

Preparation unit——Filter



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 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.

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		
Weirht	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

Port size

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

Thread type

P: PT

T: N

G: G

Filtering grade

Blank: 40 μm

W: 5 μm

Accessories

Blank: Bracket

J: No bracket(standard configuration)

Drain type

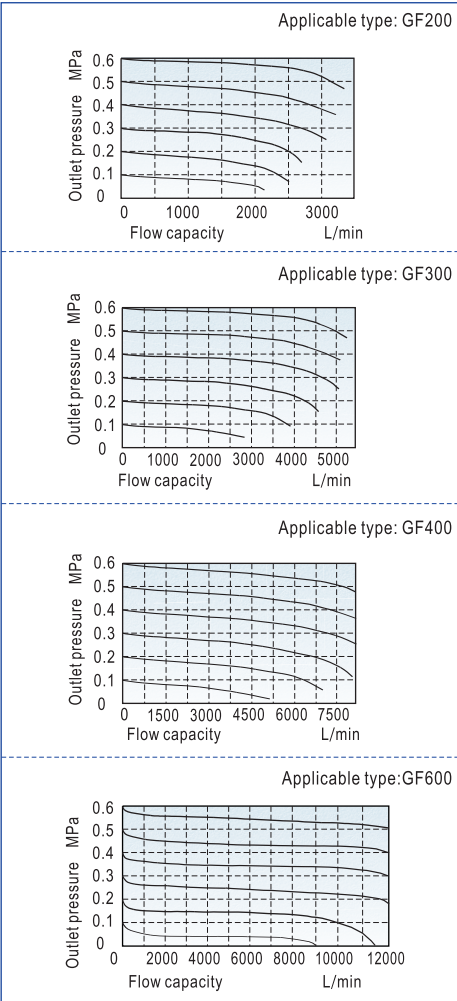
Drain type	Addable product's series
Blank: Semi-auto drain	GF200, GF300
M: Manual drain	GF400, GF600
A: Automatic drain	GF300, GF400, GF600

Preparation unit—Filter



GF Series

Flow chart

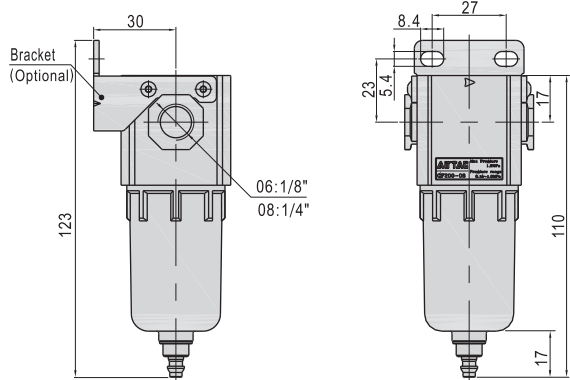


Selection of drain mode

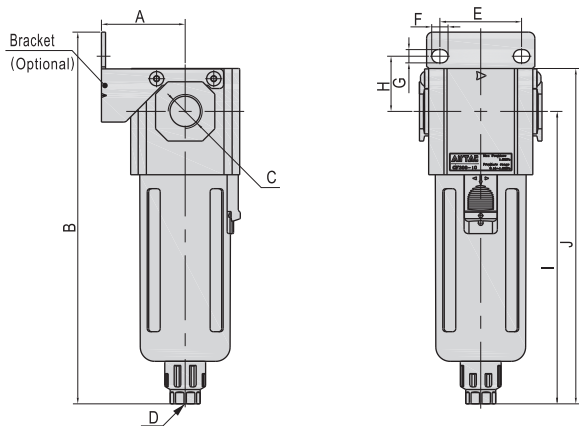
The drain modes of different series are different.
Please refer to P141 for details.

Dimensions

GF200

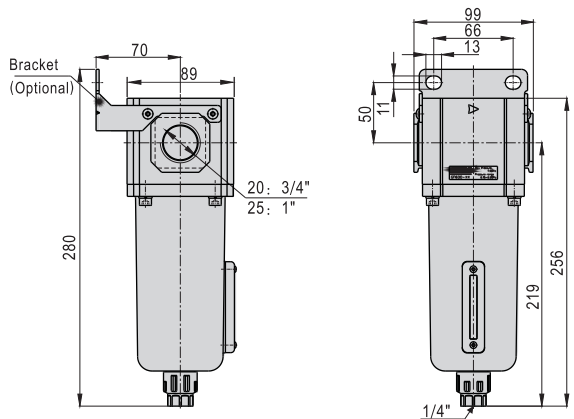


GF300, GF400



Model\Item	A	B	C	D	E	F	G	H	I	J
GF300-08	41	182	1/4"	1/8"	40	8	6.5	27	143	164
GF300-10	41	182	3/8"	1/8"	40	8	6.5	27	143	164
GF300-15	41	182	1/2"	1/8"	40	8	6.5	27	143	164
GF400-10	50	208	3/8"	1/4"	55	11	8.6	33.5	166.5	191.5
GF400-15	50	208	1/2"	1/4"	55	11	8.6	33.5	166.5	191.5

GF600



GF

Preparation unit—Regulator

AIRTAC

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 P K

Model

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

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)

Port size

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

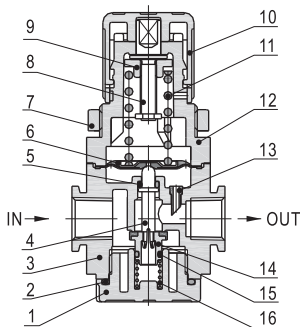
Type code

Blank: Standard
L: Lower pressure ①

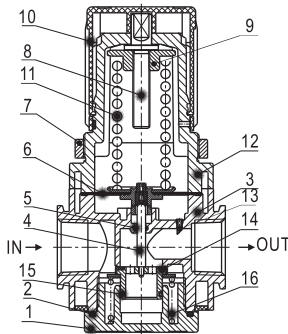
① The maximum work pressure of lower pressure type is 0.4MPa(58psi). ② Please refer to page 154 for details of reflux valve.

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

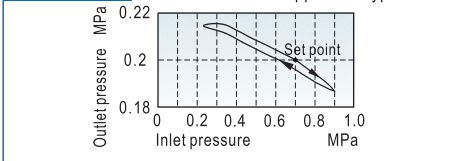
Preparation unit—Regulator

GR Series

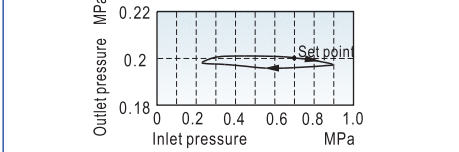


Pressure and feature of flow

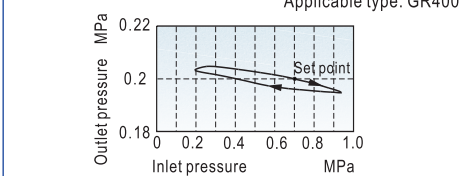
Pressure chart Applicable type: GR200



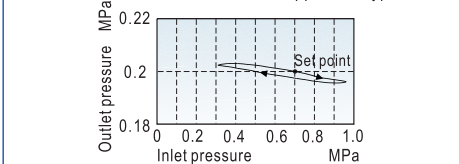
Applicable type: GR300



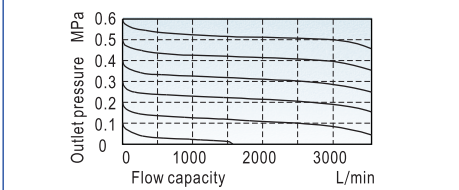
Applicable type: GR400



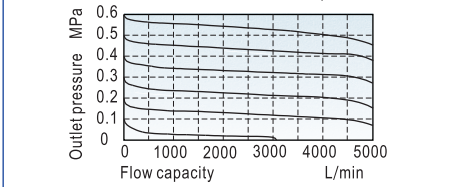
Applicable type: GR600



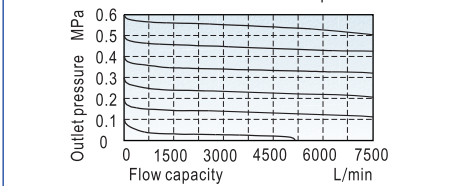
Flow chart Applicable type: GR200
Inlet pressure: 0.7MPa



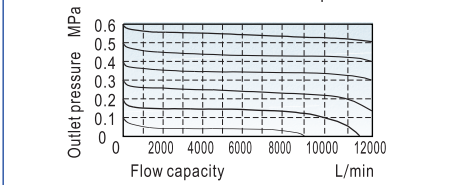
Applicable type: GR300
Inlet pressure: 0.7MPa



Applicable type: GR400
Inlet pressure: 0.7MPa

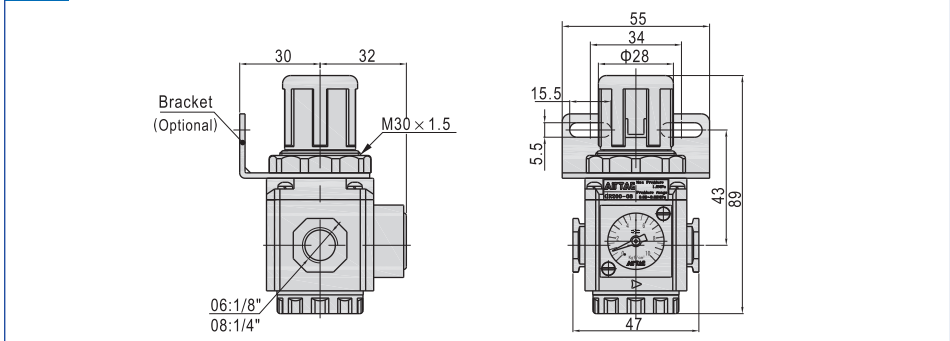


Applicable type: GR600
Inlet pressure: 0.7MPa

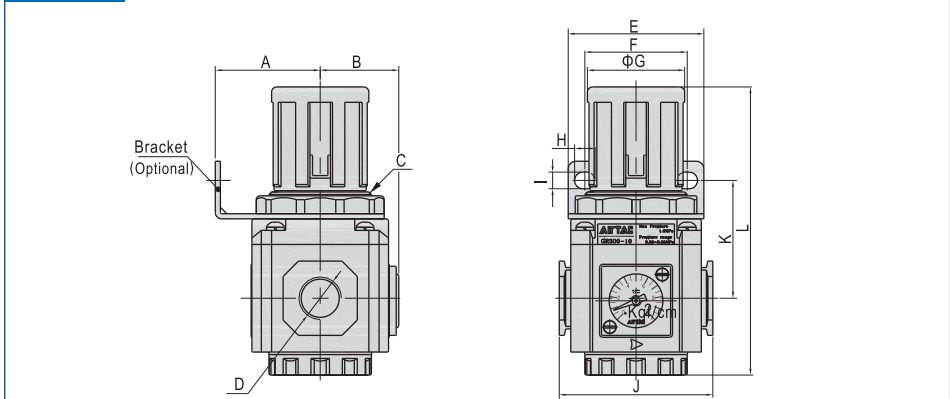


Dimensions

GR200

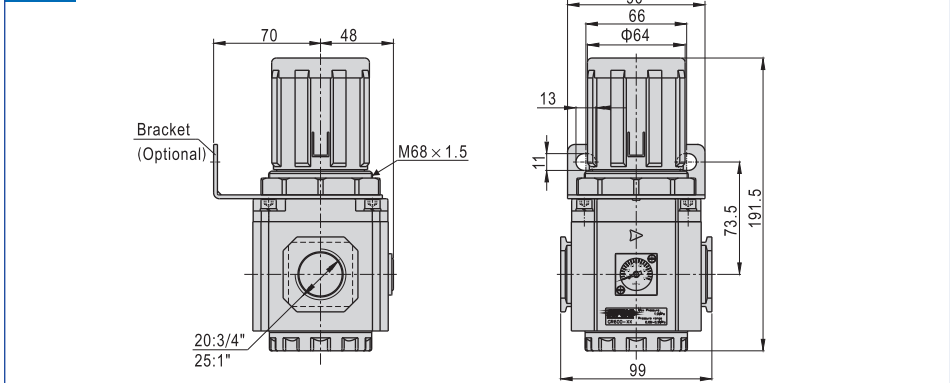


GR300, GR400



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



Preparation unit——Lubricator



GL Series



GL



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.

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℃								
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"
 - 15: 1/2"
- GL400
 - 10: 3/8"
 - 15: 1/2"
- GL600
 - 20: 3/4"
 - 25: 1"

Accessories

- Blank: Bracket
- J: No bracket(standard configuration)

Inner structure and Material of major parts

GL200

GL600

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

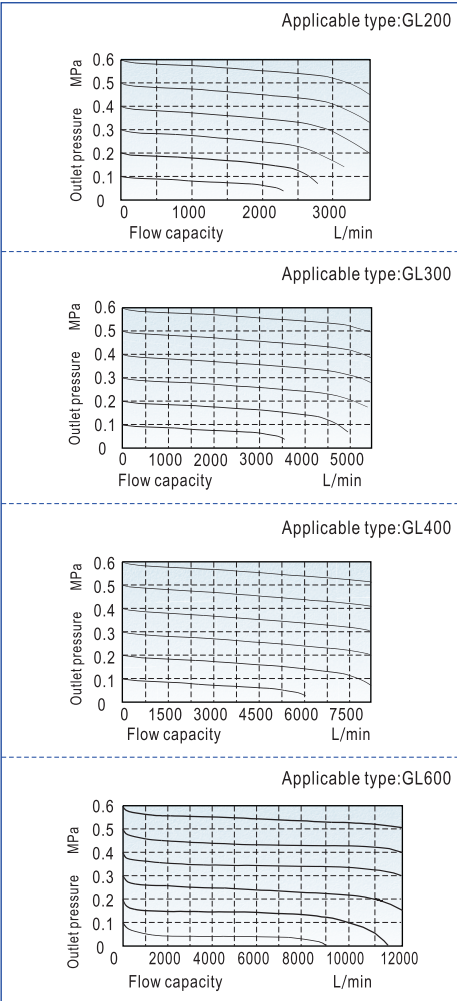


Preparation unit—Lubricator



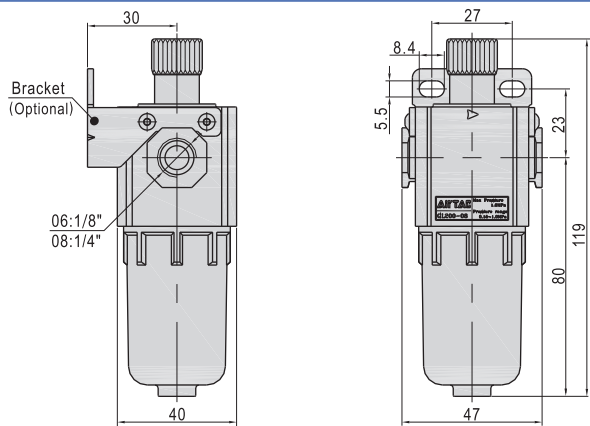
GL Series

Flow chart

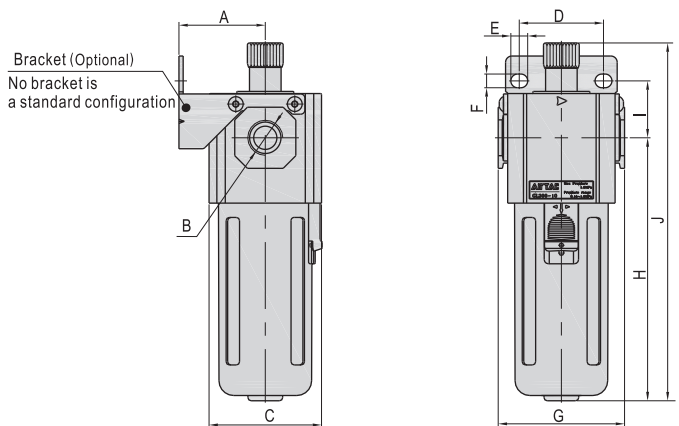


Dimensions

GL200

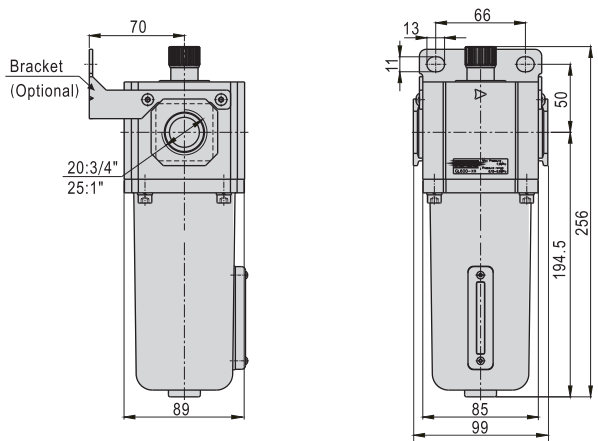


GL300/GL400



Model/Item	A	B	C	D	E	F	G	H	I	J
GL300-08	41	1/4"	53.5	40	8	6.5	60	125	27	169
GL300-10	41	3/8"	53.5	40	8	6.5	60	125	27	169
GL300-15	41	1/2"	53.5	40	8	6.5	60	125	27	169
GL400-10	50	3/8"	71	55	11	8.5	80	142	33.5	190
GL400-15	50	1/2"	71	55	11	8.5	80	142	33.5	190

GL600

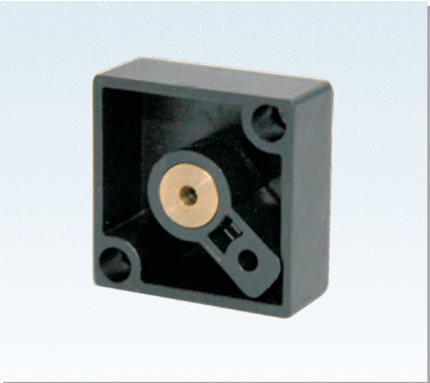


GL

Preparation unit——Reverse Flow valve



GA315 Series



Product feature

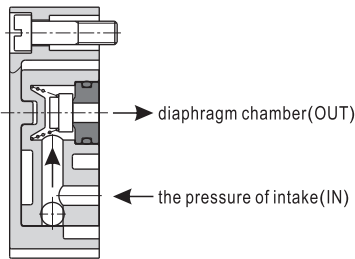
- 1. This reverse flow valve can be used with G series regulator and also can be ordered individually.
- 2. When it is used with G series regulator, one only needs to change the seal board in the back of regulator for the reverse flow valve. It is convenient to install and won't change the external dimension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

Applicable products

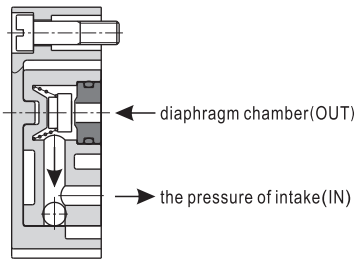
Reflux valve type	Applicable products 's type
GA315	GC200, 300, 400, 600
	GFC200, 300, 400, 600
	GFR200, 300, 400, 600
	GR200, 300, 400, 600

Working principle

Normally

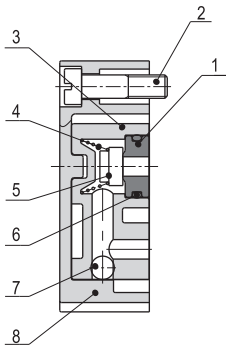


Exhaust



Normally, as the pressure of intake (IN) is higher than the set value (pressure of outlet), the reverse flow valve closes; if the pressure of intake (IN) is cut off and starts exhaust, reverse flow valve opens. The pressure of diaphragm chamber is exhausted from IN orifice. At this moment, the pressure of diaphragm chamber decreases and the diaphragm is pressed down by the force from adjusting spring to open valve. The pressure from outlet is exhausted from IN port.

Inner structure



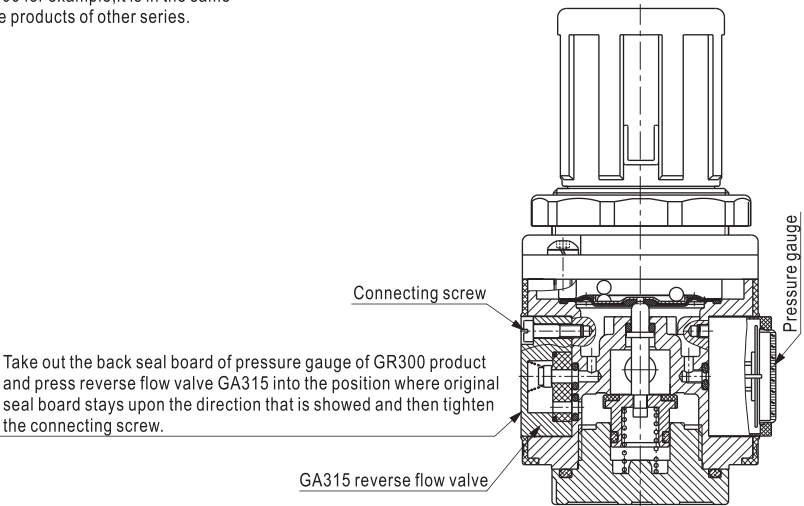
No.	Item	Material
1	Plug	Brass
2	Screw	Steel
3	Reverse flow valve's body	POM
4	Spring	SUS304
5	Gasket	NBR
6	O-ring	NBR
7	Steel ball	SUS304
8	Reflux valve's crust	Aluminum alloy

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

AIRTAC

GC□C, GFC□C, GFR□C, GF□C, GL□C Series

Ordering code

GC200C	08	M	L	☐	F	1	W	P	K	
GFC200C	08	M	L	☐	F	1	W	P	K	
GFR200C	08	M	L	☐	☐	F	1	W	P	K

Model	Port size	Thread type	Filtering grade	Scale	Pressure gauge shape	Pressure gauge	Accessories
GC200C: G200 Series F.R.L unit(Metallic bowl)	06: 1/8"	P: PT	Blank: 40 μm	1: MPa	F: Square	Blank: Pressure gauge	Product's series
GC300C: G300 Series F.R.L unit(Metallic bowl)	08: 1/4"	T: NPT	W: 5 μm	2: psi	C: Circular	N: No pressure gauge	Accessories
GC400C: G400 Series F.R.L unit(Metallic bowl)	08: 1/4"	G: G		3: bar			Blank: Bracket
GFC200C: G200 Series F.R.L unit(Metallic bowl)	10: 3/8"						J: No bracket (standard configuration)
GFC300C: G300 Series F.R.L unit(Metallic bowl)	15: 1/2"						Other series
GFC400C: G400 Series F.R.L unit(Metallic bowl)	10: 3/8"						Not code
GFR200C: G200 Series filter-regulator(Metallic bowl)	15: 1/2"						
GFR300C: G300 Series filter-regulator(Metallic bowl)							
GFR400C: G400 Series filter-regulator(Metallic bowl)							

Product feature

1. The metallic bowl type is upgraded G series. Besides its speciality are the same as G series, it's below speciality:
2. The bowl is made of metal. It is radiation-proof, excellent aging characteristic, and which allows for outdoor application.
3. Metal bowls are suitable for applications requiring higher pressure or rugged environment.
4. 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	Port size	Thread type	Filtering grade	Accessories	Drain type
GF200C: G200 Series Filter(Metallic bowl)	06: 1/8"	P: PT	Blank: 40 μm	Blank: Bracket	Drain type
GF300C: G300 Series Filter(Metallic bowl)	08: 1/4"	T: N	W: 5 μm	J: No bracket(standard configuration)	Blank: Semi-auto drain
GF400C: G400 Series Filter(Metallic bowl)	08: 1/4"	G: G			M: Manual drain
	10: 3/8"				A: Automatic drain
	15: 1/2"				
	10: 3/8"				
	15: 1/2"				

GL200C 08 □ P

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