

The accessories is necessary for intact air system. AirTAC has many types of accessories for your choice:

1. G thread Fitting; 2. G thread Silencer; 3. G thread Speed Controller; 4. Polyurethane re-coil Hosepart.
5. PT thread Fitting; 6. PT thread Silencer; 7. PT thread Speed Controller.

<b>Threaded type (G Thread)</b>	<b>GPC Series</b>  <b>6</b>	<b>GPC-M Series</b>  <b>7</b>	<b>GPL-M Series</b>  <b>7</b>	<b>GPL Series</b>  <b>9</b>
	<b>GPCF Series</b>  <b>9</b>	<b>GPMF Series</b>  <b>9</b>	<b>GPLF Series</b>  <b>9</b>	<b>GPLL Series</b>  <b>10</b>
	<b>GPHW Series</b>  <b>10</b>	<b>GPH Series</b>  <b>10</b>	<b>GPHF Series</b>  <b>10</b>	<b>GPKD Series</b>  <b>10</b>
	<b>GPEB Series</b>  <b>11</b>	<b>GPYB Series</b>  <b>11</b>	<b>GPED Series</b>  <b>11</b>	<b>GPZB Series</b>  <b>11</b>
	<b>GBPC Series</b>  <b>13</b>	<b>GBPMF Series</b>  <b>13</b>	<b>GBPCF Series</b>  <b>13</b>	<b>GBPM Series</b>  <b>13</b>
	<b>GBB, GBD Series</b>  <b>14</b>	<b>GBU Series</b>  <b>14</b>	<b>GBZ Series</b>  <b>14</b>	<b>GBKC Series</b>  <b>15</b>
	<b>GPE Series</b>  <b>17</b>	<b>GPU Series</b>  <b>17</b>	<b>GPY Series</b>  <b>17</b>	<b>GPM Series</b>  <b>17</b>
<b>Tube-tube type</b>	<b>GPV Series</b>  <b>17</b>	<b>GPLM Series</b>  <b>17</b>	<b>GPYW Series</b>  <b>18</b>	<b>GPEG Series</b>  <b>18</b>



<b>Tube-tube type</b>	GPZ Series 18	GPEW Series 18	GPG Series 18	GPP Series 18
	GPGJ Series 19	GPZG Series 19	GPHK Series 19	GPHD Series 19
	GPKG Series 19			
<b>Speed controllers (G Thread)</b>	GPSS Series 21	GPSA Series 21	GPTL-M Series 24	GPTL Series 25
<b>Finger valve</b>	GPHV Series 27			
<b>Silencers (G Thread)</b>	GBSL Series 29	GBSLM Series 29	GBESL Series 29	
<b>Polyurethane re-coil hosepart</b>	US98A, UE95A Series 30	UCS Series 31		
<b>Flame resistant tube</b>	UN54D Series 32			



<b>Threaded type (PT Thread)</b>	PC, POC Series  <b>33</b>	PC-M Series  <b>34</b>	PL-M Series  <b>34</b>	PL Series  <b>36</b>
	PCF Series  <b>36</b>	PMF Series  <b>36</b>	PLF Series  <b>36</b>	PLL Series  <b>37</b>
	PHW Series  <b>37</b>	PH Series  <b>36</b>	PHF Series  <b>36</b>	PKD Series  <b>37</b>
	PEB Series  <b>38</b>	PYB Series  <b>38</b>	PED Series  <b>38</b>	PZB Series  <b>38</b>
	BPC Series  <b>40</b>	BPOC Series  <b>40</b>	BPMF Series  <b>40</b>	BPCF Series  <b>40</b>
<b>Metal one-touch fittings (PT Thread)</b>	BB, BD Series  <b>41</b>	BU Series  <b>41</b>	BZ Series  <b>41</b>	BKC Series  <b>42</b>
	BSL Series  <b>44</b>	BSLM Series  <b>44</b>	BESL Series  <b>44</b>	PAL, PALM Series  <b>44</b>
	PSL Series  <b>46</b>	PSS Series  <b>46</b>	PTL-M Series  <b>48</b>	PTL Series  <b>49</b>



## Installation and Operation of tube and fitting

### 1. Installation and removal of tubing:

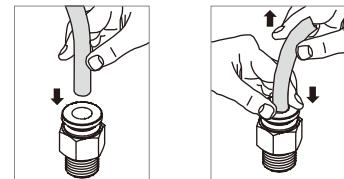
#### 1.1. Installation of tubing

Grasp the tubing and slowly push it into the fitting until it comes to a stop. The tubing will be locked by the spring gasket.

#### 1.2. Removal of tubing

Push the release button to open the spring gasket so that the tubing can be released.

Note: When remove the tubing, make sure the pressure in the tubing is Zero.

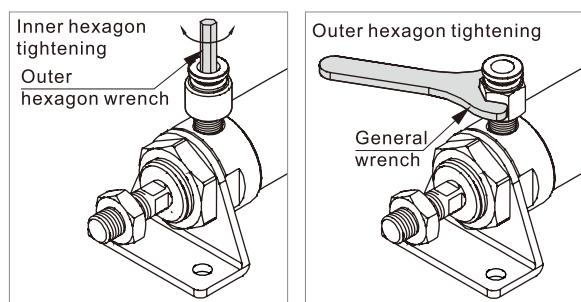


### 2. Connection thread tightening method

Use an inner or outer hexagon wrench to tighten the fitting as show in the picture below.

Note: Please refer to the tables below for the tightening torque.

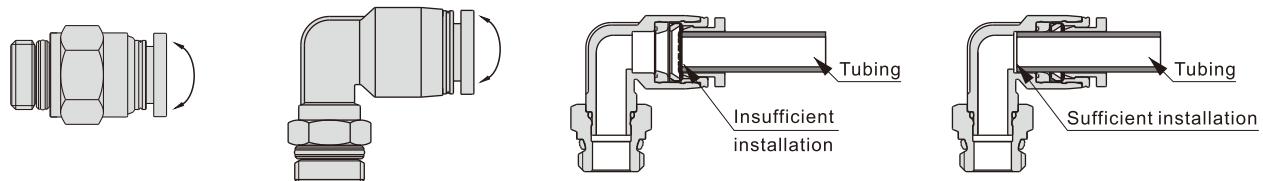
Recommended tightening torque(N.m)						
Thread type	M3	M5	1/8"	1/4"	3/8"	
Tightening torque	0.3~0.6	1~1.5	5~8	6~9	8~11	12~16



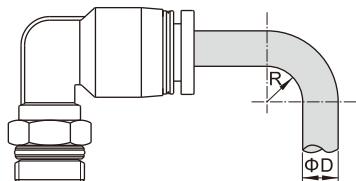
### 3. Caution

3.1. External force (bend, twist, and tension) may damage the fitting and cause air leakage.

3.2. Insufficient installation may cause air leakage or the tubing to release.



3.3. Pulling or twisting the tubing excessively may damage the fitting. For a mounting guide, see the table below.



Minimum bending radius of the tubing(mm)						
Tubing O.D.(ΦD)	3.2	4	6	8	10	12
Minimum bending radius(R)	15	20	30	50	80	150

### 4. Connection thread tightening method of the fitting with M5 type thread

First, tighten by hand, then use a wrench to tighten an additional 1/4 turn. Excessive tightening may damage the thread portion or deform the gasket and cause air leakage. Insufficient tightening may loosen the threads, or cause air leakage.

### 5. Tolerance of the Polyurethane tubing O.D.

Polyurethane tubing O.D.(mm)	3.2	4	6	8	10	12
Tolerance(mm)	± 0.1	± 0.1	± 0.1	± 0.1	± 0.15	± 0.15



Notes



## Other precautions

1. Before piping is connected, it should be washed to remove chips and other debris from inside the pipe.
2. Ensure the tubing being cut perpendicularly and no damage or scratch on the surface of the tubing outside diameter.
3. Use pipe length with sufficient margin to avoid over-bending on the top of the fitting.
4. Pull the tubing back gently to make sure it has a positive seal before using.
5. Push the release button flange evenly and sufficiently to release the button. If the release button is not held down sufficiently, the tubing cannot be withdrawn and the outer surface of the tubing may be scratched and cause air leakage.
6. When removing tubing, do not rotate around or 360 degree. This may result in scratch and removal of the tubing difficult.
7. When screwing together pipes and fittings, be certain that chips from the pipe threads and sealing material do not get inside the pipe. Also, when the pipe tape is used, leave approx. 1.5~2 thread ridges exposed at the end of the threads.



## Safety instructions

- 1 When remove the tubing, make sure the pressure in the tubing is Zero.
- 2 Do not use the ordinary fittings and tubing in locations where spatter is generated. Spattering may result in a fire hazard.
- 3 Ensure that the pressure and ambient temperature are within the specified range.
- 4 Do not use in an atmosphere having corrosive gases, chemicals, sea water, water, water steam, or where there is direct contact with any of these.
- 5 Do not use in a place subject to heavy vibration and/or shock.



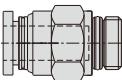
# Accessories—One-Touch Fittings

## GPC series

AirTAC

### Ordering code

GPC 6 01 □  
 1 2 3 4

① Model	② Port size	③ Thread connection	④ Standard color	Specification	
GPC: Male connector (G thread) 	6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Thread connection M5: M5X0.8 01: G1/8 02: G1/4 03: G3/8 04: G1/2	Adaptable port size Φ6 Φ6, Φ8, Φ10, Φ12	Standard color Blank: Gray D: Black	Release button:Gray Release button:Black

### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Table for interface port and tube O.D.

Product series	Thread type	Port size			
		Φ6	Φ8	Φ10	Φ12
GPC	M5	●			
	G1/8	●	●	●	●
	G1/4	●	●	●	●
	G3/8	●	●	●	●
	G1/2	●	●	●	●

### Product feature

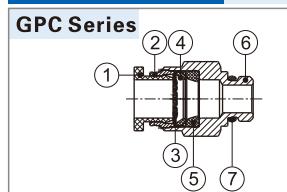
1. The compact appearance space saving.



2. Gray and black are optional for the release button.

3. The threaded portion is attached with a sealing gasket to prevent air leakage over the connection thread portion.

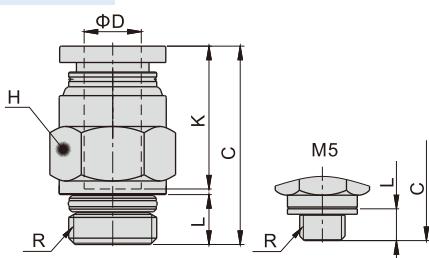
### Inner structure



No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	Brass
7	O-ring	NBR

### Dimensions

#### GPC Series



Model	Item	ΦD	R	L	C	K	H(Across flat)	Weight(g)	PCS/bag
GPC6M5			M5x0.8	3.5	22.5	16.5	12	8.5	10
GPC601		6	G1/8	5.5	22	16.35	12	7.1	10
GPC602			G1/4	6.5	21	16.35	14	11.5	10
GPC603			G3/8	7	20.5	16.35	19	23.2	10
GPC604			G1/2	8.5	20.5	16.35	22	37.9	10
GPC801		8	G1/8	5.5	26	18.5	14	10.7	10
GPC802			G1/4	6.5	25	18.5	14	10.5	10
GPC803			G3/8	7	22	18.5	19	21.5	10
GPC804			G1/2	8.5	23.5	18.5	22	36.2	10
GPC1001		10	G1/8	5.5	29.5	20.9	17	13.2	10
GPC1002			G1/4	6.5	29	20.9	17	15.8	10
GPC1003			G3/8	7	25	20.9	19	18.2	10
GPC1004			G1/2	8.5	23.5	20.9	22	30.7	10
GPC1201		12	G1/8	5.5	32	22.7	21	22.3	10
GPC1202			G1/4	6.5	33	22.7	21	25.4	10
GPC1203			G3/8	7	30.5	22.7	21	23.6	10
GPC1204			G1/2	8.5	27.5	22.7	22	31.7	10

# Accessories—One-Touch Fittings

## GPC, GPL mini series

AirTAC

### Ordering code

GPC 6 01 □ - M

1 2 3 4 5

① Model	② Port size	③ Thread connection	④ Standard color	⑤ Style type
GPC: Male connector (G thread) 	3.2: Φ3.2mm 4: Φ4mm 6: Φ6mm	M3: M3X0.5 M5: M5X0.8 01: G1/8 02: G1/4	Adaptable port size Φ3.2, Φ4 Φ3.2, Φ4, Φ6 Φ4, Φ6 Φ4	Standard color Blank: Gray D: Black
GPL: Male elbow(G thread) 				Specification Release button: Gray Release button: Black M: Mini type

### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Table for interface port and tube O.D.

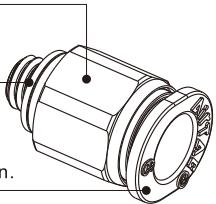
Product series	Thread type	Port size		
		Φ3.2	Φ4	Φ6
GPC	M3	●	●	
	M5	●	●	●
	G1/8		●	●
	G1/4		●	

### Product feature

1. The compact appearance space saving.

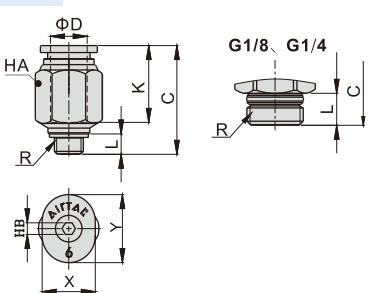
2. The threaded portion is attached with a sealing gasket to prevent air leakage over the connection thread portion.

3. Gray and black are optional for the release button.

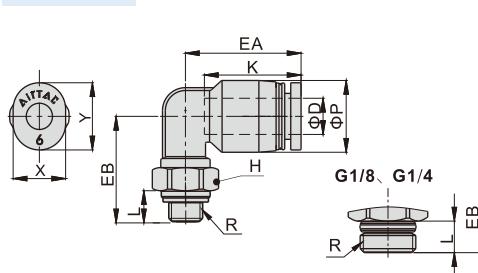


### Dimensions

#### GPC Series



#### GPL Series



Model\Item	ΦD	R	L	C	K	X	Y	HA	HB	Weight(g)	PCS/bag
GPC3.2M3-M	3.2	M3x0.5	3	16	11.5	6.8	8.7	7	1.5	1.7	10
		M5x0.8	3.5	16	11.5	6.8	8.7	7	2	2.0	10
GPC4M3-M	4	M3x0.5	3	17.5	12.5	7.8	9.5	8	1.5	2.4	10
		M5x0.8	3.5	17	12.5	7.8	9.5	8	2	2.7	10
GPC401-M	4	G1/8	5.5	16	13.5	7.8	9.5	10	3	3.6	10
GPC402-M		G1/4	6.5	16.5	13.5	7.8	9.5	14	3	9.5	10
GPC6M5-M	6	M5x0.8	3.5	18.5	13.5	9.8	11.7	10	2	3.6	10
GPC601-M		G1/8	5.5	18.5	15.5	9.8	11.7	11	4	6.0	10

Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	X	Y	Weight(g)	PCS/bag
GPL3.2M3-M	3.2	M3x0.5	7.5	3	12	14.5	14	7	6.8	8.7	2.4	10
		M5x0.8		3.5	12	14.5	7	6.8	8.7	2.7	10	
GPL3.2M5-M	4	M3x0.5	8.5	3	12.5	14	7	7.8	9.5	3.0	10	
		M5x0.8		3.5	12.5	14.5	7	7.8	9.5	3.3	10	
GPL401-M	4	G1/8	5.5	12.5	14	10	7.8	9.5	6.2	10		
		G1/4		6.5	12.5	16.5	14	7.8	9.5	14.1	10	
GPL402-M	4	G1/4	6.5	12.5	16.5	14	7.8	9.5	14.1	10		
		G1/8		5.5	13.5	15.5	7	9.8	11.7	4.0	10	
GPL6M5-M	6	M5x0.8	10.5	3.5	13.5	16.0	15.5	7	9.8	11.7	4.0	10
		G1/8		5.5	13.5	14.5	10	9.8	11.7	6.8	10	
GPL601-M												

# Accessories—One-Touch Fittings

AirTAC

## One-touch fittings—threaded type

### Ordering code

Same diameter type fittings

GPL 6 01 □

1 2 3 4

① Model	② Port size	③ Thread connection	④ Standard color	⑤ Specification	⑥ Adaptable model
GPHW: Double universal male elbow (G thread)	GPL: Male elbow (G thread)			Release button: Gray	GPCF GPMF
GPHF: Universal female elbow(G thread)	GPLL: Extended male elbow(G thread)	M5: M5X0.8	Φ4, Φ6	Blank: Gray	Release button: Gray
GPEB: Male branch tee (G thread)	GPLF: Female elbow (G thread)	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm		Body:Gray	Others
GPED: Male run tee (G thread)	GPCF: Female connector (G thread)			Release button: Black	GPCF GPMF
GPYB: Branch "Y" (G thread)	GPMF: Bulkhead connector(G thread)	01: G1/8 02: G1/4 03: G3/8 04: G1/2	Φ4, Φ6 Φ8, Φ10 Φ12	D: Black	Release button: Black
GPZB: Threaded cross(G thread)	GPH: Universal male elbow(G thread)			Body: Black	Others

Different diameter type fittings

GPKD 6 - 4 01 □

1 2 3 4 5

① Model	② Port size	③ Port size	④ Thread connection	⑤ Standard color	⑥ Specification
GPKD: Male reducer triple branch (G thread)	6: Φ6mm 8: Φ8mm 10: Φ10mm	4: Φ4mm 6: Φ6mm 8: Φ8mm	01: G1/8 02: G1/4 03: G3/8	Blank: Gray D: Black	Release button: Gray/Body:Gray Release button: Black/Body: Black

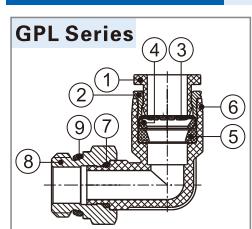
### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Product feature

- Variable models can be widely used in every kind of pneumatic systems.
- High circulation performance: bear the same flow with the volume of the tubing inside diameter.
- Connect tubing easily and conveniently. The tubing connection portion is safe and durable.
- The thread is attached with a sealing gasket to prevent air leakage over the connection thread portion.
- The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.

### Inner structure



No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	PBT
7	O-ring	NBR
8	Stud	Brass
9	O-ring	NBR

### Table for interface port and tube O.D.

Product series	Thread type	Port size			
		Φ4	Φ6	Φ8	Φ10
GPL	M5	●			
	G1/8	●	●	●	●
	G1/4	●	●	●	●
	G3/8	●	●	●	●
	G1/2	●	●	●	●
GPLL	M5	●	●		
	G1/8	●	●	●	●
	G1/4	●	●	●	●
	G3/8	●	●	●	●
	G1/2		●	●	●
GPEB	M5	●	●		
	G1/8	●	●	●	●
	G1/4	●	●	●	●
	G3/8	●	●	●	●
	G1/2	●	●	●	●
GPED	M5	●	●		
	G1/8	●	●	●	●
	G1/4	●	●	●	●
	G3/8	●	●	●	●
	G1/2	●	●	●	●
GPYB	M5	●	●		
	G1/8	●	●	●	●
	G1/4	●	●	●	●
	G3/8	●	●	●	●
	G1/2	●	●	●	●
GPH	M5	●	●		
	G1/8	●	●	●	
	G1/4	●	●	●	
	G3/8	●	●	●	●
	G1/2	●	●	●	●
GPHF	M5	●	●		
	G1/8	●	●	●	
	G1/4	●	●	●	
	G3/8	●	●	●	●
	G1/2	●	●	●	●
GPHW	G1/8	●	●	●	
	G1/4	●	●	●	
	G3/8	●	●	●	●
	G1/2		●	●	●
	G1/8	●	●	●	
GPZB	G1/8	●	●	●	
	G1/4	●	●	●	
	G3/8	●	●	●	●
	G1/2	●	●	●	●
	G1/8	●	●	●	

Product series	Thread type	Port size			
		Φ4	Φ6	Φ8	Φ10
GPLF	M5	●	●		
GPLF	G1/8	●	●	●	●
GPLF	G1/4	●	●	●	●
GPLF	G3/8	●	●	●	●
GPLF	G1/2	●	●	●	●
GPCF	M5	●	●		
GPCF	G1/8	●	●	●	●
GPCF	G1/4	●	●	●	●
GPCF	G3/8	●	●	●	●
GPCF	G1/2	●	●	●	●
GPMF	M5	●	●		
GPMF	G1/8	●	●	●	●
GPMF	G1/4	●	●	●	●
GPMF	G3/8	●	●	●	●
GPMF	G1/2	●	●	●	●

Product series	Thread type	Port size		
		Φ6~Φ4	Φ8~Φ6	Φ10~Φ8
GPKD	G1/8	●		
GPKD	G1/4		●	
GPKD	G3/8			●

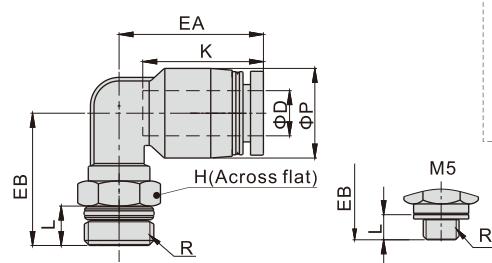
# Accessories—One-Touch Fittings

AirTAC

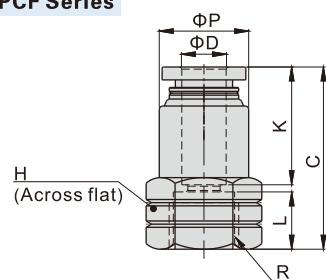
## One-touch fittings—threaded type

### Dimensions

#### GPL Series



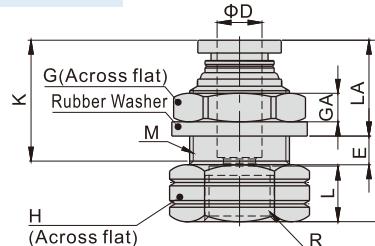
#### GPCF Series



Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
GPL6M5		M5×0.8	12.5	3.5	17	20	17.0	8	4.5	10
GPL601		G1/8	12.5	5.5	17	20	18.5	10	5.2	10
GPL602	6	G1/4	12.5	6.5	17	20	22.0	14	11.9	10
GPL603		G3/8	12.5	7	17	20	23.0	19	20.5	10
GPL604		G1/2	12.5	8.5	17	20	26.5	22	32.7	10
GPL801		G1/8	15	5.5	18.5	23	19.0	10	6.9	10
GPL802	8	G1/4	15	6.5	18.5	23	24.0	14	12.2	10
GPL803		G3/8	15	7	18.5	23	24.0	19	21	10
GPL804		G1/2	15	8.5	18.5	23	27.5	22	32.7	10
GPL1001		G1/8	18	5.5	21	25.5	24.5	17	16.3	10
GPL1002		G1/4	18	6.5	21	25.5	25.0	17	17.4	10
GPL1003		G3/8	18	7	21	25.5	25.5	19	21	10
GPL1004		G1/2	18	8.5	21	25.5	29.0	22	33.7	10
GPL1201		G1/8	21	5.5	23	28.5	26.0	17	18.8	10
GPL1202		G1/4	21	6.5	23	28.5	26.5	17	19.9	10
GPL1203		G3/8	21	7	23	29.5	30.5	19	27.4	10
GPL1204	12	G1/2	21	8.5	23	29.5	30.5	22	33.7	10

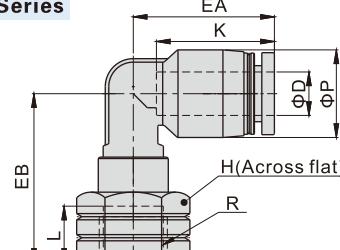
Model\Item	ΦD	R	ΦP	L	C	K	H	Weight(g)	PCS/bag
GPCF4M5		M5×0.8	9	5	21	14	10	2.7	10
GPCF401	4	G1/8	9.5	8	23	14	14	4.5	10
GPCF402		G1/4	9.5	11	26	14	17	6.5	10
GPCF6M5		M5×0.8	12	5	21.5	16.5	12	3.9	10
GPCF601		G1/8	12.5	8	25.5	16.5	14	5.6	10
GPCF602	6	G1/4	12.5	11	28.5	16.5	17	7.5	10
GPCF603		G3/8	13	12	29.5	16.5	21	10.7	10
GPCF604		G1/2	13	13.5	31.0	16.5	25	13.8	10
GPCF801		G1/8	14	8	27.5	18.5	14	5.8	10
GPCF802	8	G1/4	14.5	11	30.5	18.5	17	8.4	10
GPCF803		G3/8	14.5	12	31.5	18.5	21	11.2	10
GPCF804		G1/2	14.5	13.5	33	18.5	25	14.4	10
GPCF1001		G1/8	17	8	29	21	17	9.5	10
GPCF1002		G1/4	17	11	33	21	17	9.9	10
GPCF1003		G3/8	18	12	34	21	21	14	10
GPCF1004		G1/2	18	13.5	35.5	21	25	17.1	10
GPCF1202	10	G1/4	21	11	33.5	23	21	17.5	10
GPCF1203		G3/8	21	12	35.5	23	21	16.6	10
GPCF1204	12	G1/2	21	13.5	37	23	25	19.7	10

#### GPMF Series



Model\Item	ΦD	R	M	L	C	K	LA	E	GA	G	H	Weight(g)	PCS/bag
GPMF401	4	G1/8	M12X1	8	25	14	12.0	4	4	14	14	6.4	10
GPMF402		G1/4	M12X1	11	29	14	12.0	4	4	14	17	9	10
GPMF601		G1/8	M14X1	8	25.5	16.5	12.5	5	4	17	17	9.1	10
GPMF602	6	G1/4	M14X1	11	30.5	16.5	12.5	5	4	17	17	10.9	10
GPMF603		G3/8	M14X1	12	31.5	16.5	12.5	5	4	17	21	13.2	10
GPMF801		G1/8	M16X1	8	27.5	18.5	13.5	5.5	4	19	19	12.8	10
GPMF802	8	G1/4	M16X1	11	32	18.5	13.5	5.5	4	19	19	15.7	10
GPMF803		G3/8	M16X1	12	33	18.5	13.5	5.5	4	19	21	15	10
GPMF804		G1/2	M16X1	13.5	34.5	18.5	13.5	5.5	4	19	25	18.1	10
GPMF1001		G1/8	M20X1	8	30	21	14.5	7.5	5	24	22	19.6	10
GPMF1002		G1/4	M20X1	11	35	21	14.5	7.5	5	24	22	22.8	10
GPMF1003		G3/8	M20X1	12	36	21	14.5	7.5	5	24	22	21.1	10
GPMF1004		G1/2	M20X1	13.5	37.5	21	14.5	7.5	5	24	25	23.2	10
GPMF1202		G1/4	M22X1	11	34.5	23	15.5	8	6	27	24	26.2	10
GPMF1203	12	G3/8	M22X1	12	37.5	23	15.5	8	6	27	24	27	10
GPMF1204		G1/2	M22X1	13.5	39	23	15.5	8	6	27	25	26.2	10

#### GPLF Series



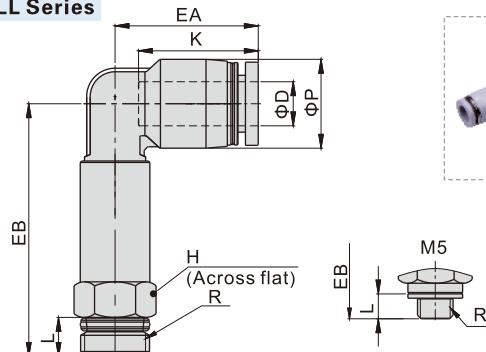
Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
GPLF4M5		M5×0.8	9	5	14	17	16	10	2.9	10
GPLF401	4	G1/8	9	8	14	17	21	14	4.6	10
GPLF402		G1/4	9	11	14	17	24	17	6.8	10
GPLF6M5		M5×0.8	12.5	5	17	20	18.5	10	7	10
GPLF601		G1/8	12.5	8	17	20	23	14	5.8	10
GPLF602		G1/4	12.5	11	17	20	26	17	8	10
GPLF603		G3/8	12.5	12	17	20	27	21	10.7	10
GPLF801		G1/8	15	8	18.5	23	20	14	6.6	10
GPLF802		G1/4	15	11	18.5	23	27.5	17	9.2	10
GPLF803		G3/8	15	12	18.5	23	28.5	21	11.9	10
GPLF804		G1/2	15	13.5	18.5	23	30	25	15.2	10
GPLF1001		G1/8	18	8	21	25.5	24	17	11.3	10
GPLF1002		G1/4	18	11	21	25.5	26.5	17	11.2	10
GPLF1003		G3/8	18	12	21	25.5	30	21	14.5	10
GPLF1004		G1/2	18	13.5	21	25.5	31.5	25	17.4	10
GPLF1202		G1/4	21	11	23	28.5	28.5	17	13.7	10
GPLF1203	12	G3/8	21	12	23	29.5	32	21	17.4	10
GPLF1204		G1/2	21	13.5	23	29.5	33	25	20.4	10

# Accessories—One-Touch Fittings

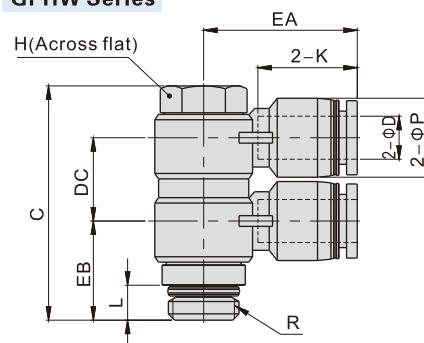
AirTAC

## One-touch fittings—threaded type

### GPLL Series

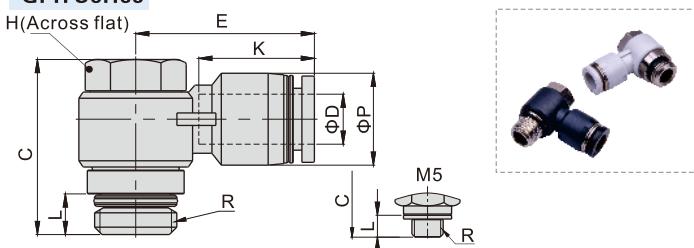


### GPHW Series

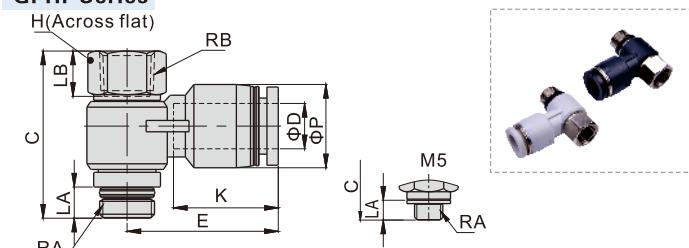


Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
GPLL4M5	4	M5×0.8	9	3.5	14	17	32.5	8	8.9	10
GPLL401		G1/8	9	5.5	14	17	33.5	10	11.4	10
GPLL402		G1/4	9	6.5	14	17	36.5	14	15.3	10
GPLL6M5		M5×0.8	12.5	3.5	17	20	34.5	8	9.9	10
GPLL601	6	G1/8	12.5	5.5	17	20	35.5	10	12.1	10
GPLL602		G1/4	12.5	6.5	17	20	38.5	14	16.4	10
GPLL603		G3/8	12.5	7	17	20	41	19	24	10
GPLL801		G1/8	15	5.5	18.5	23	43	12	16.4	10
GPLL802	8	G1/4	15	6.5	18.5	23	43.5	14	21.1	10
GPLL803		G3/8	15	7	18.5	23	46	19	28.5	10
GPLL1001		G1/8	18	5.5	21	25.5	50	15	37.3	10
GPLL1002		G1/4	18	6.5	21	25.5	51.5	15	39	10
GPLL1003	10	G3/8	18	7	21	25.5	52.5	19	41.5	10
GPLL1004		G1/2	18	8.5	21	25.5	53.5	22	44.1	10
GPLL1202		G1/4	21	6.5	23	28.5	56	15	44	10
GPLL1203		G3/8	21	7	23	29.5	58	19	56.8	10
GPLL1204	12	G1/2	21	8.5	23	29.5	59.5	22	53.4	10
		G1/2	21	8.5	23	29.5	59.5	22	53.4	10

### GPH Series

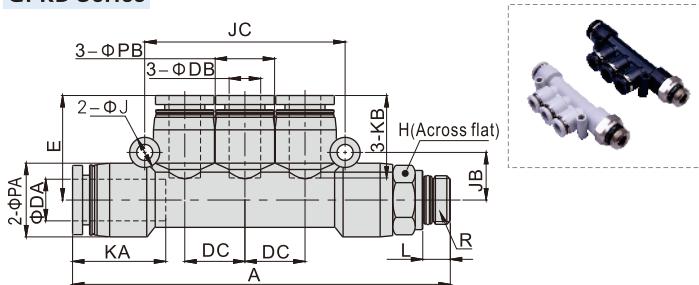


### GPHF Series



Model\Item	ΦD	R	ΦP	L	C	K	E	H	Weight(g)	PCS/bag
GPH4M5	4	M5×0.8	9	3.5	17	14	19	8	5.8	10
GPH401		G1/8	9	5.5	25	14	20.5	11	12.8	10
GPH6M5		M5×0.8	12.5	3.5	17	16.5	23.5	8	6.8	10
GPH601		G1/8	12.5	5.5	25	16.5	23	11	14	10
GPH602	6	G1/4	12.5	6.5	28	16.5	25	14	25.4	10
GPH603		G3/8	12.5	7	33	16.5	27	19	50.2	5
GPH801		G1/8	15	5.5	25	18.5	26.5	11	14.7	10
GPH802		G1/4	15	6.5	28	18.5	28.5	14	26.4	10
GPH803	8	G3/8	15	7	33	18.5	29.5	19	49.4	5
GPH804		G1/2	15	8.5	39	18.5	32	24	89	5
GPH1002		G1/4	18	6.5	28	21	31	14	27.7	10
GPH1003		G3/8	18	7	33	21	33	19	51.1	5
GPH1004	10	G1/2	18	8.5	39	21	35.5	24	88.5	5
GPH1203		G3/8	21	7	33	23	36	19	53	5
GPH1204		G1/2	21	8.5	39	23	38	24	92.8	5

### GPKD Series



Model\Item	ΦDA	ΦDB	R	L	A	ΦPA	ΦPB	KA	KB
GPKD6-401	6	4	G1/8	5.5	66	12.5	9	16.5	14
GPKD8-602	8	6	G1/4	6.5	77	15	12.5	18.5	16.5
GPKD10-803	10	8	G3/8	7	89.5	18	15	21	18.5

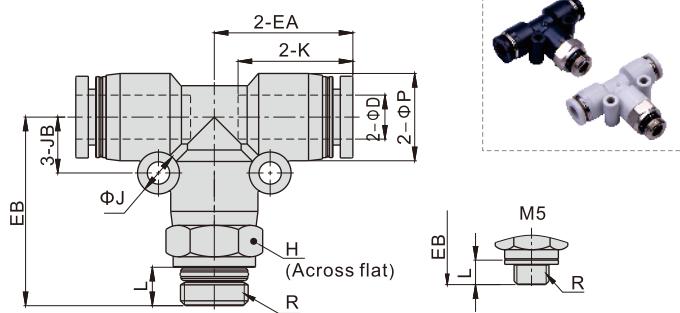
Model\Item	ΦJ	JB	JC	DC	E	H	Weight(g)	PCS/bag
GPKD6-401	3.2	8	34	10	17.5	12	14.9	2
GPKD8-602	3.2	9.5	40	12	21	14	24.9	2
GPKD10-803	4.3	11	48	14.5	24	19	39	2

# Accessories—One-Touch Fittings

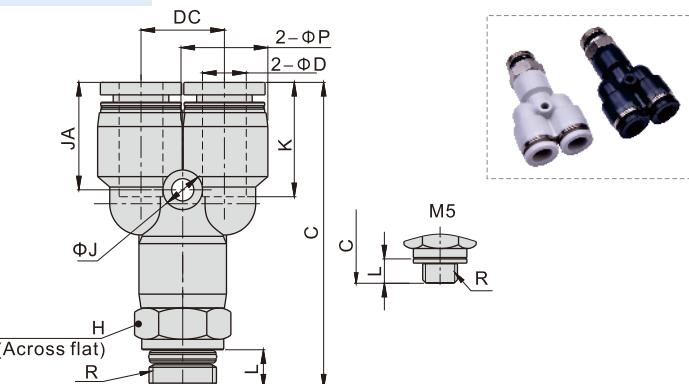
AirTAC

## One-touch fittings—threaded type

### GPEB Series



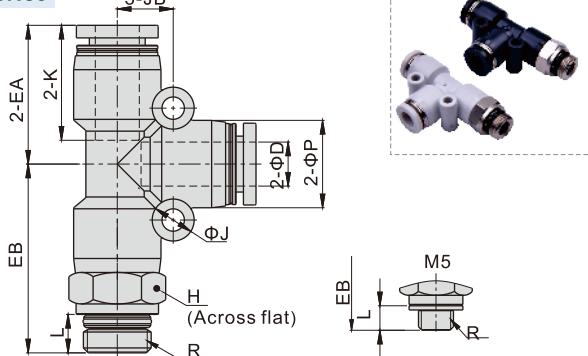
### GPYB Series



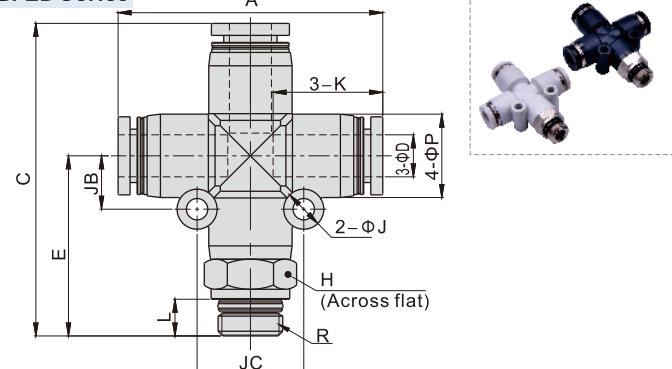
Model\Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H	Weight(g)	PCS/bag
GPEB4M5		M5x0.8	9	3.5	14	17	21	3.2	6.5	9	6.8	10
GPEB401	4	G1/8	9	5.5	14	17	23	3.2	6.5	10	7.9	10
GPEB402		G1/4	9	6.5	14	17	26	3.2	6.5	14	13.9	10
GPEB6M5		M5x0.8	12.5	3.5	16.5	20	23.5	3.2	8	12	11.2	10
GPEB601	6	G1/8	12.5	5.5	16.5	20	27	3.2	8	12	13.3	10
GPEB602		G1/4	12.5	6.5	16.5	20	28.5	3.2	8	14	17	10
GPEB603		G3/8	12.5	7	16.5	20	30	3.2	8	19	26.1	10
GPEB801		G1/8	15	5.5	18.5	23	30	4.3	9.5	14	18.2	10
GPEB802	8	G1/4	15	6.5	18.5	23	31	4.3	9.5	14	19.7	10
GPEB803		G3/8	15	7	18.5	23	32.5	4.3	9.5	19	29	10
GPEB804		G1/2	15	8.5	18.5	23	35	4.3	9.5	22	37.7	10
GPEB1001		G1/8	18	5.5	21	26.5	33.5	4.3	11	17	26.5	10
GPEB1002	10	G1/4	18	6.5	21	26.5	34.5	4.3	11	17	27.6	10
GPEB1003		G3/8	18	7	21	26.5	35.5	4.3	11	19	32.7	10
GPEB1004		G1/2	18	8.5	21	26.5	38	4.3	11	22	42.1	10
GPEB1202		G1/4	21	6.5	23	30	39	4.3	13	21	48	10
GPEB1203	12	G3/8	21	7	23	30	40	4.3	13	21	49.1	10
GPEB1204		G1/2	21	8.5	23	30	41.5	4.3	13	22	54	10

Model\Item	ΦD	R	ΦP	L	C	K	ΦJ	JA	DC	H	Weight(g)	PCS/bag
GPYB4M5		M5x0.8	9	3.5	35.5	14	3.2	13	10	9	6.7	10
GPYB401	4	G1/8	9	5.5	37.5	14	3.2	13	10	10	8.1	10
GPYB402		G1/4	9	6.5	40.5	14	3.2	13	10	14	9.2	10
GPYB6M5		M5x0.8	12.5	3.5	40.5	16.5	3.2	15.5	12	12	11.1	10
GPYB601	6	G1/8	12.5	5.5	44	16.5	3.2	15.5	12	12	13.5	10
GPYB602		G1/4	12.5	6.5	45.5	16.5	3.2	15.5	12	14	16.6	10
GPYB603		G3/8	12.5	7	47.0	16.5	3.2	15.5	12	19	25.8	10
GPYB801		G1/8	15	5.5	50	18.5	3.2	17	14.5	14	19.6	10
GPYB802	8	G1/4	15	6.5	50.5	18.5	3.2	17	14.5	14	20.4	10
GPYB803		G3/8	15	7	52	18.5	3.2	17	14.5	19	28.5	10
GPYB804		G1/2	15	8.5	55	18.5	3.2	17	14.5	22	37.5	10
GPYB1001		G1/8	18	5.5	56	21	4.3	19.5	18	17	27.2	10
GPYB1002	10	G1/4	18	6.5	57	21	4.3	19.5	18	17	27.9	10
GPYB1003		G3/8	18	7	58	21	4.3	19.5	18	19	33.3	10
GPYB1004		G1/2	18	8.5	60.5	21	4.3	19.5	18	22	42.1	10
GPYB1202		G1/4	21	6.5	64	23	4.3	21	20.5	21	25.7	10
GPYB1203	12	G3/8	21	7	65	23	4.3	21	20.5	21	49.7	10
GPYB1204		G1/2	21	8.5	66	23	4.3	21	20.5	22	53.5	10

### GPED Series



### GPZB Series



Model\Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H	Weight(g)	PCS/bag
GPED4M5		M5x0.8	9	3.5	14	17	21	3.2	6.5	9	6.8	10
GPED401	4	G1/8	9	5.5	14	17	23	3.2	6.5	10	7.9	10
GPED402		G1/4	9	6.5	14	17	26	3.2	6.5	14	13.9	10
GPED6M5		M5x0.8	12.5	3.5	16.5	20	23.5	3.2	8	12	11.2	10
GPED601	6	G1/8	12.5	5.5	16.5	20	27	3.2	8	12	13.3	10
GPED602		G1/4	12.5	6.5	16.5	20	28.5	3.2	8	14	17	10
GPED603		G3/8	12.5	7	16.5	20	30	3.2	8	19	26.1	10
GPED801		G1/8	15	5.5	18.5	23	30	4.3	9.5	14	18.2	10
GPED802	8	G1/4	15	6.5	18.5	23	31	4.3	9.5	14	19.7	10
GPED803		G3/8	15	7	18.5	23	33	4.3	9.5	19	29	10
GPED804		G1/2	15	8.5	18.5	23	35	4.3	9.5	22	37.7	10
GPED1001		G1/8	18	5.5	21	26.5	34	4.3	11	17	26.5	10
GPED1002	10	G1/4	18	6.5	21	26.5	35	4.3	11	17	27.6	10
GPED1003		G3/8	18	7	21	26.5	36	4.3	11	19	32.7	10
GPED1004		G1/2	18	8.5	21	26.5	38	4.3	11	22	42.1	10
GPED1202		G1/4	21	6.5	23	30	40	4.3	13	21	48	10
GPED1203	12	G3/8	21	7	23	30	40	4.3	13	21	49.1	10
GPED1204		G1/2	21	8.5	23	30	41.5	4.3	13	22	54	10

Model\Item	ΦD	R	L	A	E	C	ΦP	K	ΦJ	JB	JC	H	Weight(g)	PCS/bag
GPZB601		G1/8	5.5			27	47					12	15	10
GPZB602	6	G1/4	6.5	39.5	28.5	48.5	12.5	15.3	2	8	16	14	18.8	10
GPZB603		G3/8	7			30	50					19	27.8	10
GPZB801		G1/8	5.5			30	53					14	20.7	10
GPZB802	8	G1/4	6.5	46	31	54	15	18.5	4.3	19.5	19	14	22.2	10
GPZB803		G3/8	7			32.5	55.5					19	30.7	10
GPZB804		G1/2	8.5			35	58					22	40.2	10
GPZB1002		G1/4	6.5			35	61					17	31.9	10
GPZB1003	10	G3/8	7	52.5	36	62	18	21	4.3	11	22	19	37.3	10
GPZB1004		G1/2	8.5			38	64.5					22	45.9	10
GPZB1203	12	G3/8	7	59.5	40	70	21	23	4.3	13	26	21	54.4	10
GPZB1204		G1/2	8.5	59.5	41.5	71.5	21	23	4.3	13	26	22	62.1	10

# Accessories—One-Touch Fittings

AirTAC

## Metal one-touch fittings

### Ordering code

GBPC 6 01

① ② ③

#### ① Model

GBPC: Metal male connector  
(G thread)



GBPCF: Metal female connector  
(G thread)



GBPMF: Metal bulkhead female connector(G thread)



#### ② Port size

4: Φ4mm  
6: Φ6mm  
8: Φ8mm  
10: Φ10mm  
12: Φ12mm

#### ③ Thread connection

M5: M5X0.8  
01: G1/8  
02: G1/4  
03: G3/8  
04: G1/2

GBPM 6

① ②

#### ① Model

GBPM: Metal bulkhead connector  
(G thread)



#### ② Port size

4: Φ4mm  
6: Φ6mm  
8: Φ8mm  
10: Φ10mm  
12: Φ12mm

## Specification

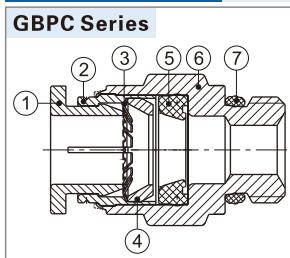
Operating pressure range	0~9kgf/cm <sup>2</sup> (0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	0~150
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

Note: The temperature resistance level of the tubing should be confirmed first when used in high temperature environments.

## Table for interface port and tube O.D.

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
GBPC	M5	●				
	G1/8	●	●	●	●	
	G1/4	●	●	●	●	●
	G3/8		●	●	●	
	G1/2			●	●	●
GBPCF	M5	●	●			
	G1/8	●	●	●	●	
	G1/4		●	●	●	
	G3/8			●	●	
	G1/2				●	●
GBPMF	M5					
	G1/8	●	●	●	●	
	G1/4		●	●	●	
	G3/8			●	●	
	G1/2				●	●
Product series	Port size					
	Φ4	Φ6	Φ8	Φ10	Φ12	
GBPM	●	●	●	●	●	

## Inner structure



NO.	Name	Material
1	Metal connector	Brass
2	Locating ring	Aluminum alloy
3	Spring gasket	Stainless steel
4	Locating seat	Aluminum alloy
5	Special shape O-ring	Viton
6	Straight connector body	Brass
7	O-ring	NBR

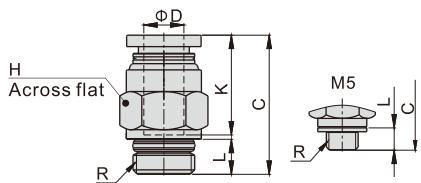
# Accessories——One-Touch Fittings

AirTAC

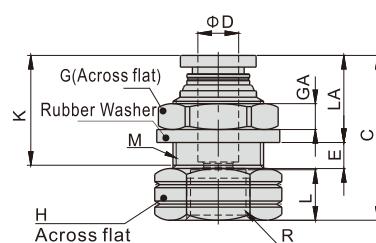
## Metal one-touch fittings

### Dimensions

#### GBPC Series

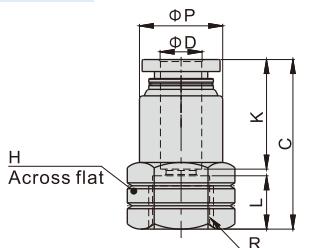


#### GBPMF Series



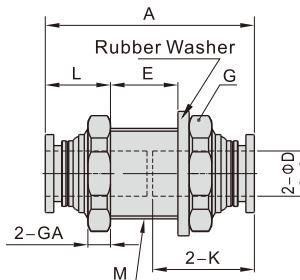
Model\Item	$\phi D$	R	L	C	K	H	Weight(g)	PCS/bag
GBPC4M5		M5X0.8	3.5	19.5	14	9	5.5	10
GBPC401	4	G1/8	5.5	16.5	13	10	7.9	10
GBPC402		G1/4	6.5	17	13	14	8.7	10
GBPC6M5		M5X0.8	3.5	22	16	12	10.1	10
GBPC601	6	G1/8	5.5	21.5	16	12	13.8	10
GBPC602		G1/4	6.5	20.5	16	14	15.1	10
GBPC603		G3/8	7	20	16	19	26	10
GBPC801	8	G1/8	5.5	25.5	18	14	13.3	10
GBPC802		G1/4	6.5	24.5	18	14	13.5	10
GBPC803		G3/8	7	21.5	18	19	25.9	10
GBPC1001	10	G1/8	5.5	28.5	20.5	17	17.2	10
GBPC1002		G1/4	6.5	28	20.5	17	19.8	10
GBPC1003		G3/8	7	24	20.5	19	32.3	10
GBPC1004		G1/2	8.5	22.5	19.5	22	31.9	10
GBPC1202	12	G1/4	6.5	32.5	22	21	29.4	10
GBPC1203		G3/8	7	30	22	21	29.3	10
GBPC1204		G1/2	8.5	27	22	22	37.2	10

#### GBPCF Series



Model\Item	$\phi D$	R	$\phi P$	L	C	K	H	Weight(g)	PCS/bag
GBPCF4M5	4	M5X0.8	9	5	21	14	10	3.5	10
GBPCF401		G1/8	9.5	8	23	14	14	5.3	10
GBPCF6M5		M5X0.8	12	5	21	16	12	5.6	10
GBPCF601	6	G1/8	12.5	8	25	16	14	7.2	10
GBPCF602		G1/4	12.5	11	28	16	17	9.2	10
GBPCF801	8	G1/8	14	8	27	18	14	7.1	10
GBPCF802		G1/4	14.5	11	30	18	17	10.6	10
GBPCF1002	10	G1/4	17	11	32.5	20.5	17	13.5	10
GBPCF1003		G3/8	18	12	33.5	20.5	21	17.5	10
GBPCF1203	12	G3/8	21	12	35	22	21	22	10
GBPCF1204		G1/2	21	13.5	36.5	22	21	24.9	10

#### GBPM Series



Model\Item	$\phi D$	M	A	K	L	E	G(Across flat)	GA	Weight(g)	PCS/bag
GBPM4	4	M12X1	28.5	14	10	7	14	4	6.4	10
GBPM6	6	M14X1	33	16	10	11	17	4	16.4	10
GBPM8	8	M16X1	37	18	11	13	19	4	15.8	10
GBPM10	10	M20X1	41.5	20.5	12	16	24	5	28.9	10
GBPM12	12	M22X1	45	22	13	17.5	27	6	40.3	10

# Accessories—One-Touch Fittings

AirTAC

## One-touch fittings—threaded type

### Ordering code

GBB 01 01  
 1 2 3

① Model	② Thread connection I	③ Thread connection II			
GBB: Male connector (G thread)  Thread connection I Thread connection II	GBD: Male & female connector(G thread)[Note1]  Thread connection I Thread connection II	GBU: Double female connector(G thread)  Thread connection I Thread connection II	GBZ: Hexagon head cap plug(G thread)[Note2]  Thread connection I	01: G1/8 02: G1/4 03: G3/8 04: G1/2	01: G1/8 02: G1/4 03: G3/8 04: G1/2

[Note1] For GBD series, Thread I is Female thread, Thread II is male thread; [Note2] For GBZ series, no thread II and thread I is male thread.

### Specification

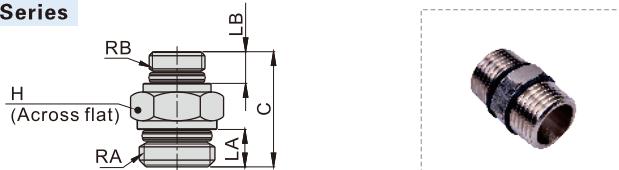
Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	3.0MPa
Ambient and fluid temperature (°C)	0~150

### Product feature

- Variable models can be widely used in every kind of pneumatic systems.
- High circulation performance bear the same flow with the volume of the tube innerdiameter.
- The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.
- Metal fittings can be used in high temperature environment.

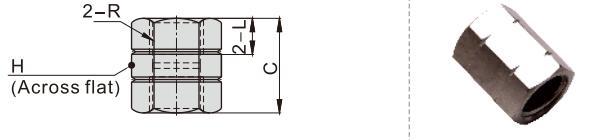
### Dimensions

#### GBB Series



Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
GBB0101	G1/8	G1/8	5.5	5.5	15.5	10	3.2	10
GBB0102	G1/4	G1/8	6.5	5.5	20	14	7.3	10
GBB0103	G3/8	G1/8	7	5.5	21.5	19	15.3	10
GBB0202	G1/4	G1/4	6.5	6.5	21	14	8.4	10
GBB0203	G3/8	G1/4	7	6.5	22.5	19	15.9	10
GBB0204	G1/2	G1/4	8.5	6.5	24.5	22	22.4	10
GBB0303	G3/8	G3/8	7	7	23.5	19	17.8	10
GBB0304	G1/2	G3/8	8.5	7	25	22	23	10
GBB0404	G1/2	G1/2	8.5	8.5	27	22	23.3	10

#### GBU Series

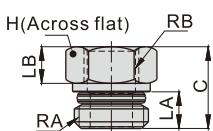


Model\Item	R	L	C	H	Weight(g)	PCS/bag
GBU0101	G1/8	6.5	17	14	8.4	10
GBU0202	G1/4	8.5	23	17	25.4	10
GBU0303	G3/8	9.5	25	21	40	10
GBU0404	G1/2	11	28	25	46.6	10

### Configuration table of tubing thread

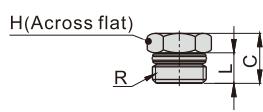
Product series	Thread connection I	Thread connection II			
		01	02	03	04
GBB	01	●	●	●	
	02		●	●	●
	03			●	●
	04				●
GBD	01		●	●	●
	02			●	●
	03				●
	04				
GBU	01		●		
	02		●		
	03			●	
	04				●
Product series	Thread connection				
	01	02	03	04	
GBZ	●	●	●	●	

#### GBD Series



Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
GBD0102	G1/4	G1/8	6.5	8	14.5	14	8.8	10
GBD0103	G3/8	G1/8	7	8	14	19	17.7	10
GBD0104	G1/2	G1/8	8.5	8	16	22	29.5	10
GBD0203	G3/8	G1/4	7	8.5	16	19	16.4	10
GBD0204	G1/2	G1/4	8.5	8.5	16	22	26.3	10
GBD0304	G1/2	G3/8	8.5	9.5	19	22	24.5	10

#### GBZ Series



Model\Item	R	L	C	H	Weight(g)	PCS/bag
GBZ01	G1/8	5.5	9	10	3.7	10
GBZ02	G1/4	6.5	12.5	14	9.2	10
GBZ03	G3/8	7	14	19	18	10
GBZ04	G1/2	8.5	16	22	29.4	10

# Accessories—One-Touch Fittings

AirTAC

## One-touch fittings—threaded type

### Ordering code

GBKC 06 04 - 01

1 2 3 4

① Model	② Tubing outer diameter	③ Tubing inner diameter	④ Thread connection
GBKC: Straight locknut connector (G thread)	04: $\Phi 4\text{mm}$ 06: $\Phi 6\text{mm}$ 08: $\Phi 8\text{mm}$ 10: $\Phi 10\text{mm}$ 12: $\Phi 12\text{mm}$	25: $\Phi 2.5\text{mm}$ 04: $\Phi 4\text{mm}$ 05: $\Phi 5\text{mm}$ 06: $\Phi 6\text{mm}$ 65: $\Phi 6.5\text{mm}$ 75: $\Phi 7.5\text{mm}$ 08: $\Phi 8\text{mm}$ 09: $\Phi 9\text{mm}$	M3: M3X0.5 M5: M5X0.8 01: G1/8 02: G1/4 03: G3/8 04: G1/2
			

Note: When using the tubing  $\Phi 8 \times \Phi 5.5$ , the straight lock nut connector of GBKC0806 can be used.

### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	3.0MPa
Ambient and fluid temperature (°C)	0~150

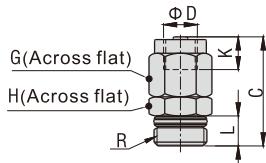
Note: The temperature resistance level of the tubing should be confirmed first when used in high temperature environments.

### Product feature

1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance bear the same flow with the volume of the tube innerdiameter.
3. The nickel plated body is anti-corrosion and anti-pollution,which allows a broader application.
4. Metal fittings can be used in high temperature environments.

### Dimensions

#### GBKC Series



Model\Item	ΦD O.D	I.D.	R	L	C	K	G	H	Weight (g)	PCS/bag	Model\Item	ΦD O.D	I.D.	R	L	C	K	G	H	Weight (g)	PCS/bag	
GBKC0425-M3	4	2.5	M3x0.5	3	17	5	8	8	4.4	10	GBKC1065-02	6.5	G1/4	6.5	28					15	23.7	10
GBKC0425-M5			M5x0.8	3.5	17.5			8	4.8	10	GBKC1065-03		G3/8	7	29.5					19	29.7	10
GBKC0425-01			G1/8	5.5	18.5			10	6.2	10	GBKC1065-04	10	G1/2	8.5	32					22	40.5	10
GBKC0604-01	6	4	G1/8	5.5	20			10	9	10	GBKC1075-02	7.5	G1/4	6.5	28					15	22.5	10
GBKC0604-02			G1/4	6.5	23.5			14	14.2	10	GBKC1075-03		G3/8	7	29.5					19	29.5	10
GBKC0604-03			G3/8	7	25			19	23.1	10	GBKC1075-04	8	G1/2	8.5	32					22	40.1	10
GBKC0805-01			G1/8	5.5	23.5			12	12.6	10	GBKC1208-02		G1/4	6.5	28					17	28.9	10
GBKC0805-02			G1/4	6.5	25.5			14	15.6	10	GBKC1208-03	8	G3/8	7	29.5					19	32.7	10
GBKC0805-03			G3/8	7	27			19	24.3	10	GBKC1208-04		G1/2	8.5	32					22	43.2	10
GBKC0806-01			G1/8	5.5	23.5			12	12.9	10	GBKC1209-02	9	G1/4	6.5	28					17	29	10
GBKC0806-02			G1/4	6.5	25.5			14	15.6	10	GBKC1209-03		G3/8	7	29.5					19	32.5	10
GBKC0806-03			G3/8	7	27			19	24.2	10	GBKC1209-04	10	G1/2	8.5	32					22	42.9	10

### Installation and application

#### 1. Method of inserting or removal a tubing

##### 1.1 Inserting a tubing

Place the locking cap over the tubing, and insert the tubing into the body, then tighten the locking cap. (As figure 1)

##### 1.2 Removing a tubing

Loosen the locking cap first, then remove the tubing. (As figure 2)

#### 2. Method of tightening the connector thread

Tighten the connector with a hex wrench, as shown right.

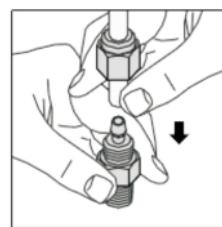


Figure 1

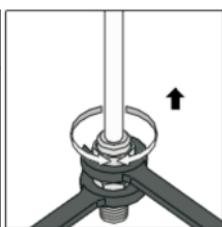


Figure 2

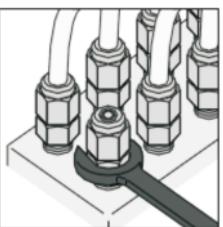


Figure 3

# Accessories—One-Touch Fittings

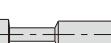
AirTAC

## One-touch fittings—tube-tube type

### Ordering code

Same diameter type fittings

GPE 6 □  
1 2 3

① Model	② Port size	③ Standard color
GPM: Bulkhead union 	Blank: Gray 4: Ø4mm 6: Ø6mm 8: Ø8mm 10: Ø10mm 12: Ø12mm	Standard color Specification Release button:Gray GPM Release button:Gray Body:Gray Others
GPLM: Bulkhead male elbow 	D: Black	Release button:Black GPM Release button:Black Body: Black Others
GPE: Union tee 		
GPP: Plug 		
GPV: Union elbow 		
GPY: Union "Y" 		
GPZ: Cross 		
GPU: Straight union 		

Different diameter type fittings

GPEG 6 - 4 □  
1 2 3 4

① Model	② Port size I	③ Port size II	④ Standard color
GPG: Different diameter straight 	4: Ø4mm 6: Ø6mm 8: Ø8mm 10: Ø10mm 12: Ø12mm	4: Ø4mm 6: Ø6mm 8: Ø8mm 10: Ø10mm	Standard color Specification Release button:Gray Body:Gray
GPZG: Different diameter cross 			
GPEW: Different diameter tee 			
GPYW: Different diameter union "Y" 			
GPGJ: Plug-in reducer 			
GPEG: Different diameter tee 			Release button:Black
GPKG: Reducer triple branch union 			Body: Black
GPHK: Universal reducer triple branch union 			
GPHD: Universal reducer four branch union 			

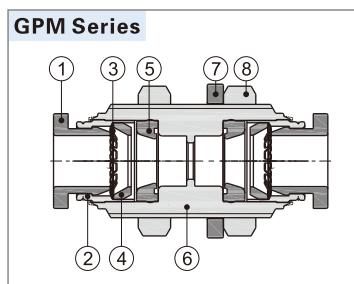
### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Product feature

- Variable models can be widely used in every kind of pneumatic systems.
- High circulation performance: bear the same flow with the volume of the tubing inside diameter.
- Connect tubing easily and conveniently. The tubing connection portion is safe and durable.
- The threaded portion is covered with sealant and the M5 thread is attached with a sealing gasket to prevent air leakage over the connection thread portion.

### Inner structure



No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	Aluminum alloy
7	Rubber washer	NBR
8	Nut	Aluminum alloy

### Table for interface port and tube O.D.

Product series	Port size I	Port size II			
		Φ4	Φ6	Φ8	Φ10
GPG GPGJ	Φ4				
	Φ6	●			
	Φ8	●	●		
	Φ10		●	●	
	Φ12		●		●
GPEG GPEW GPYW	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12		●	●	●
GPZG	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12				●
GPKG	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12				
GPHK GPHD	Φ4				
	Φ6			●	
	Φ8				●
	Φ10				●
	Φ12				

Product series	Port size				
	Φ4	Φ6	Φ8	Φ10	Φ12
GPE, GPY, GPV, GPU GPM, GPLM, GPP, GPZ	●	●	●	●	●

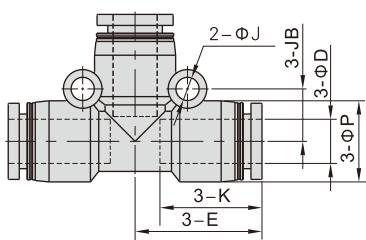
# Accessories—One-Touch Fittings

AirTAC

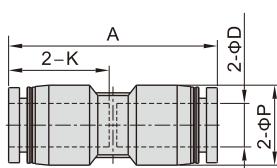
## One-touch fittings—tube-tube type

### Dimensions

#### GPE Series



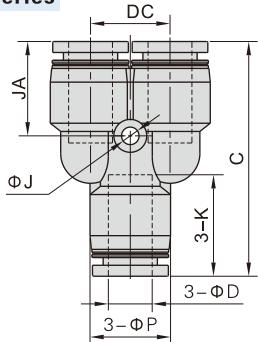
#### GPU Series



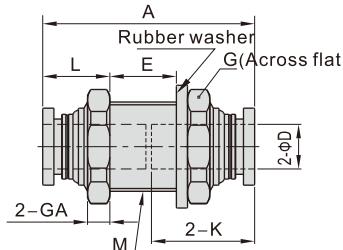
Model\Item	ΦD	ΦP	K	E	ΦJ	JB	Weight(g)	PCS/bag
GPE4	4	9	14	17	3.2	6.5	3.1	10
GPE6	6	12.5	16.5	20	3.2	8	6.1	10
GPE8	8	15	18.5	23	4.3	9.5	8.8	10
GPE10	10	18	21	26.5	4.3	11	13.8	10
GPE12	12	21	23	30	4.3	13	21	10

Model\Item	ΦD	ΦP	K	A	Weight(g)	PCS/bag
GPU4	4	9	14	29.5	1.7	10
GPU6	6	12.5	16.5	34	3.6	10
GPU8	8	15	18.5	38.5	5	10
GPU10	10	18	21	43	8.1	10
GPU12	12	21	23	47	12	10

#### GPY Series



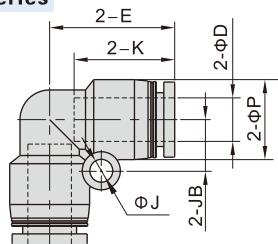
#### GPM Series



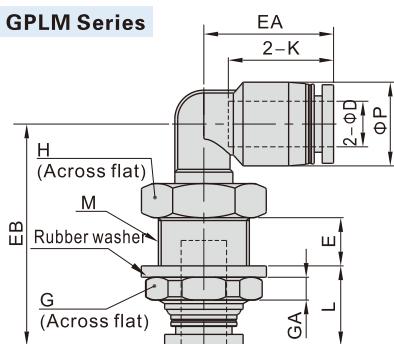
Model\Item	ΦD	ΦP	C	K	ΦJ	JA	DC	Weight(g)	PCS/bag
GPY4	4	9	31.5	14	3.2	13	10	3	10
GPY6	6	12.5	37	16.5	3.2	15.5	12	6	10
GPY8	8	15	42.5	18.5	3.2	17	14.5	8.6	10
GPY10	10	18	48.5	21	4.3	19.5	18	14	10
GPY12	12	21	54.5	23	4.3	21	20.5	21.2	10

Model\Item	ΦD	M	A	K	L	E	GA	G	Weight(g)	PCS/bag
GPM4	4	M12X1	29	14	10	7	4	14	6.2	10
GPM6	6	M14X1	34	16.5	10.5	11	4	17	9.5	10
GPM8	8	M16X1	38	18.5	11.5	13	4	19	15.7	10
GPM10	10	M20X1	43	21	12.5	16	5	24	22.5	10
GPM12	12	M22X1	46.5	23	13.5	17.5	6	27	29.5	10

#### GPV Series



#### GPLM Series



Model\Item	ΦD	ΦP	K	E	ΦJ	JB	Weight(g)	PCS/bag
GPV4	4	9	14	17	3.2	6.5	1.9	10
GPV6	6	12.5	16.5	20	3.2	8	4.2	10
GPV8	8	15	18.5	23	4.3	9.5	6	10
GPV10	10	18	21	26.5	4.3	11	9.3	10
GPV12	12	21	23	30	4.3	13	14.6	10

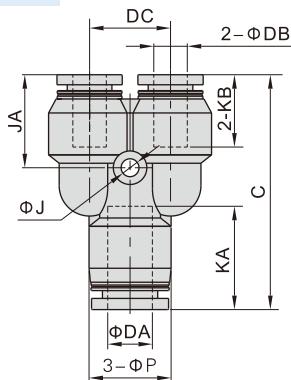
Model\Item	ΦD	ΦP	M	L	E	K	EA	EB	GA	G	H	Weight(g)	PCS/bag
GPLM4	4	9	M12X1	12	7.5	14	17	31	4	14	14	7.5	10
GPLM6	6	12.5	M14X1	12.5	8.5	17	20	35.5	4	17	17	12.1	10
GPLM8	8	15	M16X1	13.5	9	18.5	23	39	4	19	19	16.6	10
GPLM10	10	18	M20X1	14.5	11	21	25.5	44.5	5	24	22	26.2	10
GPLM12	12	21	M22X1	15.5	11	23	29.5	48	6	27	24	34	10

# Accessories—One-Touch Fittings

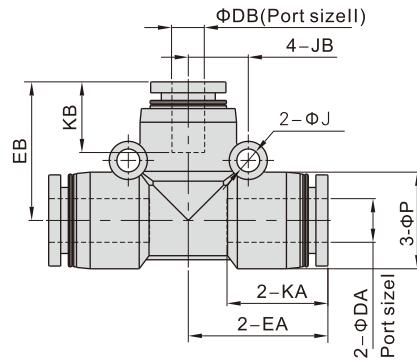
AirTAC

## One-touch fittings—tube-tube type

### GPYW Series



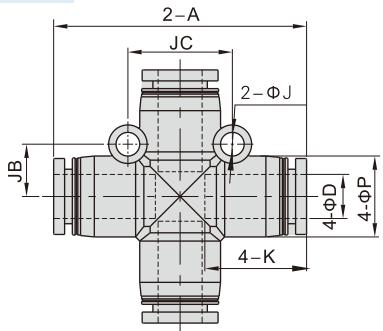
### GPEG Series



Model\Item	ΦDA	ΦDB	C	ΦP	KA	KB	ΦJ	JA	DC	Weight(g)	PCS/bag
GPYW6-4	6	4	36.5	12.5	16.5	14	3.2	15	12	5.8	10
GPYW8-6	8	6	42	15	18.5	16.5	3.2	16.5	14.5	9.1	10
GPYW10-8	10	8	48.5	18	21	18.5	4.3	19	18	14.1	10
GPYW12-8	12	8	54	21	23	18.5	4.3	20.5	20.5	22.3	10
GPYW12-10	12	10	54.5	21	23	21	4.3	21	20.5	21.7	10

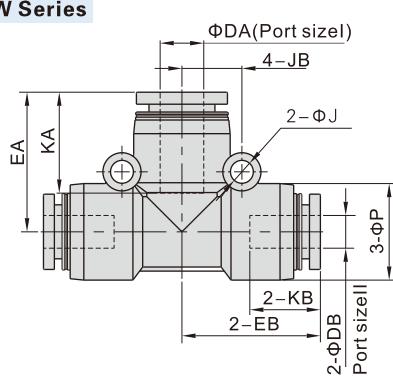
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB	Weight(g)	PCS/bag
GPEG6-4	6	4	12.5	16.5	14	20.0	19.5	3.2	8	7	10
GPEG8-6	8	6	15	18.5	16.5	22.5	22	4.3	9.5	22.8	10
GPEG10-8	10	8	18	21	18.5	25.5	25.5	4.3	11	15.1	10
GPEG12-8	12	8	21	23	18.5	29	28.5	4.3	13	2.2	10
GPEG12-10	12	10	21	23	21	29	29	4.3	13	21.5	10

### GPZ Series



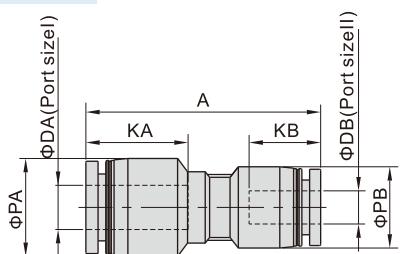
Model\Item	ΦD	A	ΦP	K	ΦJ	JB	JC	Weight(g)	PCS/bag
GPZ4	4	34	9	14	3.2	6.5	13	3.9	10
GPZ6	6	39.5	12.5	16.5	3.2	8	16	7.9	10
GPZ8	8	46	15	18.5	4.3	9.5	19	11.1	10
GPZ10	10	52.5	18	21	4.3	11	22	17.5	10
GPZ12	12	59.5	21	23	4.3	13	26	26.6	10

### GPEW Series

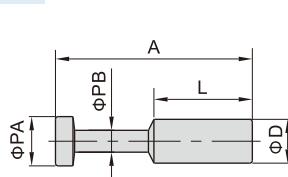


Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB	Weight(g)	PCS/bag
GPEW6-4	6	4	12.5	16.5	14	20	19.5	3.2	8	7	10
GPEW8-6	8	6	15	18.5	16.5	22.5	22	4.3	9.5	22.8	10
GPEW10-8	10	8	18	21	18.5	25.5	25.5	4.3	11	15.1	10
GPEW12-8	12	8	21	23	18.5	29	28.5	4.3	13	2.2	10
GPEW12-10	12	10	21	23	21	29	29	4.3	13	21.5	10

### PGP Series



### GPP Series



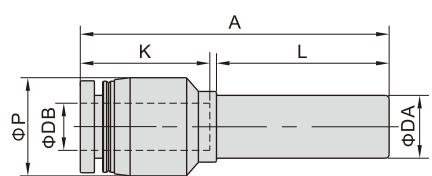
Model\Item	ΦD	ΦPA	ΦPB	L	A	Weight(g)	PCS/bag
GPP4	4	5	3	15	27.5	0.7	10
GPP6	6	7	3	17	32	0.9	10
GPP8	8	9	4	18	36	1.6	10
GPP10	10	11	5	20	42	2.5	10
GPP12	12	13	6	23	44	4.3	10

# Accessories—One-Touch Fittings

One-touch fittings—tube-tube type

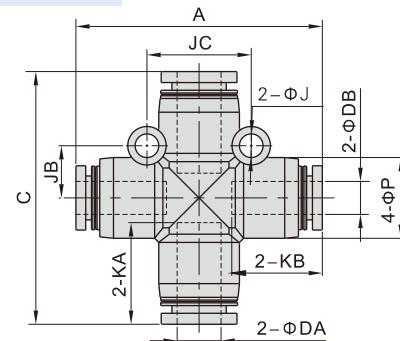
AirTAC

## GPGJ Series



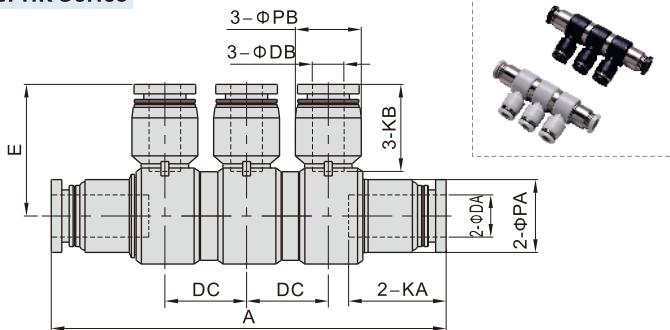
Model\Item	ΦDA	ΦDB	ΦP	K	L	A	Weight(g)	PCS/bag
GPGJ6-4	6	4	9	14	21	35	1.5	10
GPGJ8-4	8	4	12.5	14	22	39	2.6	10
GPGJ8-6	8	6	12.5	16.5	22	39.5	3.2	10
GPGJ10-6	10	6	15	16.5	25	44	4.1	10
GPGJ10-8	10	8	15	18.5	25	44.5	3.9	10
GPGJ12-8	12	8	18	18.5	26	48.5	6.2	10
GPGJ12-10	12	10	18	21	26	49	6	10

## GPZG Series

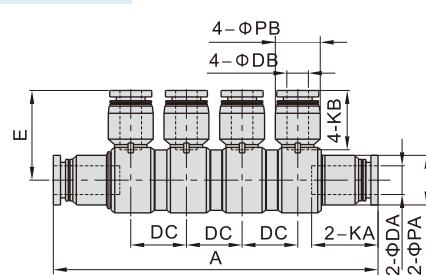


Model\Item	ΦDA	ΦDB	A	C	ΦP	KA	KB	ΦJ	JB	JC	Weight(g)	PCS/bag
GPZG6-4	6	4	39	39.5	12.5	16.5	14	3.2	8	16	8.2	10
GPZG8-6	8	6	45	46	15	18.5	16.5	4.3	9.5	19	12	10
GPZG10-8	10	8	52	52.5	18	21	18.5	4.3	11	22	18.1	10
GPZG12-10	12	10	59	59.5	21	23	21	4.3	13	26	29	10

## GPHK Series

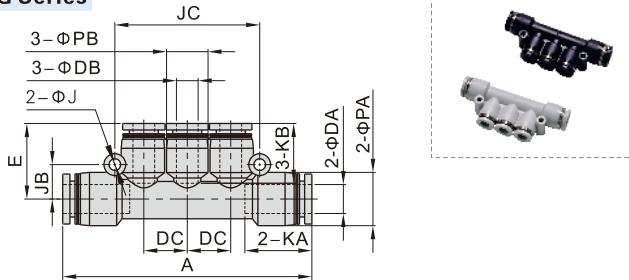


## GPHD Series



Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	DC	E	Weight(g)	PCS/bag
GPHK8-6	8	6	75	14	12.5	18.5	16.5	15.5	25	28.4	2
GPHK10-8	10	8	85.5	17	15	21	18.5	16.5	29.5	45	2

## GPKG Series



Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	DC	E	Weight(g)	PCS/bag
GPKG6-4	6	4	58.5	12.5	9	16.5	14	3.2	8	34	10
GPKG8-6	8	6	69	15	12.5	18.5	16.5	3.2	9.5	40	12
GPKG10-8	10	8	80	18	15	21	18.5	4.3	11	48	14.5

# Accessories—Speed controllers

AirTAC

## GPSA, GPSS series

### Ordering code

GPSS 6 01 A □  
 1 2 3 4 5

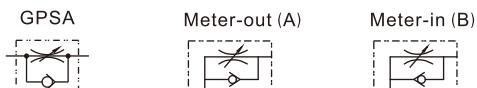
① Model	② Port size	③ Thread connection	④ Control method	⑤ Standard color
GPSA: Universal speed controller(G thread)	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Thread M5: M5X0.8 01: G1/8 02: G1/4 03: G3/8 04: G1/2	Adaptable port size Φ4 Φ4, Φ6 Φ8, Φ10 Φ12	A: Meter-out Handle marking "A" Controlled flow Free flow B: Meter-in Handle marking "B" Free flow Controlled flow
				Standard color Specification Blank: Gray Release button: Gray Body:Gray D: Black Release button: Black Body: Black

① Model	② Port size	③ Standard color
GPSA: Straight speed controller	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Standard color Specification Blank: Gray Release button: Gray Body:Gray D: Black Release button: Black Body: Black

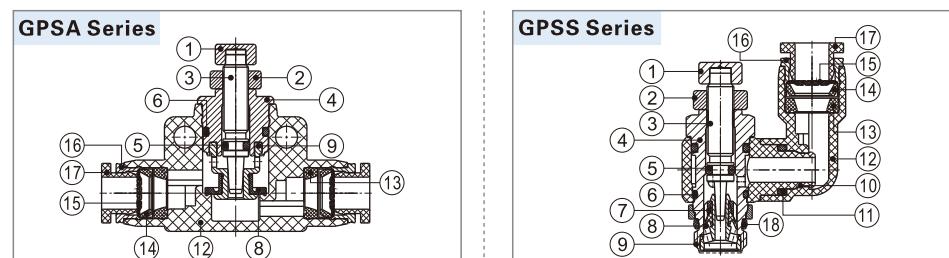
### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Symbol



### Inner structure



NO.	Name	Material	NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	Aluminum alloy	7	Holder	PBT	13	O-ring	NBR
2	Locking cap	Aluminum alloy	8	O-ring	NBR	14	Locating seat	POM
3	Throttling column	Brass	9	Throttling sleeve	Aluminum alloy/Brass	15	Spring gasket	Stainless steel
4	Throttling body	Brass	10	Plastic body	PBT	16	Locating ring	Aluminum alloy
5	O-ring	NBR	11	O-ring	NBR	17	Plastic interface	POM
6	O-ring	NBR	12	Plastic body	PBT	18	O-ring	NBR

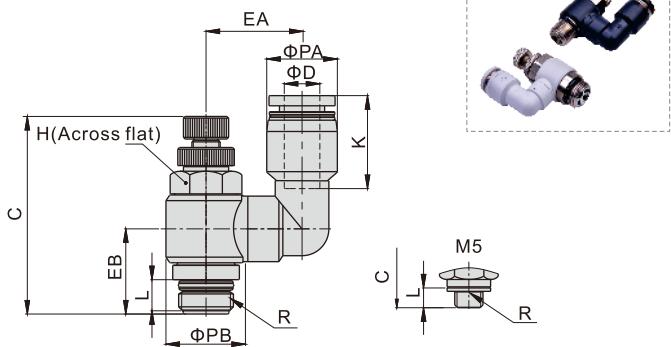
# Accessories—Speed controllers

AirTAC

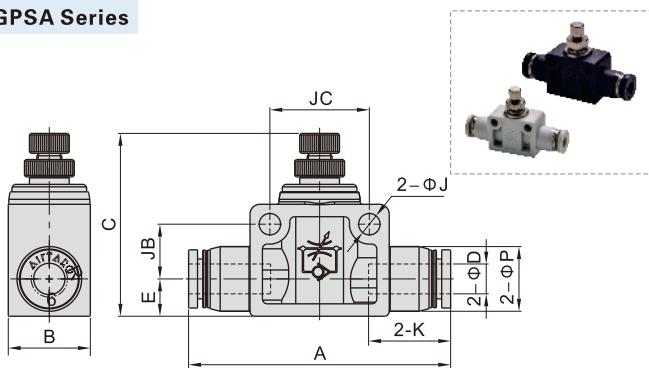
## GPSA, GPSS series

### Dimensions

#### GPSS Series



#### GPSA Series



Model\Item [Note1]	$\Phi D$	R	$\Phi P_A$	$\Phi P_B$	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						max	min						
GPSS4M5□	4	M5×0.8	9	10	3.5	30	27.5	14	12.5	9.5	8	8.1	2
GPSS601□	6	G1/8	12.5	14	5.5	41.5	35	17	17	15	11	19	2
GPSS602□	6	G1/4	12.5	18	6.5	47.5	41	17	19	17.5	14	34.7	2
GPSS801□	8	G1/8	15	14	5.5	41.5	35	18.5	17	15	11	20.2	2
GPSS802□	8	G1/4	15	18	6.5	47.5	41	18.5	19	17.5	14	39.8	2
GPSS1002□	10	G1/4	18	18	6.5	47.5	41	21	20.5	17.5	14	37.2	2
GPSS1003□	10	G3/8	18	22.5	7	52.5	45.5	21	24	20	19	66	2
GPSS1203□	12	G3/8	21	22.5	7	52.5	45.5	23	25.5	20	19	69.2	2
GPSS1204□	12	G1/2	21	28	8.5	58.5	51.5	23	28	25	24	105.8	2

[Note1] “□” stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

Model\Item	$\Phi D$	A	B	C		$\Phi P$	E	K	$\Phi J$	JB	JC	Weight (g)	PCS/bag
				max	min								
GPSA4	4	41	11	29	26.5	9.5	7	14	3.2	6	14	7.85	2
GPSA6	6	52.5	16.5	43.5	36.5	13	7.5	16.5	4.3	11	20	18.3	2
GPSA8	8	59.5	16.5	47	40	15	8.5	18.5	4.3	11	22	23.5	2
GPSA10	10	69	21	53.5	46.5	18	10.5	21	4.3	14.5	26	42.4	2
GPSA12	12	78.5	26	58.5	51	21.5	12	23	4.3	17.5	32	67.5	2

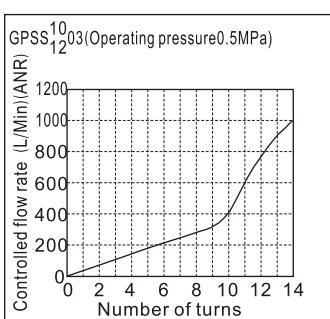
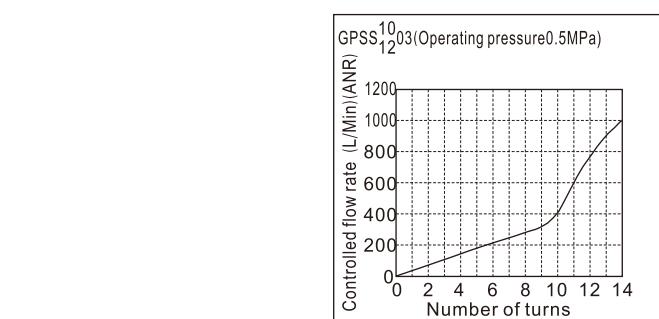
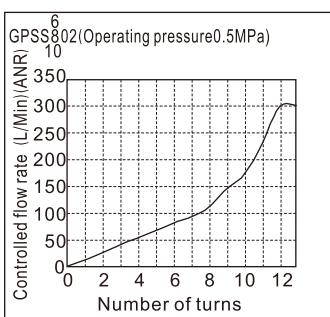
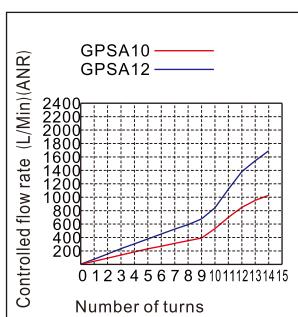
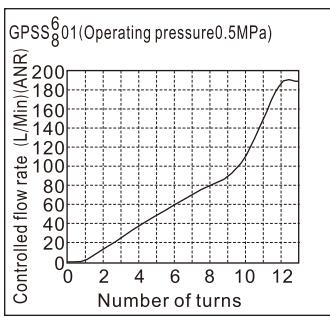
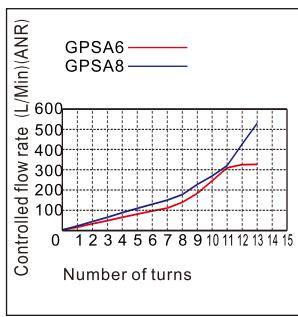
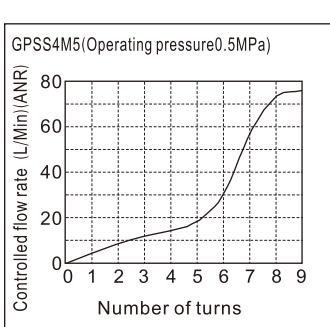
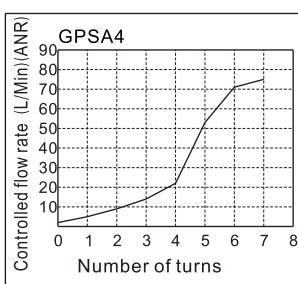
# Accessories——Speed controllers

AirTAC

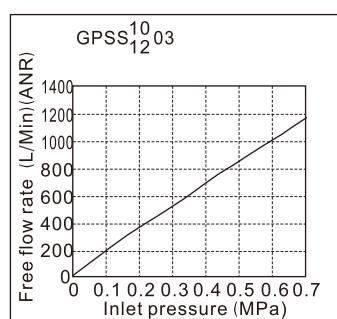
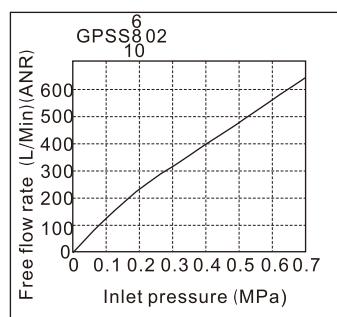
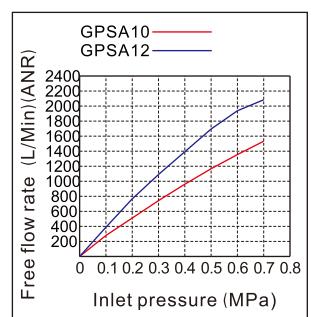
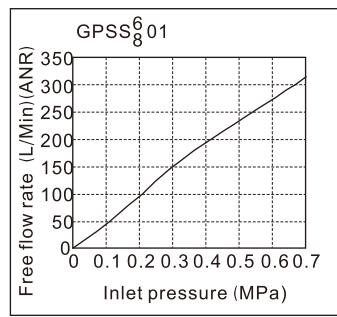
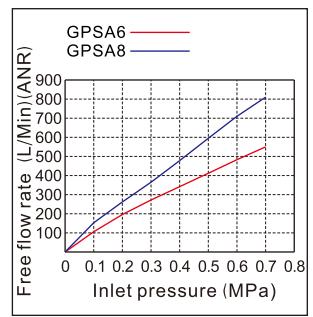
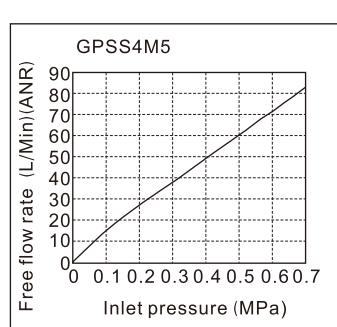
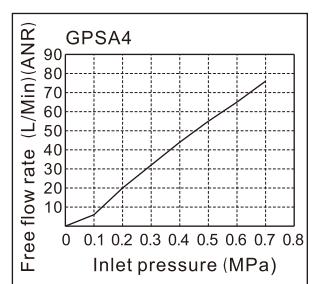
## GPSA, GPSS series

### Flowrate characteristic

#### Controlled flow rate



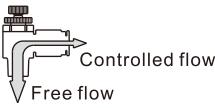
#### Free flow rate



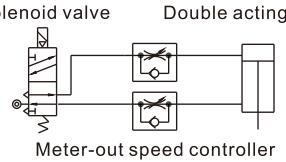
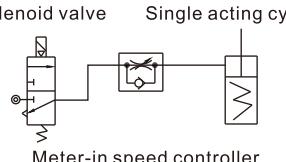
### Selection, Installation and Operation

#### Selection

1. The speed controller has meter-out type and meter-in type:

Working principle		Product identification
	<b>A: Meter-out</b> 1. The air flow is controlled from the threaded end to tubing connection end. 2. The air flow is free from the tubing connection end to the threaded end.	
	<b>B: Meter-in</b> 1. The air flow is free from the threaded end to tubing connection end. 2. The air flow is controlled from the tubing connection end to the threaded end	

2. Select the different control method according to the actual requirement. The meter-out type is the first priority.

2.1. The application example of the meter-out speed controller	2.2. The application example of the meter-in speed controller
	

#### Installation

1. Installation and removal of tubing:

##### 1.1. Installation of tubing

Grasp the tubing and slowly push it into the fitting until it comes to a stop. The tubing will be locked by the spring gasket.

##### 1.2. Removal of tubing

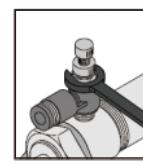
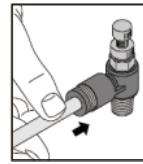
Push the release button to open the spring gasket so that the tubing can be released.

Note: When remove the tubing, make sure the pressure in the tubing is Zero.

2. Mounting of the speed controller

Mount the speed controller into the inlet and outlet port of the cylinder with a wrench.

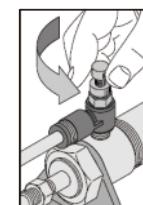
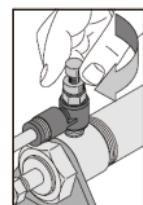
Note: Please refer to the fittings for the tightening torque and thread screw-in depth.



#### Operation

1. Adjustment of the cylinder speed

- 1.1. Make sure the speed controller is turned off before applying air pressure. The cylinder may fly out due to the high speed if the air is inlet when the speed controller is turned on.
- 1.2. Adjust the speed by opening the needle slowly from the fully closed state. When a needle valve is turned clockwise, the air flow through is reduced and the actuator speed decreases. When a needle valve is turned counter-clockwise, the air flow through is increased and the actuator speed increases.



2. Operation of the speed controller

- 2.1. Do not use tools such as pliers to rotate the handle. Do not apply excessive force or shock when the needle is at the place of top or bottom. It can cause damage or air leakage.
- 2.2. A certain amount of leakage is allowed in the closed state of the speed controller. It is not designed for the use as stop valve with zero air leakage.

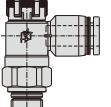
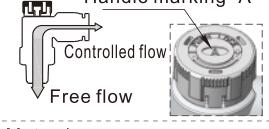
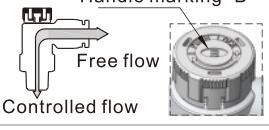
# Accessories—Speed controllers(Push lock)

AirTAC

## GPTL Mini series

### Ordering code

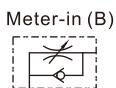
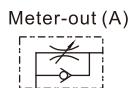
GPTL 6 M5 A □ -M  
 1 2 3 4 5 6

① Model	② Port size	③ Thread connection	④ Control method	⑤ Standard color	⑥ Style
GPTL: Speed controller (Push lock) (G Thread)  	4: Φ4mm 6: Φ6mm	M5: M5X0.8 01: G1/8	<p>A: Meter-out Handle marking "A" Controlled flow Free flow</p>  <p>B: Meter-in Handle marking "B" Controlled flow Free flow</p> 	<p>Standard color Blank: Gray</p> <p>D: Black</p>	<p>Specification Release button: Gray Body: Gray</p> <p>M: Mini type Release button: Black Body: Black</p>

### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Symbol



### Selection, Installation and Operation

1. The rotation torque of the push-lock speed controller cap should not be too large to avoid damage.

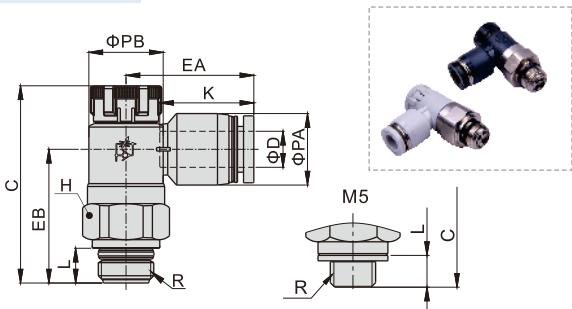
It is recommended to use the torque below.

Thread size	Recommended torque(N.m)
M5	0.05
G1/8	0.08

2. Push-lock speed controller installation instructions is the same as general one. Please refer to general type for specific content.

### Dimensions

#### GPTL Mini series



Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C Pull/Push	K	EA	EB	H	Weight (g)	PCS/bag
GPTL4M5□-M	4	M5×0.8	8.5	9	3.5	29.5	28	12.5	16.5	19	9	5
		G1/8	8.5	9	5.5	29.5	28	12.5	16.5	19.5	10	5.7
GPTL6M5□-M	6	M5×0.8	10.5	9	3.5	29.5	28	13.5	19.5	19	9	6.2
		G1/8	10.5	9	5.5	29.5	28	13.5	19.5	19.5	10	6.9

[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

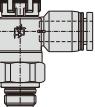
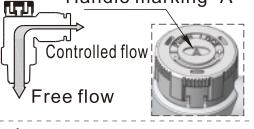
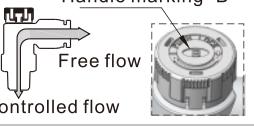
# Accessories—Speed controllers(Push lock)

AirTAC

## GPTL series

### Ordering code

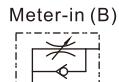
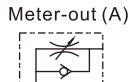
GPTL 6 01 A □  
 1 2 3 4 5

①Model	②Port size	③Thread connection	④Control method	⑤Standard color
GPTL: Speed controller (Push lock) (G Thread) 	6: Ø6mm	01: G1/8 02: G1/4 03: G3/8	A: Meter-out Handle marking "A" Controlled flow Free flow 	Standard color Blank: Gray Release button: Gray Body: Gray
	8: Ø8mm	01: G1/8 02: G1/4 03: G3/8 04: G1/2	B: Meter-in Handle marking "B" Free flow Controlled flow 	D: Black Release button: Black Body: Black
	10: Ø10mm	02: G1/4 03: G3/8 04: G1/2		
	12: Ø12mm	03: G3/8 04: G1/2		

### Specification

Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

### Symbol



### Selection, Installation and Operation

1. The rotation torque of the push-lock speed controller cap should not be too large to avoid damage.

It is recommended to use the torque below.

Thread size	Recommended torque(N.m)
G1/8	0.08
G1/4	0.16
G3/8	0.24
G1/2	0.32

2. Push-lock speed controller installation instructions is the same as general one. Please refer to general type for specific content.

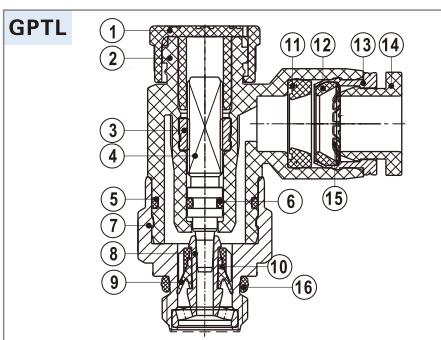
### Product feature

- Compare with standard speed controller, smaller size, lighter weight, suitable for more occasions.
- Effectively control the action speed and the pressure signal transmission from pneumatic device.
- Simple push-lock, operation.
- Adjust quickly, easily and accurately.
- Excellent flow rate characteristic, high sensitivity and easy to adjust.
- Options of Meter-out and meter-in, applicable for every type actuator.
- Effectively prevent from corrosion and pollution by nickel plated copper.

### Table for interface port and tube O.D.

Product series	Thread type	Port size			
		Ø6	Ø8	Ø10	Ø12
GPTL	G1/8	●			
	G1/4	●	●		
	G3/8	●	●	●	●
	G1/2		●	●	●

### Inner structure



NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	POM	9	Holder	PBT
2	Plastic body	PBT	10	O-ring	NBR
3	Locating ring	Aluminum alloy	11	O-ring	NBR
4	Throttling column	Aluminum alloy	12	Locating seat	POM
5	O-ring	NBR	13	Locating ring	Aluminum alloy
6	O-ring	NBR	14	Plastic interface	POM
7	Throttling body	Brass	15	Spring gasket	Stainless steel
8	Throttling sleeve	Aluminum alloy	16	O-ring	NBR

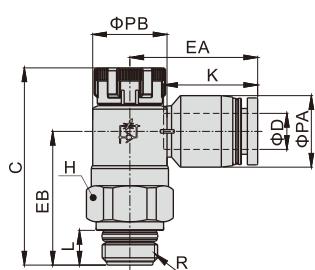
## **Accessories—Speed controllers(Push lock)**

AirTAC

GPTL series

## Dimensions

GPTL Series

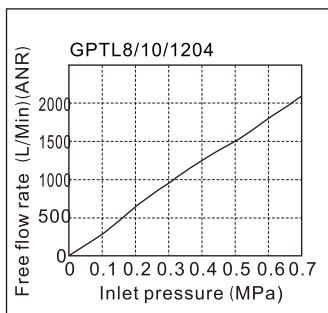
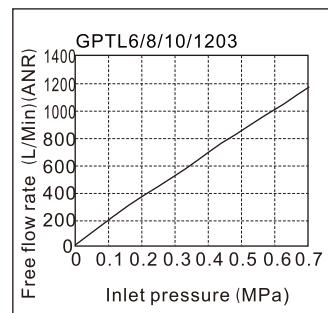
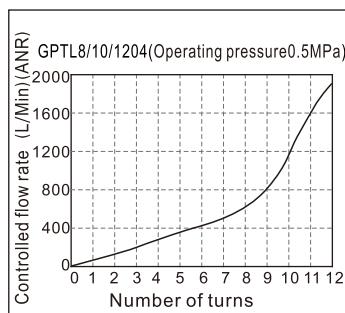
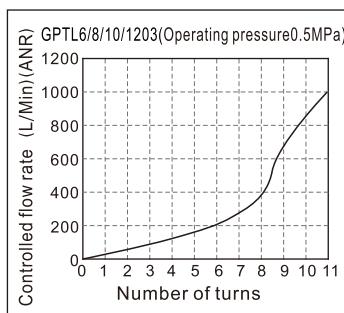
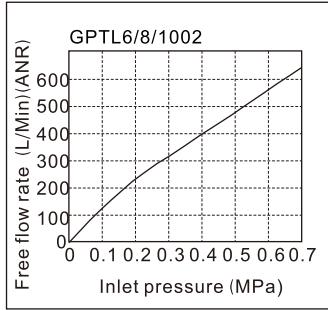
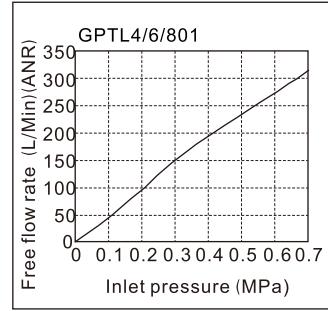
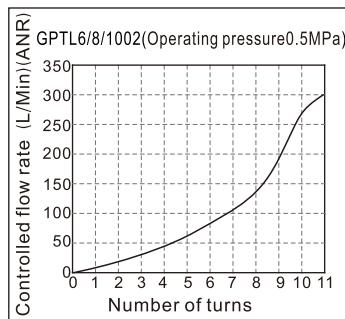
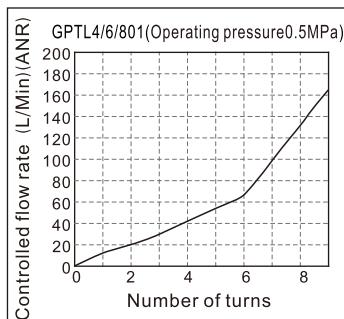
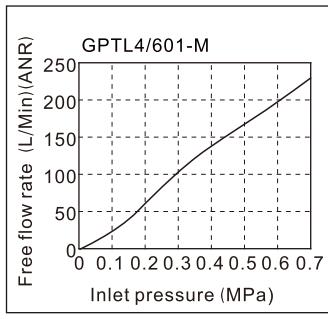
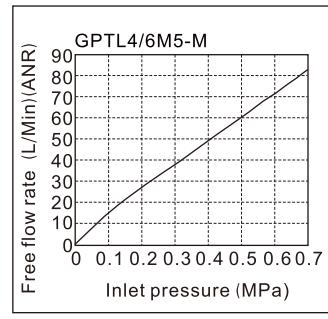
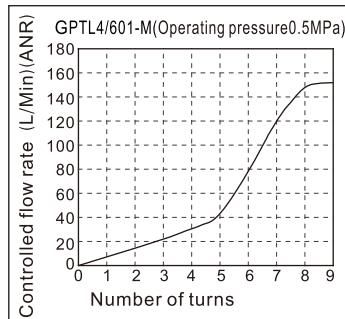
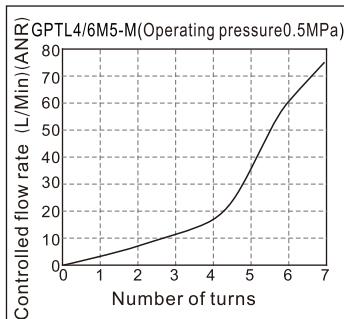


Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						Pull	Push						
GPTL601□	6	G1/8	12.5	13	5.5	36	34.5	16.5	22.5	23.5	14	12.5	2
GPTL602□		G1/4	12.5	16.5	6.5	40.5	39	16.5	24	28	17	19.5	2
GPTL603□		G3/8	12.5	19	7	44	42.5	16.5	25.5	31	19	28.5	2
GPTL801□	8	G1/8	15	13	5.5	36	34.5	18.5	24.5	22.5	14	13	2
GPTL802□		G1/4	15	16.5	6.5	40.5	39	18.5	26	27	17	20.5	2
GPTL803□		G3/8	15	19	7	44	42.5	18.5	27	30	19	29	2
GPTL804□		G1/2	15	24	8.5	52.5	51	18.5	29.5	37.5	24	49	2
GPTL1002□	10	G1/4	18	16.5	6.5	40.5	39	21	31	26	17	22	2
GPTL1003□		G3/8	18	19	7	44	42.5	21	29	29	19	30.5	2
GPTL1004□		G1/2	18	24	8.5	52.5	51	21	31.5	36.5	24	50.5	2
GPTL1203□	12	G3/8	21	19	7	44	42.5	23	34.5	28	19	32.5	2
GPTL1204□		G1/2	21	24	8.5	52.5	51	23	34	28	24	53	2

[Note1] “□” stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

## Flowrate characteristic

### **Controlled flow rate**



# Accessories——Finger valve

AirTAC

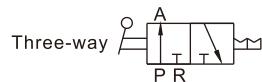
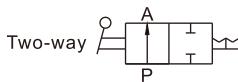
## GPHV series



### Specification

Model	GPHV6	GPHV8	GPHV10	GPHV12
Operating pressure range	0~10kgf/cm <sup>2</sup> (0~1.0MPa)			
Negative pressure		-750mmHg(10Torr)		
Proof pressure			1.5MPa	
Ambient and fluid temperature (°C)			-20~70	
Applicable tubing		Soft nylon or polyurethane		
Color		Gray/black		

### Symbol



### Ordering code

GPHV 6 A □			
①Fitting type	②Port size	③Valve specification	④Standard color
GPHV: Finger valve	6: Ø6mm	A: Three-way Knob identifier "A"	Blank: Gray(Release button: Gray) Body:Gray
	8: Ø8mm	B: Two-way Knob identifier "B"	D: Black(Release button: Black) Body: Black)
	10: Ø10mm		
	12: Ø12mm		

### Diagram of finger valve in the open and closed states

#### Closed state

Valve is closed, when the angle between the arrow on knob and the arrow on valve body is 90 degree

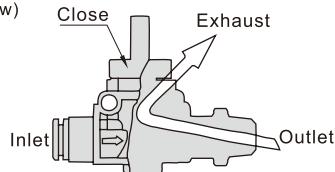


#### Opened state

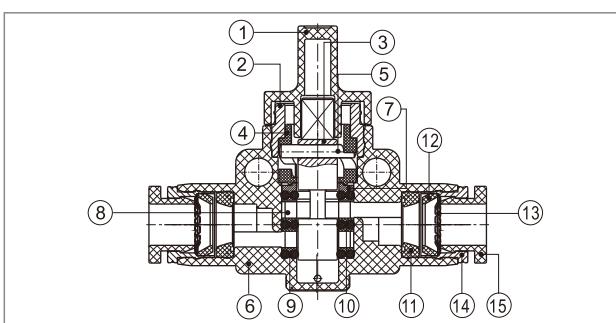
Valve is open, when the direction of the arrow on commutation knob is consistent with that on valve body.



When the three-way valve is closed, the outlet pressure is released, which facilitates in commissioning and maintenance. (as figure below)

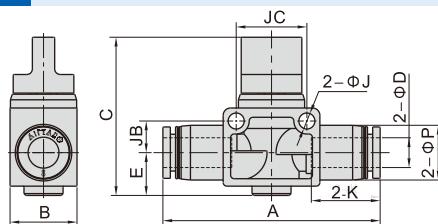


### Inner structure



NO.	Name	Material	NO.	Name	Material
1	Knob	POM	9	Special shape O-ring	NBR
2	Fixing ring	Aluminum alloy	10	Spacer ring	Aluminum alloy
3	Spool	Aluminum alloy	11	Special shape O-ring	NBR
4	Cam groove block	POM	12	Locating seat	POM
5	Pin	Stainless steel	13	Spring gasket	Stainless steel
6	Plastic body	PBT	14	Locating ring	Aluminum alloy
7	Locating block	Aluminum alloy	15	Plastic interface	POM
8	Spacer	POM			

### Dimensions



Model\Item	ΦD	A	B	C	ΦP	K	E	ΦJ	JB	JC	Weight(g)	PCS/bag
GPHV6□	6	51.5	17	40.5	12.5	16.5	10	4.3	8	18	14.3	2
GPHV8□	8	58.5	18	42.5	15	18.5	11.5	4.3	8.5	19	17.5	2
GPHV10□	10	66	21	42	18	21	11	4.3	11	24	25.1	2
GPHV12□	12	71	22	46	21	23	13	4.3	11	24	31.4	2

Note: "□" indicates "A" or "B", "A" indicates three-way, and "B" indicates two-way.

The two kinds of valve have same dimensions.

# Accessories——Silencers

GBSL, GBSLM, GBESL series

AirTAC

## Ordering code

GBSL 01	
① Silencer Type	② Thread connection
GBSL: Universal silencer(G thread) GBSLM: Mini Silencer(G thread) GBESL: Throttling silencer(G thread)	M5: M5X0.8 01: G1/8 02: G1/4 03: G3/8 04: G1/2

## Product feature

1. This silencers have excellent noise silencing performance.
2. The installation of the silencer is simple and convenient, and the connecting portion is reliable and durable.
3. It is easy to adjust the exhaust flow of the throttling type silencer.

## Configuration table of tubing thread

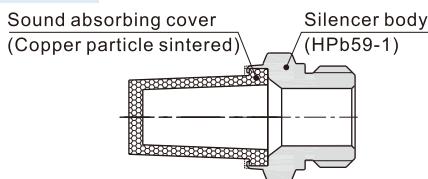
Product series	Thread connection				
	M5	01	02	03	04
GBSL	●	●	●	●	●
GBSLM	●	●	●	●	●
GBESL		●	●	●	●

## Specification

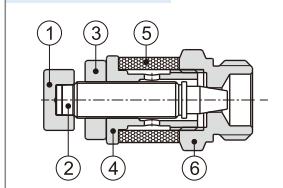
Model	GBSLM5	GBSL01	GBSL02	GBSL03	GBSL04	GBSLMM5	GBSLM01	GBSLM02	GBSLM03	GBSLM04	
Thread connection	M5×0.8	G1/8	G1/4	G3/8	G1/2	M5×0.8	G1/8	G1/4	G3/8	G1/2	
Silencing effect(dB)(0.5MPa)	15	20	20	20	12	15	20	20	20	20	
Model	GBESL01	GBESL02	GBESL03	GBESL04							
Thread connection	G1/8	G1/4	G3/8	G1/2							
Silencing effect(dB)(0.5MPa)	20	20	20	20							
Operating pressure	0~10kgf/cm <sup>2</sup> (0~1.0MPa)										
Negative pressure	-750mmHg(10Torr)										
Proof pressure	1.5MPa										
Temperature range	-20~70°C										

## Inner structure

### GBSL Series



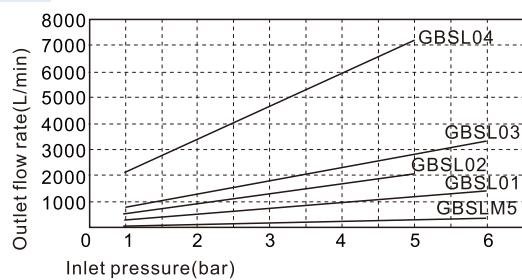
### GBESL Series



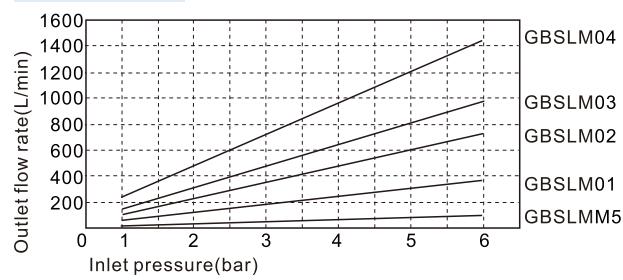
NO.	Name	Material
1	Adjusting cap	Aluminum alloy
2	Throttling column	Aluminum alloy
3	Locking cap	Aluminum alloy
4	Locking ring	Aluminum alloy
5	Silencer ring	Copper particle sintered
6	Silencer body	Brass

## Flowrate characteristic

### GBSL Series



### GBSLM Series



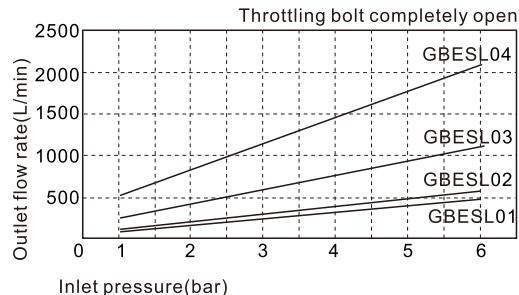
# Accessories——Silencers

GBSL, GBSLM, GBESL series

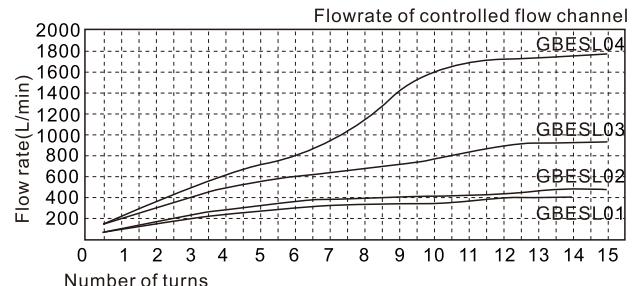
AirTAC

## Flowrate characteristic

**GBESL Series** (Inlet pressure and outlet flow rate)

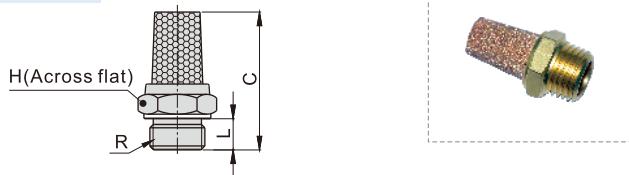


**GBESL Series**



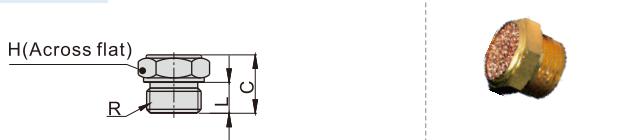
## Dimensions

**GBSL Series**



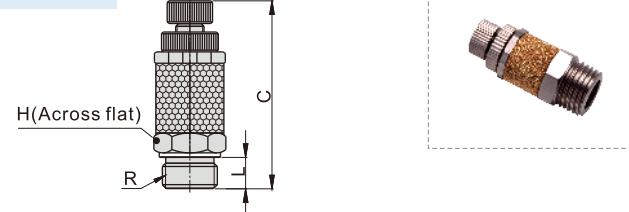
Model\Item	R	L	C	H	Weight(g)	PCS/bag
GBSLM5	M5×0.8	3.5	19.5	8	2.9	10
GBSL01	G1/8	5.5	24	12	6.8	10
GBSL02	G1/4	6.5	29.5	15	11.3	10
GBSL03	G3/8	7	37.5	19	21.1	10
GBSL04	G1/2	8.5	45	22	33.6	10

**GBSLM Series**



Model\Item	R	L	C	H	Weight(g)	PCS/bag
GBSLLM5	M5×0.8	3.5	9.5	8	2.3	10
GBSLM01	G1/8	5.5	11	11	4.4	10
GBSLM02	G1/4	6.5	13	15	8.1	10
GBSLM03	G3/8	7	14.5	19	14.9	10
GBSLM04	G1/2	8.5	17.5	22	24.5	10

**GBESL Series**



Model\Item	R	L	C		H	Weight(g)	PCS/bag
			max	min			
GBESL01	G1/8	5.5	40.5	33	12	10.1	10
GBESL02	G1/4	6.5	42	34.5	14	17.9	10
GBESL03	G3/8	7	48	40.5	17	30.3	10
GBESL04	G1/2	8.5	58.5	51	24	68.6	10