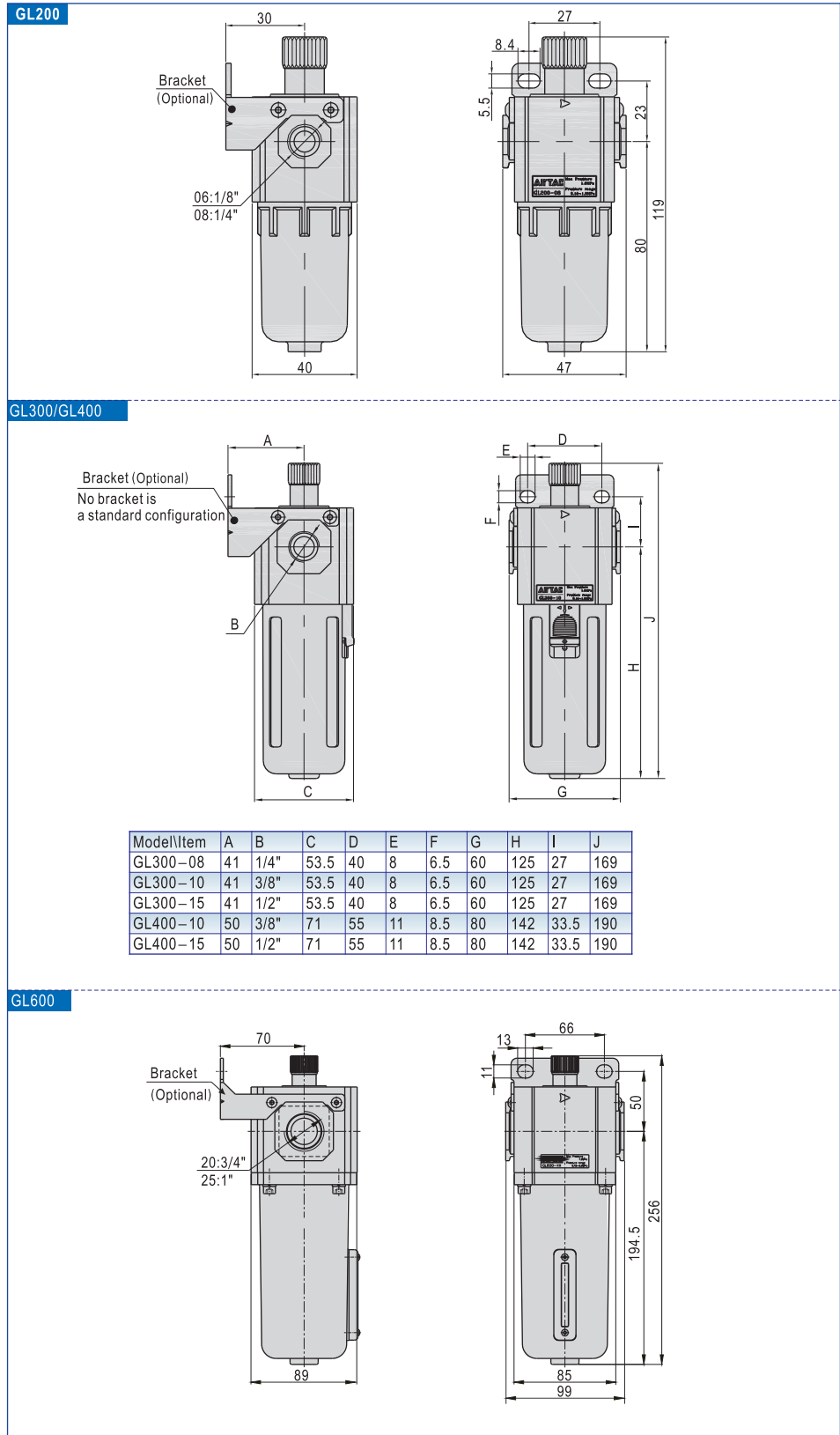
Preparation unit—Lubricator

GL Series

Flow chart



Dimensions

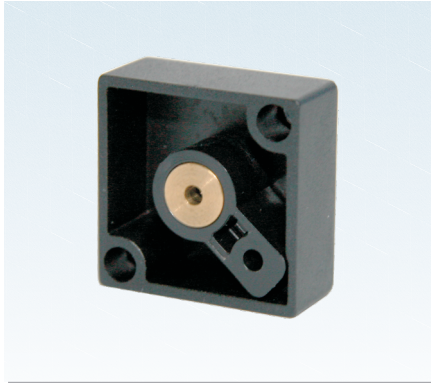
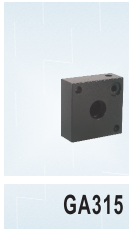


GL

Preparation unit—Reverse Flow valve



GA315 Series



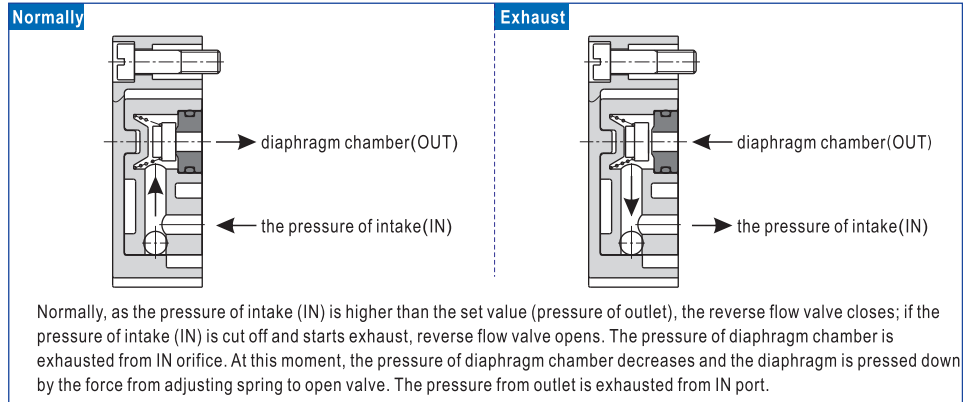
Product feature

1. This reverse flow valve can be used with G series regulator and also can be ordered individually.
2. When it is used with G series regulator, one only needs to change the seal board in the back of regulator for the reverse flow valve. It is convenient to install and won't change the external dimension of regulator.

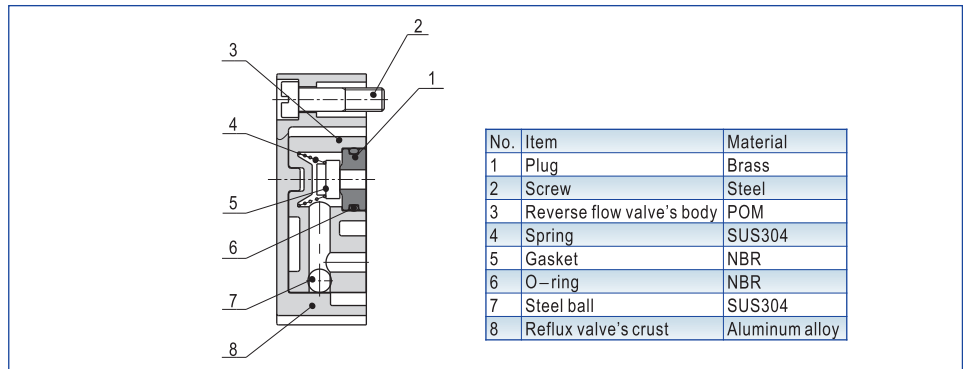
Applicable products

Reflux valve type	Applicable products 's type
GA315	GC200, 300, 400, 600
	GFC200, 300, 400, 600
	GFR200, 300, 400, 600
	GR200, 300, 400, 600

Working principle



Inner structure

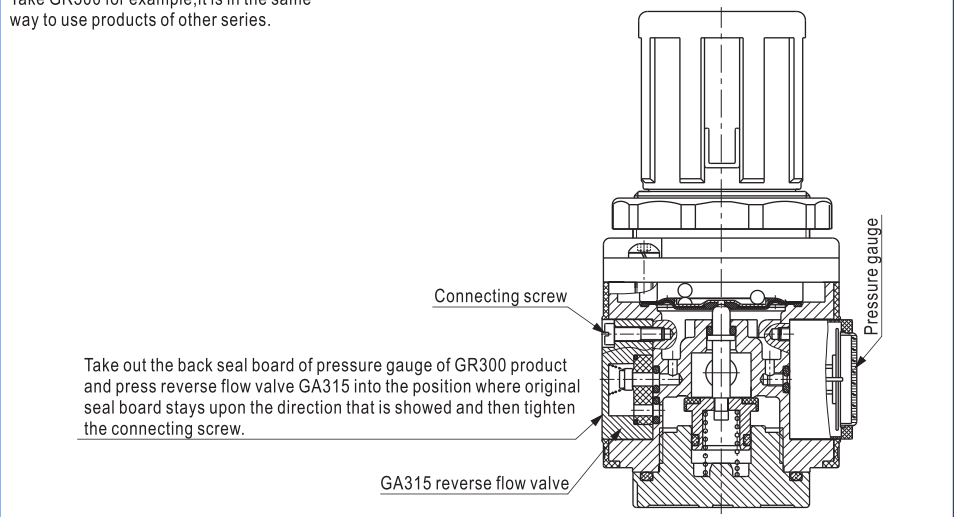


Ordering code

When G series regulator is assembled with the reverse flow valve, the valve can be ordered together with the standard product. What needs to do is to add "-K" to the end of the ordering code of the standard product. Please refer to relevant content for more detailed order method.

Example for assemble the reflux valve

Take GR300 for example, it is in the same way to use products of other series.



Preparation unit—Metallic bowl

GC□C, GFC□C, GFR□C, GF□C, GL□C Series

Ordering code

GC200C	08	M	L	<input type="checkbox"/>	F	1	W	P	K	
GFC200C	08	M	L	<input type="checkbox"/>	F	1	W	P	K	
GFR200C	08	M	L	<input type="checkbox"/>	<input type="checkbox"/>	F	1	W	P	K

Model GC200C: G200 Series F.R.L unit(Metallic bowl) GC300C: G300 Series F.R.L unit(Metallic bowl) GC400C: G400 Series F.R.L unit(Metallic bowl) GFC200C: G200 Series F.R.L unit(Metallic bowl) GFC300C: G300 Series F.R.L unit(Metallic bowl) GFC400C: G400 Series F.R.L unit(Metallic bowl) GFR200C: G200 Series filter-regulator(Metallic bowl) GFR300C: G300 Series filter-regulator(Metallic bowl) GFR400C: G400 Series filter-regulator(Metallic bowl)	Port size <table border="1"> <tr><td>Model</td><td>Port size</td></tr> <tr><td>GC200C</td><td>06: 1/8"</td></tr> <tr><td>GFC200C, GFR200C</td><td>08: 1/4"</td></tr> <tr><td>GC300C</td><td>08: 1/4"</td></tr> <tr><td>GFC300C, GFR300C</td><td>10: 3/8"</td></tr> <tr><td>GC400C</td><td>10: 3/8"</td></tr> <tr><td>GFC400C, GFR400C</td><td>15: 1/2"</td></tr> </table>	Model	Port size	GC200C	06: 1/8"	GFC200C, GFR200C	08: 1/4"	GC300C	08: 1/4"	GFC300C, GFR300C	10: 3/8"	GC400C	10: 3/8"	GFC400C, GFR400C	15: 1/2"	Code of reverse flow valve Blank: No reverse flow valve is attached K: Reverse flow valve is attached
Model	Port size															
GC200C	06: 1/8"															
GFC200C, GFR200C	08: 1/4"															
GC300C	08: 1/4"															
GFC300C, GFR300C	10: 3/8"															
GC400C	10: 3/8"															
GFC400C, GFR400C	15: 1/2"															
		Thread type P: PT T: NPT G: G														
		Filtering grade Blank: 40 μm W: 5 μm														
		Scale 1: MPa 2: psi 3: bar														
		Pressure gauge shape F: Square C: Circular														
		Pressure gauge Blank: Pressure gauge N: No pressure gauge														
		Accessories <table border="1"> <tr><td>Product's series</td><td>Accessories</td></tr> <tr><td>GFR200C~400C</td><td>Blank: Bracket J: No bracket (standard configuration)</td></tr> <tr><td>Other series</td><td>Not code</td></tr> </table>	Product's series	Accessories	GFR200C~400C	Blank: Bracket J: No bracket (standard configuration)	Other series	Not code								
Product's series	Accessories															
GFR200C~400C	Blank: Bracket J: No bracket (standard configuration)															
Other series	Not code															
Drain type <table border="1"> <tr><td>Drain type</td><td>Adaptable product's series</td></tr> <tr><td>Blank: Semi-auto drain</td><td>GC200C, GC300C, GC400C GFC200C, GFC300C, GFC400C</td></tr> <tr><td>M: Manual drain</td><td>GFR200C, GFR300C, GFR400C</td></tr> <tr><td>A: Automatic drain</td><td>GC300C, GC400C, GFC300C GFC400C, GFR300C, GFR400C</td></tr> </table>	Drain type	Adaptable product's series	Blank: Semi-auto drain	GC200C, GC300C, GC400C GFC200C, GFC300C, GFC400C	M: Manual drain	GFR200C, GFR300C, GFR400C	A: Automatic drain	GC300C, GC400C, GFC300C GFC400C, GFR300C, GFR400C	Type code Blank: Standard L: Lower pressure ①							
Drain type	Adaptable product's series															
Blank: Semi-auto drain	GC200C, GC300C, GC400C GFC200C, GFC300C, GFC400C															
M: Manual drain	GFR200C, GFR300C, GFR400C															
A: Automatic drain	GC300C, GC400C, GFC300C GFC400C, GFR300C, GFR400C															

Product feature

- The metallic bowl type is upgraded G series. Besides its speciality are the same as G series, it's below speciality:
- The bowl is made of metal. It is radiation-proof, excellent aging characteristic, and which allows for outdoor application.
- Metal bowls are suitable for applications requiring higher pressure or rugged environment.
- Fuss free installation for most applications.

The corresponding table of Metallic bowl type with standard type

Metallic bowl type	Corresponding standard type
GC200C, 300C, 400C	GC200, 300, 400
GFC200C, 300C, 400C	GFC200, 300, 400
GFR200C, 300C, 400C	GFR200, 300, 400
GF200C, 300C, 400C	GF200, 300, 400
GL200C, 300C, 400C	GL200, 300, 400

Note)

The style, pressure chart, flow chart, Inner structure, dimension etc, are the same as standard type. Please refer to relevant content for details.

① The maximum work pressure of lower pressure type is 0.4MPa(58psi). ② Please refer to page 154 for details of reflux valve.

GF200C 08 M □ W P

Model GF200C: G200 Series Filter(Metallic bowl) GF300C: G300 Series Filter(Metallic bowl) GF400C: G400 Series Filter(Metallic bowl)	Port size <table border="1"> <tr><td>Model</td><td>Port size</td></tr> <tr><td>GF200C</td><td>06: 1/8"</td></tr> <tr><td></td><td>08: 1/4"</td></tr> <tr><td>GF300C</td><td>08: 1/4"</td></tr> <tr><td></td><td>10: 3/8"</td></tr> <tr><td></td><td>15: 1/2"</td></tr> <tr><td>GF400C</td><td>10: 3/8"</td></tr> <tr><td></td><td>15: 1/2"</td></tr> </table>	Model	Port size	GF200C	06: 1/8"		08: 1/4"	GF300C	08: 1/4"		10: 3/8"		15: 1/2"	GF400C	10: 3/8"		15: 1/2"	Thread type P: PT T: N G: G
Model	Port size																	
GF200C	06: 1/8"																	
	08: 1/4"																	
GF300C	08: 1/4"																	
	10: 3/8"																	
	15: 1/2"																	
GF400C	10: 3/8"																	
	15: 1/2"																	
		Filtering grade Blank: 40 μm W: 5 μm																
		Accessories Blank: Bracket J: No bracket(standard configuration)																
		Drain type <table border="1"> <tr><td>Drain type</td><td>Addable product's series</td></tr> <tr><td>Blank: Semi-auto drain</td><td>GF200C, GF300C</td></tr> <tr><td>M: Manual drain</td><td>GF400C</td></tr> <tr><td>A: Automatic drain</td><td>GF300C, GF400C</td></tr> </table>	Drain type	Addable product's series	Blank: Semi-auto drain	GF200C, GF300C	M: Manual drain	GF400C	A: Automatic drain	GF300C, GF400C								
Drain type	Addable product's series																	
Blank: Semi-auto drain	GF200C, GF300C																	
M: Manual drain	GF400C																	
A: Automatic drain	GF300C, GF400C																	

GL200C 08 □ P

Model GL200C: G200 Series Lubricator(Metallic bowl) GL300C: G300 Series Lubricator(Metallic bowl) GL400C: G400 Series Lubricator(Metallic bowl)	Port size <table border="1"> <tr><td>Model</td><td>Port size</td></tr> <tr><td>GL200C</td><td>06: 1/8"</td></tr> <tr><td></td><td>08: 1/4"</td></tr> <tr><td></td><td>08: 1/4"</td></tr> <tr><td>GL300C</td><td>10: 3/8"</td></tr> <tr><td></td><td>15: 1/2"</td></tr> <tr><td>GL400C</td><td>10: 3/8"</td></tr> <tr><td></td><td>15: 1/2"</td></tr> </table>	Model	Port size	GL200C	06: 1/8"		08: 1/4"		08: 1/4"	GL300C	10: 3/8"		15: 1/2"	GL400C	10: 3/8"		15: 1/2"	Thread type P: PT T: NPT G: G
Model	Port size																	
GL200C	06: 1/8"																	
	08: 1/4"																	
	08: 1/4"																	
GL300C	10: 3/8"																	
	15: 1/2"																	
GL400C	10: 3/8"																	
	15: 1/2"																	
		Accessories Blank: Bracket J: No bracket(standard configuration)																

