

# Preparation unit——GA Series

## GAL Series Lubricator

### 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. Three material of bowl are available: PC, Nylon and metal.
5. Filling of oil while the lubricator is under pressure is made possible, and the oil bowl is large.
6. The bracket can be selected for installation.

### Specification

Model	GAL200-06	GAL200-08	GAL300-08	GAL300-10	GAL400-08	GAL400-10	GAL400-15	GAL600-20	GAL600-25
Fluid	Air								
Port size [Note1]	1/8"	1/4"	1/4"	3/8"	1/4"	3/8"	1/2"	3/4"	1"
Pressure range	0.05~1.0MPa(7~145psi)								
Proof pressure	1.5MPa(215psi)								
Temperature range	-5~70°C(Unfreeze)								
Recommended lubricant	ISO VG 32 or equivalent								
Capacity of oil bowl	36CC		98CC		185CC		410CC		
Weight	200g		370g		660g		1040g		

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

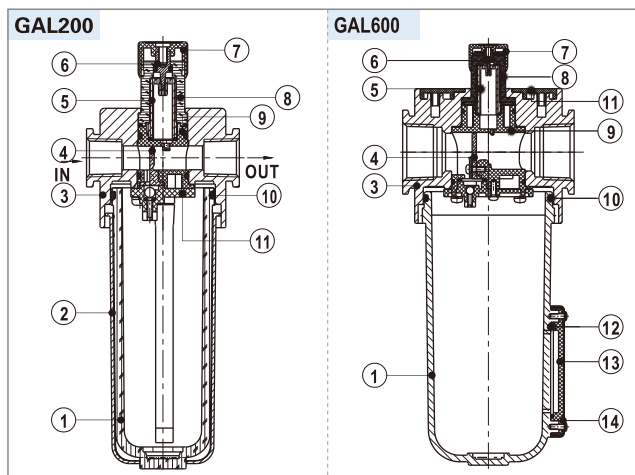
### Ordering code

**GAL300** ☐ **10** ☐ **G**

① ② ③ ④ ⑤

① Model	② Bowl material	③ Port size	④ Accessories	⑤ Thread type
GAL200: GA200 Lubricator	Blank: PC bowl	06: 1/8" 08: 1/4"	Blank: Bracket  J: No bracket	Blank: PT  G: G  T: NPT
GAL300: GA300 Lubricator	C: Metal bowl	08: 1/4" 10: 3/8"		
GAL400: GA400 Lubricator	N: Nylon bowl	08: 1/4" 10: 3/8" 15: 1/2"		
GAL600: GA600 Lubricator	C: Metal bowl	20: 3/4" 25: 1"		

### Inner structure

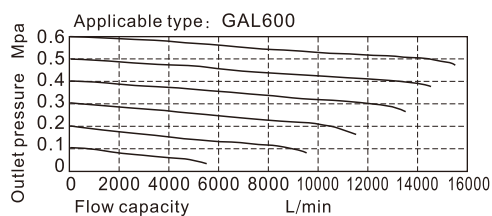
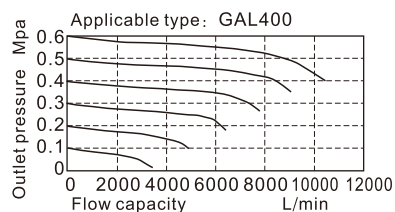
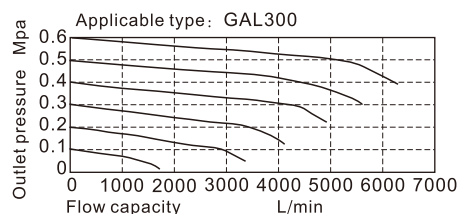
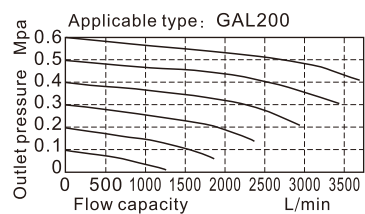


No.	Item	Material
1	Oil bowl	Aluminum alloy \ PC \ Nylon
2	Meter cover	SPCC
3	Body of lubricator	Aluminum alloy
4	Distance block	PU
5	O-ring	NBR
6	Drip pipe	PC
7	Ejector pin	Brass
8	Adjusting ring	POM
9	O-ring	NBR
10	Adjusting looker	PC
11	Sprayer body	PA66
12	O-ring	NBR
13	Sprayer bottom cap	POM
14	Oil tube	PU
15	Filter pluger	Brass
16	Plugger	Carbon steel
17	Bottom	POM
18	Liquid meter seal	NBR
19	Liquid meter inside cover	PC
20	Liquid meter cover	SPCC

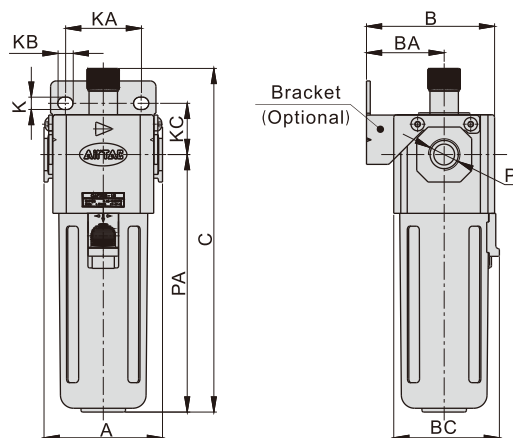
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### Flow chart



### Dimensions



Model\Item	A	B	BA	C	K	KA	KB	KC	P	PA
GAL200-06	52.5	54.5	33	146.5	5.4	27	8.4	23	1/8"	107
GAL200-08	52.5	54.5	33	146.5	5.4	27	8.4	23	1/4"	107
GAL300-08	62.5	67.5	41	181	6.5	40	8	27	1/4"	136
GAL300-10	62.5	67.5	41	181	6.5	40	8	27	3/8"	136
GAL400-08	80	84	50	204.5	8.5	55	11	33.5	1/4"	155
GAL400-10	80	84	50	204.5	8.5	55	11	33.5	3/8"	155
GAL400-15	80	84	50	204.5	8.5	55	11	33.5	1/2"	155
GAL600-20	100	113	70	246	11	66	13	50	3/4"	182.5
GAL600-25	100	113	70	246	11	66	13	50	1"	182.5

# Preparation unit——GA Series

## GA315 Series Reverse Flow valve



### Product feature

1. This reverse flow valve can be used with GA series regulator but can not be ordered individually.
2. When it is used with GA 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.

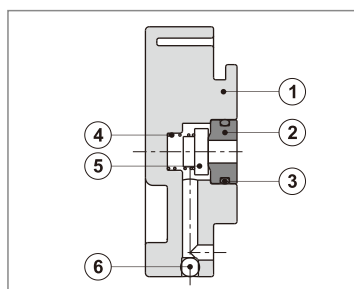
### Applicable products

Reflux valve type\Applicable products's type	GA F.R.L Comintation	GA FR.L Comintation	GA Filter & regulator	GA Regulator
GAR200-P1	GAC200	GAFC200	GAFR200	GAR200
GAR300-P1	GAC300、400、600	GAFC300、400、600	GAFR300、400、600	GAR300、400、600

### Ordering code

When GA 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.

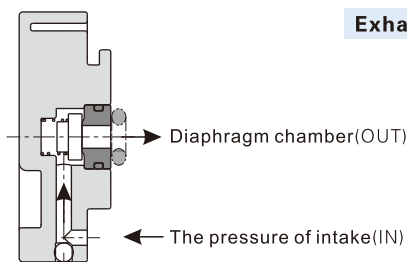
### Inner structure



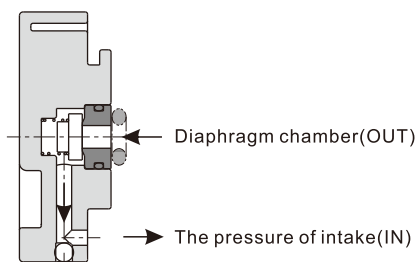
No.	Item	Material
1	Reverse flow valve's body	PBT
2	Plug	Brass
3	O-ring	NBR
4	Spring	SUS304
5	Gasket	NBR
6	Steel ball	SUS304

### Working principle

Normally



Exhaust



Normally, as the pressure of intake (IN) is higher than the set valve (pressure of outlet), the reverse flow valve closed; 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.

### Example for assemble the reflux valve

Take GAR300 for example, it is in the same way to use products of other series.

Take out the back seal board of pressure gauge of GAR300 product and press reverse flow valve GAR300 into the position where original seal board stays upon the direction that is showed and then tighten the connection screw.

