






Compendium of GP Series preparation unit

P207	Product feature	Photo	P209	Product feature	Photo
GPF Series Oil mist filter	<ul style="list-style-type: none"> ● The pressure loss is low ● Filter efficiency more than 99% ● 0.3μm and 0.01μm filtering grade(Optional) ● With fixing bracket ● 200/300/400 Series ● Port size: 1/8" 1/4" 3/8" 1/2" 		GPR Series Precision regulator	<ul style="list-style-type: none"> ● Higher precision adjustment pressure, sensitive to reaction ● Excellence pressure chart and flow chart ● Lower, Middle and high pressure are optional ● With fixing bracket ● Port size: 1/8" 1/4" 3/8" 1/2" 	
GPR Series precision Filter-Regulator	<ul style="list-style-type: none"> ● The pressure loss is low ● Filter efficiency more than 99% ● 0.3μm and 0.01μm filtering grade(Optional) ● With fixing bracket ● 200/300/400 Series ● Port size: 1/8" 1/4" 3/8" 1/2" 				

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 dust away. The dust cover shall be installed in intake and outlet when the device is dismantled and stored.

GPF Series Oil mist filter



Specification

Model	GPF20006	GPF20008	GPF30008	GPF30010	GPF40010	GPF40015
Fluid	Air					
Port size [Note1]	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"
Filtering grade	M	0.3 μm (Capture efficiency 99.9%)				
	D	0.01 μm (Capture efficiency 99.9%)				
Pressure range	0.15~1.0MPa(20~145psi)					
Proof pressure	1.5MPa(215psi)					
Temperature range	-5~70°C(Unfreeze)					
Rated flow capacity [2]	M	200L/min	450L/min	1100L/min		
	D	120L/min	240L/min	600L/min		
Bowl Material	Polycarbonate, Nylon, Metal					
Capacity of drain bowl	19CC		54.5CC		89CC	
Weight	PC bowl	207g	356g	620g		
	Metallic bowl	238g	397g	627g		

[Note1] PT thread, G thread and NPT thread are available.

[Note2] Conditions: inlet pressure 0.7MPa, outlet pressure 0.5MPa. The rated flow varies with the inlet pressure. If the flow exceeds the rated flow, oil will flow to the secondary side. Please note.

Symbol



Product feature

1. Low pressure drop, high oil mist remove efficiency up to 99% and large drain bowl.
2. 0.3 μm and 0.01 μm filtering grade are available.
3. Two drain types are available: manual and semi-auto drain, and automatic drain.
4. To meet the needs of different environment the bowl material has Poly Carbonate, nylon and metal can be selected.
5. Monomeric products can select the bracket for installation, others can be used with F.R.L Combination.

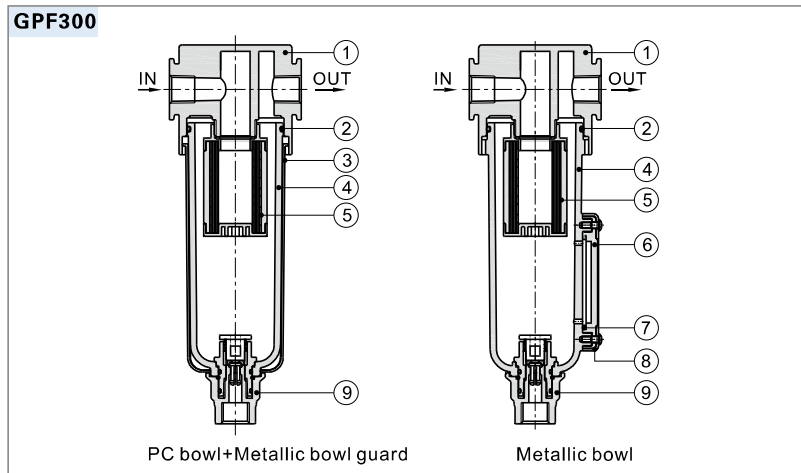
Ordering code

GPF300 08 M G

① ② ③ ④ ⑤ ⑥ ⑦

① Model	② Bowl Material	③ Port size	④ Drain type	⑤ Accessories	⑥ Filtering grade	⑦ Thread type
GPF200: 200 Series Oil mist filter	Blank: PC bowl+Metallic bowl guard	06: 1/8" 08: 1/4"	Blank: Manual and Semi-auto drain A: Automatic drain	Blank: Bracket J: No bracket	M: 0.3 μm D: 0.01 μm	Blank: PT G: G T: NPT
GPF300: 300 Series Oil mist filter	C: Metallic bowl	08: 1/4" 10: 3/8"				
GPF400: 400 Series Oil mist filter	N: Nylon bowl+Metallic bowl guard	10: 3/8" 15: 1/2"				

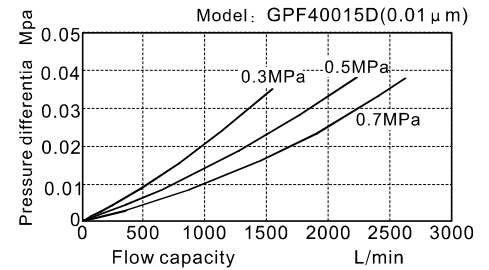
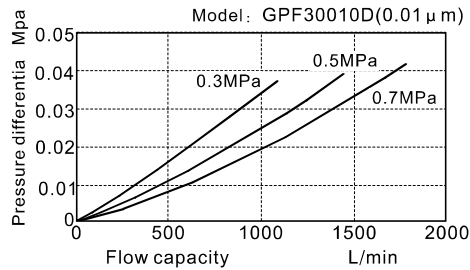
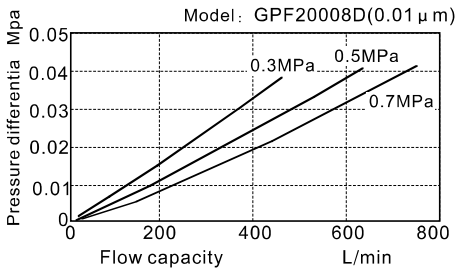
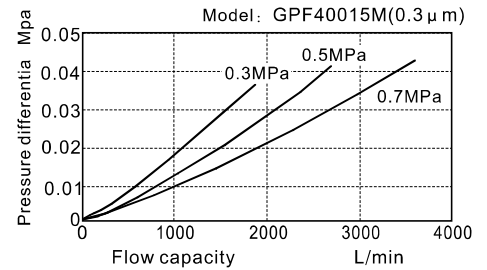
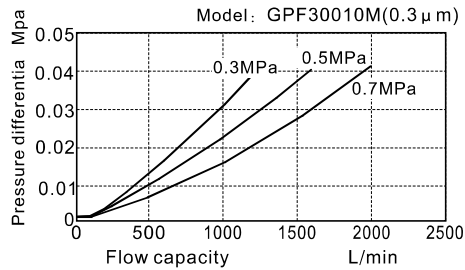
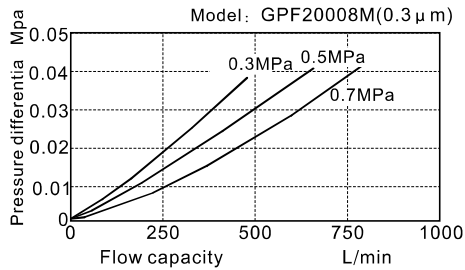
Innerstructure



No.	Item	Material
1	Body	Aluminium alloy
2	O-ring	NBR
3	Meter cover	SPCC
4	Drain bowl	PC\nylon\aluminium alloy
5	Filter core	Polymer materials
6	Liquid meter inside cover	PC
7	Liquid meter seal	NBR
8	Liquid meter cover	SPCC
9	Drain connection	Plastic

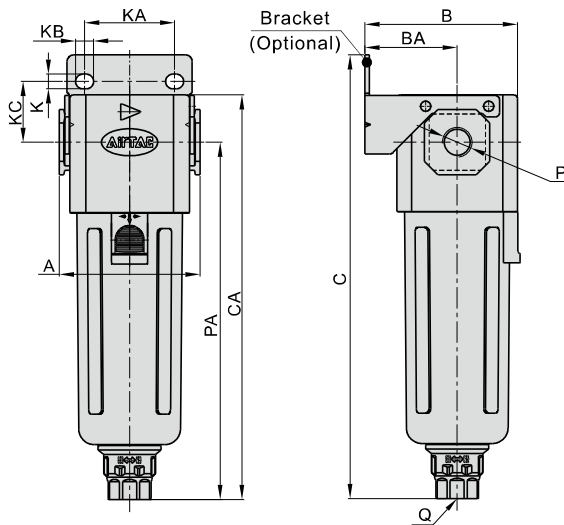
GP Series Oil mist filter

Flow chart

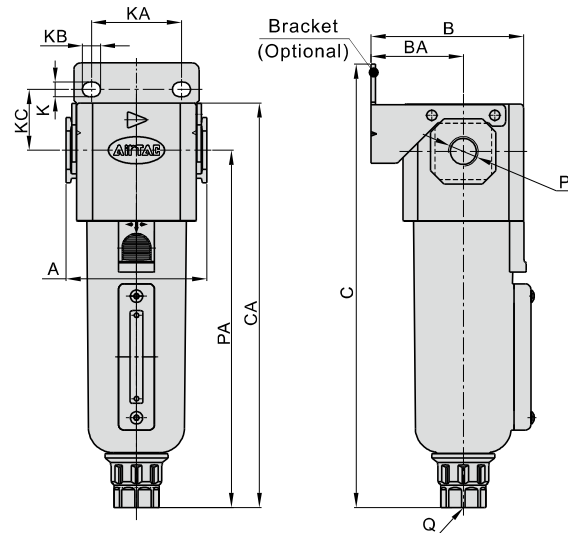


Dimensions

PC bowl+Metallic bowl guard



Metallic bowl



Model\Item	A	B	BA	C	CA	K	KA	KB	KC	P	PA	Q
GPF200(C/N)06	52.5	54.5	33	150	137	5.4	27	8.4	23	1/8"	120	M5X0.8
GPF200(C/N)08	52.5	54.5	33	150	137	5.4	27	8.4	23	1/4"	120	M5X0.8
GPF300(C/N)08	62.5	67.5	41	197	179	6.5	40	8	27	1/4"	158	G1/4
GPF300(C/N)10	62.5	67.5	41	197	179	6.5	40	8	27	3/8"	158	G1/4
GPF400(C/N)10	80	84	50	220	202.5	8.5	55	11	33.5	3/8"	177.5	G1/4
GPF400(C/N)15	80	84	50	220	202.5	8.5	55	11	33.5	1/2"	177.5	G1/4

GPR Series Precision Regulator



Specification

Model	GPR20006	GPR30008	GPR40008	GPR40010	GPR40015
Fluid	Air				
Port size [Note1]	1/8"	1/4"	1/4"	3/8"	1/2"
Max. supply pressure	1.0MPa(145psi)				
Operating pressure	Lower pressure	0.005~0.2MPa(0.73~29psi)		0.01~0.2MPa(1.45~29psi)	
	Medium pressure	0.01~0.4MPa(1.45~58psi)			
	High pressure	0.01~0.8MPa(1.45~116psi)			
Sensitivity	Within 0.2%F.S.				
Repeatability	Within ±0.5%F.S.				
Air consumption (ANR)	≤4L/min	≤4L/min	≤9.5L/min	≤11.5L/min	
Temperature range	-20~70°C(Unfreeze)				
Weight	144g	336g	717g		

[Note1] PT thread, G thread and NPT thread are available.

Symbol



Product feature

1. High pressure regulating accuracy and rapid-response.
2. Good pressure and flow chart.
3. Easy installation, it can be installed independently by bracket or directly with existing filter combination components of module type.
4. In addition to high pressure type, the type of medium pressure and lower pressure can be selected.

Ordering code

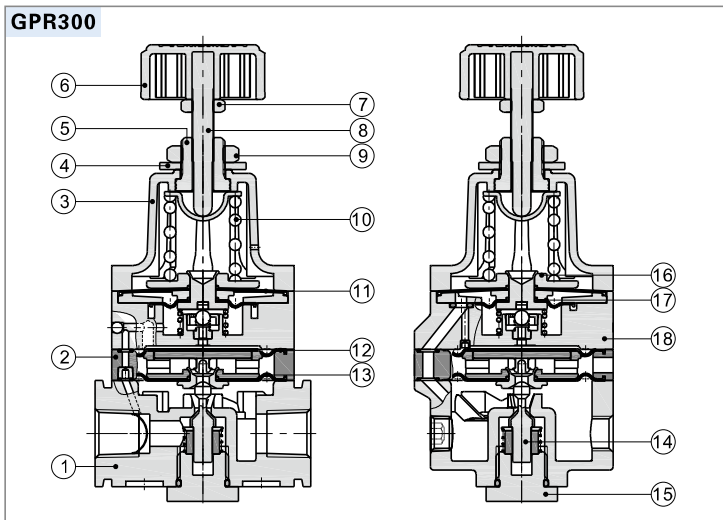
GPR300 08 H □ □ G

① ② ③ ④ ⑤ ⑥

① Model	② Port size	③ Regulating pressure range	④ Accessories	⑤ Pressure gauge	⑥ Thread type [Note1]
GPR200: 00 Series Precision Regulator	06: 1/8"	L: 0.005~0.2MPa(0.73~29psi) M: 0.01~0.4MPa(1.45~58psi)	Blank: Bracket J: No bracket	Blank: With pressure gauge N: Without pressure gauge	Blank: PT(Scale :MPa&psi) G: G(Scale:MPa&bar) T: NPT(Scale:bar&psi)
GPR300: 300 Series Precision Regulator	08: 1/4"	H: 0.01~0.8MPa(1.45~116psi)			
GPR400: 400 Series Precision Regulator	08: 1/4" 10: 3/8" 15: 1/2"	L: 0.01~0.2MPa(1.45~29psi) M: 0.01~0.4MPa(1.45~58psi) H: 0.01~0.8MPa(1.45~116psi)			

[Note1] Please consult us for special correspondence.

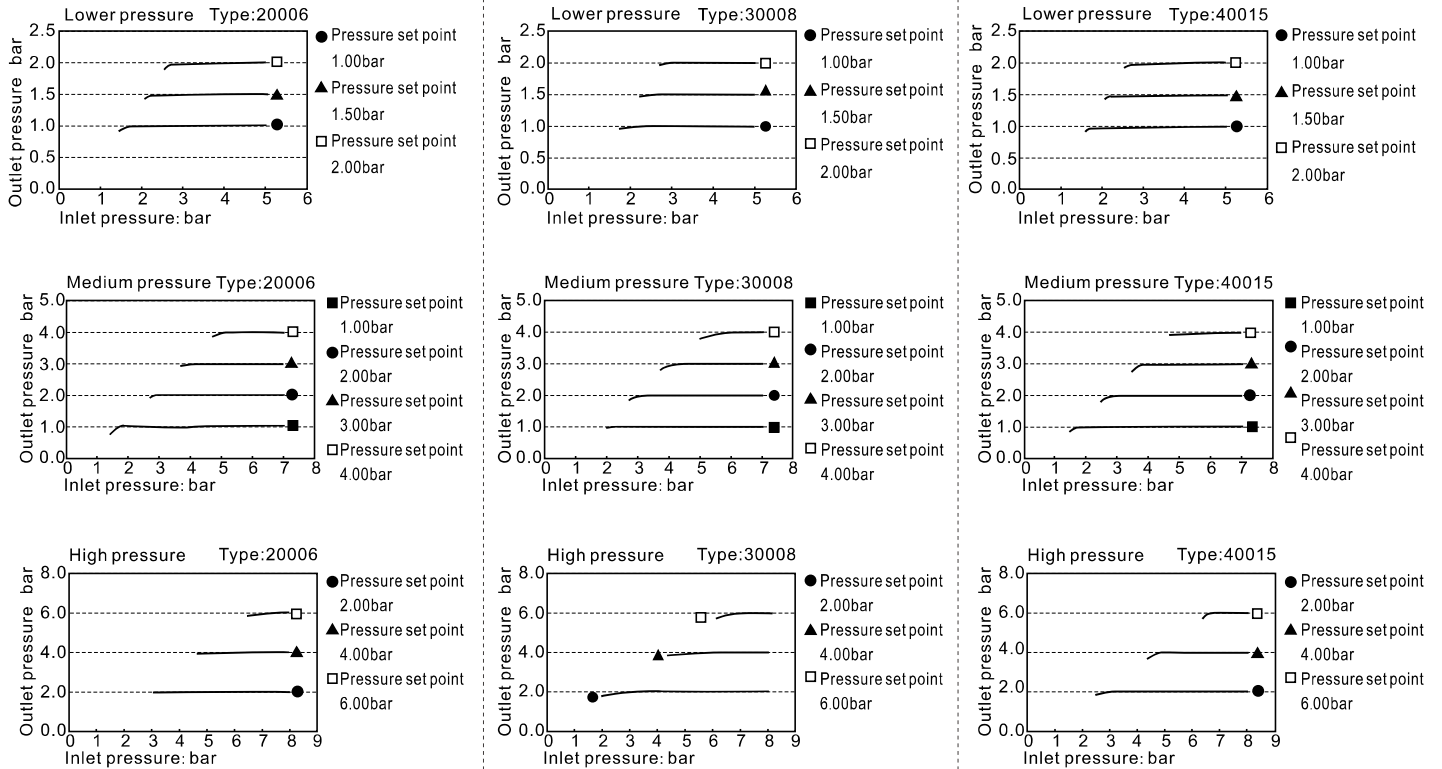
Inner structure



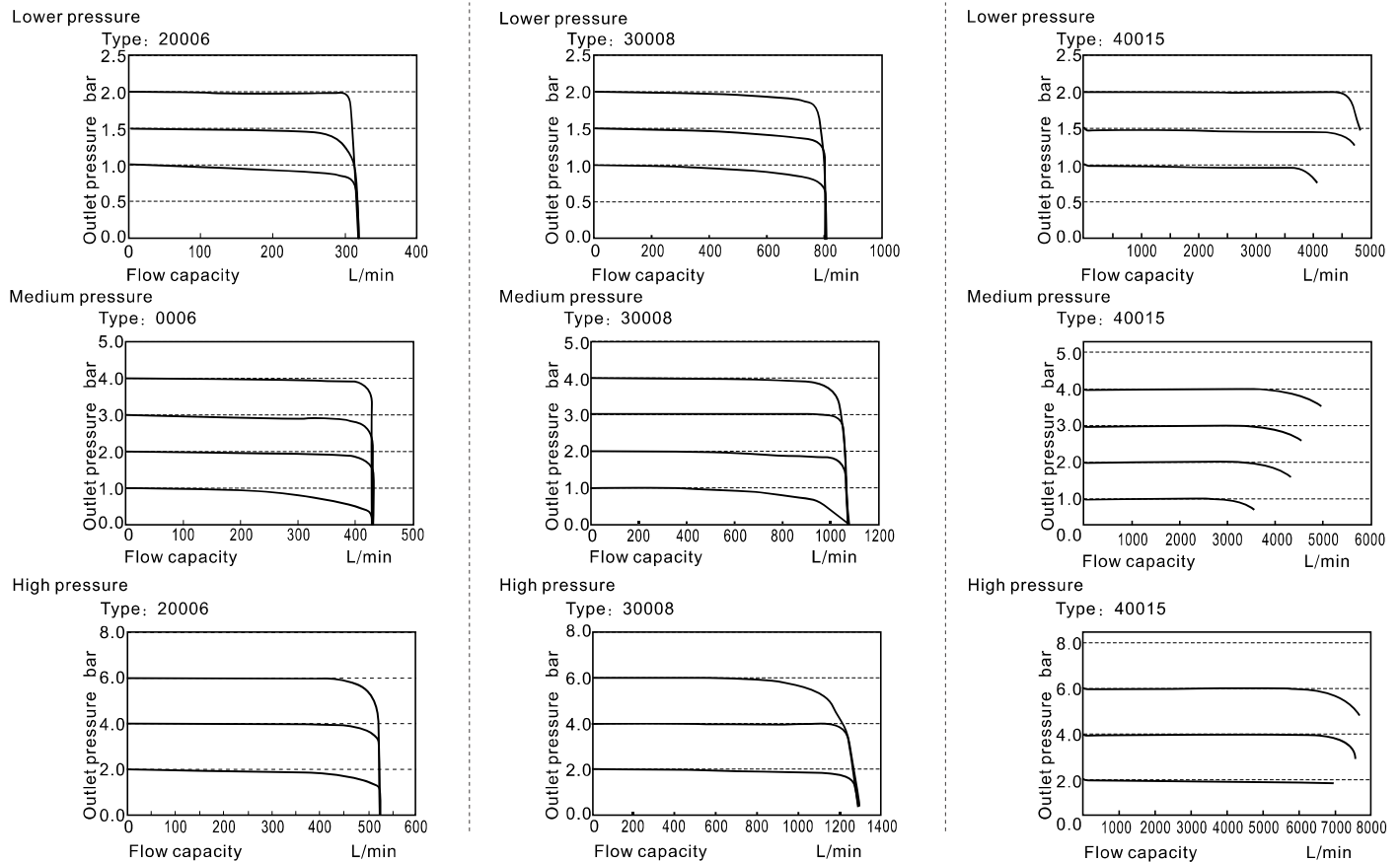
No.	Item	Material
1	Regulator body	Aluminum alloy
2	Pilot body	Plastic
3	Regulator seat	Aluminum alloy
4	Bracket gasket	SPCC
5	Adjusting nut	Carbon steel
6	Regulator knob	Plastic
7	Nut	Carbon steel
8	Regulator spindle	Carbon steel
9	Nut	Carbon steel
10	Spring	Spring steel
11	Pilot upper diaphragm	NBR
12	Regulator upper diaphragm	NBR
13	Regulator lower diaphragm	NBR
14	Main valve	Stainless steel+NBR
15	Bonnet	Carbon steel
16	Pilot diaphragm upper hard core	Aluminum alloy
17	Pilot lower diaphragm	NBR
18	Nozzle body	Aluminum alloy

GPR Series Precision Regulator

Pressure chart



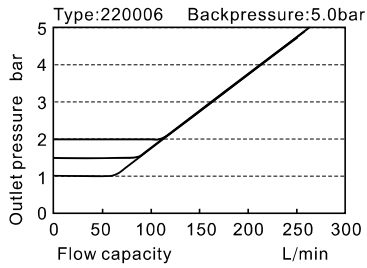
Flow chart



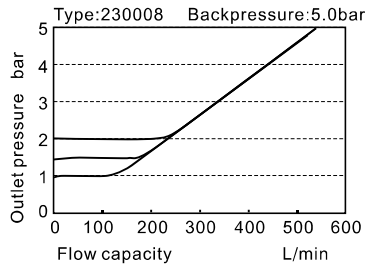
GPR Series Precision Regulator

Overflow chart

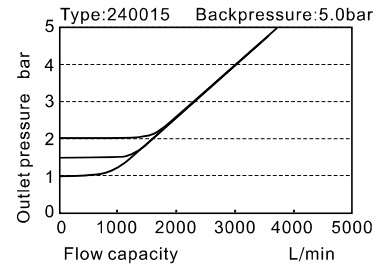
Lower pressure



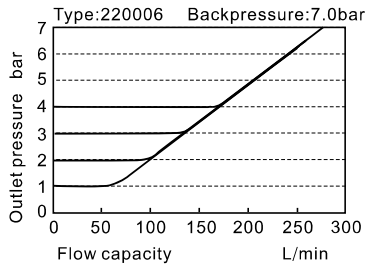
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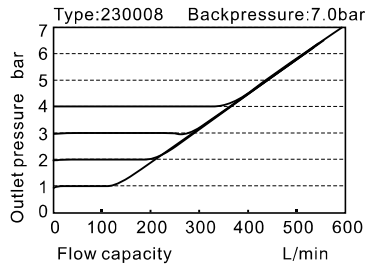
Lower pressure



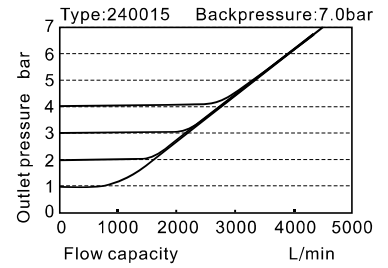
Medium pressure



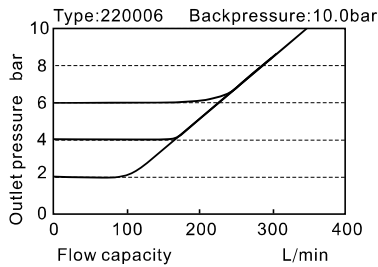
Medium pressure



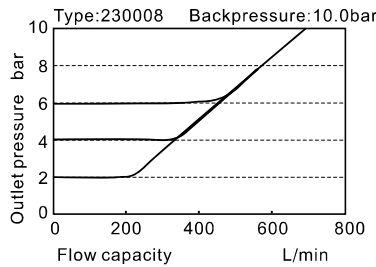
Medium pressure



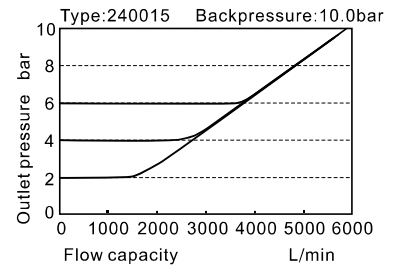
High pressure



High pressure



High pressure

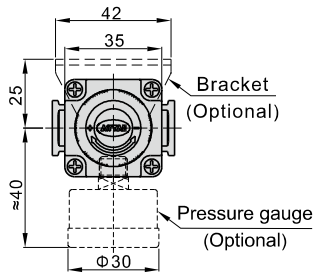
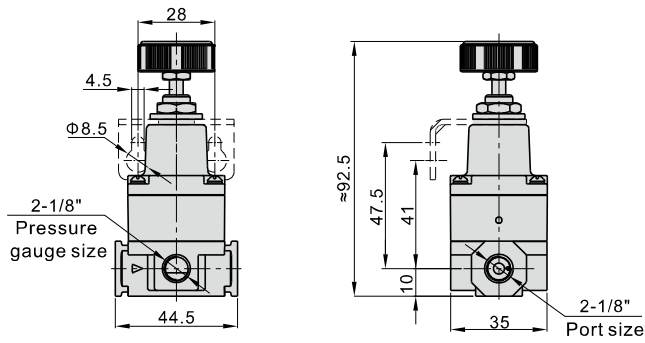


Preparation unit—GP Series

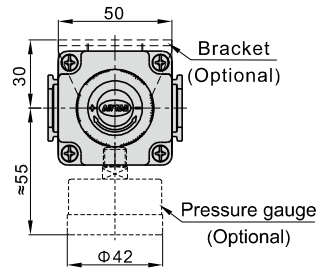
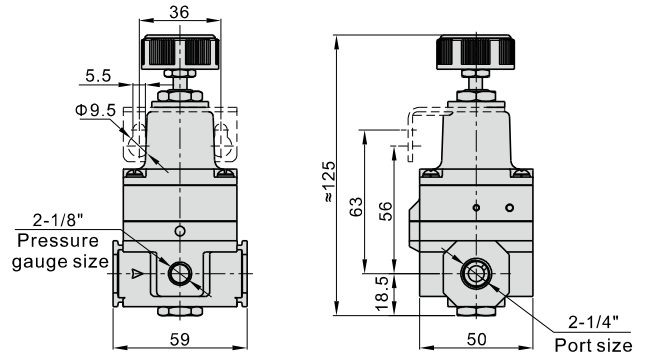
GPR Series Precision Regulator

Dimensions

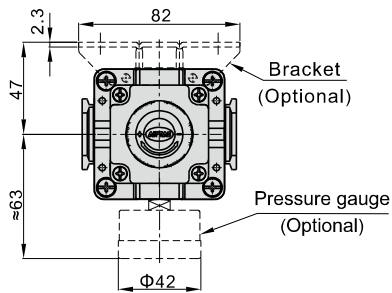
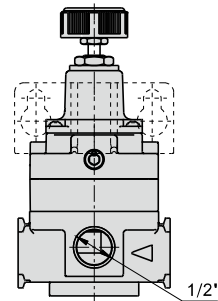
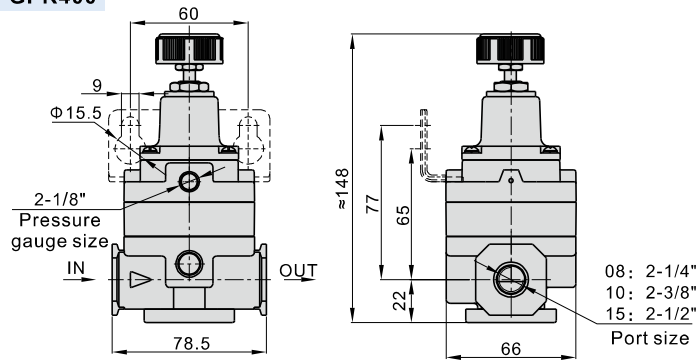
GPR200



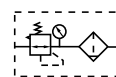
GPR300



GPR400



Symbol



Product feature

1. Circular square pressure gauge which with clip and magnifier is used to save installation space.
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. Unique diversion structure spins the air flowing through to effectively separate the liquid from the air and reliably filter the solid grain.
5. The filtering grade includes 0.3 μm and 0.01 μm (optional).
6. Two drain types are available: semi-auto drain and automatic drain.
7. Three material of bowl are available: PC, Nylon and metal.
8. The bracket can be selected for installation.

Specification

Model	GPFR200-06	GPFR200-08	GPFR300-08	GPFR300-10	GPFR400-10	GPFR400-15
Fluid	Air					
Port size [Note1]	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"
Filtering grade	0.3 μm or 0.01 μm					
Pressure range	0.15~0.9MPa(20~130psi)					
Max. pressure	1.0MPa(145psi)					
Proof pressure	1.5MPa(215psi)					
Temperature range	-5~70°C(Unfreeze)					
Rated flow capacity [Note2]	M	150L/min		330L/min		820L/min
	D	90L/min		180L/min		450L/min
Capacity of drain bowl	25CC		60CC		100CC	
Weight	310g		500g		910g	

[Note1] G thread, NPT thread are available.

[Note2] Conditions: inlet pressure 0.7MPa, outlet pressure 0.5MPa. The rated flow varies with the inlet pressure. If the flow exceeds the rated flow, oil will flow to the secondary side. Please note.

Ordering code

GPFR300 □ 10 □ S □ □ M G

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

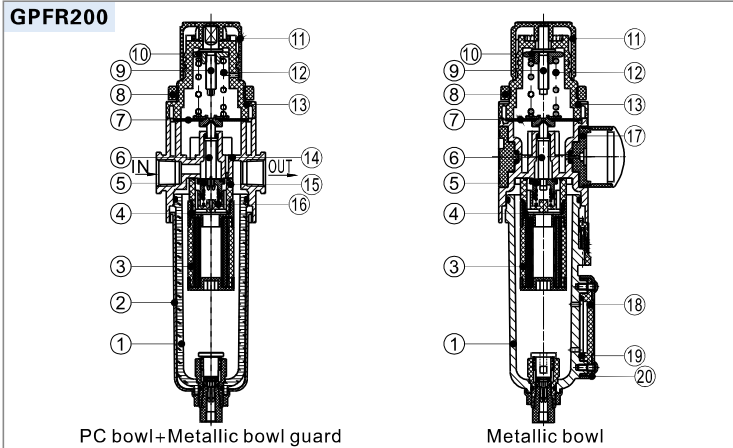
① Model	② Material of bowl	③ Port size	④ Drain type	⑤ Type code	⑥ Accessories	⑦ Pressure gauge	⑧ Filtering grade	⑨ Thread type
GPFR200:GP200 Series Precision filter-regulator	Blank: PC N: Nylon C: Metal	06: 1/8" 08: 1/4"	Blank: Semi-auto drain	S: Standard	Blank: Bracket J: No bracket	Blank: Circular with clip N: No pressure gauge [Note2]	M: 0.3μm D: 0.01μm	Blank: PT (MPa/psi)
GPFR300:GP300 Series Precision filter-regulator		08: 1/4" 10: 3/8"		A: Automatic drain				L: Lower pressure [Note1]
GPFR400:GP400 Series Precision filter-regulator		10: 3/8" 15: 1/2"						T: NPT(psi/bar)

[Note1] The maximum work pressure of lower pressure type is 58psi(0.4MPa). [Note2] Please refer to page 201 for details of sealing plate Installation.

GPFR Series Precision Filter & Regulator

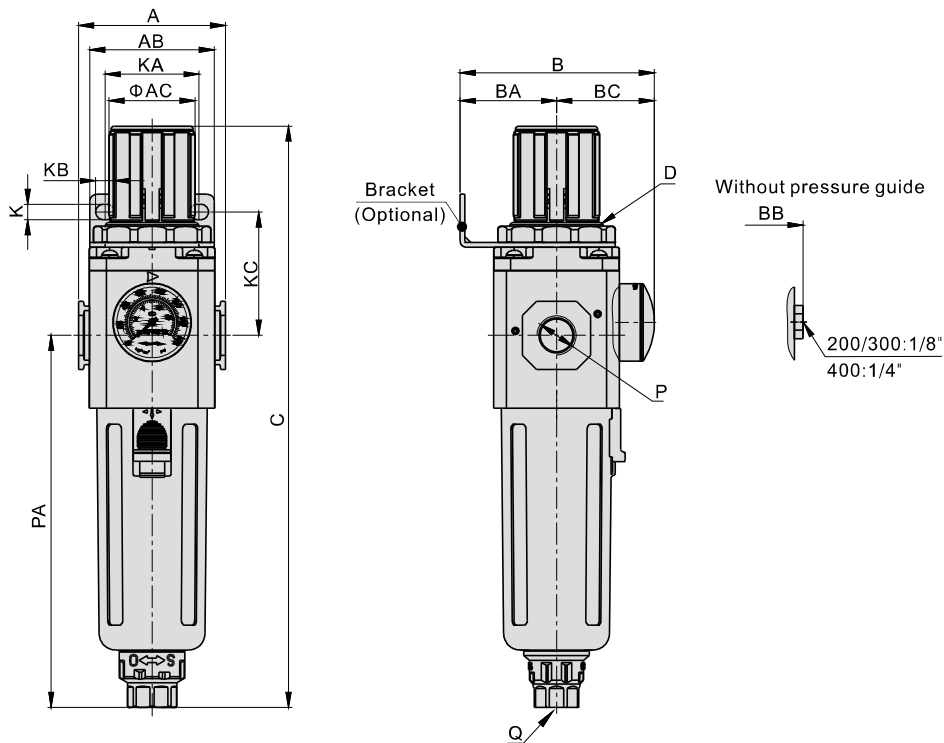
Inner structure

GPFR200



No.	Item	Material
1	Drain bowl	PC\nylon\aluminium alloy
2	Meter cover	SPCC
3	Filter core	Polymer materials
4	Gasket	NBR
5	Adjusting plug	Aluminum alloy & Rubber
6	Adjusting spool	POM
7	Diaphragm	NBR
8	Fixation ring cap	POM
9	Adjusting spindle	Steel
10	Regulator nut	Steel
11	Pressure knob	POM
12	Spring	SWPB
13	Adjusting seat	POM
14	Body of filter-regulator	Aluminium alloy
15	Gas distribution	POM
16	Spring	SWPB
17	Gauge	-
18	Liquid meter inside cover	PC
19	Liquid meter seal	NBR
20	Liquid meter cover	SPCC

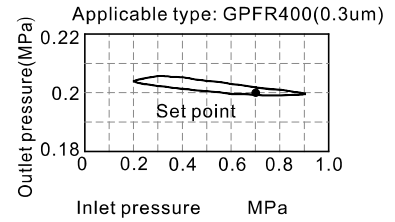
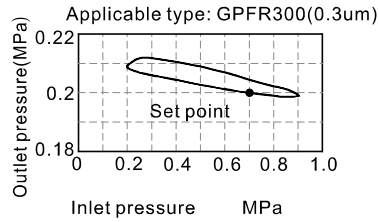
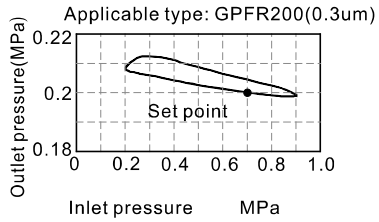
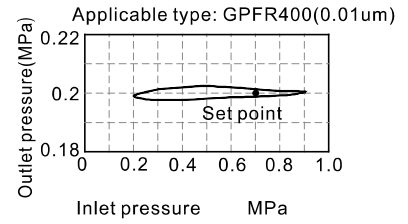
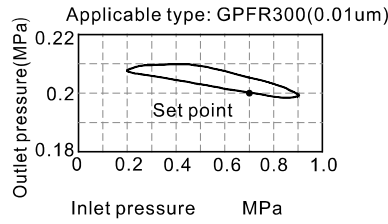
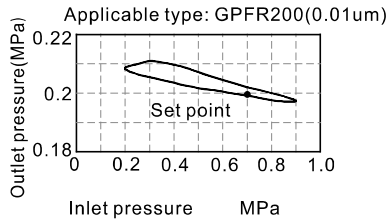
Dimensions



Model\Item	A	AB	AC	B	BA	BB	BC	C	D	K	KA	KB	KC	P	PA	Q
GPFR200-06	52.5	55	31	69	30	55.5	39	192.5	M33x1.5	5.4	34	15.4	52	1/8"	120	M5X0.8
GPFR200-08	52.5	55	31	69	30	55.5	39	192.5	M33x1.5	5.4	34	15.4	52	1/4"	120	M5X0.8
GPFR300-08	62.5	53	38	82.5	41	71.5	41.5	247	M40x1.5	6.5	40	8	52.5	1/4"	158	G1/4
GPFR300-10	62.5	53	38	82.5	41	71.5	41.5	247	M40x1.5	6.5	40	8	52.5	3/8"	158	G1/4
GPFR400-10	80	72	52	99	50	88	49	285.5	M55x2.0	8.5	55	11	57	3/8"	177.5	G1/4
GPFR400-15	80	72	52	99	50	88	49	285.5	M55x2.0	8.5	55	11	57	1/2"	177.5	G1/4

GPFR Series Precision Filter & Regulator

Pressure chart



Flow chart

