

PRODUCTS CATALOG

- G thread fittings
- G thread Silencer
- G thread Speed controller
- Polyurethane re-coil hosepart
- PT thread fittings
- PT thread Silencer
- PT thread Speed controller



AirTAC ● Pneumatic Equipment

G thread fittings

G thread Silencer

G thread Speed controller

Polyurethane re-coil hosepart

PT thread fittings

PT thread Silencer

PT thread Speed controller



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.

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



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



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





Installation and Operation of tube and fitting

1. Installation and removal of tubing:

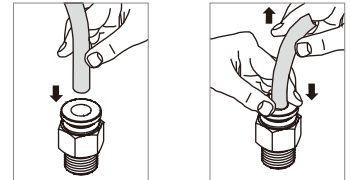
1.1. Installation of tubing

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.

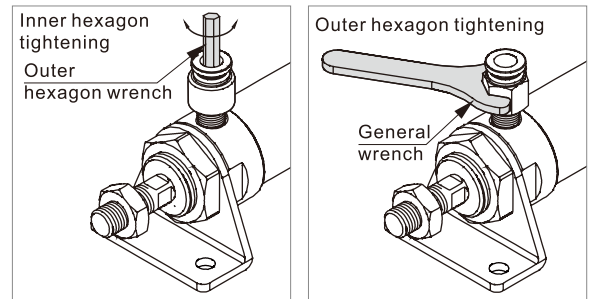


2. Connection thread tightening method

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.

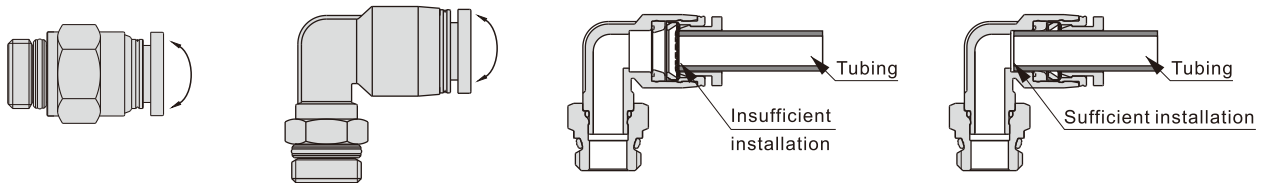
Recommended tightening torque(N.m)						
Thread type	M3	M5	1/8"	1/4"	3/8"	1/2"
Tightening torque	0.3~0.6	1~1.5	5~8	6~9	8~11	12~16



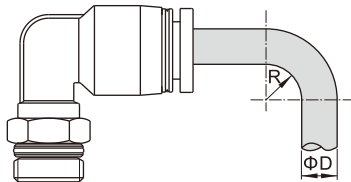
3. Caution

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





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 with drawn 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.



Notes

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.



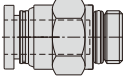
Warning

GPC series

Ordering code

GPC 6 01 □

① ② ③ ④

① Model	② Port size	③ Thread connection	④ Standard color
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, Φ8, Φ10, Φ12
			Standard color Blank: Gray D: Black
			Specification Release button: Gray Release button: Black

Specification

Operating pressure range	0~10kgf/cm ² (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.

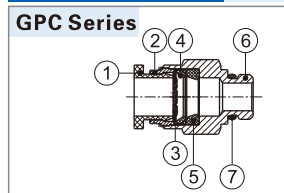
2. Gray and black are optional for the release button.

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



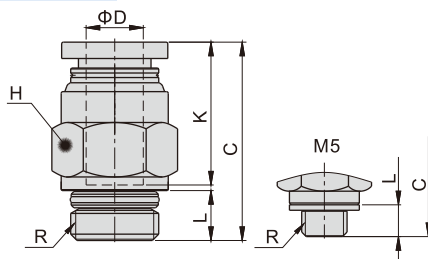
Inner structure

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	6	M5×0.8	3.5	22.5	16.5	12	8.5	10
GPC601		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

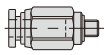
Accessories—One-Touch Fittings

GPC, GPL mini series

Ordering code

GPC 6 01 □ - M

1 2 3 4 5

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

Specification

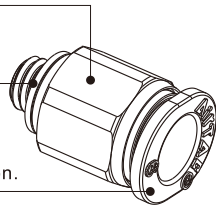
Operating pressure range	0~10kgf/cm ² (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

Table for interface port and tube O.D.

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

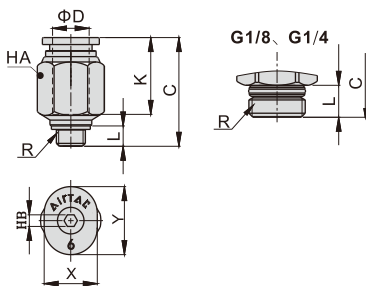
Product feature

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.

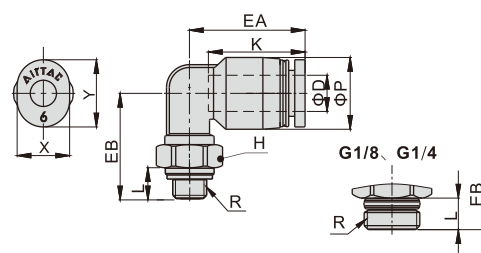


Dimensions

GPC Series



GPL Series



Model\Item	ΦD	R	L	C	K	X	Y	HA	HB	Weight(g)	PCS/bag
GPC3.2M3-M	3.2	M3×0.5	3	16	11.5	6.8	8.7	7	1.5	1.7	10
GPC3.2M5-M		M5×0.8	3.5	16	11.5	6.8	8.7	7	2	2.0	10
GPC4M3-M	4	M3×0.5	3	17.5	12.5	7.8	9.5	8	1.5	2.4	10
GPC4M5-M		M5×0.8	3.5	17	12.5	7.8	9.5	8	2	2.7	10
GPC401-M		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	M3×0.5	7.5	3	12	14.5	14	7	6.8	8.7	2.4	10
GPL3.2M5-M		M5×0.8		3.5	12		14.5	7	6.8	8.7	2.7	10
GPL4M3-M	4	M3×0.5	8.5	3	12.5	15	14	7	7.8	9.5	3.0	10
GPL4M5-M		M5×0.8		3.5	12.5		14.5	7	7.8	9.5	3.3	10
GPL401-M		G1/8		5.5	12.5		14	10	7.8	9.5	6.2	10
GPL402-M		G1/4		6.5	12.5		16.5	14	7.8	9.5	14.1	10
GPL6M5-M	6	M5X0.8	10.5	3.5	13.5	16.0	15.5	7	9.8	11.7	4.0	10
GPL601-M		G1/8		5.5	13.5		14.5	10	9.8	11.7	6.8	10

Accessories—One-Touch Fittings

One-touch fittings—threaded type

Ordering code

Same diameter type fittings

GPL 6 01 □

1 2 3 4

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

Different diameter type fittings

GPKD 6-4 01 □

1 2 3 4 5

①Model	②Port size	③Port size	④Thread connection	⑤Standard color
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	Standard color Specification Blank: Gray Release button: Gray/Body: Gray D: Black Release button: Black/Body: Black

Specification

Operating pressure range	0~10kgf/cm ² (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

GPL Series		
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	Φ12
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	●	●	●	●	●
GPLW	M5	●	●	●	●	●
	G1/8	●	●	●	●	●
	G1/4	●	●	●	●	●
	G3/8	●	●	●	●	●
	G1/2	●	●	●	●	●
GPZB	M5	●	●	●	●	●
	G1/8	●	●	●	●	●
	G1/4	●	●	●	●	●
	G3/8	●	●	●	●	●
	G1/2	●	●	●	●	●

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
GPLF	M5	●	●			
	G1/8	●	●	●	●	
	G1/4	●	●	●	●	●
	G3/8		●	●	●	●
	G1/2			●	●	●
GPCF	M5	●	●			
	G1/8	●	●	●	●	
	G1/4	●	●	●	●	●
	G3/8		●	●	●	●
	G1/2		●	●	●	●
GPMF	M5					
	G1/8	●	●	●	●	
	G1/4	●	●	●	●	●
	G3/8		●	●	●	●
	G1/2			●	●	●

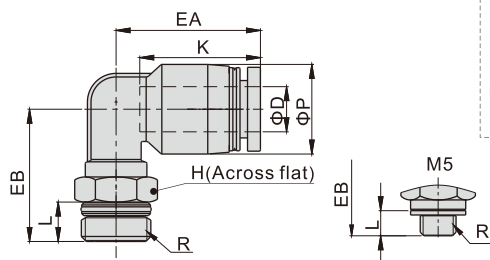
Product series	Thread type	Port size		
		Φ6-Φ4	Φ8-Φ6	Φ10-Φ8
GPKD	G1/8	●		
	G1/4		●	
	G3/8			●

Accessories—One-Touch Fittings

One-touch fittings—threaded type

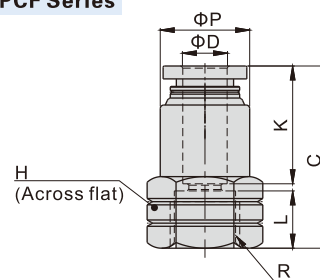
Dimensions

GPL Series



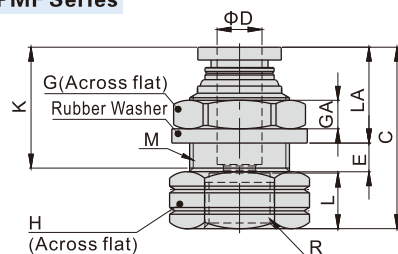
Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
GPL6M5	6	M5×0.8	12.5	3.5	17	20	17.0	8	4.5	10
GPL601		G1/8	12.5	5.5	17	20	18.5	10	5.2	10
GPL602		G1/4	12.5	6.5	17	20	22.0	14	11.9	10
GPL603		G3/8	12.5	7	17	20	23.0	19	20.5	10
GPL604	8	G1/2	12.5	8.5	17	20	26.5	22	32.7	10
GPL801		G1/8	15	5.5	18.5	23	19.0	10	6.9	10
GPL802		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	10	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	12	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		G1/2	21	8.5	23	29.5	30.5	22	33.7	10

GPCF Series



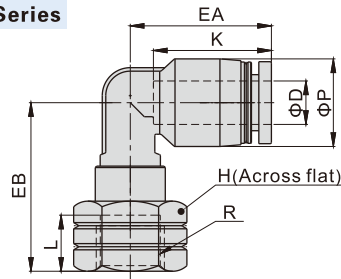
Model\Item	ΦD	R	ΦP	L	C	K	H	Weight(g)	PCS/bag
GPCF4M5	4	M5×0.8	9	5	21	14	10	2.7	10
GPCF401		G1/8	9.5	8	23	14	14	4.5	10
GPCF402		G1/4	9.5	11	26	14	17	6.5	10
GPCF6M5		M5×0.8	12	5	21.5	16.5	12	3.9	10
GPCF601	6	G1/8	12.5	8	25.5	16.5	14	5.6	10
GPCF602		G1/4	12.5	11	28.5	16.5	17	7.5	10
GPCF603		G3/8	13	12	29.5	16.5	21	10.7	10
GPCF604		G1/2	13	13.5	31.0	16.5	25	13.8	10
GPCF801	8	G1/8	14	8	27.5	18.5	14	5.8	10
GPCF802		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	10	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	12	G1/4	21	11	33.5	23	21	17.5	10
GPCF1203		G3/8	21	12	35.5	23	21	16.6	10
GPCF1204		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		G1/4	M14X1	11	30.5	16.5	12.5	5	4	17	17	10.9	10
GPMF603	6	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		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	8	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	10	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		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

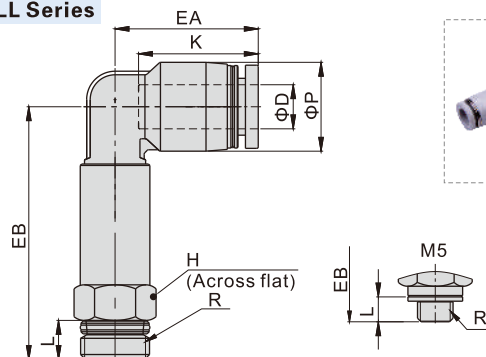


Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
GPLF4M5	4	M5×0.8	9	5	14	17	16	10	2.9	10
GPLF401		G1/8	9	8	14	17	21	14	4.6	10
GPLF402		G1/4	9	11	14	17	24	17	6.8	10
GPLF6M5		M5×0.8	12.5	5	17	20	18.5	10	7	10
GPLF601	6	G1/8	12.5	8	17	20	23	14	5.8	10
GPLF602		G1/4	12.5	11	17	20	26	17	8	10
GPLF603		G3/8	12.5	12	17	20	27	21	10.7	10
GPLF801		G1/8	15	8	18.5	23	20	14	6.6	10
GPLF802	8	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	10	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

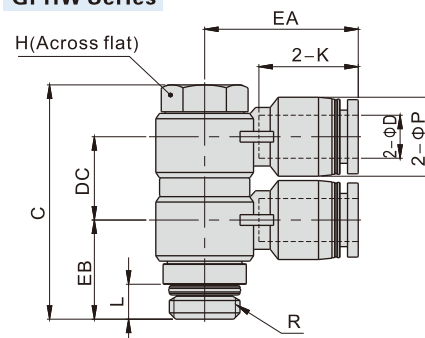
One-touch fittings—threaded type

GPLL Series



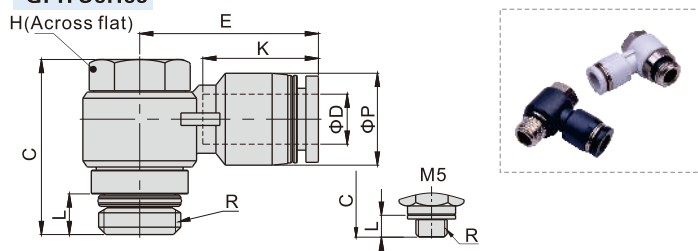
Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
GPLL4M5	4	M5×0.8	9	3.5	14	17	32.5	8	8.9	10
GPLL401		G1/8	9	5.5	14	17	33.5	10	11.4	10
GPLL402		G1/4	9	6.5	14	17	36.5	14	15.3	10
GPLL6M5	6	M5×0.8	12.5	3.5	17	20	34.5	8	9.9	10
GPLL601		G1/8	12.5	5.5	17	20	35.5	10	12.1	10
GPLL602		G1/4	12.5	6.5	17	20	38.5	14	16.4	10
GPLL603	8	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		G1/4	15	6.5	18.5	23	43.5	14	21.1	10
GPLL803	10	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	12	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	12	G3/8	21	7	23	29.5	58	19	56.8	10
GPLL1204		G1/2	21	8.5	23	29.5	59.5	22	53.4	10

GPHW Series



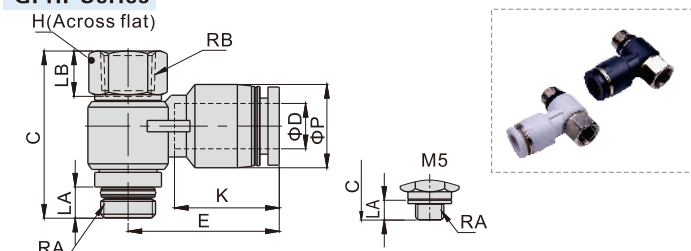
Model\Item	ΦD	R	ΦP	L	C	K	EA	EB	DC	H	Weight(g)	PCS/bag
GPHW401	4	G1/8	9	5.5	38	14	20.5	14.5	13	11	19	10
GPHW601	6	G1/8	12.5	5.5	38	16.5	23.0	15	13	11	21	10
GPHW602		G1/4	12.5	6.5	43.5	16.5	25.0	17.5	15.5	14	40.2	10
GPHW603		G3/8	12.5	7	50	16.5	27.0	20	16.5	19	69.2	5
GPHW801	8	G1/8	15	5.5	40.5	18.5	26.5	16.5	15.5	11	23.6	10
GPHW802		G1/4	15	6.5	43.5	18.5	28.5	18.5	15.5	14	40.8	10
GPHW803		G3/8	15	7	50	18.5	29.5	20	16.5	19	70.4	5
GPHW804	10	G1/2	15	8.5	61	18.5	32	24.5	22	24	134.8	5
GPHW1002		G1/4	18	6.5	46.5	21	31	20	18.5	14	47	10
GPHW1003		G3/8	18	7	55	21	33	21	22	19	87.5	5
GPHW1004	12	G1/2	18	8.5	61	21	35.5	25	22	24	137.7	5
GPHW1203		G3/8	21	7	55	23	36	23	22	19	86.4	5
GPHW1204		G1/2	21	8.5	61	23	38	26.5	22	24	147.5	5

GPH Series



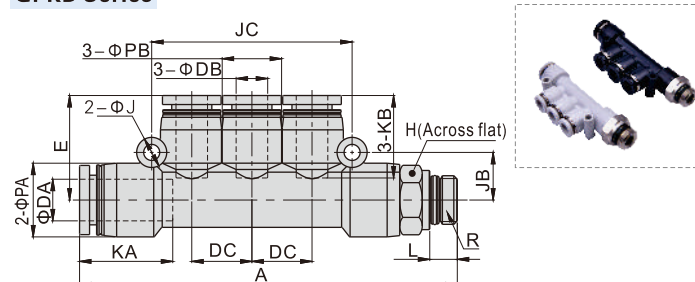
Model\Item	ΦD	R	ΦP	L	C	K	E	H	Weight(g)	PCS/bag
GPH4M5	4	M5×0.8	9	3.5	17	14	19	8	5.8	10
GPH401		G1/8	9	5.5	25	14	20.5	11	12.8	10
GPH6M5	6	M5×0.8	12.5	3.5	17	16.5	23.5	8	6.8	10
GPH601		G1/8	12.5	5.5	25	16.5	23	11	14	10
GPH602		G1/4	12.5	6.5	28	16.5	25	14	25.4	10
GPH603	8	G3/8	12.5	7	33	16.5	27	19	50.2	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	10	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	12	G3/8	18	7	33	21	33	19	51.1	5
GPH1004		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	12	G1/2	21	8.5	39	23	38	24	92.8	5

GPHF Series



Model\Item	ΦD	RA	RB	ΦP	LA	LB	C	K	E	H	Weight(g)	PCS/bag
GPHF4M5	4	M5×0.8	M5×0.8	9	3.5	6	20	14	19	8	6.2	10
GPHF401		G1/8	G1/8	9	5.5	8	29.5	14	20.5	12	12.9	10
GPHF6M5	6	M5×0.8	M5×0.8	12.5	3.5	6	20	16.5	23.5	8	7.1	10
GPHF601		G1/8	G1/8	12.5	5.5	8	29.5	16.5	23	12	13.9	10
GPHF602		G1/4	G1/4	12.5	6.5	11	35	16.5	25	17	30.3	10
GPHF603	8	G3/8	G3/8	12.5	7	12	40	16.5	27	19	44.2	5
GPHF801		G1/8	G1/8	15	5.5	8	29.5	18.5	26.5	12	15	10
GPHF802		G1/4	G1/4	15	6.5	11	35	18.5	28.5	17	30.7	10
GPHF803	10	G3/8	G3/8	15	7	12	40	18.5	29.5	19	44.8	5
GPHF804		G1/2	G1/2	15	8.5	13.5	47.5	18.5	32	24	84.7	5
GPHF1002		G1/4	G1/4	18	6.5	11	35	21	31	17	32	10
GPHF1003	12	G3/8	G3/8	18	7	12	40	21	33	19	46.2	5
GPHF1004		G1/2	G1/2	18	8.5	13.5	47.5	21	35.5	24	86.1	5
GPHF1203		G3/8	G3/8	21	7	12	40	23	36	19	48.4	5
GPHF1204	12	G1/2	G1/2	21	8.5	13.5	47.5	23	38	24	89.7	5

GPKD Series



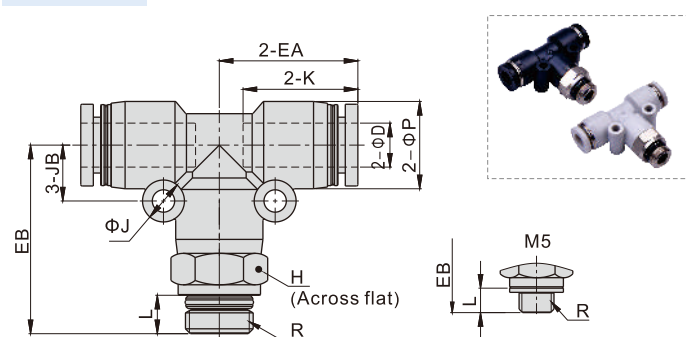
Model\Item	ΦDA	ΦDB	R	L	A	ΦPA	ΦPB	KA	KB
GPKD6-401	6	4	G1/8	5.5	66	12.5	9	16.5	14
GPKD8-602	8	6	G1/4	6.5	77	15	12.5	18.5	16.5
GPKD10-803	10	8	G3/8	7	89.5	18	15	21	18.5

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

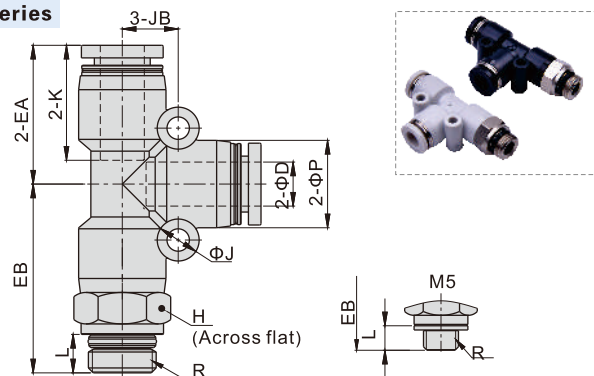
One-touch fittings—threaded type

GPEB Series



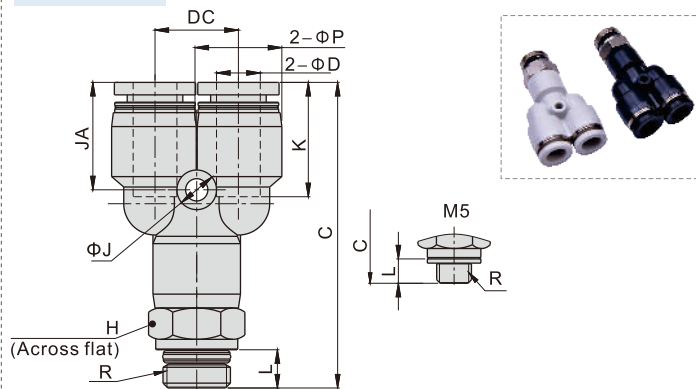
Model\Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H	Weight(g)	PCS/bag
GPEB4M5	M5×0.8	9	3.5	14	17	21	3.2	6.5	9	6.8	10	
GPEB401	4	G1/8	9	5.5	14	17	23	3.2	6.5	10	7.9	10
GPEB402		G1/4	9	6.5	14	17	26	3.2	6.5	14	13.9	10
GPEB6M5	M5×0.8	12.5	3.5	16.5	20	23.5	3.2	8	12	11.2	10	
GPEB601	6	G1/8	12.5	5.5	16.5	20	27	3.2	8	12	13.3	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		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		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		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

GPED Series



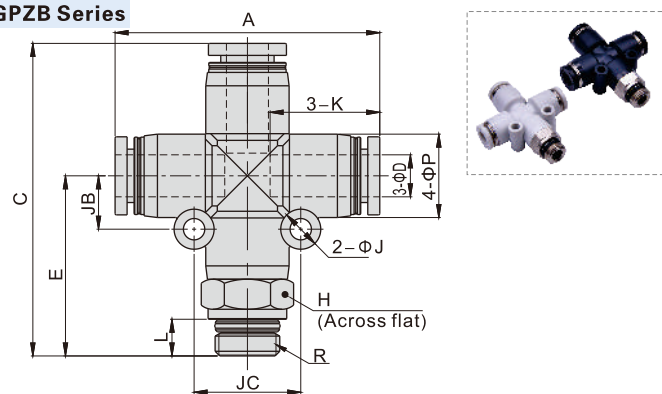
Model\Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H	Weight(g)	PCS/bag
GPED4M5	M5×0.8	9	3.5	14	17	21	3.2	6.5	9	6.8	10	
GPED401	4	G1/8	9	5.5	14	17	23	3.2	6.5	10	7.9	10
GPED402		G1/4	9	6.5	14	17	26	3.2	6.5	14	13.9	10
GPED6M5	M5×0.8	12.5	3.5	16.5	20	23.5	3.2	8	12	11.2	10	
GPED601	6	G1/8	12.5	5.5	16.5	20	27	3.2	8	12	13.3	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		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		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	39	4.3	13	21	48	10
GPED1203		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

GPYB Series



Model\Item	ΦD	R	ΦP	L	C	K	ΦJ	JA	DC	H	Weight(g)	PCS/bag
GPYB4M5	M5×0.8	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	8.1	10	
GPYB402		G1/4	9	6.5	40.5	14	3.2	13	10	9.2	10	
GPYB6M5	M5×0.8	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		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		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		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

GPZB Series



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	16.5	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		31	54						14	22.2	10
GPZB803		G3/8	7		32.5	55.5	15	18.5	4.3	39.5	19	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		G3/8	7		40	70						21	54.4	10
GPZB1204		G1/2	8.5		41.5	71.5	21	23	4.3	13	26	22	62.1	10

Metal one-touch fittings

Ordering code

GBPC 6 01

① ② ③

① Model	② Port size	③ Thread connection
GBPC: Metal male connector (G thread) 	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	M5: M5X0.8 01: G1/8 02: G1/4 03: G3/8 04: G1/2
GBPMF: Metal bulkhead female connector (G thread) 		

GBPM 6

① ②

① Model	② Port size
GBPM: Metal bulkhead connector (G thread) 	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm

Specification

Operating pressure range	0~9kgf/cm ² (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.

Product feature

1. High flow capacity; The flow rate of these fittings is equivalent to that of the adaptable tubes.
2. Inserting or removal tubing is simple and convenient, and the connecting portion is reliable and durable.
3. Thread is attached with a sealing gasket, to ensure no leakage of the threaded connection part.
4. The fitting metal body adopts a special nickel-plating process, which has good corrosion resistance.
5. Metal fittings can be used in high temperature environment.

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

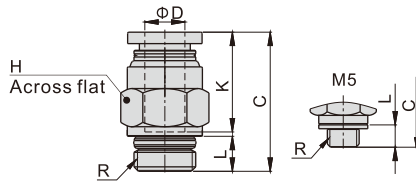
GBPC Series

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

Metal one-touch fittings

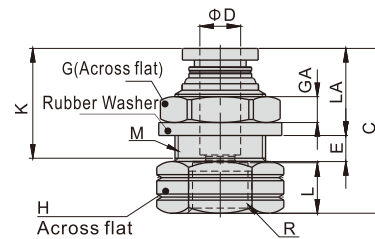
Dimensions

GBPC Series



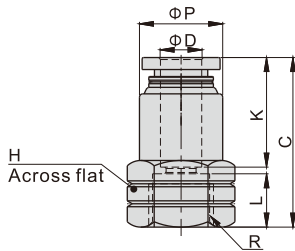
Model\Item	ΦD	R	L	C	K	H	Weight(g)	PCS/bag
GBPC4M5	4	M5X0.8	3.5	19.5	14	9	5.5	10
GBPC401		G1/8	5.5	16.5	13	10	7.9	10
GBPC402		G1/4	6.5	17	13	14	8.7	10
GBPC6M5	6	M5X0.8	3.5	22	16	12	10.1	10
GBPC601		G1/8	5.5	21.5	16	12	13.8	10
GBPC602		G1/4	6.5	20.5	16	14	15.1	10
GBPC603	8	G3/8	7	20	16	19	26	10
GBPC801		G1/8	5.5	25.5	18	14	13.3	10
GBPC802		G1/4	6.5	24.5	18	14	13.5	10
GBPC803	10	G3/8	7	21.5	18	19	25.9	10
GBPC1001		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	12	G3/8	7	24	20.5	19	32.3	10
GBPC1004		G1/2	8.5	22.5	19.5	22	31.9	10
GBPC1202		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

GBPMF Series



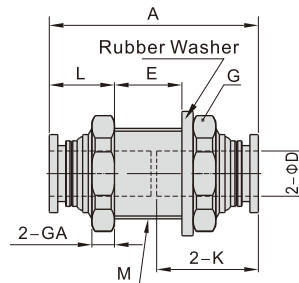
Model\Item	ΦD	R	M	L	C	K	LA	E	GA	G	H	Weight(g)	PCS/bag
GBPMF401	4	G1/8	M12X1	8	25	14	12	4	4	14	14	7.6	10
GBPMF601	6	G1/8	M14X1	8	25	16	12	5	4	17	17	10.4	10
GBPMF602		G1/4	M14X1	11	30	16	12	5	4	17	17	12.2	10
GBPMF801	8	G1/8	M16X1	8	27	18	13	5.5	4	19	19	13.9	10
GBPMF802		G1/4	M16X1	11	31.5	18	13	5.5	4	19	19	15.3	10
GBPMF1002	10	G1/4	M20X1	11	34.5	20.5	14	7.5	5	24	22	26.2	10
GBPMF1003		G3/8	M20X1	12	35.5	20.5	14	7.5	5	24	22	24.4	10
GBPMF1203	12	G3/8	M22X1	12	37	22	15	8	5	27	24	32.6	10
GBPMF1204		G1/2	M22X1	13.5	38.5	22	15	8	5	27	25	31.8	10

GBPCF Series



Model\Item	ΦD	R	ΦP	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	6	M5X0.8	12	5	21	16	12	5.6	10
GBPCF601		G1/8	12.5	8	25	16	14	7.2	10
GBPCF602	8	G1/4	12.5	11	28	16	17	9.2	10
GBPCF801		G1/8	14	8	27	18	14	7.1	10
GBPCF802	10	G1/4	14.5	11	30	18	17	10.6	10
GBPCF1002		G1/4	17	11	32.5	20.5	17	13.5	10
GBPCF1003	12	G3/8	18	12	33.5	20.5	21	17.5	10
GBPCF1203		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	ΦD	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

One-touch fittings—threaded type

Ordering code

GBB 01 01

① ② ③

① Model

GBB: Male connector
(G thread)



GBD: Male & female
connector(G thread)[Note1]



GBU: Double female
connector(G thread)



GBZ: Hexagon head cap
plug(G thread)[Note2]



② Thread connection I

01: G1/8
02: G1/4
03: G3/8
04: G1/2

③ Thread connection II

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 ² (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	3.0MPa
Ambient and fluid temperature (°C)	0~150

Product feature

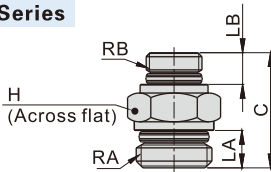
1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance bear the same flow with the volume of the tube innerdiameter.
3. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.
4. Metal fittings can be used in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

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	●	●	●	●	

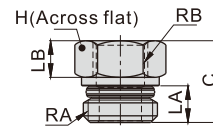
Dimensions

GBB Series



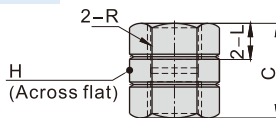
Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
GBB0101	G1/8	G1/8	5.5	5.5	15.5	10	3.2	10
GBB0102	G1/4	G1/8	6.5	5.5	20	14	7.3	10
GBB0103	G3/8	G1/8	7	5.5	21.5	19	15.3	10
GBB0202	G1/4	G1/4	6.5	6.5	21	14	8.4	10
GBB0203	G3/8	G1/4	7	6.5	22.5	19	15.9	10
GBB0204	G1/2	G1/4	8.5	6.5	24.5	22	22.4	10
GBB0303	G3/8	G3/8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

GBD Series



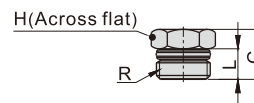
Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
GBD0102	G1/4	G1/8	6.5	8	14.5	14	8.8	10
GBD0103	G3/8	G1/8	7	8	14	19	17.7	10
GBD0104	G1/2	G1/8	8.5	8	16	22	29.5	10
GBD0203	G3/8	G1/4	7	8.5	16	19	16.4	10
GBD0204	G1/2	G1/4	8.5	8.5	16	22	26.3	10
GBD0304	G1/2	G3/8	8.5	9.5	19	22	24.5	10

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

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

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: Φ4mm 06: Φ6mm 08: Φ8mm 10: Φ10mm 12: Φ12mm	25: Φ2.5mm 04: Φ4mm 05: Φ5mm 06: Φ6mm 65: Φ6.5mm 75: Φ7.5mm 08: Φ8mm 09: Φ9mm	M3: M3X0.5 M5: M5X0.8 01: G1/8 02: G1/4 03: G3/8 04: G1/2

Note: When using the tubing Φ8×Φ5.5, the straight lock nut connector of GBKC0806 can be used.

Specification

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

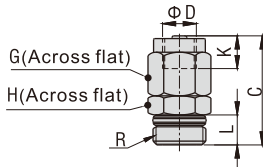
Note: The temperature resistance level of the tubing should be confirmed first when used in high temperature environments.

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
GBKC0425-M3	4 2.5	M3×0.5	3	17	5	8	8	4.4	10
GBKC0425-M5		M5×0.8	3.5	17.5			8	4.8	10
GBKC0425-01		G1/8	5.5	18.5			10	6.2	10
GBKC0604-01		G1/8	5.5	20			10	9	10
GBKC0604-02	6 4	G1/4	6.5	23.5	5.5	10	14	14.2	10
GBKC0604-03		G3/8	7	25			19	23.1	10
GBKC0805-01	8 5.5 or 6	G1/8	5.5	23.5	6.5	12	12	12.6	10
GBKC0805-02		G1/4	6.5	25.5			14	15.6	10
GBKC0805-03		G3/8	7	27			19	24.3	10
GBKC0806-01		G1/8	5.5	23.5			12	12.9	10
GBKC0806-02		G1/4	6.5	25.5			14	15.6	10
GBKC0806-03		G3/8	7	27			19	24.2	10

Model\Item	ΦD O.D I.D	R	L	C	K	G	H	Weight (g)	PCS/bag
GBKC1065-02	10 6.5 or 7.5 or 8	G1/4	6.5	28	7.5	15	15	23.7	10
GBKC1065-03		G3/8	7	29.5			19	29.7	10
GBKC1065-04		G1/2	8.5	32			22	40.5	10
GBKC1075-02		G1/4	6.5	28			15	22.5	10
GBKC1075-03		G3/8	7	29.5			19	29.5	10
GBKC1075-04		G1/2	8.5	32			22	40.1	10
GBKC1208-02	12 8 or 9 or 10	G1/4	6.5	28	7.5	17	17	28.9	10
GBKC1208-03		G3/8	7	29.5			19	32.7	10
GBKC1208-04		G1/2	8.5	32			22	43.2	10
GBKC1209-02		G1/4	6.5	28			17	29	10
GBKC1209-03		G3/8	7	29.5			19	32.5	10
GBKC1209-04		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.

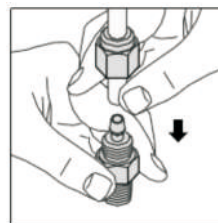


Figure 1

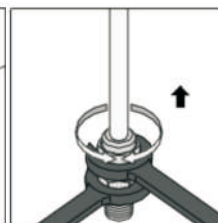


Figure 2

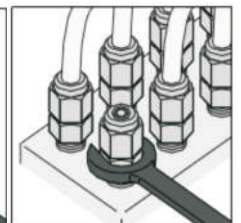


Figure 3

Accessories—One-Touch Fittings

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	GPE: Union tee	GPP: Plug	GPV: Union elbow	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Standard color	Specification	Adaptable model
					Blank: Gray	Release button: Gray	GPM
GPLY: Bulkhead male elbow	GPY: Union "Y"	GPZ: Cross	GPU: Straight union	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	D: Black	Release button: Gray Body: Gray	Others
						Release button: Black Body: Black	GPM
							Others

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	GPZG: Different diameter cross	GPEW: Different diameter tee	GPYW: Different diameter union "Y"	GPGJ: Plug-in reducer	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm	Standard color	Specification
							Blank: Gray	Release button: Gray Body: Gray
GPEG: Different diameter tee	GPKG: Reducer triple branch union	GPHK: Universal reducer triple branch union	GPHD: Universal reducer four branch union		4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm	D: Black	Release button: Black Body: Black

Specification

Operating pressure range	0~10kgf/cm ² (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

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 tubing inside diameter.
3. Connect tubing easily and conveniently. The tubing connection portion is safe and durable.
4. 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

GPM Series		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.

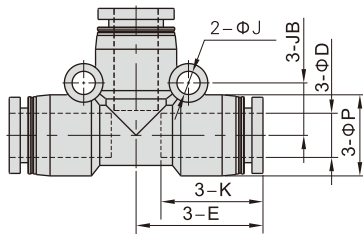
Product series	Port size I	Port size II				
		Φ4	Φ6	Φ8	Φ10	
GPG GPGJ	Φ4					
	Φ6	●				
	Φ8	●	●			
	Φ10		●	●		
	Φ12			●	●	
GPEG GPEW GPYW	Φ4					
	Φ6	●				
	Φ8		●			
	Φ10			●		
	Φ12			●	●	
GPZG	Φ4					
	Φ6	●				
	Φ8		●			
	Φ10			●		
	Φ12				●	
GPKG	Φ4					
	Φ6	●				
	Φ8		●			
	Φ10			●		
	Φ12					
GPHK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

One-touch fittings—tube-tube type

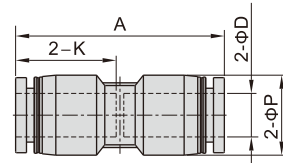
Dimensions

GPE Series



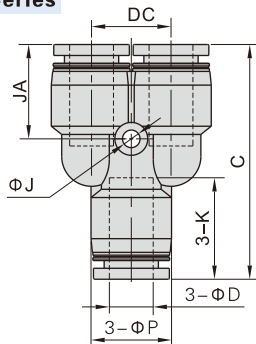
Model\Item	ΦD	ΦP	K	E	ΦJ	JB	Weight(g)	PCS/bag
GPE4	4	9	14	17	3.2	6.5	3.1	10
GPE6	6	12.5	16.5	20	3.2	8	6.1	10
GPE8	8	15	18.5	23	4.3	9.5	8.8	10
GPE10	10	18	21	26.5	4.3	11	13.8	10
GPE12	12	21	23	30	4.3	13	21	10

GPU Series



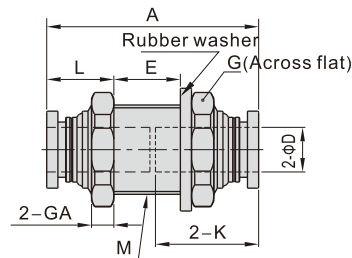
Model\Item	ΦD	ΦP	K	A	Weight(g)	PCS/bag
GPU4	4	9	14	29.5	1.7	10
GPU6	6	12.5	16.5	34	3.6	10
GPU8	8	15	18.5	38.5	5	10
GPU10	10	18	21	43	8.1	10
GPU12	12	21	23	47	12	10

GPY Series



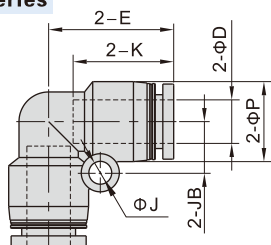
Model\Item	ΦD	ΦP	C	K	ΦJ	JA	DC	Weight(g)	PCS/bag
GPY4	4	9	31.5	14	3.2	13	10	3	10
GPY6	6	12.5	37	16.5	3.2	15.5	12	6	10
GPY8	8	15	42.5	18.5	3.2	17	14.5	8.6	10
GPY10	10	18	48.5	21	4.3	19.5	18	14	10
GPY12	12	21	54.5	23	4.3	21	20.5	21.2	10

GPM Series



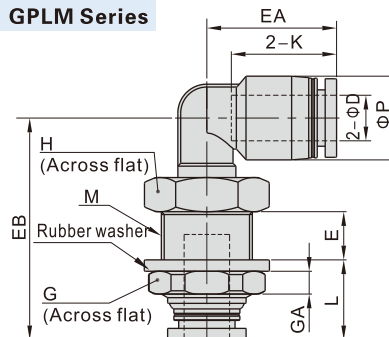
Model\Item	ΦD	M	A	K	L	E	GA	G	Weight(g)	PCS/bag
GPM4	4	M12X1	29	14	10	7	4	14	6.2	10
GPM6	6	M14X1	34	16.5	10.5	11	4	17	9.5	10
GPM8	8	M16X1	38	18.5	11.5	13	4	19	15.7	10
GPM10	10	M20X1	43	21	12.5	16	5	24	22.5	10
GPM12	12	M22X1	46.5	23	13.5	17.5	6	27	29.5	10

GPV Series



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

GPLM Series

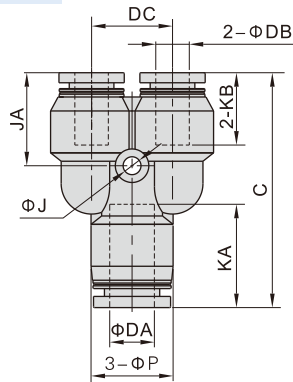


Model\Item	ΦD	ΦP	M	L	E	K	EA	EB	GA	G	H	Weight(g)	PCS/bag
GPLM4	4	9	M12X1	12	7.5	14	17	31	4	14	14	7.5	10
GPLM6	6	12.5	M14X1	12.5	8.5	17	20	35.5	4	17	17	12.1	10
GPLM8	8	15	M16X1	13.5	9	18.5	23	39	4	19	19	16.6	10
GPLM10	10	18	M20X1	14.5	11	21	25.5	44.5	5	24	22	26.2	10
GPLM12	12	21	M22X1	15.5	11	23	29.5	48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

Accessories—One-Touch Fittings

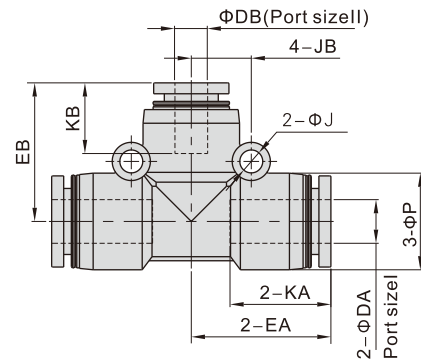
One-touch fittings—tube-tube type

GPYW Series



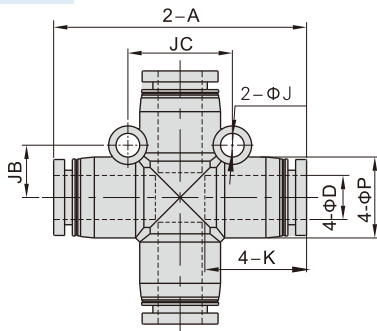
Model\Item	ΦDA	ΦDB	C	ΦP	KA	KB	ΦJ	JA	DC	Weight(g)	PCS/bag
GPYW6-4	6	4	36.5	12.5	16.5	14	3.2	15	12	5.8	10
GPYW8-6	8	6	42	15	18.5	16.5	3.2	16.5	14.5	9.1	10
GPYW10-8	10	8	48.5	18	21	18.5	4.3	19	18	14.1	10
GPYW12-8	12	8	54	21	23	18.5	4.3	20.5	20.5	22.3	10
GPYW12-10	12	10	54.5	21	23	21	4.3	21	20.5	21.7	10

GPEG Series



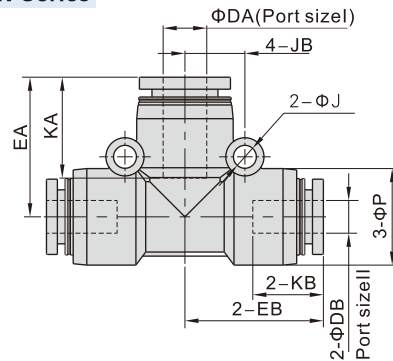
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB	Weight(g)	PCS/bag
GPEG6-4	6	4	12.5	16.5	14	20.0	19.5	3.2	8	7	10
GPEG8-6	8	6	15	18.5	16.5	22.5	22	4.3	9.5	22.8	10
GPEG10-8	10	8	18	21	18.5	25.5	25.5	4.3	11	15.1	10
GPEG12-8	12	8	21	23	18.5	29	28.5	4.3	13	2.2	10
GPEG12-10	12	10	21	23	21	29	29	4.3	13	21.5	10

GPZ Series



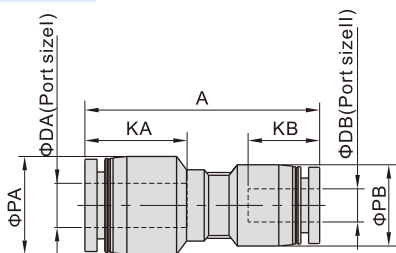
Model\Item	ΦD	A	ΦP	K	ΦJ	JB	JC	Weight(g)	PCS/bag
GPZ4	4	34	9	14	3.2	6.5	13	3.9	10
GPZ6	6	39.5	12.5	16.5	3.2	8	16	7.9	10
GPZ8	8	46	15	18.5	4.3	9.5	19	11.1	10
GPZ10	10	52.5	18	21	4.3	11	22	17.5	10
GPZ12	12	59.5	21	23	4.3	13	26	26.6	10

GPEW Series



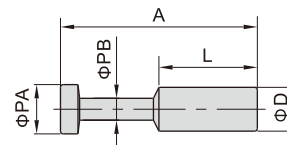
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB	Weight(g)	PCS/bag
GPEW6-4	6	4	12.5	16.5	14	20	19.5	3.2	8	7	10
GPEW8-6	8	6	15	18.5	16.5	22.5	22	4.3	9.5	22.8	10
GPEW10-8	10	8	18	21	18.5	25.5	25.5	4.3	11	15.1	10
GPEW12-8	12	8	21	23	18.5	29	28.5	4.3	13	2.2	10
GPEW12-10	12	10	21	23	21	29	29	4.3	13	21.5	10

GPG Series



Model\Item	ΦDA	ΦDB	ΦPA	ΦPB	KA	KB	A	Weight(g)	PCS/bag
GPG6-4	6	4	12.5	9	16.5	14	33.5	2.7	10
GPG8-4	8	4	15	12.5	18.5	14	37.5	4.5	10
GPG8-6	8	6	15	12.5	18.5	16.5	38	4.5	10
GPG10-6	10	6	18	15	21	16.5	42	6.9	10
GPG10-8	10	8	18	15	21	18.5	42.5	6.7	10
GPG12-8	12	8	21	18	23	18.5	46.5	10.3	10
GPG12-10	12	10	21	18	23	21	47	10.2	10

GPP Series

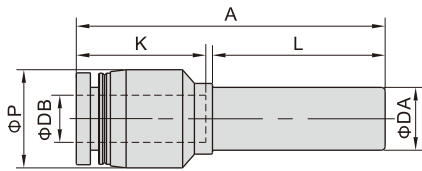


Model\Item	ΦD	ΦPA	ΦPB	L	A	Weight(g)	PCS/bag
GPP4	4	5	3	15	27.5	0.7	10
GPP6	6	7	3	17	32	0.9	10
GPP8	8	9	4	18	36	1.6	10
GPP10	10	11	5	20	42	2.5	10
GPP12	12	13	6	23	44	4.3	10

Accessories—One-Touch Fittings

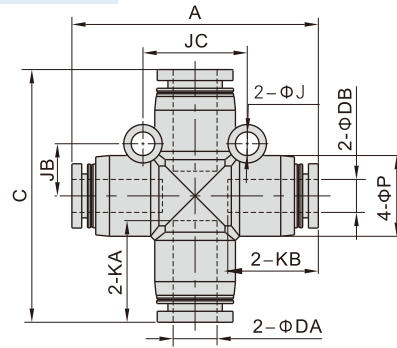
One-touch fittings—tube-tube type

GPGJ Series



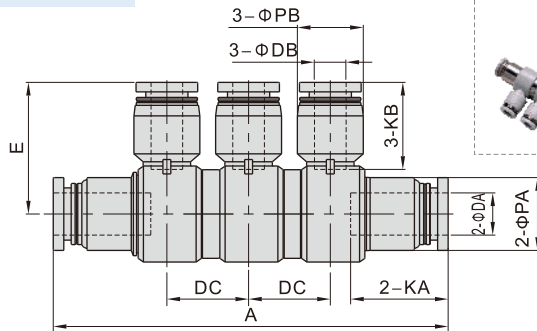
Model\Item	ΦDA	ΦDB	ΦP	K	L	A	Weight(g)	PCS/bag
GPGJ6-4	6	4	9	14	21	35	1.5	10
GPGJ8-4	8	4	12.5	14	22	39	2.6	10
GPGJ8-6	8	6	12.5	16.5	22	39.5	3.2	10
GPGJ10-6	10	6	15	16.5	25	44	4.1	10
GPGJ10-8	10	8	15	18.5	25	44.5	3.9	10
GPGJ12-8	12	8	18	18.5	26	48.5	6.2	10
GPGJ12-10	12	10	18	21	26	49	6	10

GPZG Series



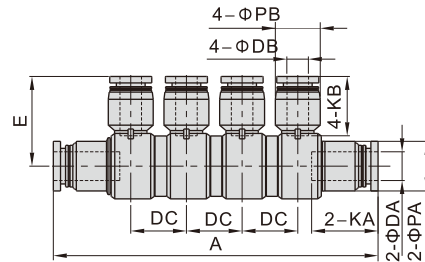
Model\Item	ΦDA	ΦDB	A	C	ΦP	KA	KB	ΦJ	JB	JC	Weight(g)	PCS/bag
GPZG6-4	6	4	39	39.5	12.5	16.5	14	3.2	8	16	8.2	10
GPZG8-6	8	6	45	46	15	18.5	16.5	4.3	9.5	19	12	10
GPZG10-8	10	8	52	52.5	18	21	18.5	4.3	11	22	18.1	10
GPZG12-10	12	10	59	59.5	21	23	21	4.3	13	26	29	10

GPHK Series



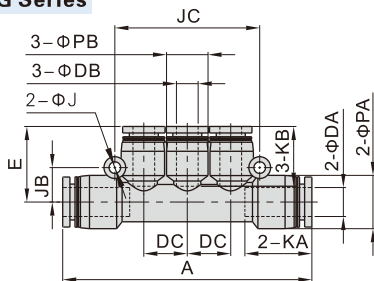
Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	DC	E	Weight(g)	PCS/bag
GPHK8-6	8	6	75	14	12.5	18.5	16.5	15.5	25	28.4	2
GPHK10-8	10	8	85.5	17	15	21	18.5	16.5	29.5	45	2

GPHD Series



Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	DC	E	Weight(g)	PCS/bag
GPHD8-6	8	6	90.5	14	12.5	18.5	16.5	15.5	25	18.7	2
GPHD10-8	10	8	102.5	17	15	21	18.5	16.5	29.5	52.7	2

GPKG Series

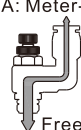


Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	ΦJ	JB	JC	DC	E	Weight(g)	PCS/bag
GPKG6-4	6	4	58.5	12.5	9	16.5	14	3.2	8	34	10	17.5	8.6	5
GPKG8-6	8	6	69	15	12.5	18.5	16.5	3.2	9.5	40	12	21	13.5	5
GPKG10-8	10	8	80	18	15	21	18.5	4.3	11	48	14.5	24	20.7	5

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
GPSS: 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 Controlled flow Free flow B: Meter-in Free flow Controlled flow
			 	Standard color Blank: Gray D: Black Specification Release button: Gray Body: Gray Release button: Black Body: Black

GPSSA 6 □

1 2 3

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

Product feature

1. The silencer is small size, and light weight with small installation space.
2. Excellent flow characteristics, high sensitivity and easy to adjust.
3. The silencer brass body adopts a special nickel-plating process, which has good corrosion resistance and anti-pollution property.
4. Anti-drop structure is designed on the regulating rod.
5. The sealant being coated on threaded portion can ensure no leakage of the threaded connection part.
6. The inserting direction of universal speed controller can be adjusted in 360°.

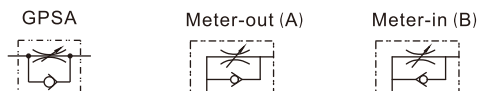
Specification

Operating pressure range	0~10kgf/cm ² (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.

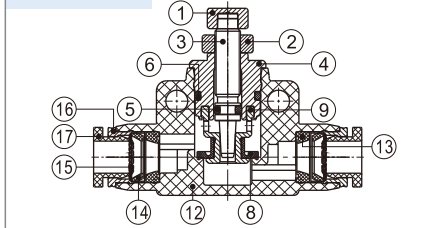
Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
GPSSA	—	●	●	●	●	●
	M5	●				
GPSS	G1/8		●	●		
	G1/4		●	●	●	
	G3/8				●	●
	G1/2					●

Symbol

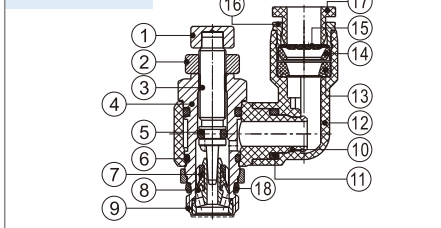


Inner structure

GPSSA Series



GPSS Series

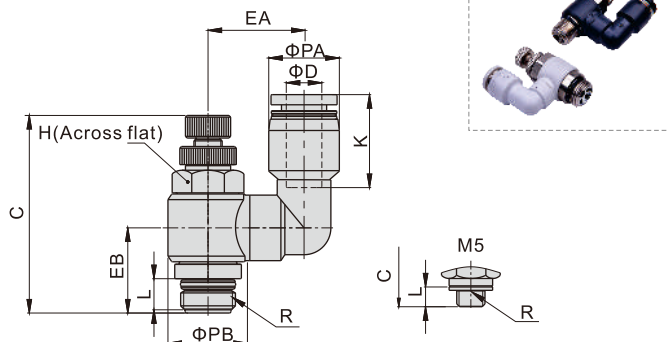


NO.	Name	Material	NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	Aluminum alloy	7	Holder	PBT	13	O-ring	NBR
2	Locking cap	Aluminum alloy	8	O-ring	NBR	14	Locating seat	POM
3	Throttling column	Brass	9	Throttling sleeve	Aluminum alloy/Brass	15	Spring gasket	Stainless steel
4	Throttling body	Brass	10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

GPSSA, GPSS series

Dimensions

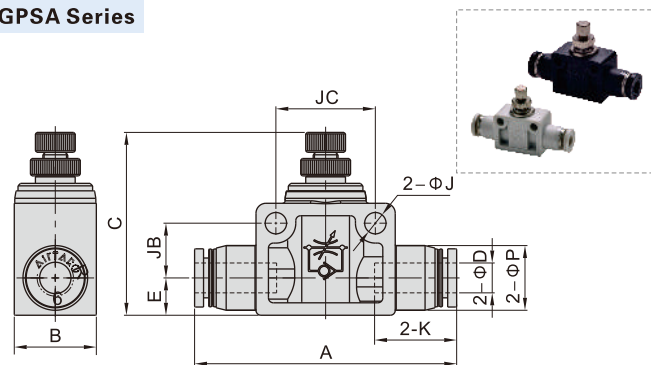
GPSS Series



Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	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□		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□		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□		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□		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.

GPSSA Series

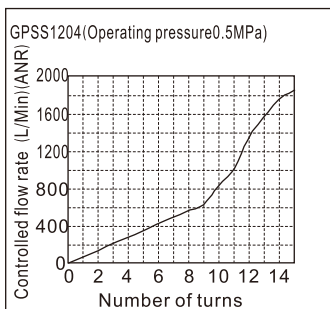
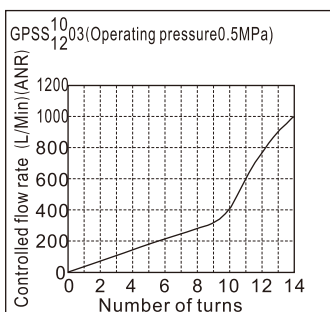
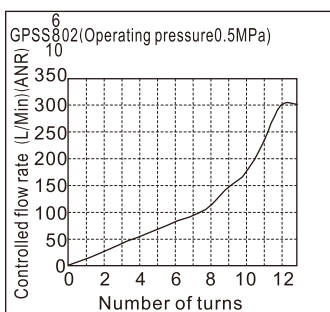
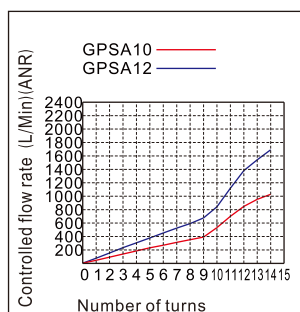
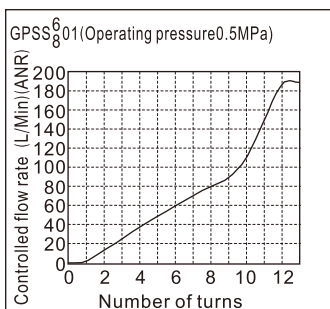
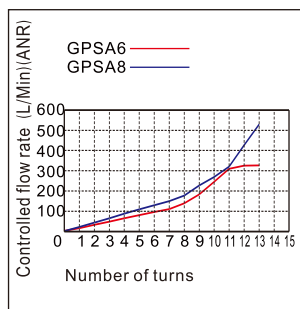
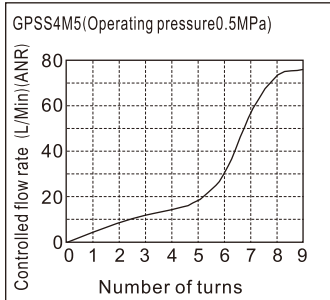
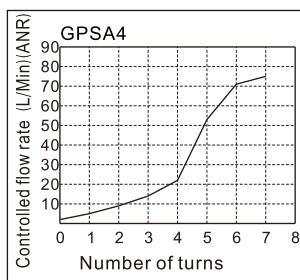


Model\Item	ΦD	A	B	C		ΦP	E	K	ΦJ	JB	JC	Weight (g)	PCS/bag
				max	min								
GPSSA4	4	41	11	29	26.5	9.5	7	14	3.2	6	14	7.85	2
GPSSA6	6	52.5	16.5	43.5	36.5	13	7.5	16.5	4.3	11	20	18.3	2
GPSSA8	8	59.5	16.5	47	40	15	8.5	18.5	4.3	11	22	23.5	2
GPSSA10	10	69	21	53.5	46.5	18	10.5	21	4.3	14.5	26	42.4	2
GPSSA12	12	78.5	26	58.5	51	21.5	12	23	4.3	17.5	32	67.5	2

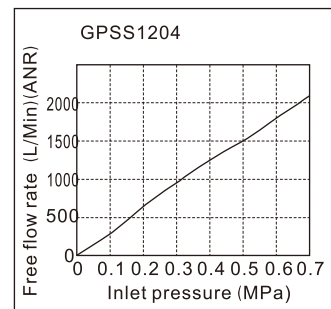
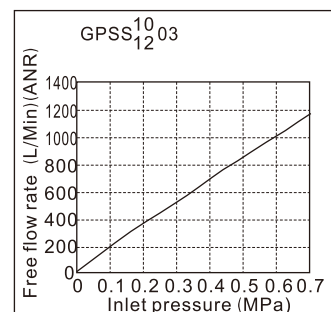
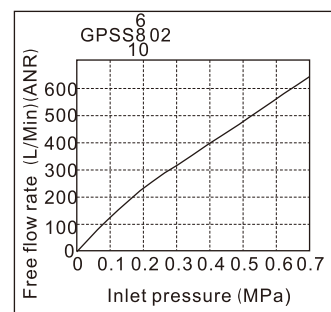
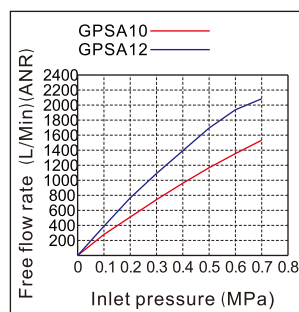
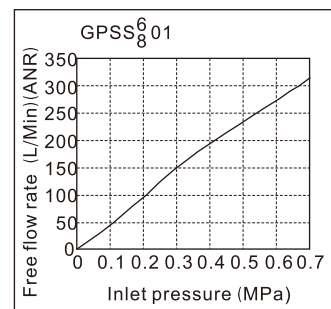
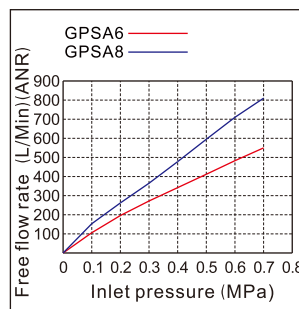
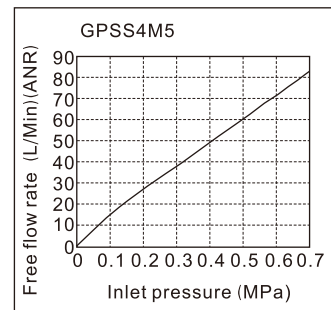
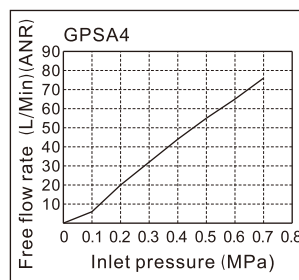
GPSSA, GPSS series

Flowrate characteristic

Controlled flow rate



Free flow rate



Selection, Installation and Operation

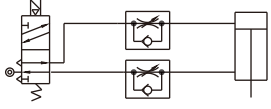
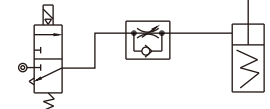
Selection

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

	Working principle	Product identification
 Controlled flow Free flow	A: Meter-out 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.	Handle marking "A" 
 Free flow Controlled flow	B: Meter-in 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.	Handle marking "B" 

- 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

Solenoid valve	Double acting cylinder	Solenoid valve	Single acting cylinder
 Meter-out speed controller		 Meter-in speed controller	

Installation

- Installation and removal of tubing:

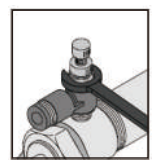
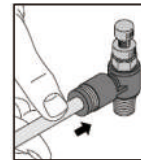
1.1. Installation of tubing

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.



- Mounting of the speed controller

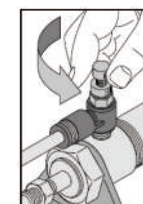
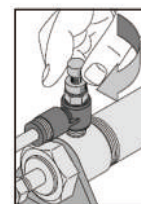
Mount the speed controller into the inlet and outlet port of the cylinder with a wrench.

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

Operation

- 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.



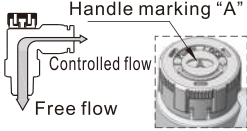
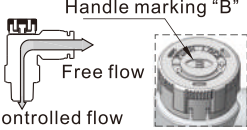
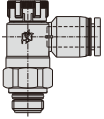
- Operation of the speed controller

- 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.

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	A: Meter-out  B: Meter-in 	Standard color	Specification	M: Mini type
				Blank: Gray	Release button: Gray Body: Gray	
				D: Black	Release button: Black Body: Black	

Specification

Operating pressure range	0~10kgf/cm ² (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

Meter-out (A)



Meter-in (B)



Selection, Installation and Operation

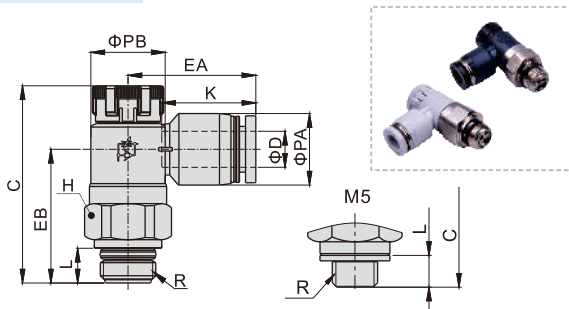
- The rotation torque of the push-lock speed controller cap should not be too large to avoid damage.
It is recommended to use the torque below.

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

- 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		K	EA	EB	H	Weight (g)	PCS/bag
						Pull	Push						
GPTL4M5□-M	4	M5×0.8	8.5	9	3.5	29.5	28	12.5	16.5	19	9	5	2
GPTL401□-M		G1/8	8.5	9	5.5	29.5	28	12.5	16.5	19.5	10	5.7	2
GPTL6M5□-M	6	M5×0.8	10.5	9	3.5	29.5	28	13.5	19.5	19	9	6.2	2
GPTL601□-M		G1/8	10.5	9	5.5	29.5	28	13.5	19.5	19.5	10	6.9	2

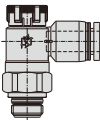
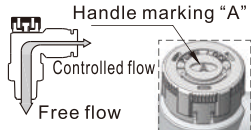
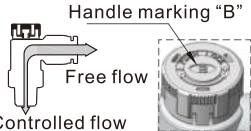
[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

GPTL series

Ordering code

GPTL 6 01 A □

① ② ③ ④ ⑤

① Model	② Port size	③ Thread connection	④ Control method	⑤ Standard color
GPTL: Speed controller (Push lock) (G Thread) 	6: Φ6mm	01: G1/8 02: G1/4 03: G3/8	A: Meter-out 	Standard color
	8: Φ8mm	01: G1/8 03: G3/8 02: G1/4 04: G1/2		Blank: Gray
	10: Φ10mm	02: G1/4 03: G3/8 04: G1/2	B: Meter-in 	D: Black
	12: Φ12mm	03: G3/8 04: G1/2		
				Specification
				Release button: Gray Body: Gray
				Release button: Black Body: Black

Specification

Operating pressure range	0~10kgf/cm ² (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

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

Symbol

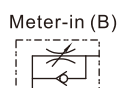
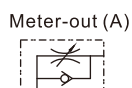


Table for interface port and tube O.D.

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

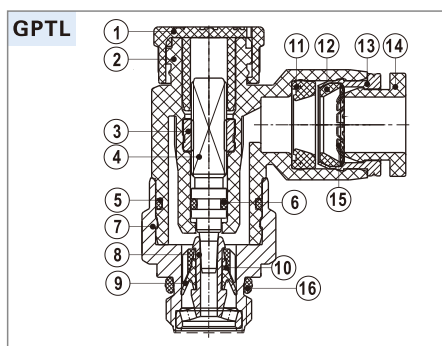
Selection, Installation and Operation

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.

Inner structure

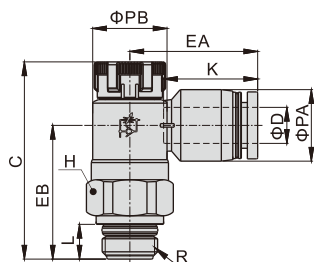


NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	POM	9	Holder	PBT
2	Plastic body	PBT	10	O-ring	NBR
3	Locating ring	Aluminum alloy	11	O-ring	NBR
4	Throttling column	Aluminum alloy	12	Locating seat	POM
5	O-ring	NBR	13	Locating ring	Aluminum alloy
6	O-ring	NBR	14	Plastic interface	POM
7	Throttling body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

GPTL series

Dimensions

GPTL Series

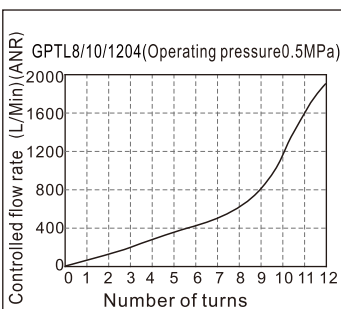
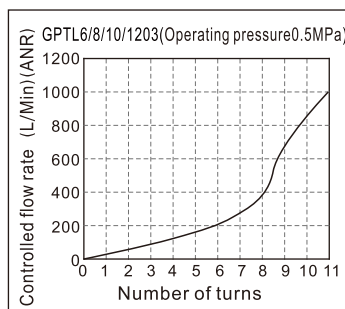
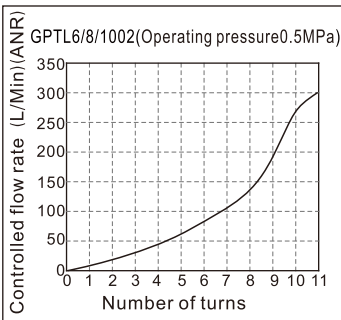
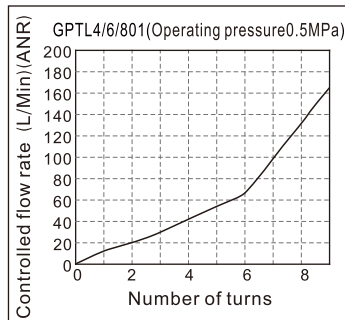
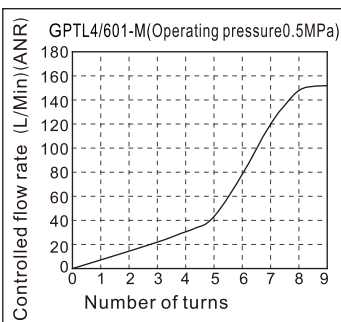
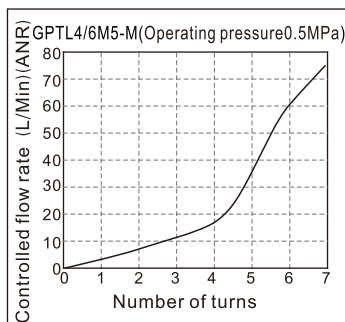


Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						Pull	Push						
GPTL601□	6	G1/8	12.5	13	5.5	36	34.5	16.5	22.5	23.5	14	12.5	2
GPTL602□		G1/4	12.5	16.5	6.5	40.5	39	16.5	24	28	17	19.5	2
GPTL603□		G3/8	12.5	19	7	44	42.5	16.5	25.5	31	19	28.5	2
GPTL801□	8	G1/8	15	13	5.5	36	34.5	18.5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

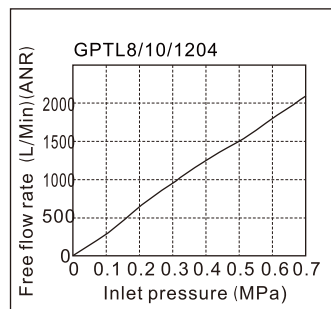
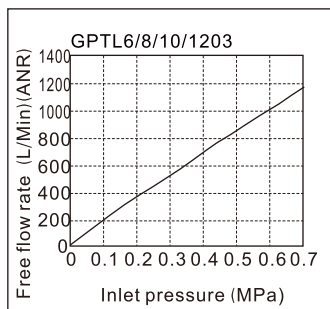
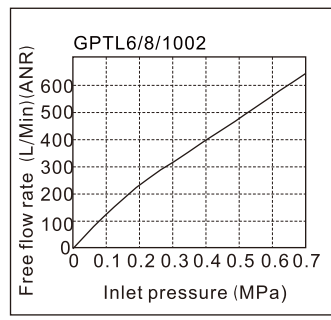
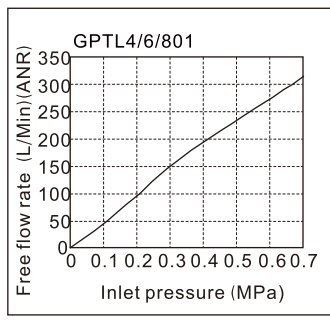
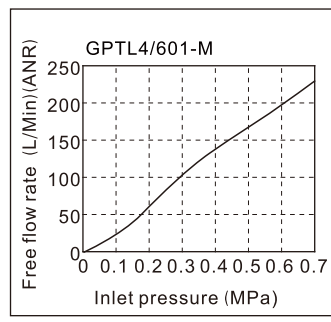
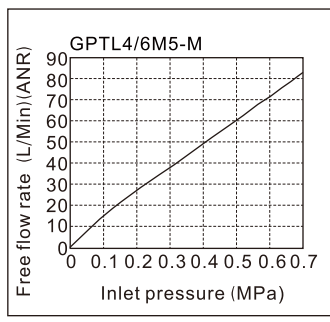
[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

Flowrate characteristic

Controlled flow rate



Free flow rate



Accessories——Finger valve

GPHV series



Specification

Model	GPHV6	GPHV8	GPHV10	GPHV12
Operating pressure range	0~10kgf/cm ² (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



Product feature

1. GPHV series product doesn't contain brass, so can be used for forbidding brass condition.
2. When the three-way valve is closed, the outlet pressure is released, which facilitates in commissioning and maintenance.
3. The finger valve has excellent flow characteristic and high sensitive uni-direction characteristic.

Ordering code

GPHV 6 A □



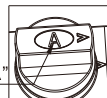
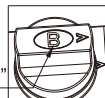
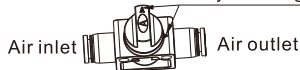
① Fitting type	② Port size	③ Valve specification		④ Standard color
GPHV: Finger valve	6: Φ6mm	A: Three-way	B: Two-way	Blank: Gray(Release button: Gray Body: Gray) D: Black(Release button: Black Body: Black)
	8: Φ8mm	 Knob identifier "A"	 Knob identifier "B"	
	10: Φ10mm			
	12: Φ12mm			

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

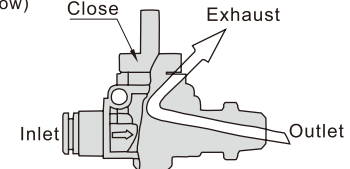


Opened state

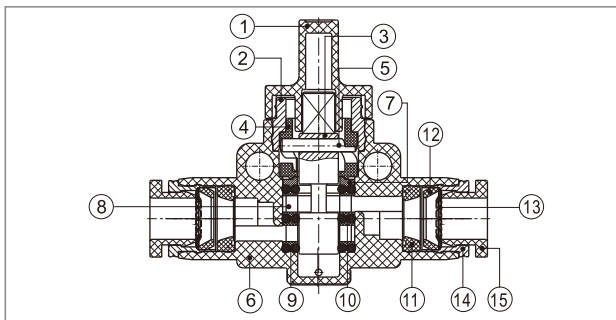
Valve is open, when the direction of the arrow on commutation knob is consistent with that on valve body.



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

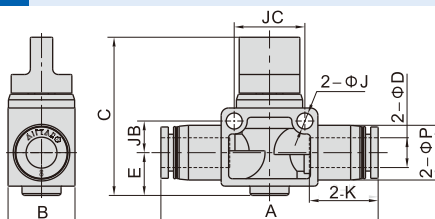


Inner structure



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

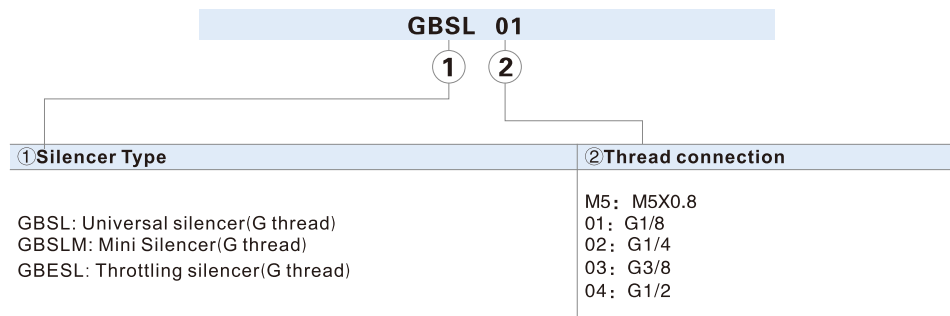


Model\Item	ΦD	A	B	C	ΦP	K	E	ΦJ	JB	JC	Weight(g)	PCS/bag
GPHV6□	6	51.5	17	40.5	12.5	16.5	10	4.3	8	18	14.3	2
GPHV8□	8	58.5	18	42.5	15	18.5	11.5	4.3	8.5	19	17.5	2
GPHV10□	10	66	21	42	18	21	11	4.3	11	24	25.1	2
GPHV12□	12	71	22	46	21	23	13	4.3	11	24	31.4	2

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

The two kinds of valve have same dimensions.

Ordering code



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

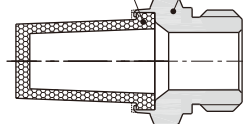
Model	GBSLM5	GBSL01	GBSL02	GBSL03	GBSL04	GBSLMM5	GBSLM01	GBSLM02	GBSLM03	GBSLM04
Thread connection	M5×0.8	G1/8	G1/4	G3/8	G1/2	M5×0.8	G1/8	G1/4	G3/8	G1/2
Silencing effect(dB)(0.5MPa)	15	20	20	20	12	15	20	20	20	20
Model	GBESL01	GBESL02	GBESL03	GBESL04						
Thread connection	G1/8	G1/4	G3/8	G1/2						
Silencing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

Inner structure

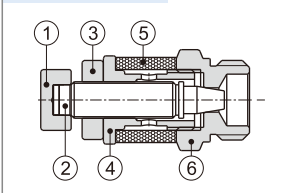
GBSL Series

Sound absorbing cover
(Copper particle sintered)

Silencer body
(HPb59-1)



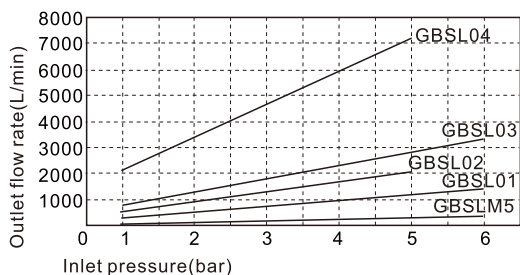
GBESL Series



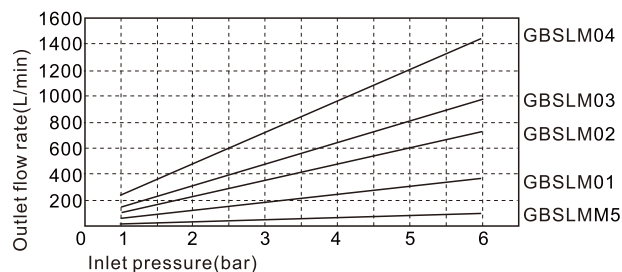
NO.	Name	Material
1	Adjusting cap	Aluminum alloy
2	Throttling column	Aluminum alloy
3	Locking cap	Aluminum alloy
4	Locking ring	Aluminum alloy
5	Silencer ring	Copper particle sintered
6	Silencer body	Brass

Flowrate characteristic

GBSL Series



GBSLM Series

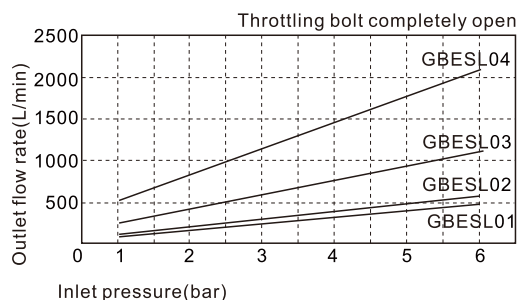


Accessories——Silencers

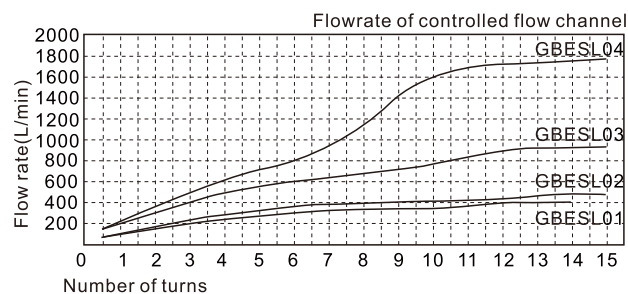
GBSL, GBSLM, GBESL series

Flowrate characteristic

GBESL Series (Inlet pressure and outlet flow rate)

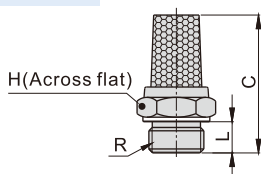


GBESL Series



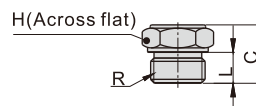
Dimensions

GBSL Series



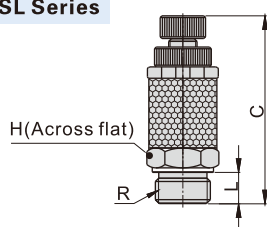
Model\Item	R	L	C	H	Weight(g)	PCS/bag
GBSLM5	M5×0.8	3.5	19.5	8	2.9	10
GBSL01	G1/8	5.5	24	12	6.8	10
GBSL02	G1/4	6.5	29.5	15	11.3	10
GBSL03	G3/8	7	37.5	19	21.1	10
GBSL04	G1/2	8.5	45	22	33.6	10

GBSLM Series



Model\Item	R	L	C	H	Weight(g)	PCS/bag
GBSLMM5	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

Polyurethane re-coil hosepart

US98A, UE95A Series



Product feature

1. Plastic polyurethane material conforms to the ROHS environment protection requirement.
2. High elasticity: small bend radius enables PU tube to pass through the tight space.
3. Anti-knot: better anti-knot effect than other plastic tube.
4. Excellent flexibility: it can bear repeated expansion.
5. Anti-abrasion: long working life and suitable for the environment in which it is easy to be worn.
6. Low permeability of gas: relieve the problems of leakage and pollution.
7. Good anti-solubility: no solvent leaks, therefore it will not pollute the environment.
8. Low compression: maintain excellent physical character.
9. Wide resistance: it has certain resistance to chemicals, water, fuel, oil and bacterium.

Specification(Standard pressure type)

Type [Note1]	Tube OD (mm)	Tube ID (mm)	Wall Thickness (mm)	Package Length(m)	Working Pressure at 23℃(MPa)[Note2]	Burst pressure at 23℃(MPa)	Bend radius (mm)	Weight per 100M(kg)	Temperature (℃)
US98A032020□□	3.2	2.0	0.60	100/200	1.0	3.0	8	0.60	-20~70
US98A040025□□	4.0	2.5	0.75	100/200	1.0	3.0	10	0.94	
US98A060040□□	6.0	4.0	1.00	100/200	1.0	3.0	15	1.93	
US98A080050□□	8.0	5.0	1.50	100	1.0	3.0	20	3.66	
US98A100065□□	10.0	6.5	1.75	100	1.0	3.0	25	5.44	
US98A120080□□	12.0	8.0	2.00	100	1.0	3.0	35	7.56	
US98A160110□□	16.0	11.0	2.50	100	1.0	3.0	80	10.03	
UE95A032020□□	3.2	2.0	0.60	20/100/200	1.0	2.5	8	0.60	-40~70
UE95A040025□□	4.0	2.5	0.75	20/100/200	1.0	2.5	8	0.94	
UE95A060040□□	6.0	4.0	1.00	20/100/200	1.0	2.5	12	1.91	
UE95A080050□□	8.0	5.0	1.50	20/100	1.0	2.5	17	3.58	
UE95A100065□□	10.0	6.5	1.75	20/100	1.0	2.5	20	5.32	
UE95A120080□□	12.0	8.0	2.00	20/100	1.0	2.5	30	7.27	

[Note1] The first square of "□□" in the type column is for ordering code "unit" and the second is for "color".

[Note2] Working pressure:3 to 1 safety factor.

Specification(Lower pressure type)

Type [Note1]	Tube OD (mm)	Tube ID (mm)	Wall Thickness (mm)	Package Length(m)	Working Pressure at 23℃(MPa)[Note2]	Burst pressure at 23℃(MPa)	Bend radius (mm)	Weight per 100M(kg)	Temperature (℃)
US98A080055□□	8.0	5.5	1.25	100	0.8	2.0	20	3.25	-20~70
US98A080060□□	8.0	6.0	1.00	100	0.4	1.5	25	2.70	
US98A100080□□	10.0	8.0	1.00	100	0.4	1.5	40	3.47	
US98A120100□□	12.0	10.0	1.00	100	0.4	1.5	60	4.24	
US98A160120□□	16.0	12.0	2.00	100	0.4	2.0	80	8.32	
UE95A080055□□	8.0	5.5	1.25	20/100	0.8	1.5	17	3.18	-40~70

[Note1] The first square of "□□" in the type column is for ordering code "unit" and the second is for "color".

[Note2] Working pressure:3 to 1 safety factor.

Ordering code

US98A 060 040 100M BU

① ② ③ ④ ⑤

① Model	② Tube OD	③ Tube ID		④ Material length	⑤ Standard color [Note1]	
US98A: Ester Base,Shore A98±2	032: Φ3.2mm	020: Φ2.0mm	065: Φ6.5mm 080: Φ8.0mm 0100: Φ10.0mm	100M: 100 m/coil 200M: 200 m/coil	BU: Blue BK: Black GE: Orange C: Clear WH: White CB: Clear Blue R: Red Y: Yellow GA: Gray	GN: Green BR: Brown CR: Clear Red CG: Clear Green CY: Clear Yellow CE: Clear Orange
	040: Φ4.0mm	025: Φ2.5mm				
	060: Φ6.0mm	040: Φ4.0mm	100M: 100 m/coil			
	080: Φ8.0mm	050: Φ5.0mm				
	100: Φ10.0mm	055: Φ5.5mm				
	120: Φ12.0mm	060: Φ6.0mm				
UE95A: Ether Base,Shore A95±2	160: Φ16.0mm		055: Φ5.5mm 065: Φ6.5mm 080: Φ8.0mm	20M: 20 m/coil 100M: 100 m/coil 200M: 200 m/coil		
	032: Φ3.2mm	020: Φ2.0mm		20M: 20 m/coil 100M: 100 m/coil		
	040: Φ4.0mm	025: Φ2.5mm				
	060: Φ6.0mm	040: Φ4.0mm				
	080: Φ8.0mm	050: Φ5.0mm				
	100: Φ10.0mm					
	120: Φ12.0mm					

[Note1] Φ8xΦ6, Φ10xΦ8, Φ12xΦ10 type have nine standard colors: Blue\ Black\ Orange\ Clear\ White\ Clear Blue\ Red\ Yellow\ Gray.



Polyurethane re-coil hosepart

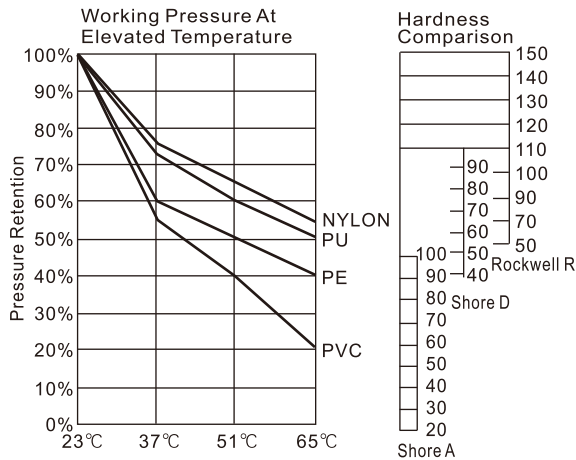
UCS Series



Product feature

1. Plastic polyurethane material conforms to the ROHS environment protection requirement.
2. High elasticity: small bend radius enables PU tube to pass through the tight space.
3. Anti-knot: better anti-knot effect than other plastic tube.
4. Excellent flexibility: it can bear repeated expansion.
5. Anti-abrasion: long working life and suitable for the environment in which it is easy to be worn.
6. Low permeability of gas: relieve the problems of leakage and pollution.
7. Good anti-solubility: no solvent leaks, therefore it will not pollute the environment.
8. Low compression: maintain excellent physical character.
9. Wide resistance: it has certain resistance to chemicals, water, fuel, oil and bacterium.

Technical chart



Specification (Standard pressure type)

Type [Note1]	Tube OD (mm)	Tube ID (mm)	Working Pressure at 23°C (MPa) [Note2]	Burst pressure at 23°C (MPa)	Bend radius (mm)	Length (m) [Note3]	Temp. (°C)
UCS060040□030□□	6.0	4.0	1.0	3.0	38	3	-20~70
UCS060040□060□□	6.0	4.0	1.0	3.0	38	6	
UCS060040□090□□	6.0	4.0	1.0	3.0	38	9	
UCS060040□120□□	6.0	4.0	1.0	3.0	38	12	
UCS060040□150□□	6.0	4.0	1.0	3.0	38	15	
UCS080050□060□□	8.0	5.0	1.0	3.0	38	6	
UCS080050□090□□	8.0	5.0	1.0	3.0	38	9	
UCS080050□120□□	8.0	5.0	1.0	3.0	38	12	
UCS080050□150□□	8.0	5.0	1.0	3.0	38	15	
UCS100065□060□□	10.0	6.5	1.0	3.0	50	6	
UCS100065□090□□	10.0	6.5	1.0	3.0	50	9	
UCS100065□120□□	10.0	6.5	1.0	3.0	50	12	
UCS100065□150□□	10.0	6.5	1.0	3.0	50	15	
UCS120080□060□□	12.0	8.0	1.0	3.0	60	6	
UCS120080□090□□	12.0	8.0	1.0	3.0	60	9	
UCS120080□120□□	12.0	8.0	1.0	3.0	60	12	
UCS120080□150□□	12.0	8.0	1.0	3.0	60	15	

Specification (Lower pressure type)

Type [Note1]	Tube OD (mm)	Tube ID (mm)	Working Pressure at 23°C (MPa) [Note2]	Burst pressure at 23°C (MPa)	Bend radius (mm)	Length (m) [Note3]	Temp. (°C)
UCS080055□060□□	8.0	5.5	0.8	2.0	38	6	-20~70
UCS080055□090□□	8.0	5.5	0.8	2.0	38	9	
UCS080055□120□□	8.0	5.5	0.8	2.0	38	12	
UCS080055□150□□	8.0	5.5	0.8	2.0	38	15	

[Note1] "□" in the type column is for "color", and "□□" is for "coupling type" and "coupling mode".

[Note2] Working pressure: 3 to 1 safety factor.

[Note3] Material length: length of operating status=(0.8~0.9)xMaterial length.

Ordering code

UCS 080 050 BU 090M A 1

① ② ③ ④ ⑤ ⑥ ⑦

① Model	② Tube OD	③ Tube ID	④ Standard color	⑤ Material length	⑥ Coupling type	⑦ Coupling form
UCS: Ester Base	060: Φ6.0mm	040: Φ4.0mm	BU: Blue BK: Black GE: Orange C: Clear WH: White CB: Clear Blue R: Red Y: Yellow	030M: 3m 060M: 6m 090M: 9m 120M: 12m 150M: 15m	A: one end is 30cm and the other end is 10cm 	1: Without coupling 2: With female-male coupling 3: With male-male coupling
	080: Φ8.0mm	050: Φ5.0mm				
	100: Φ10.0mm	055: Φ5.5mm				
	120: Φ12.0mm	065: Φ6.5mm 080: Φ8.0mm				

Pipe end coupling

Male quick coupling PP40 Φ12 × Φ8	Female quick coupling SP40 Φ12 × Φ8	Male quick coupling PP30 Φ10 × Φ6.5	Female quick coupling SP30 Φ10 × Φ6.5	Male quick coupling PP20 Φ8 × Φ5	Female quick coupling SP20 Φ8 × Φ5	Male quick coupling PP10 Φ6 × Φ4	Female quick coupling SP10 Φ6 × Φ4

PP40/SP40-PU tube (12 × 8) quick coupling use PP30/SP30-PU tube (10 × 6.5) quick coupling use PP20/SP20-PU tube (8 × 5) quick coupling use PP10/SP10-PU tube (6 × 4) quick coupling use



Flame resistant tube

UN54D Series

Product feature

1. Monolayer tube with flame resistant.
2. Excel in elasticity: can pass compactness space with lesser bend radius.
3. Excellent water-resistant and flexibility.
4. Super doughty wearable and higher intensity of stretch.



Specification

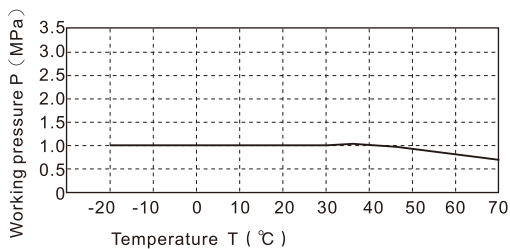
Type [Note1]	Tube OD (mm)	Tube ID (mm)	Wall Thickness (mm)	Package Length(m)	Working Pressure at 23℃ (MPa)	Burst pressure at 23℃	Bend radius (mm)	Weight per 100M(kg)	Temperature (℃)
UN54D□060040□□	6.0	4.0	1.00	100	1.0	4.0	12	1.93	-20~70
UN54D□080050□□	8.0	5.0	1.50	100	1.0	4.0	18	3.66	
UN54D□100065□□	10.0	6.5	1.75	100	1.0	4.0	20	5.44	
UN54D□120080□□	12.0	8.0	2.00	100	1.0	4.0	20	7.56	

[Note1] "□□" in the type column is for "color"

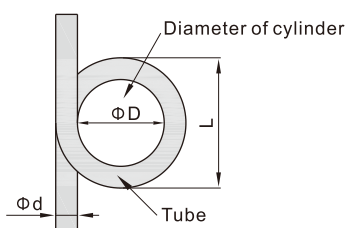
Ordering code

UN54D 120 080 100M Y				
	①	②	③	④ ⑤
①Model	②Tube OD	③Tube ID	④Material length	⑤Standard color
UN54D: Flame resistant tube54D±3	060: Φ6.0mm 080: Φ8.0mm 100: Φ10.0mm 120: Φ12.0mm	040: Φ4.0mm 050: Φ5.0mm 065: Φ6.5mm 080: Φ8.0mm	100M: 100 m/coil	BU: Blue BK: Black GN: Green WH: White R: Red Y: Yellow

Relationship of operation pressure and temperature



Mini bend radius



The least bend radius (JIS method)

JIS method (Base on JIS B8381 standard)

When the tube circle the cylinder tightly and the distortion rate is 25%, the cylinder radius is the least bend radius.

Testing condition: 20℃, 65%RH

$$N = \{1 - (L - D) / 2d\} \times 100$$

N=Distortion rate (%), less than 25% of standard value.

d=Tube diameter (mm)

L=Measure value (mm)

D=Diameter of cylinder (mm)

Accessories—One-Touch Fittings

PC, POC series

Ordering code

PC 6 01 □ □

1 2 3 4 5

① Model	② Port size	③ Thread connection	④ Standard color	⑤ Thread type
PC: Male connector 	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Thread connection M5: M5X0.8 01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"	Adaptable port size Φ4, Φ6 Φ4, Φ6 Φ8, Φ10 Φ12	Standard color Blank: Gray D: Black Specification Release button: Gray Release button: Black Blank: PT

Specification

Operating pressure range	0~10kgf/cm ² (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.

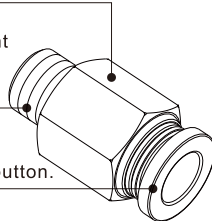
Product series	Thread type	Φ4	Φ6	Φ8	Φ10	Φ12
PC	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
POC	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●

Product feature

1. The compact appearance space saving.

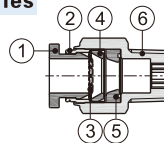
2. The threaded portion is covered with sealant to prevent air leakage over the connection thread portion.

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



Inner structure

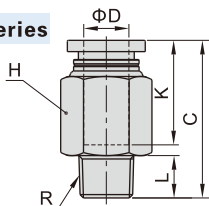
PC Series



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

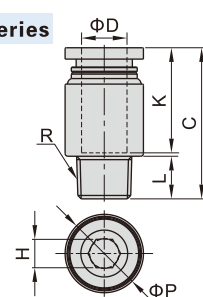
Dimensions

PC Series



Model\Item	ΦD	R	L	C	K	H(Across flat)	Weight(g)	PCS/bag
PC401	4	PT1/8	7.5	19.5	14	10	7	10
PC402		PT1/4	10	19.5	14	14	13.5	10
PC601	6	PT1/8	7.5	22.0	18.5	12	7.5	10
PC602		PT1/4	10	24.5	18.5	14	15.5	10
PC603	8	PT3/8	11	22.5	18.5	17	24	10
PC604		PT1/2	14	26.0	18.5	21	46	10
PC801	8	PT1/8	7.5	28	18.5	14	13.5	10
PC802		PT1/4	10	27	18.5	14	13	10
PC803	10	PT3/8	11	23.5	18.5	17	21	10
PC804		PT1/2	14	27	18.5	21	43.5	10
PC1001	10	PT1/8	7.5	30	21	17	20.5	10
PC1002		PT1/4	10	32.5	21	17	24	10
PC1003	12	PT3/8	11	28	21	17	20.5	10
PC1004		PT1/2	14	26.5	21	21	36	10
PC1201	12	PT1/8	7.5	32.5	23	21	38.5	10
PC1202		PT1/4	10	35	23	21	40.5	10
PC1203	12	PT3/8	11	30.5	23	21	28.5	10
PC1204		PT1/2	14	32.5	23	21	41.5	10

POC Series



Model\Item	ΦD	R	ΦP	L	C	K	H(Across flat)	Weight(g)	PCS/bag
POC4M5		M5×0.8	9	3.5	18.5	14	2.5	3.6	10
POC401	4	PT1/8	10	7.5	18	14	3	5.5	10
POC402		PT1/4	14	10	19.5	14	3	12.6	10
POC6M5	6	M5×0.8	12	3.5	21.5	16.5	2	5.9	10
POC601		PT1/8	12	7.5	22.0	18.5	4	6.3	10
POC602	8	PT1/4	14	10	22.0	18.5	4	11.8	10
POC801		PT1/8	14	7.5	26.5	18	5	9.9	10
POC802	10	PT1/4	14	10	25	18	6	10.1	10
POC803		PT3/8	17	11	23.5	18	6	19.3	10
POC1001	10	PT1/8	17	7.5	30	21	5	16.5	10
POC1002		PT1/4	17	10	29	21	6	15.4	10
POC1003	12	PT3/8	17	11	28	21	8	18.7	10
POC1004		PT1/2	21	14	26.5	21	8	35.3	10
POC1202	12	PT1/4	21	10	34.5	23	6	32.3	10
POC1203		PT3/8	21	11	30	23	8	25.1	10
POC1204		PT1/2	21	14	32	23	8	37.5	10

Accessories—One-Touch Fittings

PC, PL mini series

Ordering code

PC 6 01 □ □ - M

1 2 3 4 5 6

① Model	② Port size	③ Thread connection	④ Standard color	⑤ Thread type	⑥ Style type
PC: Male connector 	4: Φ4mm 6: Φ6mm	Thread connection: Adaptable port size 01: 1/8"	Blank: Gray D: Black	Blank: PT	M: Mini type
PL: Male elbow 					

Specification

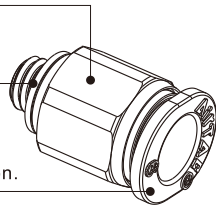
Operating pressure range	0~10kgf/cm ² (0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane
Color	Gray/black

Table for interface port and tube O.D.

Product series	Thread type	Port size	
		Φ4	Φ6
PC/PL	1/8"	●	●

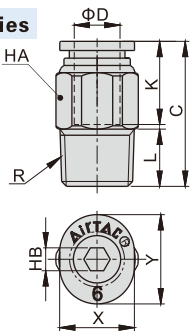
Product feature

1. The compact appearance space saving.
2. The threaded portion is covered with sealant to prevent air leakage over the connection thread portion.
3. Gray and black are optional for the release button.

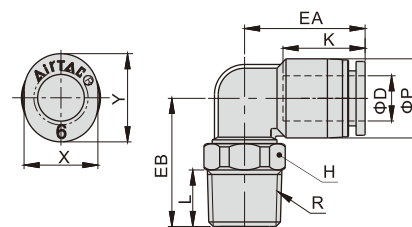


Dimensions

PC Series



PL Series



Model\Item	ΦD	R	L	C	K	X	Y	HA	HB	Weight(g)	PCS/bag
PC401-M	4	PT1/8	7.5	17.5	13.5	7.8	9.5	10	3	5.5	10
PC601-M	6	PT1/8	7.5	19.0	15.5	9.8	11.7	10	4	6.0	10

Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	X	Y	Weight(g)	PCS/bag
PL401-M	4	PT1/8	8.5	7.5	12.5	15	16	10	7.8	9.5	6.2	10
PL601-M	6	PT1/8	10.5	7.5	13.5	16.0	16.5	10	9.8	11.7	6.8	10

Accessories—One-Touch Fittings

One-touch fittings—threaded type

Ordering code

Same diameter type fittings

PL 6 01 ☐ ☐
1 2 3 4 5

①Model	②Port size	③Thread connection	④Standard color	⑤Thread type
PHW: Double universal male elbow 	PL: Male elbow 	Thread connection	Standard color	Specification
PHF: Universal female elbow 	PLL: Extended male elbow 	Adaptable port size	Blank: Gray	Release button: Gray
PEB: Male branch tee 	PLF: Female elbow 	01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"		Body: Gray
PED: Male run tee 	PCF: Female connector 	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm		Others
PYB: Branch "Y" 	PMF: Bulkhead connector 	Φ4, Φ6 Φ8, Φ10 Φ12	D: Black	Release button: Black
PZB: Threaded cross 	PH: Universal male elbow 			Body: Black
				Blank: PT

Different diameter type fittings

PKD 6 - 4 01 ☐ ☐
1 2 3 4 5 6

①Model	②Port size	③Port size	④Thread connection	⑤Standard color	⑥Thread type
PKD: Male reducer triple branch 	6: Φ6mm 8: Φ8mm 10: Φ10mm	4: Φ4mm 6: Φ6mm 8: Φ8mm	01: 1/8" 02: 1/4" 03: 3/8"	Standard color: Blank: Gray D: Black	Specification: Release button: Gray/Body: Gray Release button: Black/Body: Black
					Blank: PT

Specification

Operating pressure range	0~10kgf/cm ² (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.
- 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

Table for interface port and tube O.D.

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PL	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
PLL	1/2"		●	●	●	●
	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
PEB PED PYB	3/8"		●	●	●	●
	1/2"			●	●	●
	1/8"	●	●	●	●	●
PH PHF	1/4"		●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●
PHW	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
PZB	1/2"			●	●	●
	1/8"		●	●		
	1/4"		●	●	●	

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PLF	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
PCF	1/2"			●	●	●
	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
PMF	3/8"		●	●	●	●
	1/2"			●	●	●
	1/8"	●	●	●	●	●

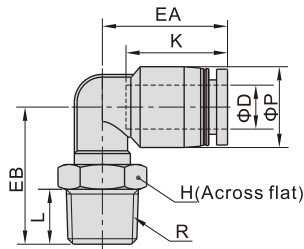
Product series	Thread type	Port size		
		Φ6-Φ4	Φ8-Φ6	Φ10-Φ8
PKD	1/8"	●		
	1/4"		●	
	3/8"			●

Accessories—One-Touch Fittings

One-touch fittings—threaded type

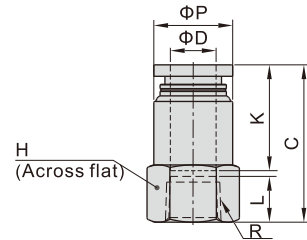
Dimensions

PL Series



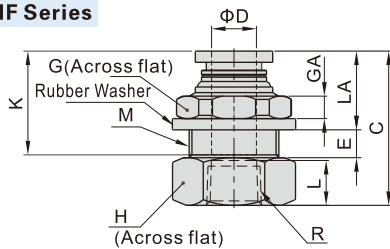
Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
PL401	4	PT1/8	9	7.5	14	17	18.5	10	4.5	10
PL402		PT1/4	9	10	14	17	22.0	14	12	10
PL601	6	PT1/8	12.5	7.5	17	20	20.5	10	6	10
PL602		PT1/4	12.5	10	17	20	24.0	14	13.5	10
PL603		PT3/8	12.5	11	17	20	25.5	17	20.5	10
PL604	8	PT1/2	12.5	14	17	20	30.0	21	36	10
PL801		PT1/8	15	7.5	18.5	23	20.5	10	7.5	10
PL802		PT1/4	15	10	18.5	23	25.0	14	13	10
PL803		PT3/8	15	11	18.5	23	26.5	17	21	10
PL804	10	PT1/2	15	14	18.5	23	31.0	21	36	10
PL1001		PT1/8	18	7.5	21	25.5	25.0	17	16.5	10
PL1002		PT1/4	18	10	21	25.5	27.0	17	19	10
PL1003		PT3/8	18	11	21	25.5	28.0	17	21	10
PL1004	12	PT1/2	18	14	21	25.5	32.5	21	37	10
PL1201		PT1/8	21	7.5	23	28.5	26.5	17	19	10
PL1202		PT1/4	21	10	23	28.5	28.5	17	21.5	10
PL1203		PT3/8	21	11	23	29.5	33	17	25.5	10
PL1204		PT1/2	21	14	23	29.5	34	21	37	10

PCF Series



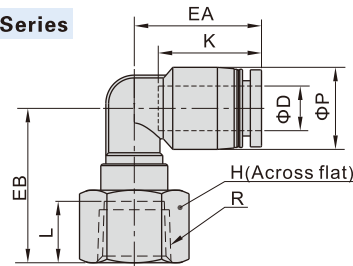
Model\Item	ΦD	R	ΦP	L	C	K	H	Weight(g)	PCS/bag
PCF401	4	PT1/8	9.5	8	23	14	14	4.5	10
PCF402		PT1/4	9.5	11	26	14	17	6.5	10
PCF601	6	PT1/8	12.5	8	25.5	16.5	14	5.6	10
PCF602		PT1/4	12.5	11	28.5	16.5	17	7.5	10
PCF603		PT3/8	13	12	29.5	16.5	21	10.7	10
PCF604	8	PT1/2	13	13.5	31.0	16.5	25	13.8	10
PCF801		PT1/8	14	8	27.5	18.5	14	5.8	10
PCF802		PT1/4	14.5	11	30.5	18.5	17	8.4	10
PCF803		PT3/8	14.5	12	31.5	18.5	21	11.2	10
PCF804	10	PT1/2	14.5	13.5	33	18.5	25	14.4	10
PCF1001		PT1/8	17	8	29	21	17	9.5	10
PCF1002		PT1/4	17	11	33	21	17	9.9	10
PCF1003		PT3/8	18	12	34	21	21	14	10
PCF1004	12	PT1/2	18	13.5	35.5	21	25	17.1	10
PCF1202		PT1/4	21	11	33.5	23	21	17.5	10
PCF1203		PT3/8	21	12	35.5	23	21	16.6	10
PCF1204		PT1/2	21	13.5	37	23	25	19.7	10

PMF Series



Model\Item	ΦD	R	M	L	C	K	LA	E	GA	G	H	Weight(g)	PCS/bag
PMF401	4	PT1/8	M12X1	8	25	14	12	4	4	14	14	6.4	10
PMF402		PT1/4	M12X1	11	29	14	12	4	4	14	17	9	10
PMF601	6	PT1/8	M14X1	8	25.5	16.5	12.5	5	4	17	17	9.1	10
PMF602		PT1/4	M14X1	11	30.5	16.5	12.5	5	4	17	17	10.9	10
PMF603		PT3/8	M14X1	12	31.5	16.5	12.5	5	4	17	21	13.2	10
PMF801	8	PT1/2	M16X1	8	27.5	18.5	13.5	5.5	4	19	19	12.8	10
PMF802		PT1/8	M16X1	11	32	18.5	13.5	5.5	4	19	19	15.7	10
PMF803		PT3/8	M16X1	12	33	18.5	13.5	5.5	4	19	21	15	10
PMF804		PT1/2	M16X1	13.5	34.5	18.5	13.5	5.5	4	19	25	18.1	10
PMF1001	10	PT1/8	M20X1	8	30	21	14.5	7.5	5	24	22	19.6	10
PMF1002		PT1/4	M20X1	11	35	21	14.5	7.5	5	24	22	22.8	10
PMF1003		PT3/8	M20X1	12	36	21	14.5	7.5	5	24	22	21.1	10
PMF1004		PT1/2	M20X1	13.5	37.5	21	14.5	7.5	5	24	25	23.2	10
PMF1202	12	PT1/4	M22X1	11	34.5	23	15.5	8	6	27	24	26.2	10
PMF1203		PT3/8	M22X1	12	37.5	23	15.5	8	6	27	24	27	10
PMF1204		PT1/2	M22X1	13.5	39	23	15.5	8	6	27	25	26.2	10

PLF Series

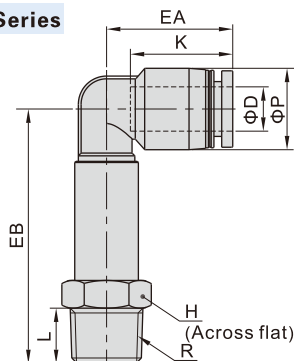


Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
PLF401	4	PT1/8	9	8	14	17	21	14	4.6	10
PLF402		PT1/4	9	11	14	17	24	17	6.8	10
PLF601	6	PT1/8	12.5	8	17	20	23	14	5.8	10
PLF602		PT1/4	12.5	11	17	20	26	17	8	10
PLF603		PT3/8	12.5	12	17	20	27	21	10.7	10
PLF801	8	PT1/2	15	8	18.5	23	20	14	6.6	10
PLF802		PT1/8	15	11	18.5	23	27.5	17	9.2	10
PLF803		PT3/8	15	12	18.5	23	28.5	21	11.9	10
PLF804		PT1/2	15	13.5	18.5	23	30	25	15.2	10
PLF1001	10	PT1/8	18	8	21	25.5	24	17	11.3	10
PLF1002		PT1/4	18	11	21	25.5	26.5	17	11.2	10
PLF1003		PT3/8	18	12	21	25.5	30	21	14.5	10
PLF1004		PT1/2	18	13.5	21	25.5	31.5	25	17.4	10
PLF1202	12	PT1/4	21	11	23	28.5	28.5	17	13.7	10
PLF1203		PT3/8	21	12	23	29.5	32	21	17.4	10
PLF1204		PT1/2	21	13.5	23	29.5	33	25	20.4	10

Accessories—One-Touch Fittings

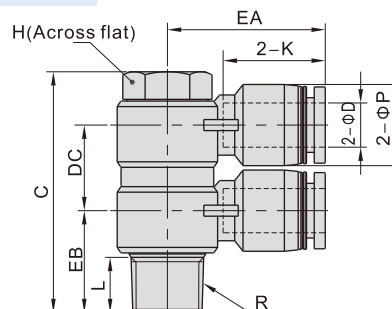
One-touch fittings—threaded type

PLL Series



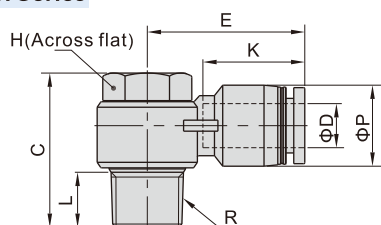
Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)	PCS/bag
PLL401	4	PT1/8	9	7.5	14	17	35.5	10	12.3	10
PLL402		PT1/4	9	10	14	17	38.5	14	16.9	10
PLL601	6	PT1/8	12.5	7.5	17	20	37.5	10	13	10
PLL602		PT1/4	12.5	10	17	20	40.5	14	18	10
PLL603		PT3/8	12.5	11	17	20	43	17	23.4	10
PLL801	8	PT1/8	15	7.5	18.5	23	43.5	12	16.6	10
PLL802		PT1/4	15	10	18.5	23	45.5	14	22.7	10
PLL803		PT3/8	15	11	18.5	23	48	17	27.7	10
PLL1001	10	PT1/8	18	7.5	21	25.5	50.5	15	37.5	10
PLL1002		PT1/4	18	10	21	25.5	53.5	15	40.6	10
PLL1003		PT3/8	18	11	21	25.5	54.5	17	40.7	10
PLL1004		PT1/2	18	14	21	25.5	59	21	47.4	10
PLL1202	12	PT1/4	21	10	23	28.5	55.5	15	43	10
PLL1203		PT3/8	21	11	23	29.5	60	17	55.4	10
PLL1204		PT1/2	21	14	23	29.5	63	21	56.7	10

PHW Series



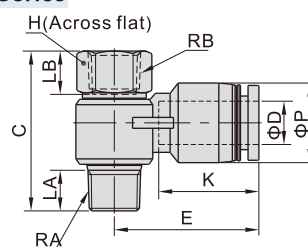
Model\Item	ΦD	R	ΦP	L	C	K	EA	EB	DC	H	Weight(g)	PCS/bag
PHW401	4	PT1/8	9	7.5	38	14	20.5	14.5	13	11	19	10
PHW601	6	PT1/8	12.5	7.5	38	16.5	23.0	15	13	11	21	10
PHW602		PT1/4	12.5	10	43.5	16.5	25.0	17.5	15.5	14	40.2	10
PHW603		PT3/8	12.5	11	50	16.5	27.0	20	16.5	19	69.2	5
PHW801	8	PT1/8	15	7.5	40.5	18.5	26.5	16.5	15.5	11	23.6	10
PHW802		PT1/4	15	10	43.5	18.5	28.5	18.5	15.5	14	40.8	10
PHW803		PT3/8	15	11	50	18.5	29.5	20	16.5	19	70.4	5
PHW804		PT1/2	15	14	61	18.5	32	24.5	22	24	134.8	5
PHW1002	10	PT1/4	18	10	46.5	21	31	20	18.5	14	47	10
PHW1003		PT3/8	18	11	55	21	33	21	22	19	87.5	5
PHW1004		PT1/2	18	14	61	21	35.5	25	22	24	137.7	5
PHW1203	12	PT3/8	21	11	55	23	36	23	22	19	86.4	5
PHW1204		PT1/2	21	14	61	23	38	26.5	22	24	147.5	5

PH Series



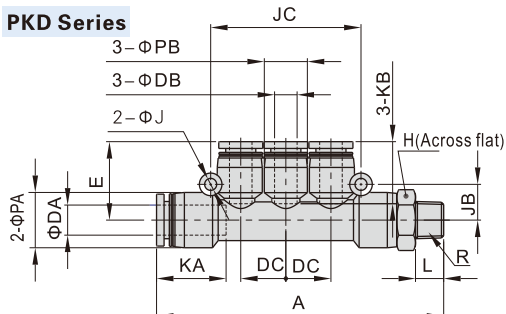
Model\Item	ΦD	R	ΦP	L	C	K	E	H	Weight(g)	PCS/bag
PH401	4	PT1/8	9	7.5	25	14	20.5	11	12.8	10
PH601	6	PT1/8	12.5	7.5	25	16.5	23	11	14	10
PH602		PT1/4	12.5	10	28	16.5	25	14	25.4	10
PH603		PT3/8	12.5	11	33	16.5	27	19	50.2	5
PH801	8	PT1/8	15	7.5	25	18.5	26.5	11	14.7	10
PH802		PT1/4	15	10	28	18.5	28.5	14	26.4	10
PH803		PT3/8	15	11	33	18.5	29.5	19	49.4	5
PH804		PT1/2	15	14	39	18.5	32	24	89	5
PH1002	10	PT1/4	18	10	28	21	31	14	27.7	10
PH1003		PT3/8	18	11	33	21	33	19	51.1	5
PH1004		PT1/2	18	14	39	21	35.5	24	88.5	5
PH1203	12	PT3/8	21	11	33	23	36	19	53	5
PH1204		PT1/2	21	14	39	23	38	24	92.8	5

PHF Series



Model\Item	ΦD	RA	RB	ΦP	LA	LB	C	K	E	H	Weight(g)	PCS/bag
PHF401	4	PT1/8	PT1/8	9	7.5	8	29.5	14	20.5	12	12.9	10
PHF601	6	PT1/8	PT1/8	12.5	7.5	8	29.5	16.5	23	12	13.9	10
PHF602		PT1/4	PT1/4	12.5	10	11	35	16.5	25	17	30.3	10
PHF603		PT3/8	PT3/8	12.5	11	12	40	16.5	27	19	44.2	5
PHF801	8	PT1/8	PT1/8	15	7.5	8	29.5	18.5	26.5	12	15	10
PHF802		PT1/4	PT1/4	15	10	11	35	18.5	28.5	17	30.7	10
PHF803		PT3/8	PT3/8	15	11	12	40	18.5	29.5	19	44.8	5
PHF804		PT1/2	PT1/2	15	14	13.5	47.5	18.5	32	24	84.7	5
PHF1002	10	PT1/4	PT1/4	18	10	11	35	21	31	17	32	10
PHF1003		PT3/8	PT3/8	18	11	12	40	21	33	19	46.2	5
PHF1004		PT1/2	PT1/2	18	14	13.5	47.5	21	35.5	24	86.1	5
PHF1203	12	PT3/8	PT3/8	21	11	12	40	23	36	19	48.4	5
PHF1204		PT1/2	PT1/2	21	14	13.5	47.5	23	38	24	89.7	5

PKD Series



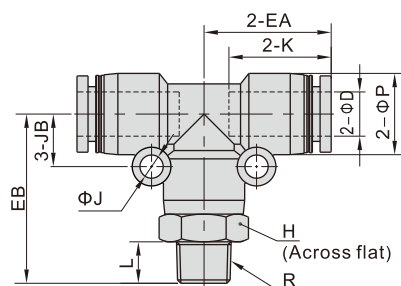
Model\Item	ΦDA	ΦDB	R	L	A	ΦPA	ΦPB	KA	KB
PKD6-401	6	4	PT1/8	7.5	66.5	12.5	9	16.5	14
PKD8-602	8	6	PT1/4	10	79	15	12.5	18.5	16.5
PKD10-803	10	8	PT3/8	11	91.5	18	15	21	18.5

Model\Item	ΦJ	JB	JC	DC	E	H	Weight(g)	PCS/bag
PKD6-401	3.2	8	34	10	17.5	12	15.8	2
PKD8-602	3.2	9.5	40	12	21	14	26.5	2
PKD10-803	4.3	11	48	14.5	24	17	38.2	2

Accessories—One-Touch Fittings

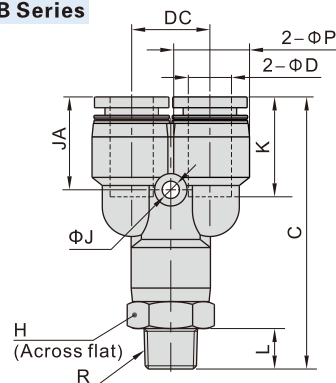
One-touch fittings—threaded type

PEB Series



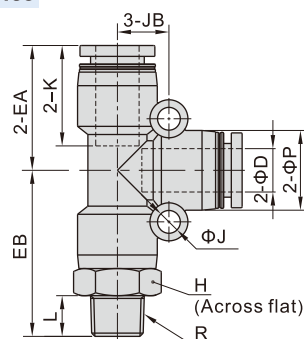
Model/Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H	Weight(g)	PCS/bag
PEB401	4	PT1/8	9	7.5	14	17	25	3.2	6.5	10	8.8	10
PEB402		PT1/4	9	10	14	17	28	3.2	6.5	14	15.5	10
PEB601	6	PT1/8	12.5	7.5	16.5	20	27.5	3.2	8	12	13.5	10
PEB602		PT1/4	12.5	10	16.5	20	30.5	3.2	8	14	18.6	10
PEB603	8	PT3/8	12.5	11	16.5	20	32	3.2	8	17	25.3	10
PEB801		PT1/8	15	7.5	18.5	23	30.5	4.3	9.5	14	18.4	10
PEB802	8	PT1/4	15	10	18.5	23	33	4.3	9.5	14	21.3	10
PEB803		PT3/8	15	11	18.5	23	34.5	4.3	9.5	17	28.2	10
PEB804	10	PT1/2	15	14	18.5	23	38.5	4.3	9.5	21	41	10
PEB1001		PT1/8	18	7.5	21	26.5	34	4.3	11	17	26.7	10
PEB1002	10	PT1/4	18	10	21	26.5	36.5	4.3	11	17	29.2	10
PEB1003		PT3/8	18	11	21	26.5	37.5	4.3	11	17	31.9	10
PEB1004	12	PT1/2	18	14	21	26.5	41.5	4.3	11	21	45.4	10
PEB1202		PT1/4	21	10	23	30	41	4.3	13	21	49.6	10
PEB1203	12	PT3/8	21	11	23	30	42	4.3	13	21	51.2	10
PEB1204		PT1/2	21	14	23	30	45	4.3	13	21	57.3	10

PYB Series



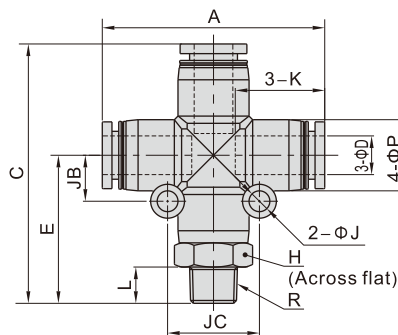
Model/Item	ΦD	R	ΦP	L	C	K	ΦJ	JA	DC	H	Weight(g)	PCS/bag
PYB401	4	PT1/8	9	7.5	39.5	14	3.2	13	10	10	9	10
PYB402		PT1/4	9	10	42.5	14	3.2	13	10	14	10.8	10
PYB601	6	PT1/8	12.5	7.5	44.5	16.5	3.2	15.5	12	12	13.7	10
PYB602		PT1/4	12.5	10	47.5	16.5	3.2	15.5	12	14	18.2	10
PYB603	8	PT3/8	12.5	11	49.0	16.5	3.2	15.5	12	17	25	10
PYB801		PT1/8	15	7.5	50	18.5	3.2	17	14.5	14	19.8	10
PYB802	8	PT1/4	15	10	52.5	18.5	3.2	17	14.5	14	22	10
PYB803		PT3/8	15	11	54	18.5	3.2	17	14.5	17	27.7	10
PYB804	10	PT1/2	15	14	58	18.5	3.2	17	14.5	21	40.8	10
PYB1001		PT1/8	18	7.5	56.5	21	4.3	19.5	18	17	27.4	10
PYB1002	10	PT1/4	18	10	59	21	4.3	19.5	18	17	29.5	10
PYB1003		PT3/8	18	11	60	21	4.3	19.5	18	17	32.5	10
PYB1004	12	PT1/2	18	14	64	21	4.3	19.5	18	21	45.4	10
PYB1202		PT1/4	21	10	66	23	4.3	21	20.5	21	27.3	10
PYB1203	12	PT3/8	21	11	67	23	4.3	21	20.5	21	51.8	10
PYB1204		PT1/2	21	14	70	23	4.3	21	20.5	21	56.8	10

PED Series



Model/Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H	Weight(g)	PCS/bag
PED401	4	PT1/8	9	7.5	14	17	25	3.2	6.5	10	8.8	10
PED402		PT1/4	9	10	14	17	28	3.2	6.5	14	15.5	10
PED601	6	PT1/8	12.5	7.5	16.5	20	27.5	3.2	8	12	13.5	10
PED602		PT1/4	12.5	10	16.5	20	30.5	3.2	8	14	18.6	10
PED603	8	PT3/8	12.5	11	16.5	20	32	3.2	8	17	25.3	10
PED801		PT1/8	15	7.5	18.5	23	30.5	4.3	9.5	14	18.4	10
PED802	8	PT1/4	15	10	18.5	23	33	4.3	9.5	14	21.3	10
PED803		PT3/8	15	11	18.5	23	34.5	4.3	9.5	17	28.2	10
PED804	10	PT1/2	15	14	18.5	23	38.5	4.3	9.5	21	41	10
PED1001		PT1/8	18	7.5	21	26.5	34	4.3	11	17	26.7	10
PED1002	10	PT1/4	18	10	21	26.5	36.5	4.3	11	17	29.2	10
PED1003		PT3/8	18	11	21	26.5	37.5	4.3	11	17	31.9	10
PED1004	12	PT1/2	18	14	21	26.5	41.5	4.3	11	21	45.4	10
PED1202		PT1/4	21	10	23	30	41	4.3	13	21	49.6	10
PED1203	12	PT3/8	21	11	23	30	42	4.3	13	21	51.2	10
PED1204		PT1/2	21	14	23	30	45	4.3	13	21	57.3	10

PZB Series



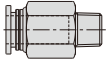
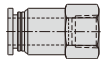
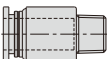
Model/Item	ΦD	R	L	A	E	C	ΦP	K	ΦJ	JB	JC	H	Weight(g)	PCS/bag
PZB601	6	PT1/8	7.5		27.5	47.5						12	15.2	10
PZB602		PT1/4	10	39.5	30.5	50.5	12.5	16.5	3.2	8	16	14	20.4	10
PZB603	8	PT3/8	11		32	52						17	27	10
PZB801		PT1/8	7.5		30.5	53.5						14	20.9	10
PZB802	8	PT1/4	10	46	33	56	15	18.5	4.3	9.5	19	14	23.8	10
PZB803		PT3/8	11		34.5	57.5						17	29.9	10
PZB804	10	PT1/2	14		38.5	61.5						21	43.5	10
PZB1002		PT1/4	10		36.5	63						17	33.5	10
PZB1003	10	PT3/8	11	52.5	37.5	64	18	21	4.3	11	22	17	36.5	10
PZB1004		PT1/2	14		41.5	68						21	49.2	10
PZB1203	12	PT3/8	11	59.5	42	72	21	23	4.3	13	26	21	56.5	10
PZB1204		PT1/2	14		45	75						21	65.4	10

Metal one-touch fittings

Ordering code

BPC 6 01 □

① ② ③ ④

① Model	② Port size	③ Thread connection	④ Thread type
BPC: Metal male connector 	4: Φ 4mm 6: Φ 6mm 8: Φ 8mm 10: Φ 10mm 12: Φ 12mm	M5: M5X0.8 01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"	Blank: PT
BPCF: Metal female connector 			
BPOC: Hexagon socket head metal male connector 	BPMF: Metal bulkhead female connector 		

Specification

Operating pressure range	0~9kgf/cm ² (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.

Product feature

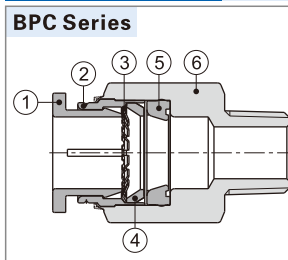
1. High flow capacity; The flow rate of these fittings is equivalent to that of the adaptable tubings.
2. Inserting or removal tubing is simple and convenient, and the connecting portion is reliable and durable.
3. Sealant is coated on threaded portion.
4. The fitting metal body adopts a special nickel-plating process, which has good corrosion resistance.
5. Metal fittings can be used in high temperature environment.

Table for interface port and tube O.D.

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
BPC	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"				●	●
BPOC	M5	●	●			
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"				●	●
BPCF	1/2"					●
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"				●	●
BPMF	1/2"					●
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"				●	●

Inner structure

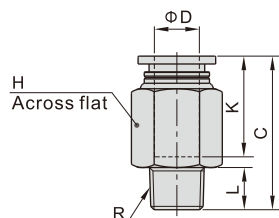
BPC Series		
NO.	Name	Material
1	Metal connector	Brass
2	Locating ring	Aluminum alloy
3	Spring gasket	Stainless steel
4	Locating seat	Aluminum alloy
5	Special shape O-ring	Viton
6	Straight connector body	Brass



Metal one-touch fittings

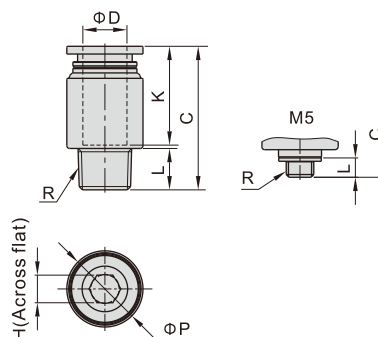
Dimensions

BPC Series



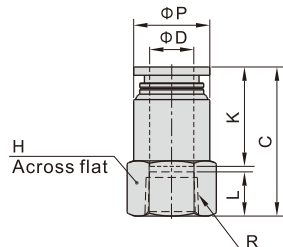
Model\Item	ΦD	R	L	C	K	H	Weight(g)	PCS/bag
BPC401	4	PT1/8	7.5	19.5	14	10	7.9	10
BPC402		PT1/4	10	19	14	14	8.7	10
BPC601		PT1/8	7.5	21.5	18	12	14.2	10
BPC602	6	PT1/4	10	24	18	14	19.1	10
BPC603		PT3/8	11	22.5	18	17	26.8	10
BPC801		PT1/8	7.5	27.5	18	14	16.1	10
BPC802	8	PT1/4	10	26.5	18	14	16	10
BPC803		PT3/8	11	23	18	17	25.4	10
BPC1001		PT1/8	7.5	29.5	20.5	17	24.5	10
BPC1002	10	PT1/4	10	32	20.5	17	28	10
BPC1003		PT3/8	11	27.5	20.5	17	34.6	10
BPC1004		PT1/2	14	25.5	20.5	21	39.3	10
BPC1202	12	PT1/4	10	34.5	22	21	44.5	10
BPC1203		PT3/8	11	30	22	21	34.2	10
BPC1204		PT1/2	14	32	22	21	47	10

BPOC Series



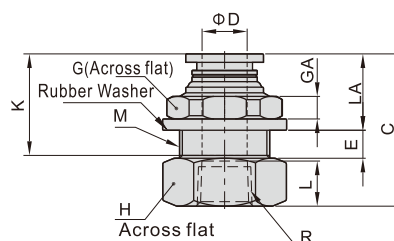
Model\Item	ΦD	R	ΦP	L	C	K	H	Weight(g)	PCS/bag
BPOC4M5	4	M5X0.8	9	3.5	18.5	14	2	4.4	10
BPOC401		PT1/8	10	7.5	17.5	14	2.5	6.6	10
BPOC6M5		M5X0.8	12	3.5	21	16	2	7.1	10
BPOC601	6	PT1/8	12	7.5	21.5	18	4	8.4	10
BPOC602		PT1/4	14	10	21.5	18	4	13.6	10
BPOC801		PT1/8	14	7.5	26	17.5	5	12.3	10
BPOC802	8	PT1/4	14	10	24.5	17.5	6	12.7	10
BPOC1002		PT1/4	17	10	28.5	20.5	6	18.5	10
BPOC1003		PT3/8	17	11	27.5	20.5	8	24.9	10
BPOC1203	12	PT3/8	21	11	29.5	22	8	30.4	10
BPOC1204		PT1/2	21	14	31.5	22	8	42.4	10

BPCF Series



Model\Item	ΦD	R	ΦP	L	C	K	H	Weight(g)	PCS/bag
BPCF401	4	PT1/8	9.5	8	23	14	14	5.3	10
BPCF601		PT1/8	12.5	8	25	16	14	7.2	10
BPCF602		PT1/4	12.5	11	28	16	17	9.2	10
BPCF801	8	PT1/8	14	8	27	18	14	7.1	10
BPCF802		PT1/4	14.5	11	30	18	17	10.6	10
BPCF1002		PT1/4	17	11	32.5	20.5	17	13.5	10
BPCF1003	10	PT3/8	18	12	33.5	20.5	21	17.5	10
BPCF1203		PT3/8	21	12	35	22	21	22	10
BPCF1204		PT1/2	21	13.5	36.5	22	25	24.9	10

BPMF Series



Model\Item	ΦD	R	M	L	C	K	LA	E	GA	G	H	Weight(g)	PCS/bag
BPMF401	4	PT1/8	M12X1	8	25	14	12	4	4	14	14	7.6	10
BPMF601		PT1/8	M14X1	8	25	16	12	5	4	17	17	10.4	10
BPMF602		PT1/4	M14X1	11	30	16	12	5	4	17	17	12.2	10
BPMF801	8	PT1/8	M16X1	8	27	18	13	5.5	4	19	19	13.9	10
BPMF802		PT1/4	M16X1	11	31.5	18	13	5.5	4	19	19	15.3	10
BPMF1002		PT1/4	M20X1	11	34.5	20.5	14	7.5	5	24	22	26.2	10
BPMF1003	10	PT3/8	M20X1	12	35.5	20.5	14	7.5	5	24	22	24.4	10
BPMF1203		PT3/8	M22X1	12	37	22	15	8	6	27	24	32.6	10
BPMF1204		PT1/2	M22X1	13.5	38.5	22	15	8	6	27	25	31.8	10

One-touch fittings—threaded type

Ordering code

BB 01 01 □

1 2 3 4

① Model	② Thread connection I	③ Thread connection II	④ Thread type
BB: Male connector 	BD: Male & female connector[Note1] 	BU: Double female connector 	BZ: Hexagon head cap plug[Note2]
	01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"	01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"	Blank: PT

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

Specification

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

Product feature

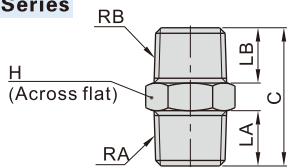
1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance bear the same flow with the volume of the tube innerdiameter.
3. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.
4. Metal fittings can be used in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

Configuration table of tubing thread

Product series	Thread connection I	Thread connection II			
		01	02	03	04
BB	01	●	●	●	
	02		●	●	●
	03			●	●
	04				●
BD	01		●	●	●
	02			●	●
	03				●
	04				
BU	01	●			
	02		●		
	03			●	
	04				●
Product series	Thread connection				
	01	02	03	04	
BZ	●	●	●	●	

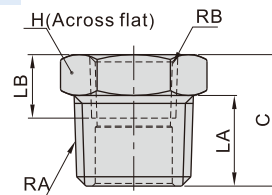
Dimensions

BB Series



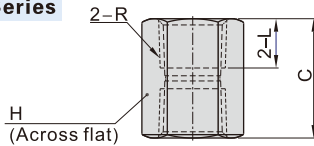
Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
BB0101	PT1/8	PT1/8	7.5	7.5	19.5	10	6.6	10
BB0102	PT1/4	PT1/8	10	7.5	22.5	14	12.1	10
BB0103	PT3/8	PT1/8	11	7.5	24	17	18.3	10
BB0202	PT1/4	PT1/4	10	10	25	14	14.6	10
BB0203	PT3/8	PT1/4	11	10	26.5	17	20.3	10
BB0204	PT1/2	PT1/4	14	10	30	21	34.3	10
BB0303	PT3/8	PT3/8	11	11	27.5	17	23.2	10
BB0304	PT1/2	PT3/8	14	11	31	21	36.2	10
BB0404	PT1/2	PT1/2	14	14	34	21	42.8	10

BD Series



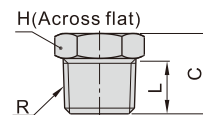
Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
BD0102	PT1/4	PT1/8	10	8	14.5	14	8.8	10
BD0103	PT3/8	PT1/8	11	8	16	17	17.1	10
BD0104	PT1/2	PT1/8	14	8	19.5	21	33.1	10
BD0203	PT3/8	PT1/4	11	11	16	17	12.7	10
BD0204	PT1/2	PT1/4	14	11	19.5	21	29.9	10
BD0304	PT1/2	PT3/8	14	12	19.5	21	22.5	10

BU Series



Model\Item	R	L	C	H	Weight(g)	PCS/bag
BU0101	PT1/8	8	17	12	8.4	10
BU0202	PT1/4	11	23	17	25.4	10
BU0303	PT3/8	12	25	21	40	10
BU0404	PT1/2	13.5	28	24	46.6	10

BZ Series



Model\Item	R	L	C	H	Weight(g)	PCS/bag
BZ01	PT1/8	7.5	11	10	4.6	10
BZ02	PT1/4	10	14.5	14	10.8	10
BZ03	PT3/8	11	16	17	17.4	10
BZ04	PT1/2	14	19.5	21	33	10

One-touch fittings—threaded type

Ordering code

BKC 06 04 - 01 □

① ② ③ ④ ⑤

① Model	② Tubing outer diameter	③ Tubing inner diameter	④ Thread connection	⑤ Thread type
BKC: Straight locknut connector 	04: Φ4mm 06: Φ6mm 08: Φ8mm 10: Φ10mm 12: Φ12mm	25: Φ2.5mm 04: Φ4mm 05: Φ5mm 06: Φ6mm 65: Φ6.5mm 75: Φ7.5mm 08: Φ8mm 09: Φ9mm	01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"	Blank: PT

Note: When using the tubing Φ8×Φ5.5, the straight lock nut connector of BKC0806can be used.

Specification

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

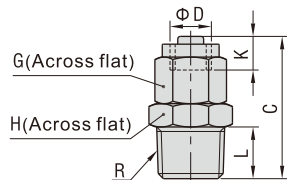
Note: The temperature resistance level of the tubing should be confirmed first when used in high temperature environments.

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

BKC Series



Model\Item	ΦD		R	L	C	K	G	H	Weight (g)	PCS/bag
	O.D	I.D								
BKC0425-01	4	2.5	PT1/8	7.5	20.5	5	8	10	7.1	10
BKC0604-01	6	4	PT1/8	7.5	22	5.5	10	10	9.9	10
BKC0604-02			PT1/4	10	25.5			14	15.8	10
BKC0604-03			PT3/8	11	27			17	22.5	10
BKC0805-01	8	5	PT1/8	7.5	24	6.5	12	12	12.8	10
BKC0805-02			PT1/4	10	27.5			14	17.2	10
BKC0805-03			PT3/8	11	29			17	23.7	10
BKC0806-01		5.5 or 6	PT1/8	7.5	24			12	13.1	10
BKC0806-02			PT1/4	10	27.5			14	17.2	10
BKC0806-03			PT3/8	11	29			17	23.6	10

Model\Item	R	ΦD		L	C	K	G	H	Weight (g)	PCS/bag
		O.D	I.D							
BKC1065-02	PT1/4	10	6.5	10	30	7.5	15	15	25.3	10
BKC1065-03	PT3/8			11	31.5			17	29.1	10
BKC1065-04	PT1/2			14	35.5			21	44	10
BKC1075-02	PT1/4		7.5 or 8	10	30			15	24.1	10
BKC1075-03	PT3/8			11	31.5			17	28.9	10
BKC1075-04	PT1/2			14	35.5			21	43.6	10
BKC1208-02	PT1/4	12	8	10	30	7.5	17	17	30.5	10
BKC1208-03	PT3/8			11	31.5			17	32.1	10
BKC1208-04	PT1/2			14	35.5			21	46.7	10
BKC1209-02	PT1/4		9 or 10	10	30			17	30.6	10
BKC1209-03	PT3/8			11	31.5			17	31.9	10
BKC1209-04	PT1/2			14	35.5			21	46.4	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.

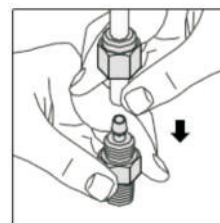


Figure 1

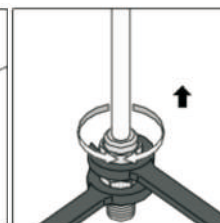


Figure 2

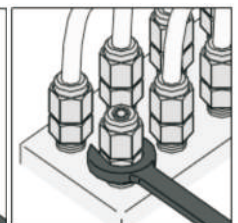


Figure 3

Ordering code

BSL 01 □

① ② ③

① Silencer Type	② Thread connection	③ Standard color												
BSL: Universal silencer BSLM: Mini Silencer BESL: Throttling silencer PAL: Plastic silencer PALM: Mini plastic Silencer	01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2"	<table border="1"> <tr> <th>Type</th><th>Color code</th><th>Color definition</th></tr> <tr> <td>PAL、PALM</td><td>Blank: grey</td><td>Top cover: grey/Body: gray</td></tr> <tr> <td></td><td>D: Black</td><td>Top cover: black/Body: black</td></tr> <tr> <td>Others</td><td>No such code</td><td></td></tr> </table>	Type	Color code	Color definition	PAL、PALM	Blank: grey	Top cover: grey/Body: gray		D: Black	Top cover: black/Body: black	Others	No such code	
Type	Color code	Color definition												
PAL、PALM	Blank: grey	Top cover: grey/Body: gray												
	D: Black	Top cover: black/Body: black												
Others	No such code													

Product feature

BSL、BSLM、BESL Series:

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.

PAL Series、PALM Series:

1. The silencer body is made of plastic.
2. The mini type silencer has the characteristics of small volume and compact structure.

Configuration table of tubing thread

Product series	Thread connection			
	01	02	03	04
BSL	●	●	●	●
BSLM	●	●	●	●
BESL	●	●	●	●
PAL	●	●	●	●
PALM	●	●		

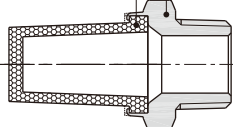
Specification

Model		BSL01	BSL02	BSL03	BSL04		BSLM01	BSLM02	BSLM03	BSLM04
Thread connection		1/8"	1/4"	3/8"	1/2"		1/8"	1/4"	3/8"	1/2"
Silencing effect(dB)(0.5MPa)		20	20	20	12		20	20	20	20
Model	BESL01	BESL02	BESL03	BESL04	PAL01	PAL02	PAL03	PAL04	PALM01	PALM02
Thread connection	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"
Silencing effect(dB)(0.5MPa)	20	20	20	20	25	25	25	25	25	25
Operating pressure	0~10kgf/cm ² (0~1.0MPa)									
Negative pressure	-750mmHg(10Torr)									
Proof pressure	1.5MPa									
Temperature range	-20~70℃									

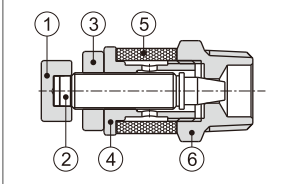
Inner structure

BSL Series

Sound absorbing cover
Copper particle sintered



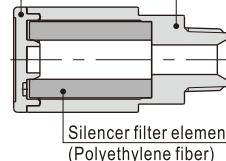
BESL Series



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

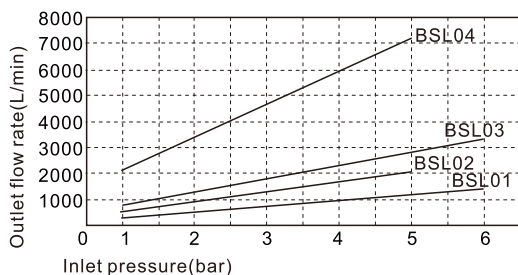
PAL Series

Silencer top cover (POM)
Silencer body (POM)

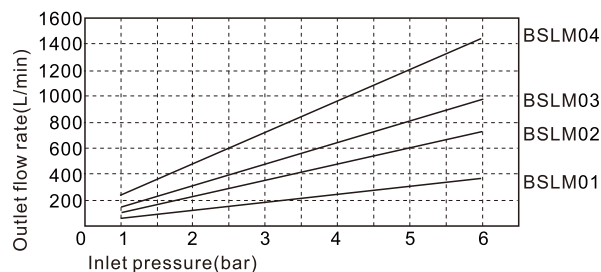


Flowrate characteristic

BSL Series



BSLM Series

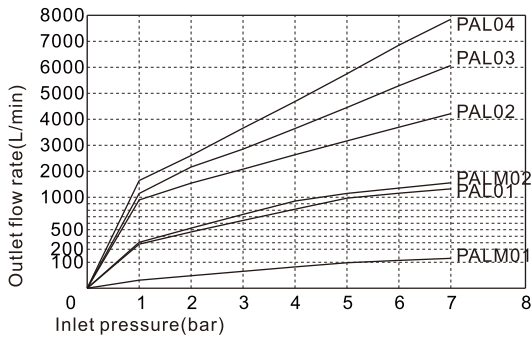


Accessories——Silencers

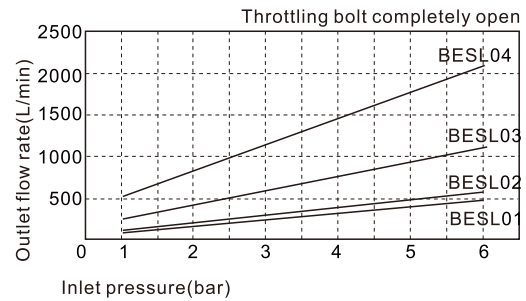
BSL, BSLM, BESL, PAL, PALM series

Flowrate characteristic

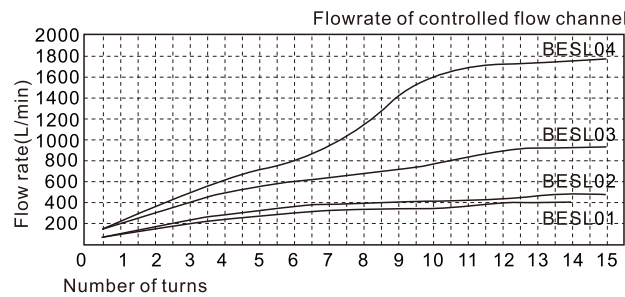
PAL、PALM Series



BESL Series (Inlet pressure and outlet flow rate)

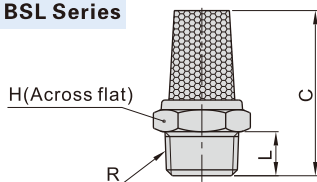


BESL Series



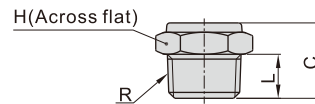
Dimensions

BSL Series



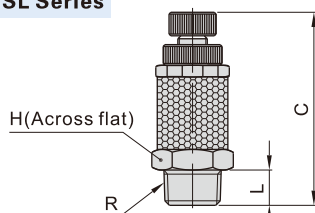
Model\Item	R	L	C	H	Weight(g)	PCS/bag
BSL01	PT1/8	6	24	12	6.7	10
BSL02	PT1/4	8	30	15	11.6	10
BSL03	PT3/8	9	38.5	19	22	10
BSL04	PT1/2	10.5	46	22	35	10

BSLM Series



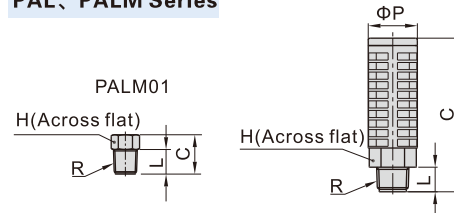
Model\Item	R	L	C	H	Weight(g)	PCS/bag
BSLM01	PT1/8	6	11	12	4.3	10
BSLM02	PT1/4	8	13.5	15	8.4	10
BSLM03	PT3/8	9	15.5	19	15.8	10
BSLM04	PT1/2	10.5	19	22	25.9	10

BESL Series



Model\Item	R	L	C		H	Weight(g)	PCS/bag
			max	min			
BESL01	PT1/8	6	40.5	33	12	10	10
BESL02	PT1/4	8	42.5	35	14	18.1	10
BESL03	PT3/8	9	49	41.5	17	31.1	10
BESL04	PT1/2	10.5	59.5	52	24	69.8	10

PAL、PALM Series

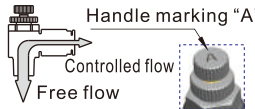
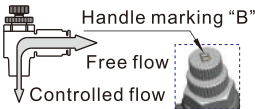


Model\Item	R	ΦP	L	C	H	Weight(g)	PCS/bag
PAL01	PT1/8	16	7	33	14	4.2	10
PALM01	PT1/8	/	10	16	10	0.9	10
PAL02	PT1/4	20	10	62.5	17	10.7	10
PALM02	PT1/4	16	10	36	14	5.1	10
PAL03	PT3/8	26	12	68	24	20	10
PAL04	PT1/2	28	12	73	24	23.1	10

Ordering code

PSL 6 01 A □ □

① ② ③ ④ ⑤ ⑥

① Model	② Port size	③ Thread connection	④ Control method	⑤ Standard color	⑥ Thread type
PSL: Speed controller 	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Thread M5: M5X0.8 Adaptable port size Φ4, Φ6	A: Meter-out 	Standard color Blank: Gray Release button: Gray Body: Gray	Blank: PT
PSS: Universal speed controller 		01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2" Φ4, Φ6 Φ8, Φ10 Φ12	B: Meter-in 	D: Black Release button: Black Body: Black	

Specification

Operating pressure range	0~10kgf/cm ² (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

1. The silencer is small size, and light weight with small installation space.
2. Excellent flow characteristics, high sensitivity and easy to adjust.
3. The silencer brass body adopts a special nickel-plating process, which has good corrosion resistance and anti-pollution property.
4. Anti-drop structure is designed on the regulating rod.
5. The sealant being coated on threaded portion can ensure no leakage of the threaded connection part.
6. The inserting direction of universal speed controller can be adjusted in 360°.

Symbol

Meter-out (A)



Meter-in (B)

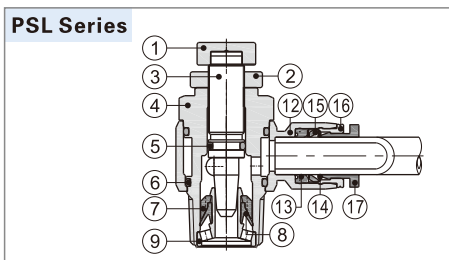


Table for interface port and tube O.D.

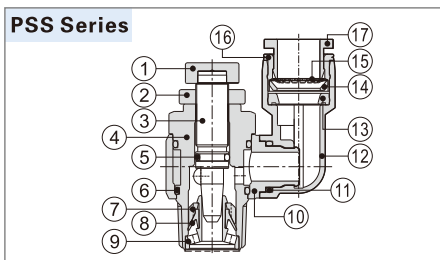
Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PSL	M5	●	●			
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
	1/2"			●	●	●
PSS	1/8"		●	●		
	1/4"		●	●	●	
	3/8"				●	●
	1/2"					●

Inner structure

PSL Series



PSS Series

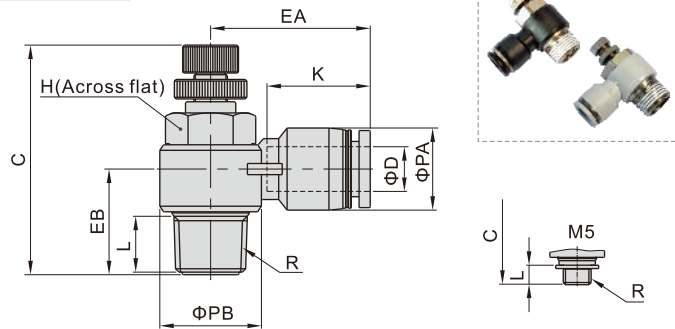


NO.	Name	Material	NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	Aluminum alloy	7	Holder	PBT	13	O-ring	NBR
2	Locking cap	Aluminum alloy	8	O-ring	NBR	14	Locating seat	POM
3	Throttling column	Brass	9	Throttling sleeve	Aluminum alloy/Brass	15	Spring gasket	Stainless steel
4	Throttling body	Brass	10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

PSL, PSS series

Dimensions

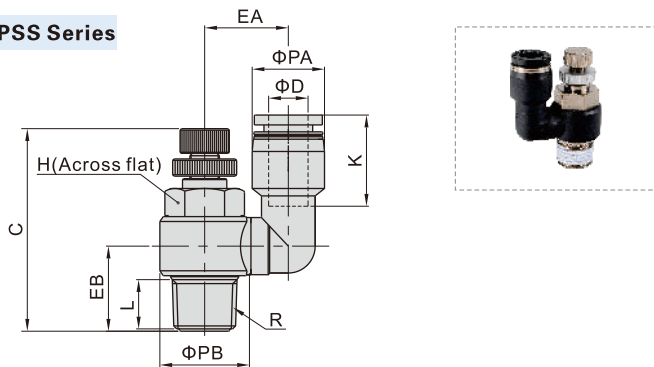
PSL Series



Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						max	min						
PSL4M5□	4	M5×0.8	9	10	3.5	30	27.5	14	19	9.5	8	6.5	2
PSL401□		PT1/8	9	14	7.5	41.5	35	14	20.5	15	11	16.5	2
PSL6M5□	6	M5×0.8	12.5	10	3.5	30	27.5	16.5	23.5	11.5	8	8	2
PSL601□		PT1/8	12.5	14	7.5	41.5	35	16.5	23	15.5	11	17.5	2
PSL602□		PT1/4	12.5	18	10	47.5	41	16.5	25	18	14	32	2
PSL603□	8	PT3/8	12.5	22.5	11	52.5	45.5	16.5	27	20	19	59.5	2
PSL801□		PT1/8	15	14	7.5	41.5	35	18.5	26.5	16.5	11	18	2
PSL802□		PT1/4	15	18	10	47.5	41	18.5	28.5	19	14	33	2
PSL803□		PT3/8	15	22.5	11	52.5	45.5	18.5	29.5	20	19	60	2
PSL804□	10	PT1/2	15	28	14	58.5	51.5	18.5	32	25	24	96.5	2
PSL1002□		PT1/4	18	18	10	47.5	41	21	31	20.5	14	34.5	2
PSL1003□		PT3/8	18	22.5	11	52.5	45.5	21	33	21.5	19	62	2
PSL1004□	12	PT1/2	18	28	14	58.5	51.5	21	35.5	25.5	24	98	2
PSL1203□		PT3/8	21	22.5	11	52.5	45.5	23	36	23.5	19	64	2
PSL1204□		PT1/2	21	28	14	58.5	51.5	23	38	27	24	100	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.

PSS Series

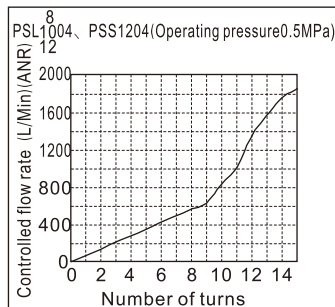
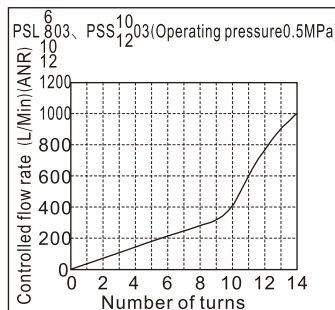
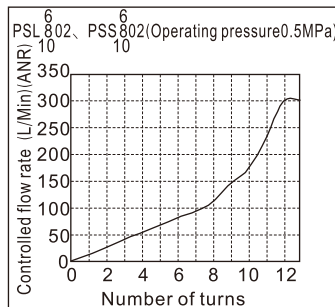
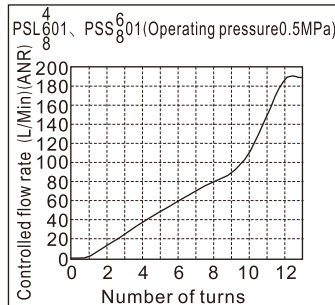
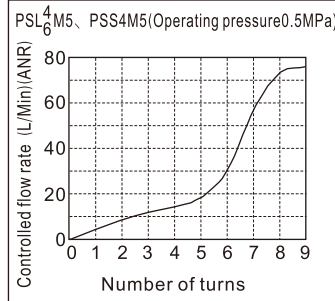


Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						max	min						
PSS601□	6	PT1/8	12.5	14	7.5	41.5	35	17	17	15	11	19	2
PSS602□		PT1/4	12.5	18	10	47.5	41	17	19	17.5	14	34.7	2
PSS801□	8	PT1/8	15	14	7.5	41.5	35	18.5	17	15	11	20.2	2
PSS802□		PT1/4	15	18	10	47.5	41	18.5	19	17.5	14	39.8	2
PSS1002□	10	PT1/4	18	18	10	47.5	41	21	20.5	17.5	14	37.2	2
PSS1003□		PT3/8	18	22.5	11	52.5	45.5	21	24	20	19	66	2
PSS1203□	12	PT3/8	21	22.5	11	52.5	45.5	23	25.5	20	19	69.2	2
PSS1204□		PT1/2	21	28	14	58.5	51.5	23	28	25	24	105.8	2

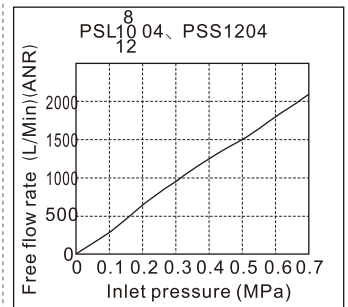
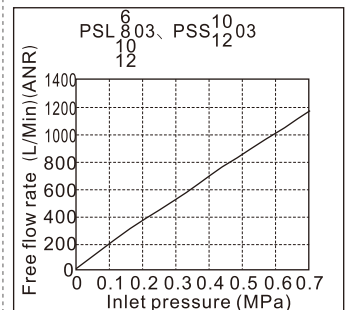
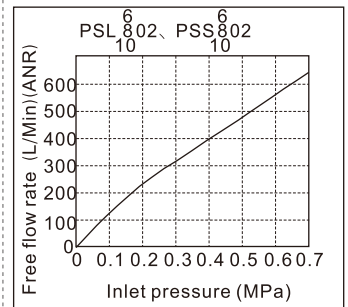
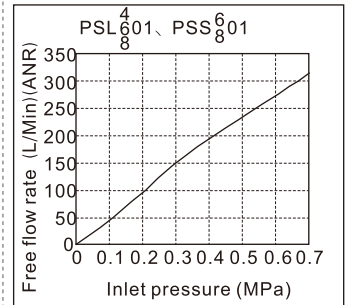
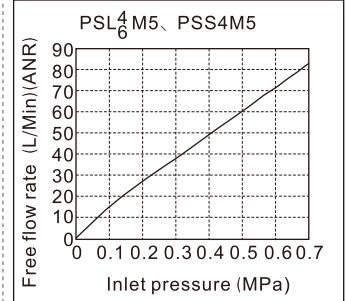
[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

Flowrate characteristic

Controlled flow rate



Free flow rate



Selection, Installation and Operation

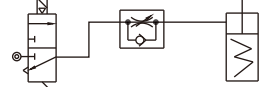
Selection

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

	Working principle	Product identification
 Controlled flow Free flow	A: Meter-out 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.	Handle marking "A" 
 Free flow Controlled flow	B: Meter-in 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.	Handle marking "B" 

- 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

Solenoid valve	Double acting cylinder	Solenoid valve	Single acting cylinder
 Meter-out speed controller		 Meter-in speed controller	

Installation

- Installation and removal of tubing:

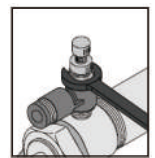
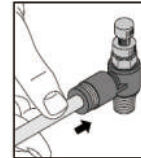
1.1. Installation of tubing

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.



- Mounting of the speed controller

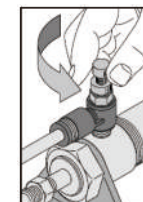
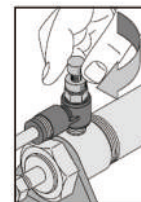
Mount the speed controller into the inlet and outlet port of the cylinder with a wrench.

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

Operation

- 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.



- 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.

PTL Mini series

Ordering code

PTL 6 01 A □ □ -M

① ② ③ ④ ⑤ ⑥ ⑦

① Model	② Port size	③ Thread connection	④ Control method	⑤ Standard color		⑥ Thread type	⑦ Style
PTL: Speed controller (Push lock)	4: Φ4mm 6: Φ6mm	01: 1/8"	A: Meter-out B: Meter-in	Standard color	Specification	Blank: PT	M: Mini type
				Blank: Gray	Release button: Gray Body: Gray		
				D: Black	Release button: Black Body: Black		

Specification

Operating pressure range	0~10kgf/cm²(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

Meter-out (A)



Meter-in (B)



Selection, Installation and Operation

- 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)
1/8"	0.08

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

Product feature

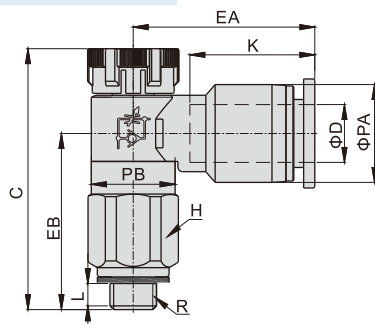
- Compare with standard speed controller, smaller size, lighter weight, suitable for more occasions.
- Effectively control the action speed and the pressure signal transmission from pneumatic device.
- Simple push-lock, operation.
- Adjust quickly, easily and accurately.
- Excellent flow rate characteristic, 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.
- The sealant being coated on threaded portion can ensure no leakage of the threaded connection part.

Table for interface port and tube O.D.

Product series	Thread type	Port size	
		Φ4	Φ6
PTL	1/8"	●	●

Dimensions

PTL Mini series



Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						Pull	Push						
PTL401□-M	4	PT1/8	8.5	9	3.5	29.5	28	12.5	16.5	19	10	11	2
PTL601□-M	6	PT1/8	10.5	9	3.5	29.5	28	13.5	19.5	19	10	12	2

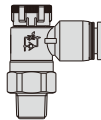
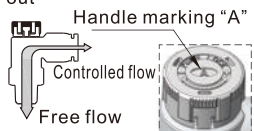
[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

PTL series

Ordering code

PTL 6 01 A □ □

1 2 3 4 5 6

①Model	②Port size	③Thread connection	④Control method	⑤Standard color		⑥Thread type
 PTL: Speed controller (Push lock)	6: Φ6mm	01: 1/8" 02: 1/4" 03: 3/8"	A: Meter-out 	Standard color	Specification	Blank: PT
	8: Φ8mm	01: 1/8" 03: 3/8"	02: 1/4" 04: 1/2"	Blank: Gray	Release button: Gray Body: Gray	
	10: Φ10mm	02: 1/4" 03: 3/8" 04: 1/2"	B: Meter-in 	D: Black	Release button: Black Body: Black	
	12: Φ12mm	03: 3/8" 04: 1/2"				

Specification

Operating pressure range	0~10kgf/cm²(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

1. Compare with standard speed controller, smaller size, lighter weight, suitable for more occasions.
2. Effectively control the action speed and the pressure signal transmission from pneumatic device.
3. Simple push-lock, operation.
4. Adjust quickly, easily and accurately.
5. Excellent flow rate characteristic, high sensitivity and easy to adjust.
6. Options of Meter-out and meter-in, applicable for every type actuator.
7. Effectively prevent from corrosion and pollution by nickel plated copper.
8. The sealant being coated on threaded portion can ensure no leakage of the threaded connection part.

Symbol

Meter-out (A)



Meter-in (B)



Table for interface port and tube O.D.

Product series	Thread type	Port size			
		Φ6	Φ8	Φ10	Φ12
PTL	1/8"	●	●		
	1/4"	●	●	●	
	3/8"	●	●	●	●
	1/2"		●	●	●

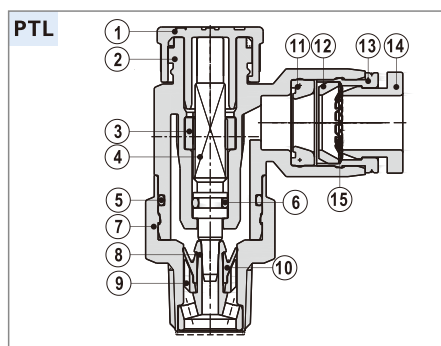
Selection, Installation and Operation

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)
1/8"	0.08
1/4"	0.16
3/8"	0.24
1/2"	0.32

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

Inner structure

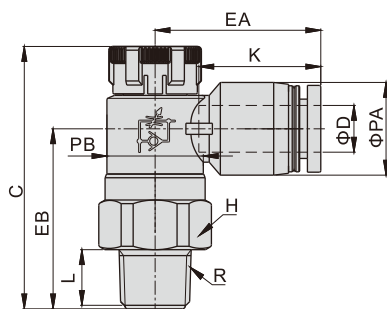


NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	POM	9	Holder	PBT
2	Plastic body	PBT	10	O-ring	NBR
3	Locating ring	Aluminum alloy	11	O-ring	NBR
4	Throttling column	Aluminum alloy	12	Locating seat	POM
5	O-ring	NBR	13	Locating ring	Aluminum alloy
6	O-ring	NBR	14	Plastic interface	POM
7	Throttling body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

PTL series

Dimensions

PTL Series

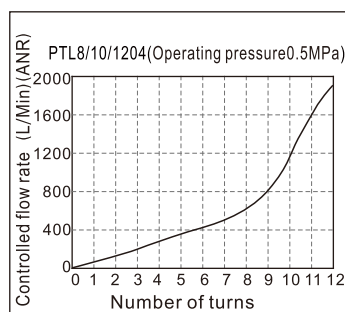
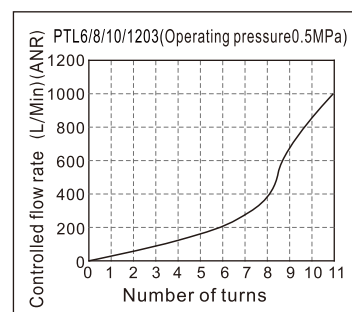
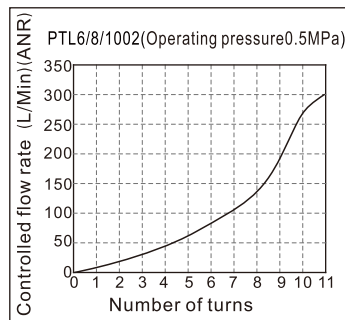
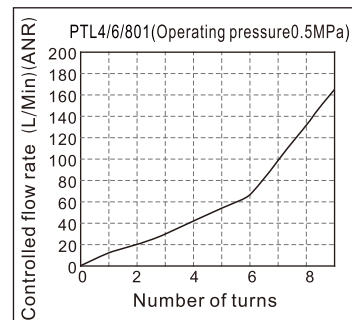
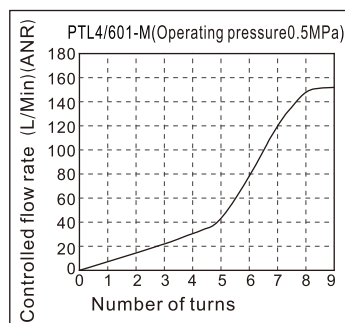


Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)	PCS/bag
						Pull	Push						
PTL601□	6	PT1/8	12.5	13	8.5	36	34.5	16.5	22.5	23.5	14	12.5	2
PTL602□		PT1/4	12.5	16.5	11	40.5	39	16.5	24	28	17	19.5	2
PTL603□		PT3/8	12.5	19	12	44	42.5	16.5	25.5	31	19	28.5	2
PTL801□	8	PT1/8	15	13	8.5	36	34.5	18.5	24.5	22.5	14	13	2
PTL802□		PT1/4	15	16.5	11	40.5	39	18.5	26	27	17	20.5	2
PTL803□		PT3/8	15	19	12	44	42.5	18.5	27	30	19	29	2
PTL804□	10	PT1/2	15	24	15	52.5	51	18.5	29.5	37.5	24	49	2
PTL1002□		PT1/4	18	16.5	11	40.5	39	21	31	26	17	22	2
PTL1003□		PT3/8	18	19	12	44	42.5	21	29	29	19	30.5	2
PTL1004□	12	PT1/2	18	24	15	52.5	51	21	31.5	36.5	24	50.5	2
PTL1203□		PT3/8	21	19	12	44	42.5	23	34.5	28	19	32.5	2
PTL1204□		PT1/2	21	24	15	52.5	51	23	34	36	24	53	2

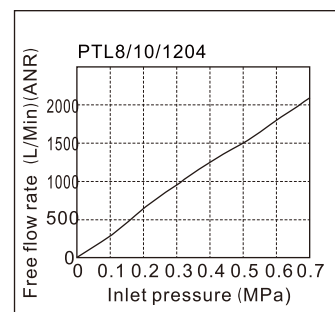
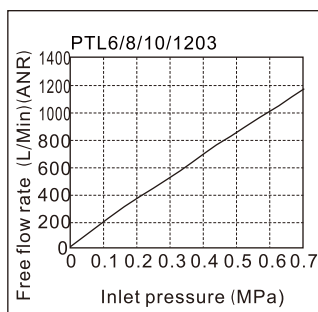
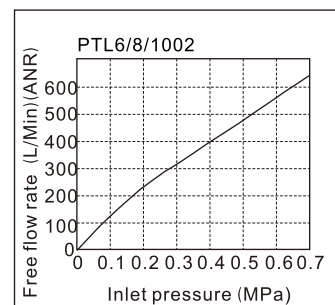
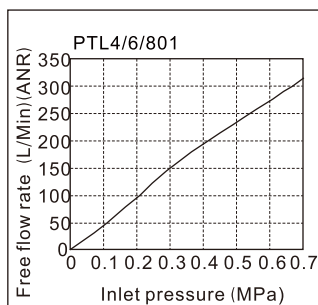
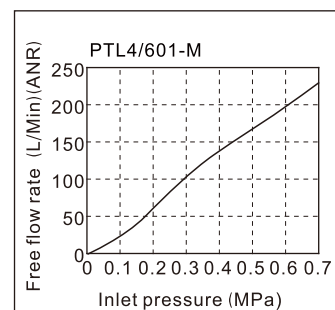
[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

Flowrate characteristic

Controlled flow rate



Free flow rate



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