



Preparation unit—G Series

■ Production's series

F.R.L Combination: GC Series 136 	Filter: GF Series 142 	G Series (Metallic bowl type) 149 
F.R.L Combination: GFC Series 138 	Regulator: GR Series 144 	Soft start-up valve: GV Series 150 
Filter & Regulator: GFR Series 140 	Lubricator: GL Series 146 	Safe on-off valve: GZ Series 151 
	Reflux valve: GA315 Series 148 	Air distribution block: GA Series 152 



G Series

■ Installation and application

1. Check whether the components have been damaged during transportation before installing and using.
2. Pay attention to whether the flow direction of air (notice "→" direction) and thread type are correct.
3. Please notice whether installation condition accords with technical requirements (such as "working pressure" and "applied temperature range");
4. Avoid usage in an environment that exposes the filter and lubricator bowl through contact with Chlorine, solvent, aromatic essence, acid and alkali to avoid damage to the Filter and Lubricator bowl.
5. Regularly clean or change filter core. Lubricators and regulators shall be in descending order.
6. Keep the dust away. The dust cover shall be installed in intake and outlet when the device is dismantled and stored.

Preparation unit—F.R.L. combination



GC Series

Specification

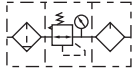
Model	GC200-06	GC200-08	GC300-08	GC300-10	GC300-15	GC400-10	GC400-15	GC600-20	GC600-25	
Fluid	Air									
Port size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"	
Filtering grade	40 μm or 5 μm									
Pressure range	Semi-auto and automatic drain: 0.15~0.9MPa(20~130psi); Manual drain: 0.05~0.9MPa(7~130psi)									
Max. pressure	1.0MPa(145psi)									
Proof pressure	1.5MPa(215psi)									
Temperature range	-20~70°C									
Capacity of drain bowl	10CC		40CC		80CC		230CC			
Capacity of oil bowl	25CC		75CC		160CC		380CC			
Recommended lubricant	ISO VG 32 or equivalent									
Weight	580g		1300g		2360g		5550g			
Constitute	Filter	GF200-06	GF200-08	GF300-08	GF300-10	GF300-15	GF400-10	GF400-15	GF600-20	GF600-25
	Regulator	GR200-06	GR200-08	GR300-08	GR300-10	GR300-15	GR400-10	GR400-15	GR600-20	GR600-25
	Lubricator	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15	GL600-20	GL600-25

Ordering code

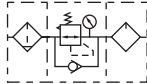
GC200 08 M L F 1 W P K

Symbol

No reflux valve is attached



Reflux valve is attached



Product feature

- Oil dripping adopts gap seal structure, which makes the adjustment of oil supply more reliable.
- Oil feed ring can only make one full turn. The quantity of oil supply, basically taking on linear distribution. The quantity of oil supply can be generally calculated according to the position of graduation ring.
- Filling of oil while the lubricator is under pressure is made possible.
- Special drip nozzle structure will produce negative pressure in oil dripping outlet and the mist flow is minimal.
- Quick and reliable mounting clamps makes it convenient to install and use.
- The performance of pressure adjustment is reliable with high precision.
- The efficiency of eliminating moisture and solid grain is high.
- Three drain types are available: manual drain, semi-auto drain and automatic drain.

Model

- GC200: G200 Series F.R.L unit
- GC300: G300 Series F.R.L unit
- GC400: G400 Series F.R.L unit
- GC600: G600 Series F.R.L unit

Code of reflux valve ②

- Blank: No reverse flow valve is attached
- K: Reverse flow valve is attached

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

Port size

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

Drain type

Drain type	Adaptable product's series
Blank: Semi-auto drain	GC200, GC300
M: Manual drain	GC400, GC600
A: Automatic drain	GC300, GC400, GC600

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 148 for details of reflux valve.

Inner structure

GC200

GC600

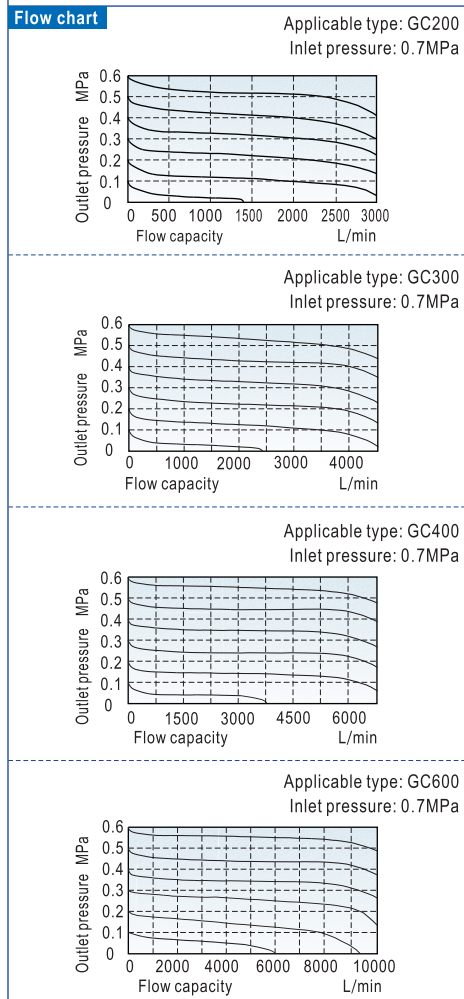
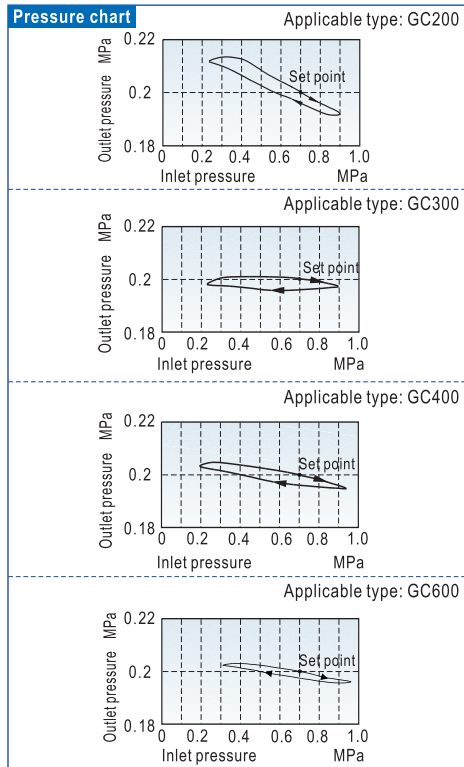
No.	Item	No.	Item
①	G series filter	③	G series regulator
②	Bracket	④	G series lubricator

Preparation unit—F.R.L. combination

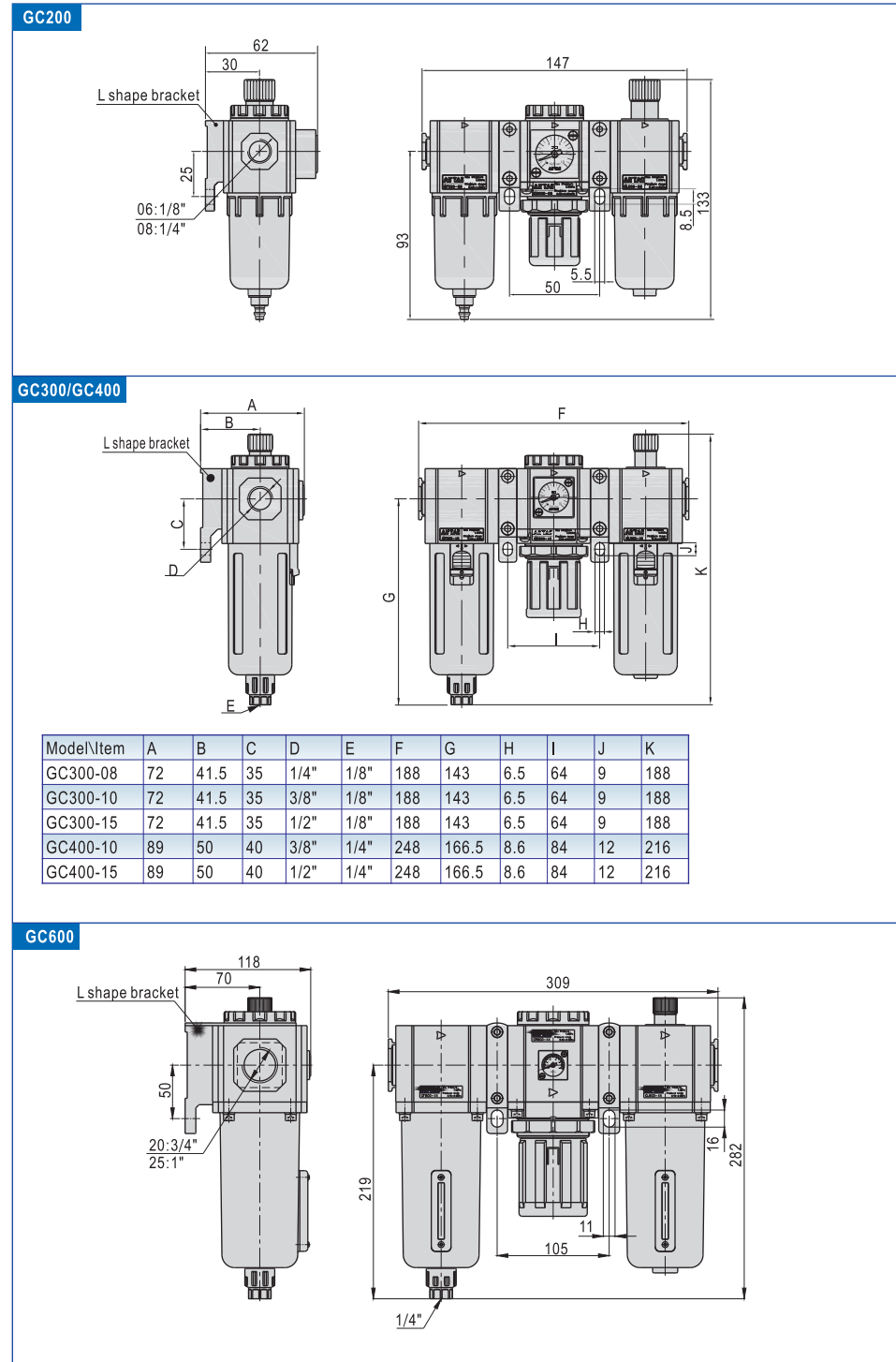


GC Series

Pressure and feature of flow



Dimensions



Preparation unit—FR.L. combination



GFC Series

Specification

Model	GFC200-06	GFC200-08	GFC300-08	GFC300-10	GFC300-15	GFC400-10	GFC400-15	GFC600-20	GFC600-25	
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)									
Max. pressure	1.0MPa(145psi)									
Proof pressure	1.5MPa(215psi)									
Temperature range	-20~70°C									
Capacity of drain bowl	10CC		40CC			80CC		230CC		
Capacity of oil bowl	25CC		75CC			160CC		380CC		
Recommended lubricant	ISO VG 32 or equivalent									
Weight	430g		980g			1950g		4320g		
Constitute	Filter-Regulator	GFR200-06	GFR200-08	GFR300-08	GFR300-10	GFR300-15	GFR400-10	GFR400-15	GFR600-20	GFR600-25
	Lubricator	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15	GL600-20	GL600-25

Ordering code

GFC200 08 M L F 1 W P K

Model

GFC200: G200 Series F.R.L unit
 GFC300: G300 Series F.R.L unit
 GFC400: G400 Series F.R.L unit
 GFC600: G600 Series F.R.L unit

Code of reflux valve ②

Blank: No reverse flow valve is attached
 K: Reverse flow valve is attached

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

Type code

Blank: Standard
 L: Lower pressure ①

Drain type

Drain type	Adaptable product's series
Blank: Semi-auto drain	GFC200, GFC300
M: Manual drain	GFC400, GFC600
A: Automatic drain	GFC300, GFC400, GFC600

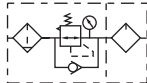
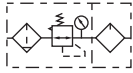
Port size

Model	Port size
GFC200	06: 1/8"
	08: 1/4"
GFC300	08: 1/4"
	10: 3/8"
GFC400	15: 1/2"
	10: 3/8"
GFC600	20: 3/4"
	25: 1"

Symbol

No reflux valve is attached

Reflux valve is attached

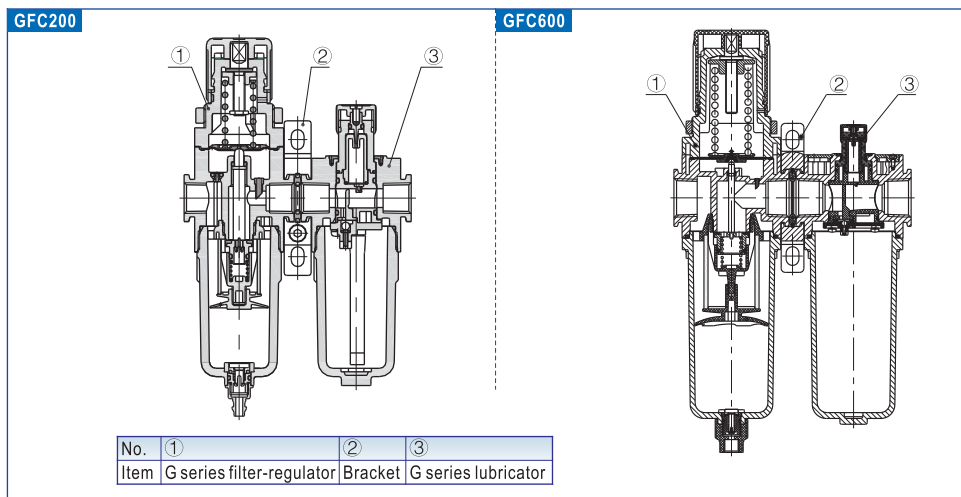


Product feature

1. Quick and reliable mounting clamps makes it convenient to install and use.
2. The performance of pressure adjustment is reliable with high precision.
3. The efficiency of eliminating moisture and solid grain is high.
4. Three drain types are available: manual drain, semi-auto drain and automatic drain.

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

Inner structure



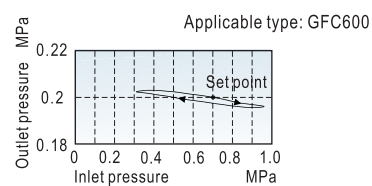
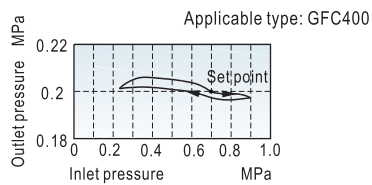
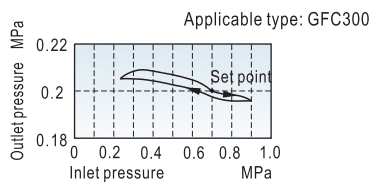
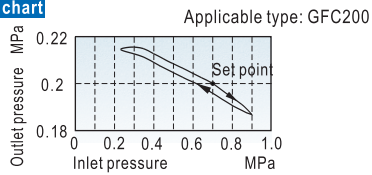
Preparation unit—FR.L. combination



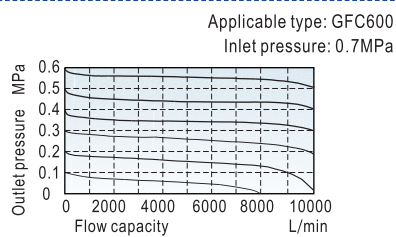
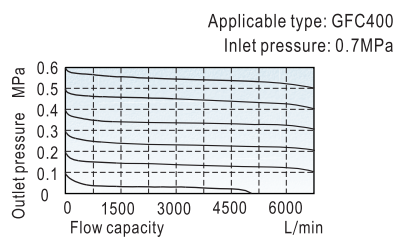
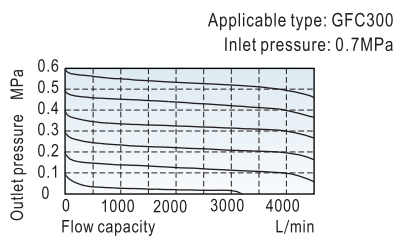
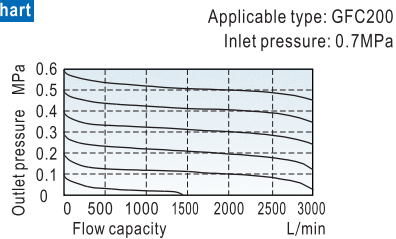
GFC Series

Pressure and feature of flow

Pressure chart

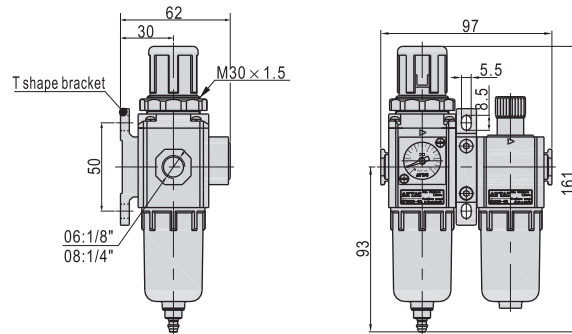


Flow chart

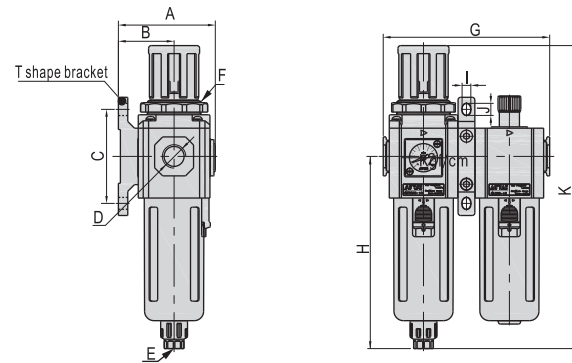


Dimensions

GFC200

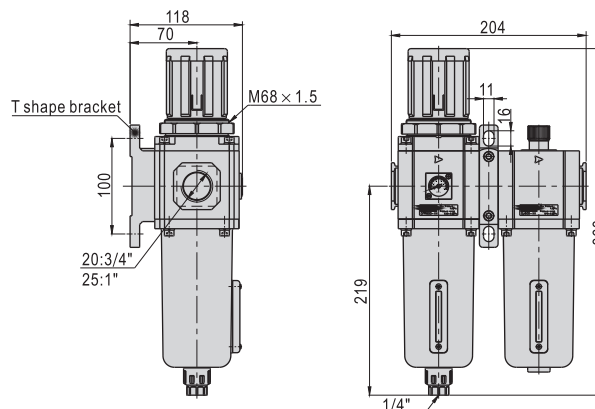


GFC300/GFC400



Model/Item	A	B	C	D	E	F	G	H	I	J	K
GFC300-08	72	41.5	70	1/4"	1/8"	M40x1.5	124	143	6.5	9	225.5
GFC300-10	72	41.5	70	3/8"	1/8"	M40x1.5	124	143	6.5	9	225.5
GFC300-15	72	41.5	70	1/2"	1/8"	M40x1.5	124	143	6.5	9	225.5
GFC400-10	89	50	80	3/8"	1/4"	M55x2.0	164	166.5	8.6	12	270.5
GFC400-15	89	50	80	1/2"	1/4"	M55x2.0	164	166.5	8.6	12	270.5

GFC600



GFC



Preparation unit—Filter & regulator



GFR Series

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 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)								
Max. pressure	1.0MPa(145psi)								
Proof pressure	1.5MPa(215psi)								
Temperature range	-20~70°C								
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"

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

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

- Blank: Bracket
- J: No bracket

Drain type

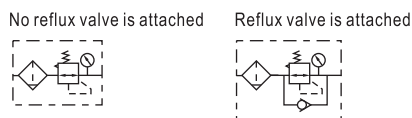
Drain type	Adaptable product's series
Blank: Semi-auto drain	GFR200, GFR300
M: Manual drain	GFR400, GFR600
A: Automatic drain	GFR300, GFR400, GFR600

Type code

- Blank: Standard
- L: Lower pressure ①

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

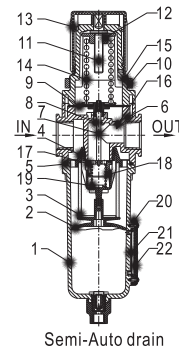
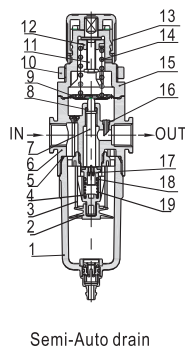


Product feature

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 separate the liquid from the air and reliably filter the solid grain.
6. The filtering grade includes 5 μm and 40 μm (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

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 μm Agglomerated by brass grain
		5 μm 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

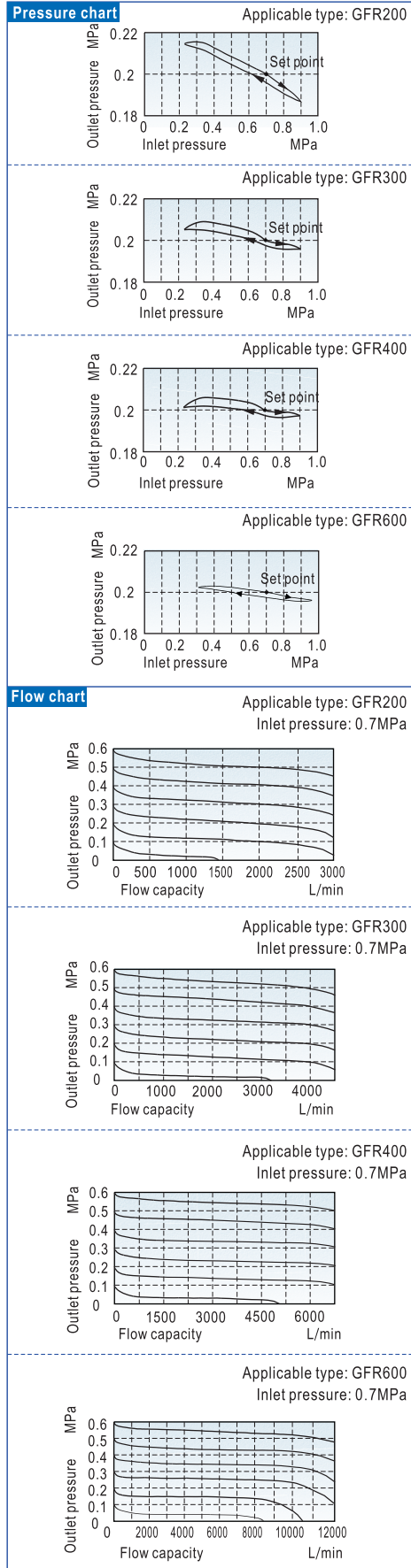


Preparation unit—Filter & regulator

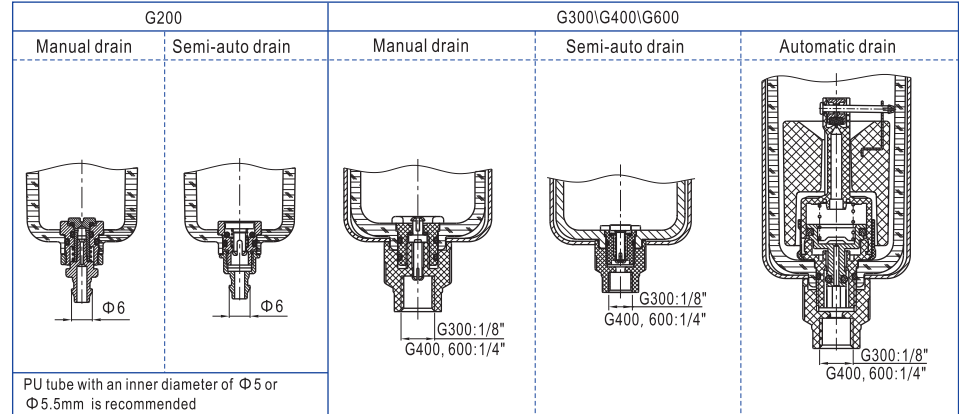


GFR Series

Pressure and feature of flow



Selection of drain mode



Dimensions

