



Preparation unit——G Series

■ Production's series

F.R.L Combination: GC Series 136	Filter: GF Series 142	G Series(Metallic bowl type) 149
		
FR.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

AIRTAC

GC Series



Specification

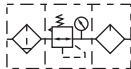
Model		GC200-06	GC200-08	GC300-08	GC300-10	GC300-15	GC400-10	GC400-15	GC600-20	GC600-25
Fluid		Air								
Port size		1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtering grade		40 μ m or 5 μ m								
Pressure range		Semi-auto and automatic drain:0.15~0.9MPa(20~130psi);Manual drain:0.05~0.9MPa(7~130psi)								
Max. pressure		1.0MPa(145psi)								
Proof pressure		1.5MPa(215psi)								
Temperature range		-20~70℃								
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

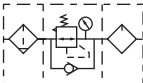
GC200 08 M L ☐ F 1 W P K

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

Port size

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

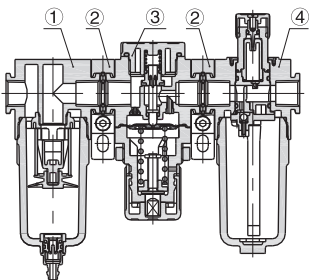
Pressure gauge

Blank: Pressure gauge
N: No pressure gauge

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

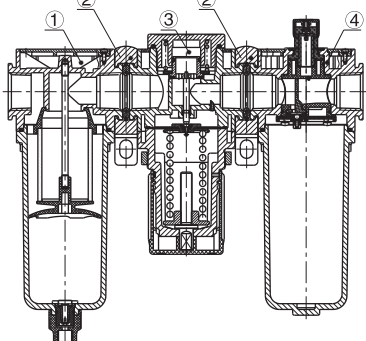
Inner structure

GC200



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

GC600



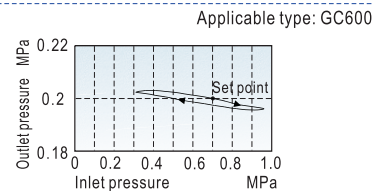
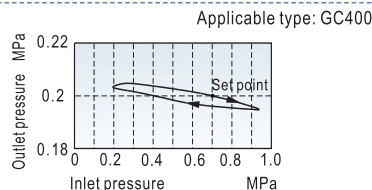
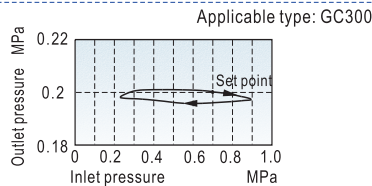
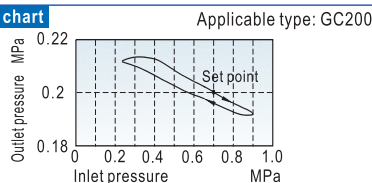
Preparation unit——F.R.L. combination



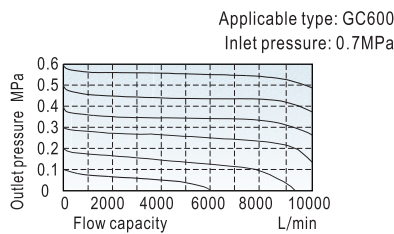
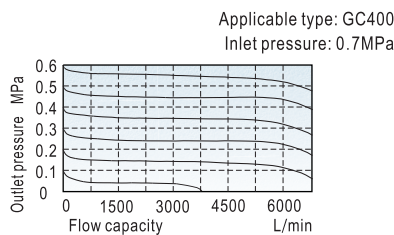
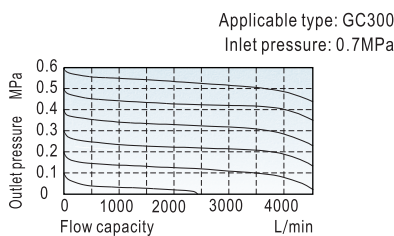
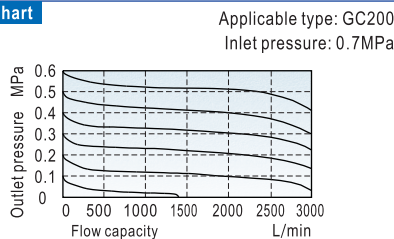
GC Series

Pressure and feature of flow

Pressure chart

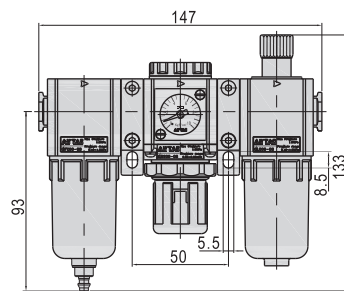
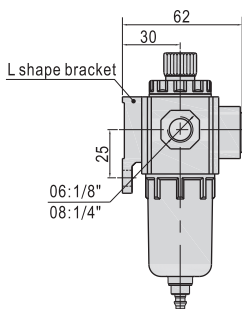


Flow chart

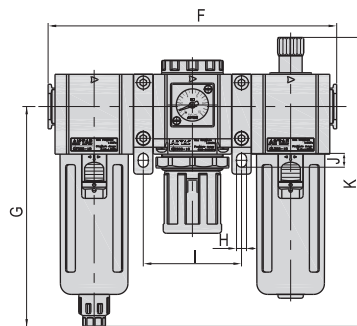
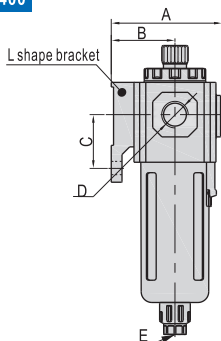


Dimensions

GC200

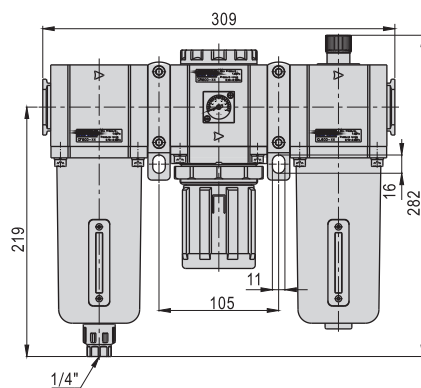
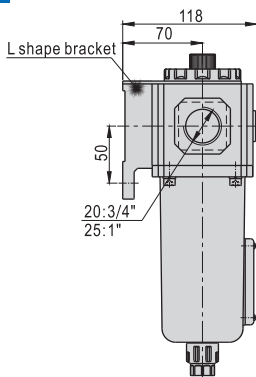


GC300/GC400



Model\Item	A	B	C	D	E	F	G	H	I	J	K
GC300-08	72	41.5	35	1/4"	1/8"	188	143	6.5	64	9	188
GC300-10	72	41.5	35	3/8"	1/8"	188	143	6.5	64	9	188
GC300-15	72	41.5	35	1/2"	1/8"	188	143	6.5	64	9	188
GC400-10	89	50	40	3/8"	1/4"	248	166.5	8.6	84	12	216
GC400-15	89	50	40	1/2"	1/4"	248	166.5	8.6	84	12	216

GC600



GC

Preparation unit——FR.L. combination

AIRTAC

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℃								
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
	Lubricator	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15	GL600-20

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

Port size

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

Type code

Blank: Standard
L: Lower pressure ①

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

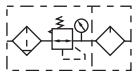
F: Square
C: Circular

Pressure gauge

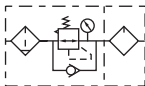
Blank: Pressure gauge
N: No pressure gauge

Symbol

No reflux valve is attached



Reflux valve is attached

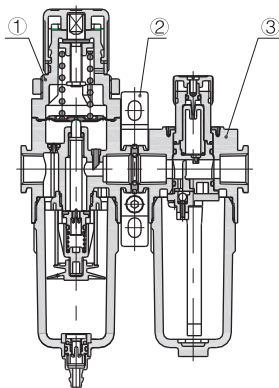


Product feature

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.

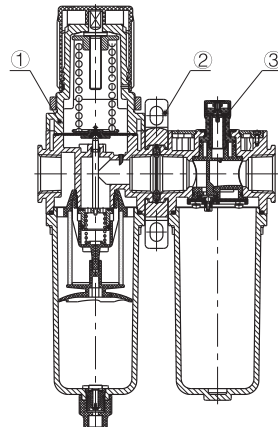
Inner structure

GFC200



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

GFC600

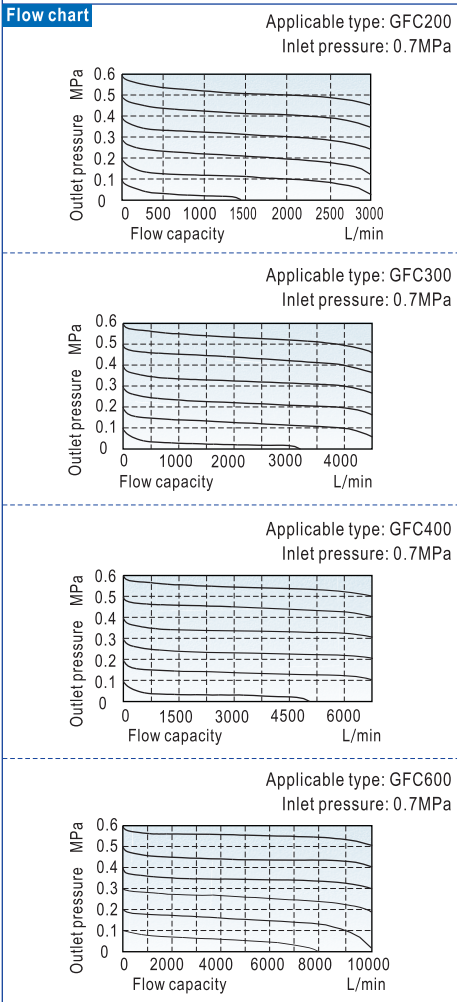
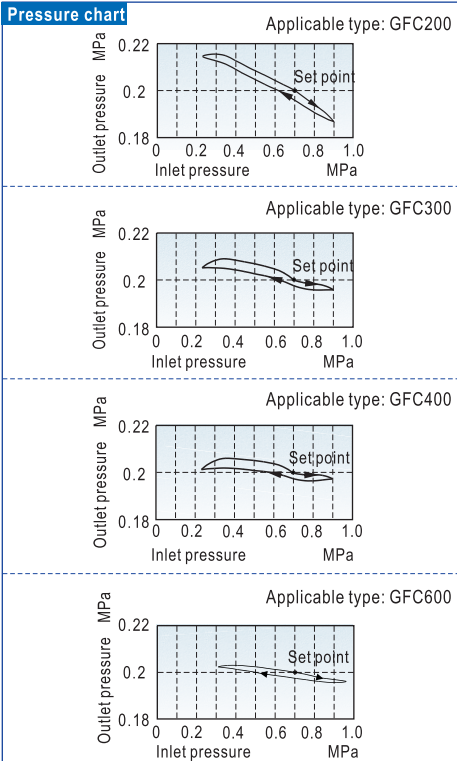


Preparation unit——FR.L. combination

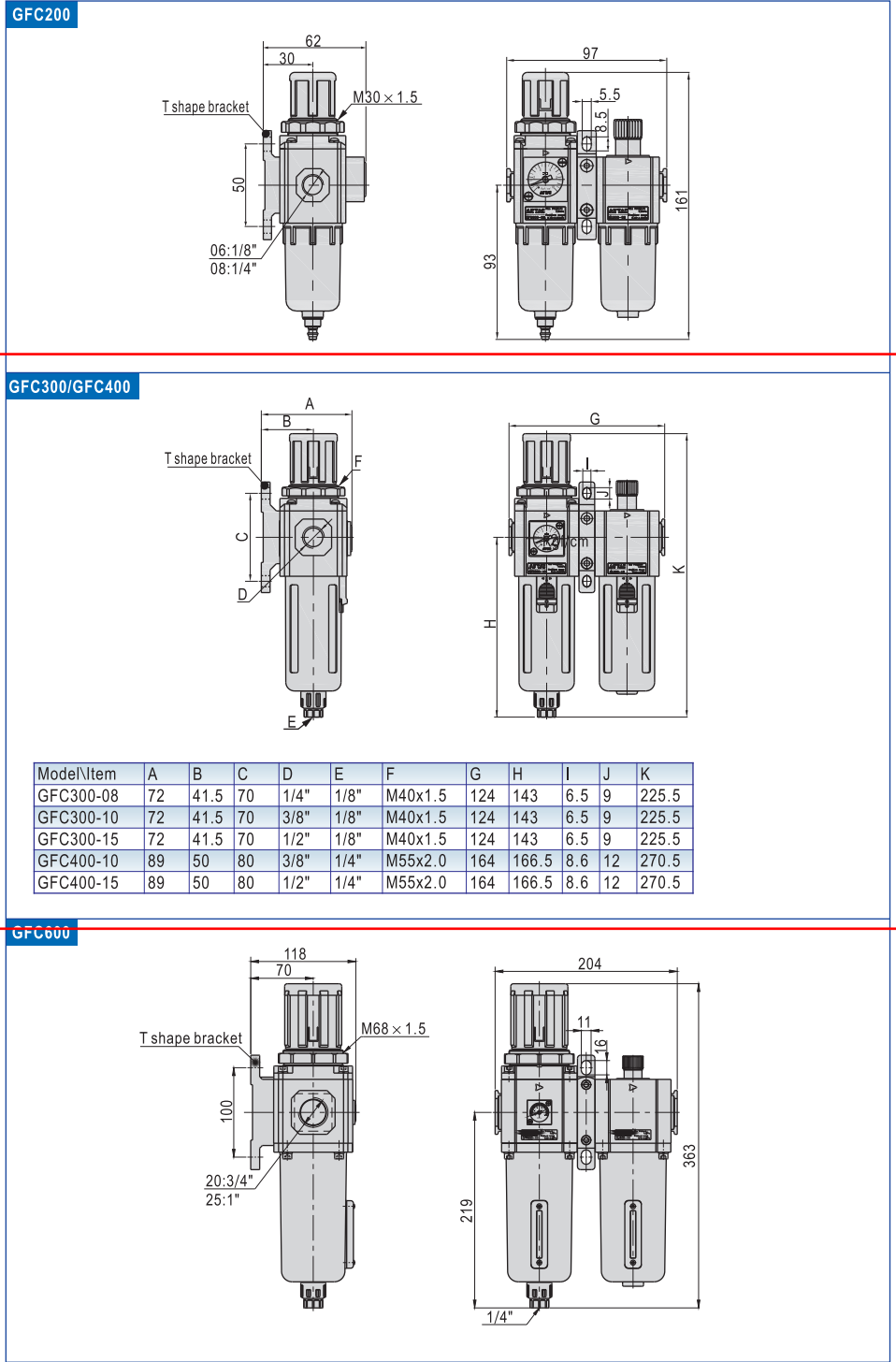
GFC Series



Pressure and feature of flow



Dimensions



Preparation unit——Filter & regulator

AIRTAC

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

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

Accessories

Blank: Bracket
J: No bracket

Port size

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

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

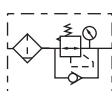
Blank: Standard
L: Lower pressure ①

Symbol

No reflux valve is attached



Reflux valve is attached



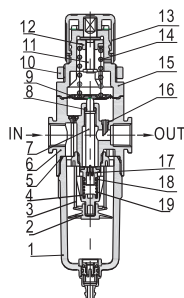
Product feature

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 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.

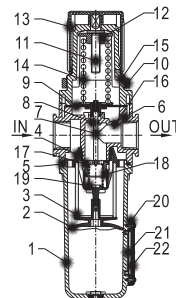
① The maximum work pressure of lower pressure type is 0.4MPa(58psi). ② Please refer to page 148 for details of reflux valve.

Inner structure 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 40 μm Agglomerated by brass grain others 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



Semi-Auto drain



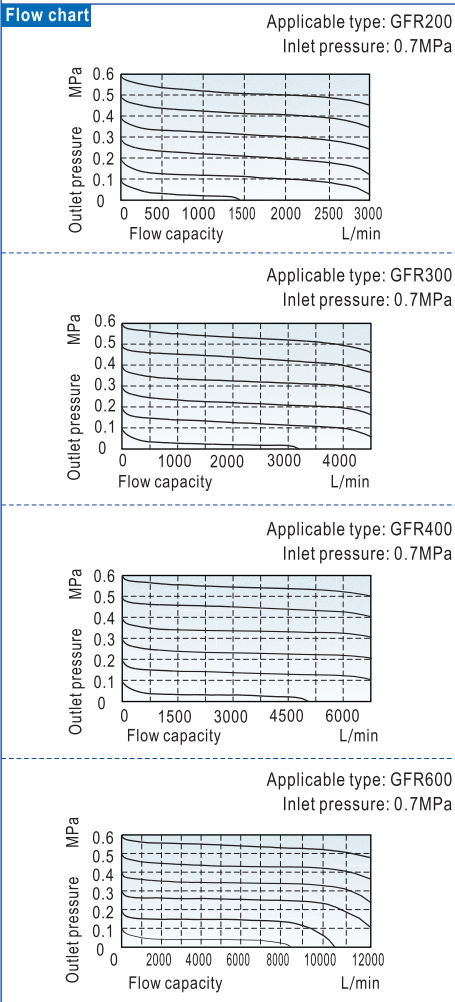
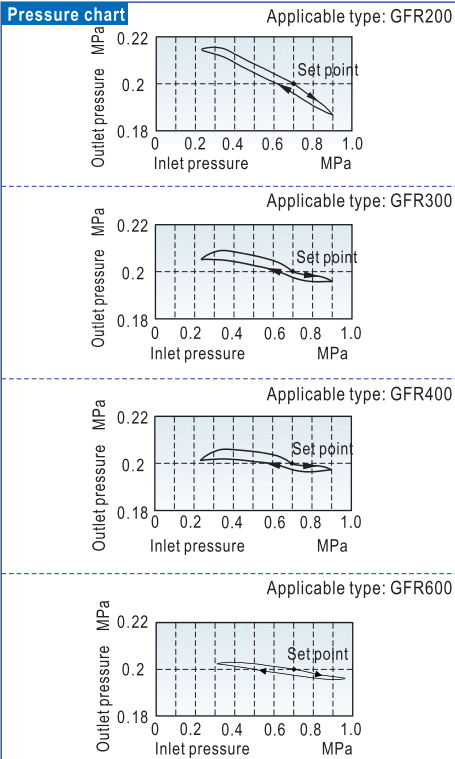
Semi-Auto drain

Preparation unit——Filter & regulator

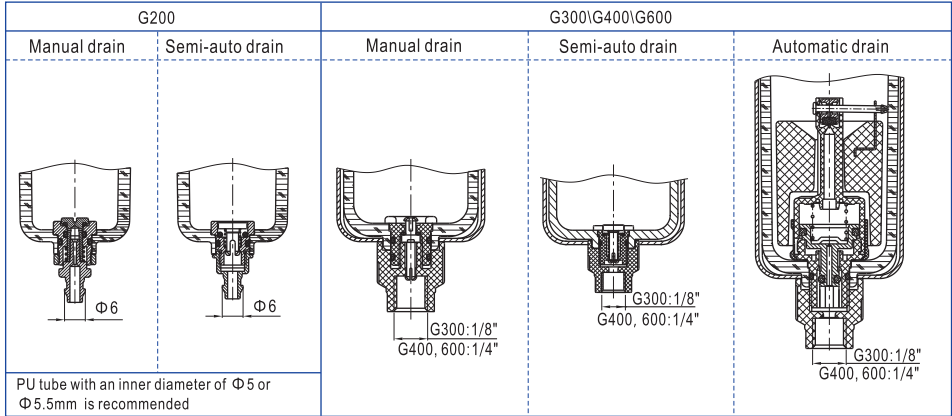
AIRTAC

GFR Series

Pressure and feature of flow



Selection of drain mode



GFR

Dimensions

