

Accessories——One-Touch Fittings

One-touch fittings——threaded type

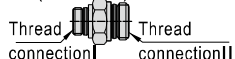
Ordering code

GBB 01 01

① ② ③

① Model

GBB: Male connector
(G thread)



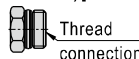
GBD: Male & female
connector(G thread)[Note1]



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

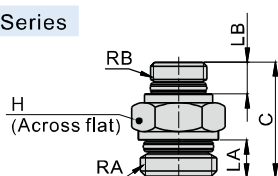
1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance bear the same flow with the volume of the tube innerdiameter.
3. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.
4. Nickle plated mental body is resistant to corrosion and pollution, which has wider range of application.

Configuration table of tubing thread

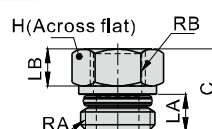
Product series	Thread connection I	Thread connection II			
		01	02	03	04
GBB	01	●	●	●	
	02		●	●	●
	03			●	●
	04				●
GBD	01		●	●	●
	02			●	●
	03				●
	04				
GBU	01	●			
	02		●		
	03			●	
	04				●
Product series	Thread connection				
	01	02	03	04	
GBZ	●	●	●	●	

Dimensions

GBB Series



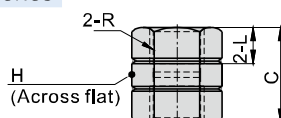
GBD Series



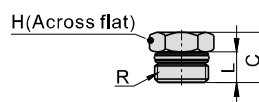
Model\Item	RA	RB	LA	LB	C	H	Weight(g)	PCS/bag
GBB0101	G1/8	G1/8	5.5	5.5	15.5	10	3.2	10
GBB0102	G1/4	G1/8	6.5	5.5	20	14	7.3	10
GBB0103	G3/8	G1/8	7	5.5	21.5	19	15.3	10
GBB0202	G1/4	G1/4	6.5	6.5	21	14	8.4	10
GBB0203	G3/8	G1/4	7	6.5	22.5	19	15.9	10
GBB0204	G1/2	G1/4	8.5	6.5	24.5	22	22.4	10
GBB0303	G3/8	G3/8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

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



GBZ 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

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

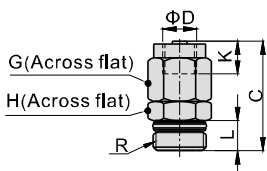
Note: The temperature resistance level of the tubing should be confirmed first when used in high temperature environments.

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



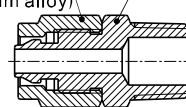
Model\Item	ΦD O.D I.D	R	L	C	K	G	H	Weight (g)	PCS/bag
GBKC0425-M3	4 2.5	M3×0.5	3	17			8	4.4	10
GBKC0425-M5		M5×0.8	3.5	17.5	5	8	8	4.8	10
GBKC0425-01		G1/8	5.5	18.5			10	6.2	10
GBKC0604-01	6 4	G1/8	5.5	20			10	9	10
GBKC0604-02		G1/4	6.5	23.5	5.5	10	14	14.2	10
GBKC0604-03		G3/8	7	25			19	23.1	10
GBKC0805-01	8 5	G1/8	5.5	23.5			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	8 5.5 or 6	G1/8	5.5	23.5	6.5	12	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

Configuration table of tubing and tubing thread

Product series	Tubing outer diameter	Tubing inner diameter	Thread connection					
			M3	M5	01	02	03	04
GBKC	04	25	•	•	•			
	06	04			•	•	•	
	08	05			•	•	•	
		06			•	•	•	
	10	65				•	•	•
		75				•	•	•
	12	08				•	•	•
		09				•	•	•

Inner structure

Locking cap (Aluminum alloy) Body (stainless steel)



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.

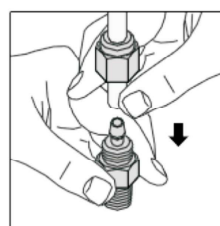


Figure 1

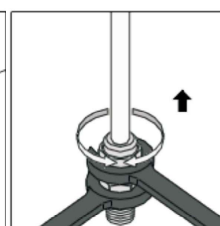


Figure 2

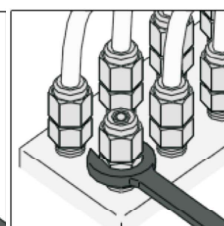


Figure 3

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

Different diameter type fittings

GPEG 6 - 4 □

① ② ③ ④

① Model	② Port size I	③ Port size II	④ Standard color	Specification
GPG: Different diameter straight 	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	4: Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm	Blank: Gray	Release button: Gray Body: Gray
GPZG: Different diameter cross 				
GPEW: Different diameter tee 			D: Black	Release button: Black Body: Black
GPYW: Different diameter union "Y" 				
GPGJ: Plug-in reducer 				
GPEG: Different diameter tee 				
GPKG: Reducer triple branch union 				
GPHK: Universal reducer triple branch union 				
GPHD: Universal reducer four branch union 				

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.

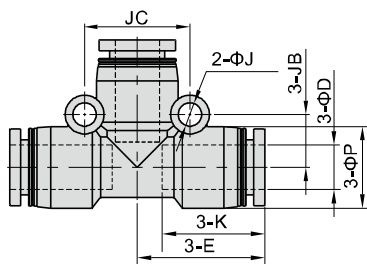
Product series	Port size I	Port size II				
		Φ4	Φ6	Φ8	Φ10	
GPG GPGJ	Φ4					
	Φ6	•				
	Φ8	•	•			
	Φ10		•	•		
	Φ12			•	•	
GPEG GPEW GPYW	Φ4					
	Φ6	•				
	Φ8		•			
	Φ10			•		
	Φ12			•	•	
GPZG	Φ4					
	Φ6	•				
	Φ8		•			
	Φ10			•		
	Φ12				•	
GPKG	Φ4					
	Φ6	•				
	Φ8		•			
	Φ10			•		
	Φ12					
GPHK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

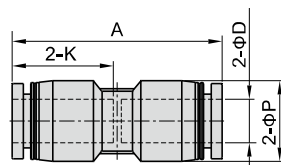
Dimensions

GPE Series



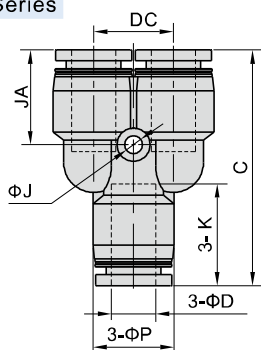
Model\Item	ΦD	ΦP	K	E	ΦJ	JB	JC	Weight(g)	PCS/bag
GPE4	4	9	14	17	3.2	6.5	13	3.1	10
GPE6	6	12.5	16.5	20	3.2	8	16	6.1	10
GPE8	8	15	18.5	23	4.3	9.5	19	8.8	10
GPE10	10	18	21	26.5	4.3	11	22	13.8	10
GPE12	12	21	23	30	4.3	13	26	21	10

GPU Series



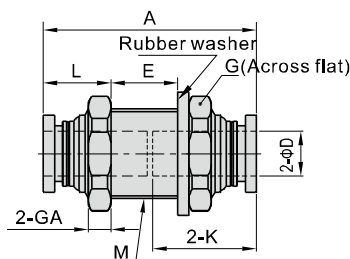
Model\Item	ΦD	ΦP	K	A	Weight(g)	PCS/bag
GPU4	4	9	14	29.5	1.7	10
GPU6	6	12.5	16.5	34	3.6	10
GPU8	8	15	18.5	38.5	5	10
GPU10	10	18	21	43	8.1	10
GPU12	12	21	23	47	12	10

GPY Series



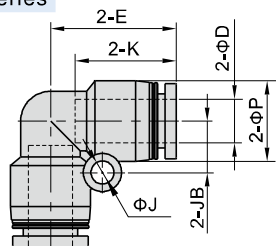
Model\Item	ΦD	ΦP	C	K	ΦJ	JA	DC	Weight(g)	PCS/bag
GPY4	4	9	31.5	14	3.2	13	10	3	10
GPY6	6	12.5	37	16.5	3.2	15.5	12	6	10
GPY8	8	15	42.5	18.5	3.2	17	14.5	8.6	10
GPY10	10	18	48.5	21	4.3	19.5	18	14	10
GPY12	12	21	54.5	23	4.3	21	20.5	21.2	10

GPM Series



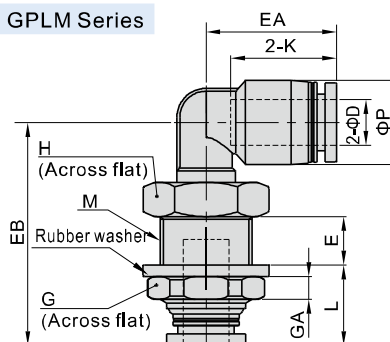
Model\Item	ΦD	M	A	K	L	E	GA	G	Weight(g)	PCS/bag
GPM4	4	M12X1	29	14	10	7	4	14	6.2	10
GPM6	6	M14X1	34	16.5	10.5	11	4	17	9.5	10
GPM8	8	M16X1	38	18.5	11.5	13	4	19	15.7	10
GPM10	10	M20X1	43	21	12.5	16	5	24	22.5	10
GPM12	12	M22X1	46.5	23	13.5	17.5	6	27	29.5	10

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



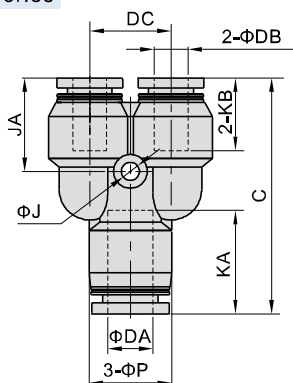
Model\Item	ΦD	ΦP	M	L	E	K	EA	EB	GA	G	H	Weight(g)	PCS/bag
GPLM4	4	9	M12X1	12	7.5	14	17	31	4	14	14	7.5	10
GPLM6	6	12.5	M14X1	12.5	8.5	17	20	35.5	4	17	17	12.1	10
GPLM8	8	15	M16X1	13.5	9	18.5	23	39	4	19	19	16.6	10
GPLM10	10	18	M20X1	14.5	11	21	25.5	44.5	5	24	22	26.2	10
GPLM12	12	21	M22X1	15.5	11	23	29.5	48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

Accessories—One-Touch Fittings

AirTAC

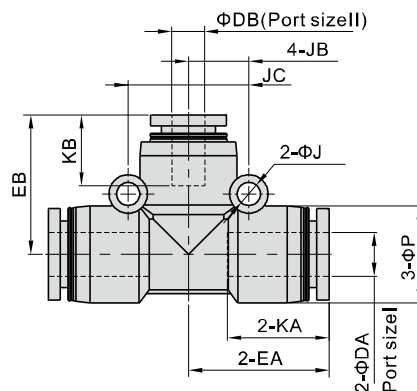
One-touch fittings—tube-tube type

GPYW Series



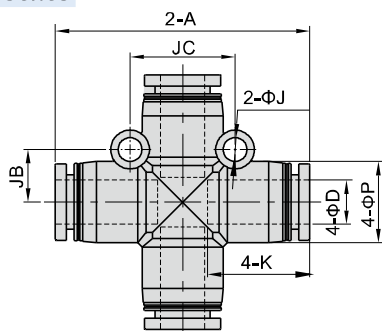
Model\Item	ΦDA	ΦDB	C	ΦP	KA	KB	ΦJ	JA	DC	Weight(g)	PCS/bag
GPYW6-4	6	4	36.5	12.5	16.5	14	3.2	15	12	5.8	10
GPYW8-6	8	6	42	15	18.5	16.5	3.2	16.5	14.5	9.1	10
GPYW10-8	10	8	48.5	18	21	18.5	4.3	19	18	14.1	10
GPYW12-8	12	8	54	21	23	18.5	4.3	20.5	20.5	22.3	10
GPYW12-10	12	10	54.5	21	23	21	4.3	21	20.5	21.7	10

GPEG Series



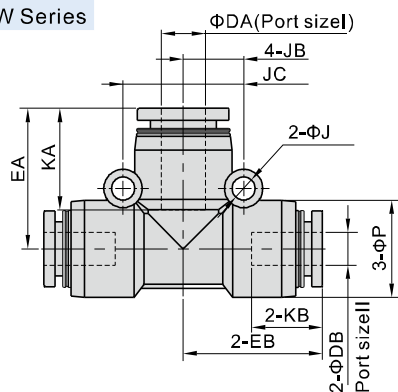
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB	JC	Weight(g)	PCS/bag
GPEG6-4	6	4	12.5	16.5	14	20.0	19.5	3.2	8	16	7	10
GPEG8-6	8	6	15	18.5	16.5	22.5	22	4.3	9.5	19	22.8	10
GPEG10-8	10	8	18	21	18.5	25.5	25.5	4.3	11	22	15.1	10
GPEG12-8	12	8	21	23	18.5	29	28.5	4.3	13	26	22	10
GPEG12-10	12	10	21	23	21	29	29	4.3	13	26	21.5	10

GPZ Series



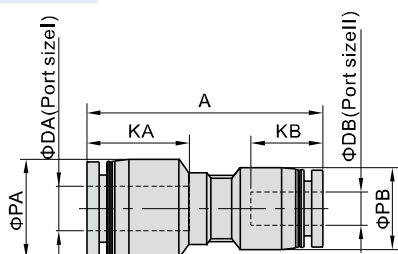
Model\Item	ΦD	A	ΦP	K	ΦJ	JB	JC	Weight(g)	PCS/bag
GPZ4	4	34	9	14	3.2	6.5	13	3.9	10
GPZ6	6	39.5	12.5	16.5	3.2	8	16	7.9	10
GPZ8	8	46	15	18.5	4.3	9.5	19	11.1	10
GPZ10	10	52.5	18	21	4.3	11	22	17.5	10
GPZ12	12	59.5	21	23	4.3	13	26	26.6	10

GPEW Series



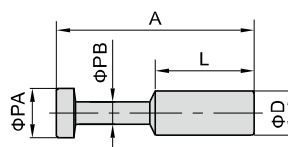
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB	JC	Weight(g)	PCS/bag
GPEW6-4	6	4	12.5	16.5	14	20	19.5	3.2	8	16	7	10
GPEW8-6	8	6	15	18.5	16.5	22.5	22	4.3	9.5	19	22.8	10
GPEW10-8	10	8	18	21	18.5	25.5	25.5	4.3	11	22	15.1	10
GPEW12-8	12	8	21	23	18.5	29	28.5	4.3	13	26	22	10
GPEW12-10	12	10	21	23	21	29	29	4.3	13	26	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



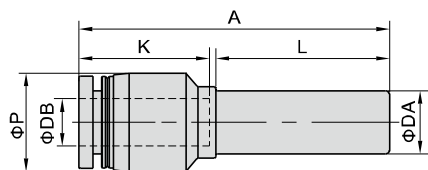
Model\Item	ΦD	ΦPA	ΦPB	L	A	Weight(g)	PCS/bag
GPP4	4	5	3	15	27.5	0.7	10
GPP6	6	7	3	17	32	0.9	10
GPP8	8	9	4	18	36	1.6	10
GPP10	10	11	5	20	42	2.5	10
GPP12	12	13	6	23	44	4.3	10



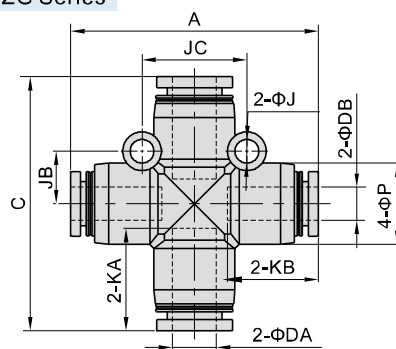
Accessories——One-Touch Fittings

One-touch fittings—tube-tube type

GPGJ Series



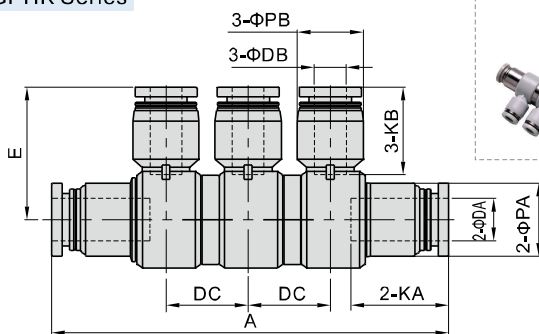
GPZG Series



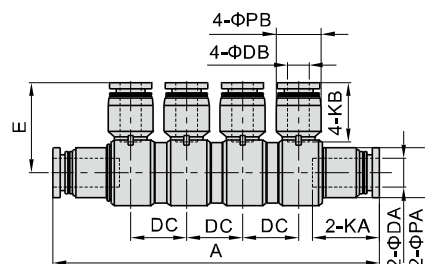
Model\Item	ΦDA	ΦDB	ΦP	K	L	A	Weight(g)	PCS/bag
GPGJ6-4	6	4	9	14	21	35	1.5	10
GPGJ8-4	8	4	12.5	14	22	39	2.6	10
GPGJ8-6	8	6	12.5	16.5	22	39.5	3.2	10
GPGJ10-6	10	6	15	16.5	25	44	4.1	10
GPGJ10-8	10	8	15	18.5	25	44.5	3.9	10
GPGJ12-8	12	8	18	18.5	26	48.5	6.2	10
GPGJ12-10	12	10	18	21	26	49	6	10

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

GPHK Series



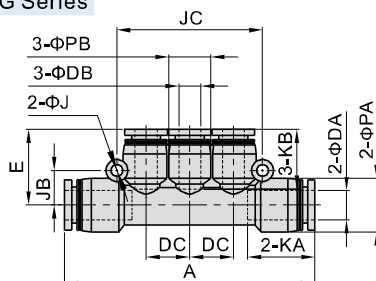
GPHD Series



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

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