



Preparation unit——G Series

■ Production's series

F.R.L Combination: GC Series 142	Filter: GF Series 148	G Series(Metallic bowl type) 155
		
FR.L Combination: GFC Series 144	Regulator: GR Series 150	Soft start-up valve: GV Series 156
		
Filter & Regulator: GFR Series 146	Lubricator: GL Series 152	Safe on-off valve: GZ Series 157
		
	Reflux valve: GA315 Series 154	Air distribution block: GA Series 158
		



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. The medium used or installation environment shall be noticed. The matters with chlorine, carbon compound, aromatic compound and oxidizing acid and alkali shall be avoided to prevent the damage of bowl and oil 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

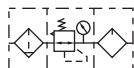
GC Series



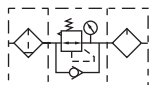
GC

Symbol

No reflux valve is attached



Reflux valve is attached



Product feature

1. Oil dripping adopts gap seal structure, which makes the adjustment of oil supply more reliable.
2. Adjustable ring for oil supply can only revolve for one circle. 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.
3. It is available to add oil under pressure;
4. Special drip nozzle structure will produce negative pressure in oil dripping outlet and the mist flow is minimal.
5. Quick and reliable fixation makes it convenient to install and use.
6. The performance of pressure adjustment is reliable with high precision.
7. The efficiency of eliminating moisture and solid grain is high.
8. Three drain types are available: manual drain, semi-auto drain and automatic drain.

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

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 reflux valve is attached
K: Reflux valve is attached

Port size

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

Thread type

P: PT
T: NPT
G: G

Filtering grade

Blank: 40 μm
W: 5 μm

Scale

1: MPa
2: psi
3: bar

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

Pressure gauge shape

F: Square
C: Circular

Type code

Blank: Standard
L: Lower pressure ①

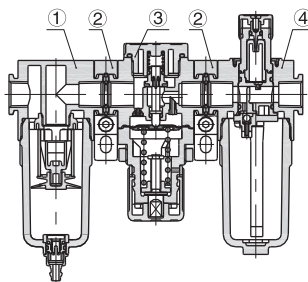
Pressure gauge

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 154 for details of reflux valve.

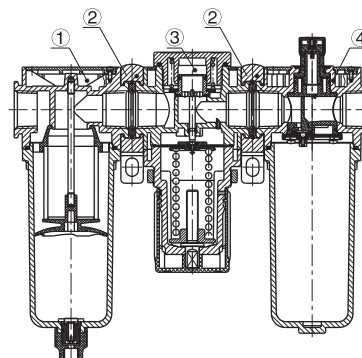
Inner structure

GC200



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

GC600



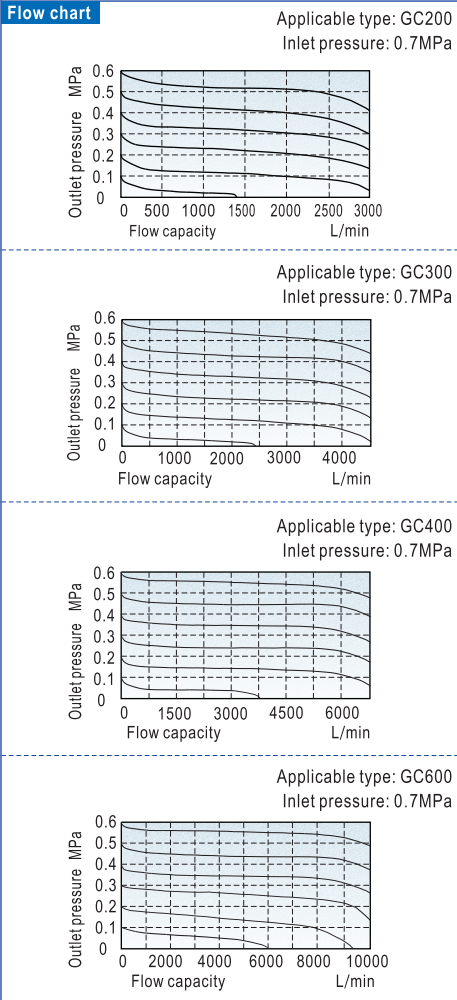
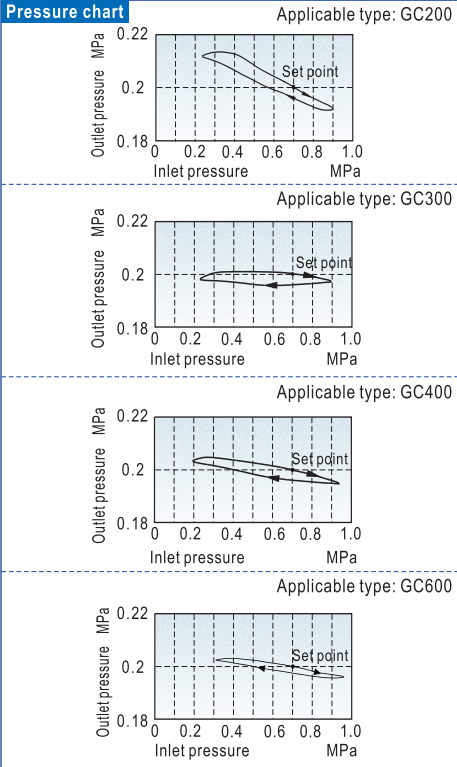
Preparation unit——F.R.L. combination

GC Series

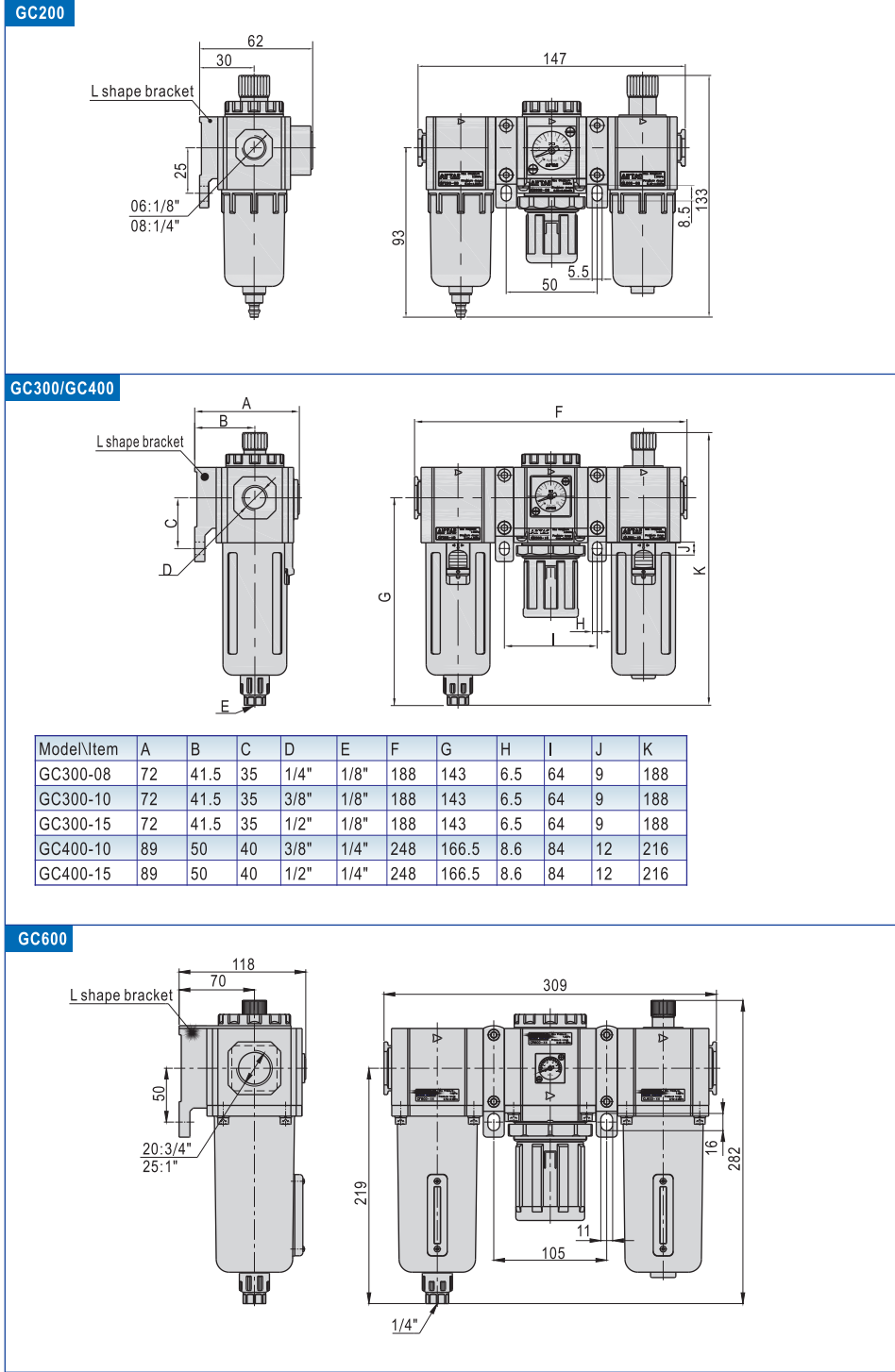


GC

Pressure and feature of flow



Dimensions



Preparation unit——FR.L combination

AIRTAC

GFC Series



GFC

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 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		430g		980g			1950g		4320g	
Constitute	Filter-Regulator Lubricator	GFR200-06	GFR200-08	GFR300-08	GFR300-10	GFR300-15	GFR400-10	GFR400-15	GFR600-20	GFR600-25
		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 reflux valve is attached
K: Reflux valve is attached

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"

Thread type

P: PT
T: NPT
G: G

Filtering grade

Blank: 40 μm
W: 5 μm

Scale

1: MPa
2: psi
3: bar

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

Pressure gauge shape

F: Square
C: Circular

Type code

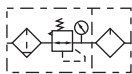
Blank: Standard
L: Lower pressure ①

Pressure gauge

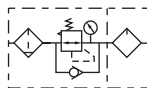
Blank: Pressure gauge
N: No pressure gauge

Symbol

No reflux valve is attached



Reflux valve is attached



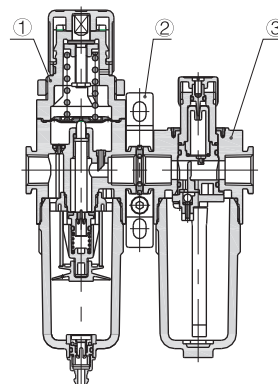
Product feature

1. Quick and reliable fixation 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 154 for details of reflux valve.

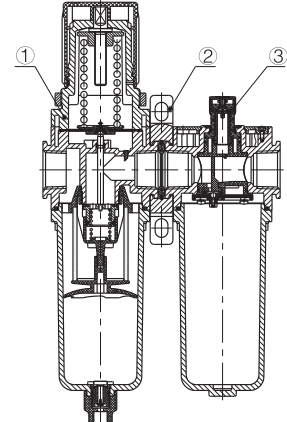
Inner structure

GFC200



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

GFC600

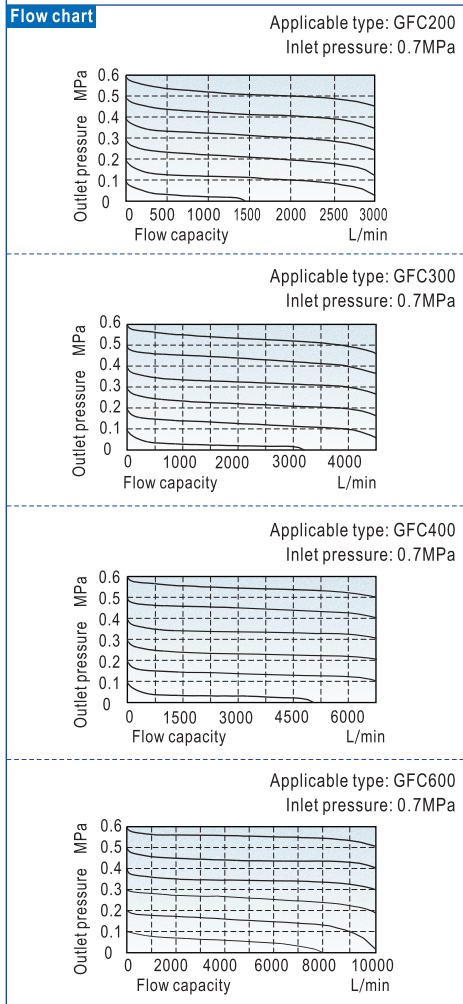
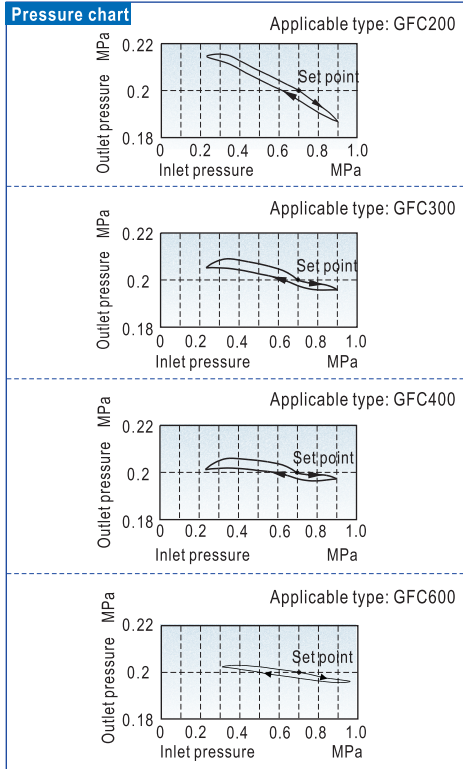


Preparation unit——FR.L. combination

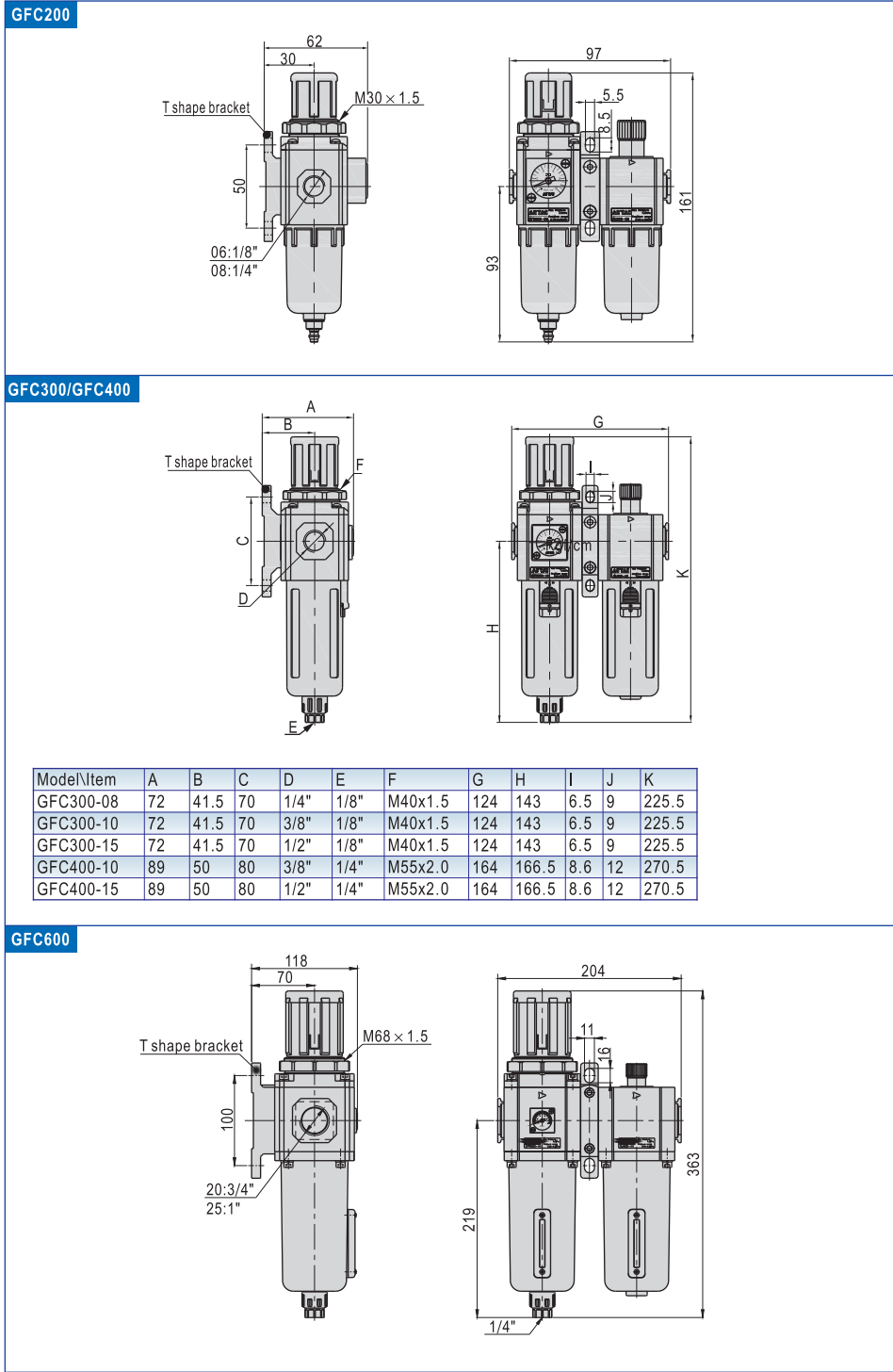
GFC Series



■ Pressure and feature of flow



■ Dimensions



Preparation unit——Filter & regulator

AIR TAC

GFR Series

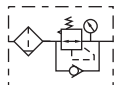


Symbol

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 makes air flowing through properly rotate, which can more effectively separate the liquid from gas and reliably filter the solid grain;
6. The filtering grade includes 5 μ m and 40 μ m (optional).
7. Three drain types are available: manual drain, semi-auto drain and automatic drain.
8. The bracket can be selected for installation.

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 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°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 reflux valve is attached
K: Reflux 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"
	15: 1/2"
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

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

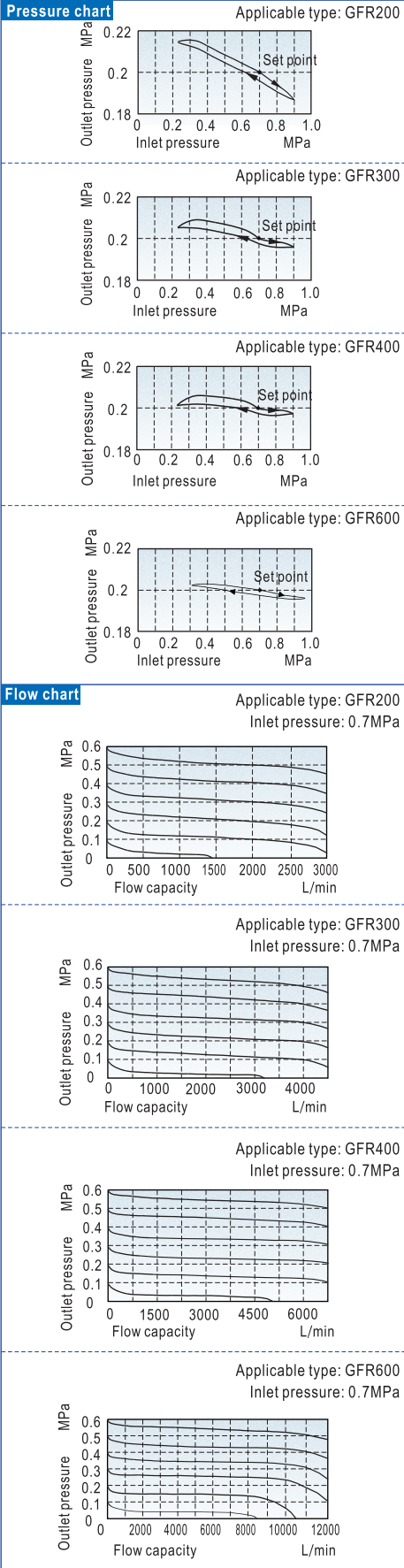
GFR200		GFR600		No.	Item	Material
 Semi-Auto drain	 Semi-Auto drain			1	Drain bowl	Aluminum alloy(GFR600)\PC(others)
				2	Umbrella baffle	High viscosity POM
				3	Filter core	GFR600 Agglomerated by brass grain others 40 μ m Agglomerated by brass grain 5 μ m Makrolon fiber
				4	Air guider	High viscosity 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

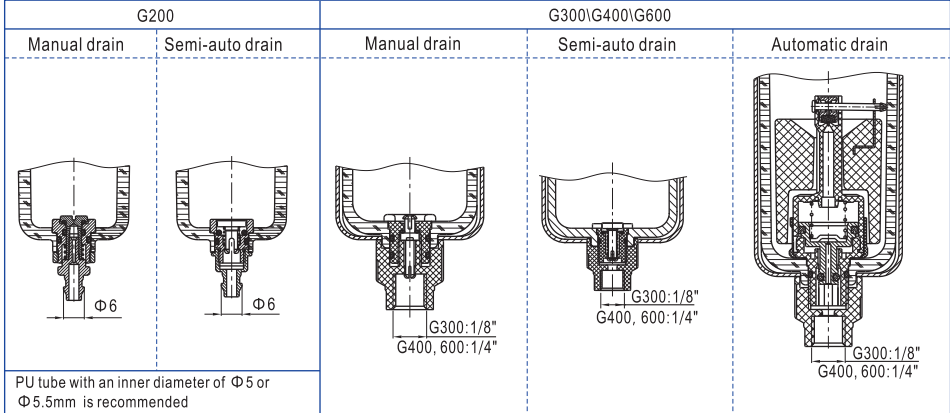
GFR Series



Pressure and feature of flow



Selection of drain mode



Dimensions

