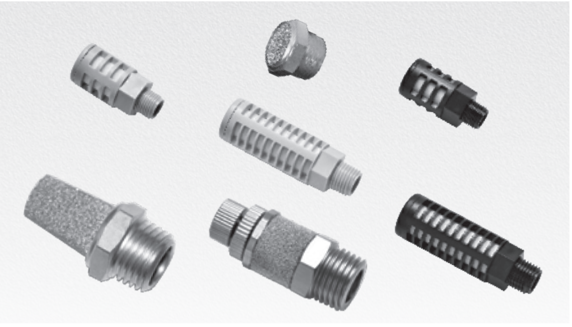
Accessories——Silencers

BSL, BSLM, BESL, PAL, PALM series



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 exhauct flow of the throttling type silencer.

PAL , PALM series

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

Ordering code

BSL 01 □

Silencer Type

BSL: Universal silencer
BSLM: Mini Silencer
BESL: Throttling silencer
PAL: Plastic silencer
PALM: Mini plastic Silencer

Thread connection

M5: M5 × 0.8
01: 1/8"
02: 1/4"
03: 3/8"
04: 1/2"

Standard color

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	

Configuration table of tubing thread.

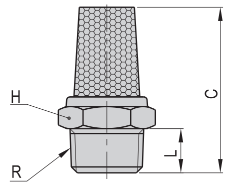
Product series	Thread connection				
	M5	01	02	03	04
BSL	●	●	●	●	●
BSLM	●	●	●	●	●
BESL		●	●	●	●
PAL		●	●	●	●
PALM		●	●		

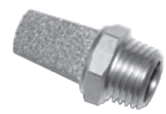
Specification

Model	BSLM5	BSL01	BSL02	BSL03	BSL04	BSLMM5	BSLM01	BSLM02	BSLM03	BSLM04
Thread connection	M5 × 0.8	1/8"	1/4"	3/8"	1/2"	M5 × 0.8	1/8"	1/4"	3/8"	1/2"
Silencing effect(dB)	15	10	10	10	10	15	12	12	12	12
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)	10	10	10	10	25	25	25	25	25	25
Operating pressure	0~9kgf/cm^2(0~0.9MPa)									
Negative pressure	-750mmHg(10Torr)									
Proof pressure	1.5MPa									
Temperature range	0~60℃									

Dimensions

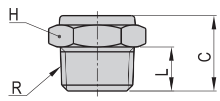
BSL series





Model\Item	R	L	C	H(Across flat)
BSLM5	M5 × 0.8	3.5	19.5	8
BSL01	1/8"	6	24	12
BSL02	1/4"	8	30	15
BSL03	3/8"	9	38.5	19
BSL04	1/2"	12	47.5	22

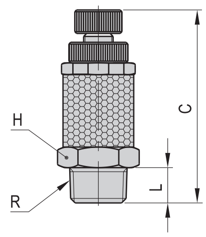
BSLM series



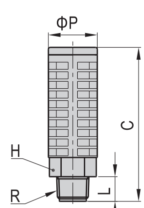
Model\Item	R	L	C	H(Across flat)
BSLMM5	M5 × 0.8	3.5	9.5	8
BSLM01	1/8"	6	11	11
BSLM02	1/4"	8	13.5	15
BSLM03	3/8"	9	15.5	19
BSLM04	1/2"	12	20.5	22

BESL series

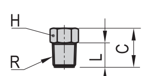
Model\Item	R	L	C		H(Across flat)
			max	min	
BESL01	1/8"	6	40.5	33	12
BESL02	1/4"	8	42.5	35	14
BESL03	3/8"	9	49	41.5	17
BESL04	1/2"	12	61	53.5	24



PAL, PALM series



PALM01



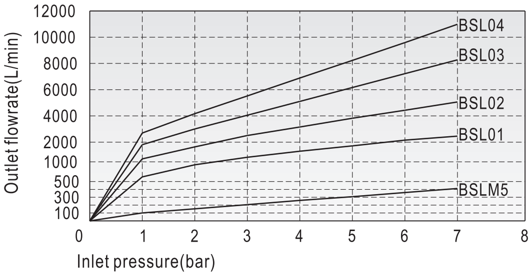
Model\Item	R	ΦP	L	C	H(Across flat)
PAL01	1/8"	16	7	33	14
PALM01	1/8"	–	10	16	10
PAL02	1/4"	20	10	62.5	17
PALM02	1/4"	16	10	36	14
PAL03	3/8"	26	12	68	24
PAL04	1/2"	28	12	73	24

Accessories——Silencers

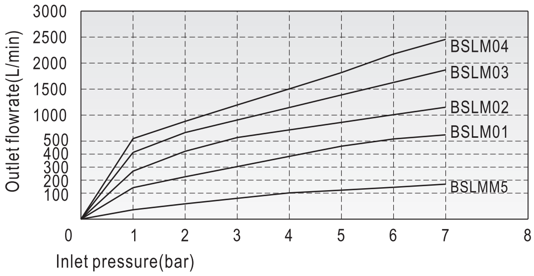
BSL, BSLM, BESL, PAL, PALM series

Flowrate characteristic

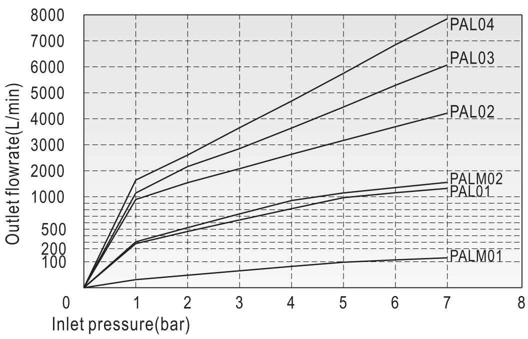
BSL series



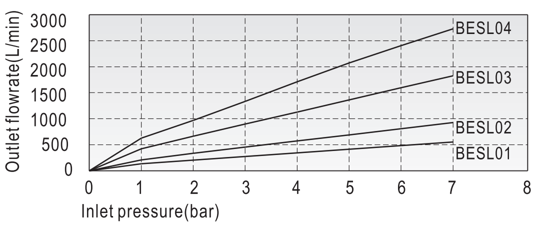
BSLM series



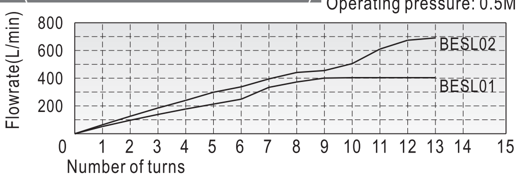
PAL, PALM series

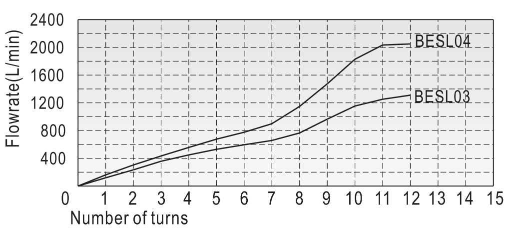


BESL series (inlet pressure and outlet flowrate) Throttling bolt completely open



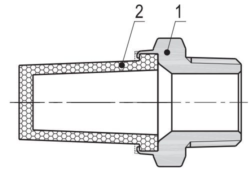
BESL series (Flowrate of controlled flow channel) Operating pressure: 0.5MPa





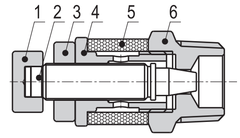
Inner structure

Model:BSL



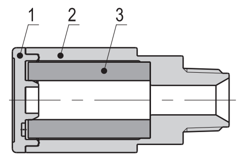
NO.	Name	Material
1	Body	HPb59-1
2	Sound absorbing cover	Copper particle sintered

Model:BESL



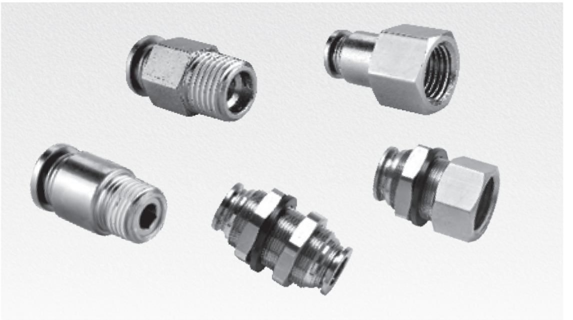
NO.	Name	Material
1	Adjusting cap	Aluminum alloy
2	Throttling column	Aluminum alloy
3	Locking cap	Aluminum alloy
4	Locking ring	Aluminum alloy
5	Silencer ring	Copper particle sintered
6	Silencer body	Brass

Model:PAL



NO.	Name	Material
1	Silencer top cover	POM
2	Silencer body	POM
3	Silencer filter element	Polyethylene fiber

Metal one-touch fittings



■ Specification

Operating pressure	0~9kgf/cm^2(0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Temperature range	0~150℃
Applicable tubing	Nylon or Polyurethane
Color	Grey/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 flowrate 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. The M5 metric 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.

■ Configuration table of tubing inner diameter

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

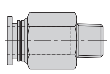
Product series	Port size				
	Φ4	Φ6	Φ8	Φ10	Φ12
BPM	●	●	●	●	●

■ Ordering code

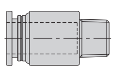
BPC 6 01 □

Model

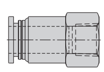
BPC: Metal male connector



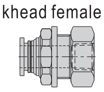
BPOC: Hexagon socket head metal male connector



BPCF: Metal female connector



BPMF: Metal bulkhead female connector



Port size

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"

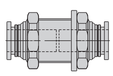
Thread type

Blank: PT

BPM 6

Model

BPM: Metal bulkhead connector

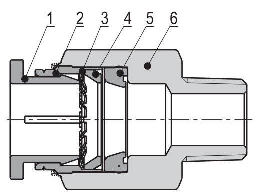


Port size

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

■ Inner structure

Model:BPC



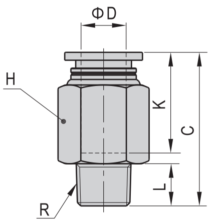
NO.	Name	Material
1	Metal connector	Brass
2	Locating ring	Aluminum alloy
3	Spring gasket	Stainless steel
4	Locating seat	Aluminum alloy
5	Special shape O-ring	Viton
6	Straight connector body	Brass

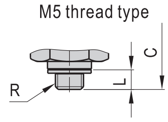
Accessories——One-Touch Fittings

Metal one-touch fittings

■ Dimensions

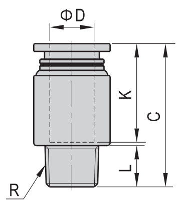
BPC series

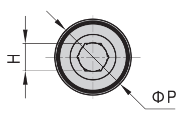


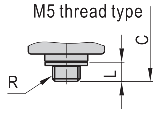


Model\Item	ΦD	R	L	C	K	H(Across flat)
BPC4M5	4	M5X0.8	3.5	19.5	14	9
BPC401		1/8"	7.5	19.5	14	10
BPC402		1/4"	10	19	14	14
BPC6M5	6	M5X0.8	3.5	22	16	12
BPC601		1/8"	7.5	21.5	18	12
BPC602		1/4"	10	24	18	14
BPC603		3/8"	11	22.5	18	17
BPC801	8	1/8"	7.5	27.5	18	14
BPC802		1/4"	10	26.5	18	14
BPC803		3/8"	11	23	18	17
BPC1001	10	1/8"	7.5	29.5	20.5	17
BPC1002		1/4"	10	32	20.5	17
BPC1003		3/8"	11	27.5	20.5	17
BPC1004		1/2"	14	25.5	20.5	21
BPC1202	12	1/4"	10	34.5	22	21
BPC1203		3/8"	11	30	22	21
BPC1204		1/2"	14	32	22	21

BPOC series

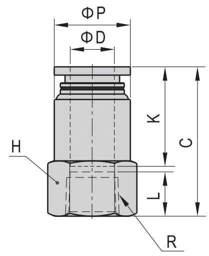






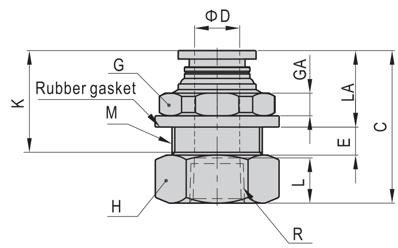
Model\Item	ΦD	R	ΦP	L	C	K	H(Across flat)
BPOC4M5	4	M5X0.8	9	3.5	18.5	14	2
BPOC401		1/8"	10	7.5	17.5	14	2.5
BPOC6M5	6	M5X0.8	12	3.5	21	16	2
BPOC601		1/8"	12	7.5	21.5	18	4
BPOC602		1/4"	14	10	21.5	18	4
BPOC801	8	1/8"	14	7.5	26	17.5	5
BPOC802		1/4"	14	10	24.5	17.5	6
BPOC1002	10	1/4"	17	10	28.5	20.5	6
BPOC1003		3/8"	17	11	27.5	20.5	8
BPOC1203	12	3/8"	21	11	29.5	22	8
BPOC1204		1/2"	21	14	31.5	22	8

BPCF series



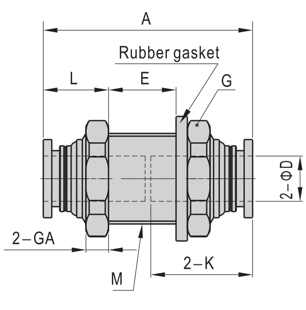
Model\Item	ΦD	R	ΦP	L	C	K	H(Across flat)
BPCF4M5	4	M5X0.8	9	5	21	14	10
BPCF401		1/8"	9.5	8	23	14	14
BPCF6M5	6	M5X0.8	12	5	21	16	12
BPCF601		1/8"	12.5	8	25	16	14
BPCF602		1/4"	12.5	11	28	16	17
BPCF801	8	1/8"	14	8	27	18	14
BPCF802		1/4"	14.5	11	30	18	17
BPCF1002	10	1/4"	17	11	32.5	20.5	17
BPCF1003		3/8"	18	12	33.5	20.5	21
BPCF1203	12	3/8"	21	12	35	22	21
BPCF1204		1/2"	21	13.5	36.5	22	25

BPMF series



Model\Item	ΦD	R	M	L	C	K	LA	E	G(Across flat)	GA	H(Across flat)
BPMF401	4	1/8"	M12X1	8	25	14	12	4	14	4	14
BPMF601	6	1/8"	M14X1	8	25	16	12	5	17	4	17
BPMF602		1/4"	M14X1	11	30	16	12	5	17	4	17
BPMF801	8	1/8"	M16X1	8	27	18	13	5.5	19	4	19
BPMF802		1/4"	M16X1	11	31.5	18	13	5.5	19	4	19
BPMF1002	10	1/4"	M20X1	11	34.5	20.5	14	7.5	24	5	22
BPMF1003		3/8"	M20X1	12	35.5	20.5	14	7.5	24	5	22
BPMF1203	12	3/8"	M22X1	12	37	22	15	8	27	6	24
BPMF1204		1/2"	M22X1	13.5	38.5	22	15	8	27	6	25

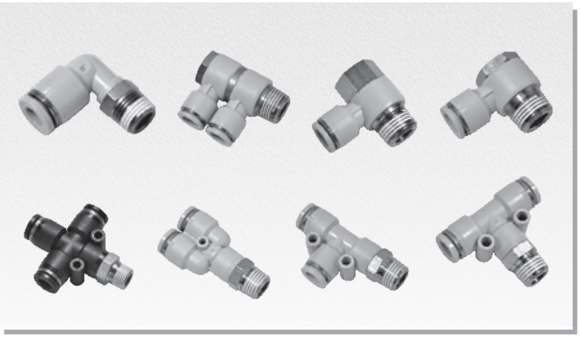
BPM series



Model\Item	ΦD	M	A	K	L	E	G(Across flat)	GA
BPM4	4	M12X1	28.5	14	10	7	14	4
BPM6	6	M14X1	33	16	10	11	17	4
BPM8	8	M16X1	37	18	11	13	19	4
BPM10	10	M20X1	41.5	20.5	12	16	24	5
BPM12	12	M22X1	45	22	13	17.5	27	6

Accessories——One-Touch Fittings

One-touch fittings---threaded type



■ Specification

Operating pressure range	0~9kgf/cm^2(0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (℃)	0~60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/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.
5. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.

■ Table for interface port and tube O.D.

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PL	M5	●	●			
	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PLL	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"				●	●
PLF	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●
PCF	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PMF	M5					
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●
PH	M5	●	●			
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
	1/2"			●	●	●
PHW	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
	1/2"			●	●	●
PHF	M5	●	●			
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
	1/2"			●	●	●
PEB	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●
PED	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●
PYB	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"			●	●	●
PZB	1/8"		●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
	1/2"			●	●	●

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

■ Ordering code

Same diameter type fittings PL 6 01 □ □

Model

PHW: Double universal male elbow	PL: Male elbow
PHF: Universal female elbow	PLL: Extended male elbow
PEB: Male branch tee	PLF: Female elbow
PED: Male run tee	PCF: Female connector
PYB: Branch "Y"	PMF: Bulkhead connector
PZB: Threaded cross	PH: Universal male elbow

Port size

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

Thread connection

Thread connection	Adaptable port size
M5: M5×0.8	Φ4\Φ6
01: 1/8"	Φ4\Φ6
02: 1/4"	Φ8\Φ10
03: 3/8"	Φ12
04: 1/2"	

Standard color

Standard color	Specification	
Blank: Gray	PCF\PMF	Release button: Gray
	Others	Release button: Gray
		Body:Gray
D: Black	PCF\PMF	Release button: Black
	Others	Release button: Black
		Body: Black

Thread type

Blank: PT

Different diameter type fittings PKD 6－4 01 □ □

Model

PKD: Male reducer triple branch

Port size

6: Φ6mm
8: Φ8mm
10: Φ10mm

Port size

4: Φ4mm
6: Φ6mm
8: Φ8mm

Thread connection

01: 1/8"
02: 1/4"
03: 3/8"

Standard color

Standard color	Specification
Blank: Gray	Release button: Gray
	Body:Gray
D: Black	Release button: Black
	Body: Black

Thread type

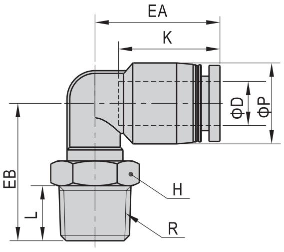
Blank: PT

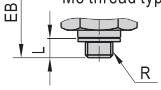
Accessories——One-Touch Fittings

One-touch fittings---threaded type

■ Dimensions

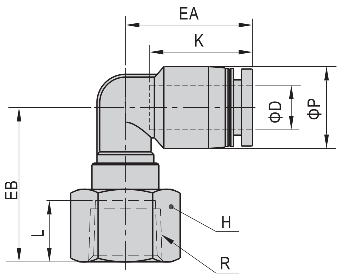
PL series





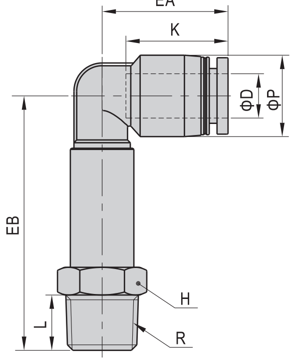
Model\Item	ΦD	R	ΦP	L	K	EA	EB	H(Across flat)	Weight(g)
PL4M5	4	M5×0.8	9	3.5	14	17	15	8	3
PL401		1/8"	9	7.5	14	17	18.5	10	4.5
PL402		1/4"	9	10	14	17	22	14	12
PL6M5	6	M5×0.8	12.5	3.5	17	20	17	8	4.5
PL601		1/8"	12.5	7.5	17	20	20.5	10	6
PL602		1/4"	12.5	10	17	20	24	14	13.5
PL603		3/8"	12.5	11	17	20	25.5	17	20.5
PL604		1/2"	12.5	14	17	20	30.0	21	36
PL801	8	1/8"	15	7.5	18.5	23	20.5	10	7.5
PL802		1/4"	15	10	18.5	23	25	14	13
PL803		3/8"	15	11	18.5	23	26.5	17	21
PL804		1/2"	15	14	18.5	23	31	21	36
PL1001	10	1/8"	18	7.5	21	25.5	25	17	16.5
PL1002		1/4"	18	10	21	25.5	27	17	19
PL1003		3/8"	18	11	21	25.5	28	17	21
PL1004		1/2"	18	14	21	25.5	32.5	21	37
PL1201	12	1/8"	21	7.5	23	28.5	26.5	17	19
PL1202		1/4"	21	10	23	28.5	28.5	17	21.5
PL1203		3/8"	21	11	23	29.5	33	17	25.5
PL1204		1/2"	21	14	23	29.5	34	21	37

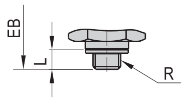
PLF series



Model\Item	ΦD	R	ΦP	L	K	EA	EB	H(Across flat)
PLF4M5		M5×0.8	9	6	14	17	16	10
PLF401	4	1/8"	9	8	14	17	21	14
PLF402		1/4"	9	11	14	17	24	17
PLF6M5		M5×0.8	12.5	6	17	20	18.5	10
PLF601	6	1/8"	12.5	8	17	20	23	14
PLF602		1/4"	12.5	11	17	20	26	17
PLF603		3/8"	12.5	12	17	20	27	21
PLF801		1/8"	15	8	18.5	23	20	14
PLF802	8	1/4"	15	11	18.5	23	27.5	17
PLF803		3/8"	15	12	18.5	23	28.5	21
PLF804		1/2"	15	13.5	18.5	23	30	25
PLF1001		1/8"	18	8	21	25.5	24	17
PLF1002	10	1/4"	18	11	21	25.5	26.5	17
PLF1003		3/8"	18	12	21	25.5	30	21
PLF1004		1/2"	18	13.5	21	25.5	31.5	25
PLF1202		1/4"	21	11	23	28.5	28.5	17
PLF1203	12	3/8"	21	12	23	29.5	32	21
PLF1204		1/2"	21	13.5	23	29.5	33	25

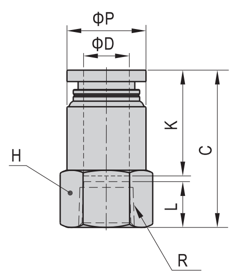
PLL series

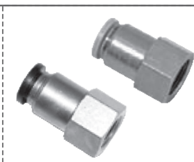




Model\Item	ΦD	R	ΦP	L	K	EA	EB	H(Across flat)
PLL4M5		M5×0.8	9	3.5	14	17	32.5	8
PLL401	4	1/8"	9	7.5	14	17	36	10
PLL402		1/4"	9	10	14	17	39	14
PLL6M5		M5×0.8	12.5	3.5	17	20	35	8
PLL601	6	1/8"	12.5	7.5	17	20	38	10
PLL602		1/4"	12.5	10	17	20	41	14
PLL603		3/8"	12.5	11	17	20	43.5	17
PLL801		1/8"	15	7.5	18.5	23	43.5	10
PLL802	8	1/4"	15	10	18.5	23	46	14
PLL803		3/8"	15	11	18.5	23	48.5	17
PLL1001		1/8"	18	7.5	21	25.5	51.5	15
PLL1002	10	1/4"	18	10	21	25.5	54.5	15
PLL1003		3/8"	18	11	21	25.5	55.5	17
PLL1004		1/2"	18	14	21	25.5	60	21
PLL1202		1/4"	21	10	23	28.5	56.5	15
PLL1203	12	3/8"	21	11	23	29.5	61	17
PLL1204		1/2"	21	14	23	29.5	64	21

PCF series

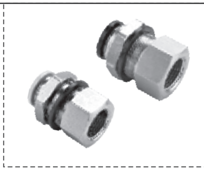


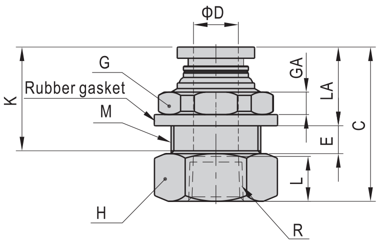


Model\Item	ΦD	R	ΦP	L	C	K	H(Across flat)
PCF4M5		M5×0.8	9	6	21	14	10
PCF401	4	1/8"	9.5	8	23	14	14
PCF402		1/4"	9.5	11	26	14	17
PCF6M5		M5×0.8	12	6	21.5	16.5	12
PCF601		1/8"	12.5	8	25.5	16.5	14
PCF602	6	1/4"	12.5	11	28.5	16.5	17
PCF603		3/8"	13	12	29.5	16.5	21
PCF604		1/2"	13	13.5	31.0	16.5	25
PCF801		1/8"	14	8	27.5	18.5	14
PCF802	8	1/4"	14.5	11	30.5	18.5	17
PCF803		3/8"	14.5	12	31.5	18.5	21
PCF804		1/2"	14.5	13.5	33	18.5	25
PCF1001		1/8"	17	8	29	21	17
PCF1002	10	1/4"	17	11	33	21	17
PCF1003		3/8"	18	12	34	21	21
PCF1004		1/2"	18	13.5	35.5	21	25
PCF1202		1/4"	21	11	33.5	23	21
PCF1203	12	3/8"	21	12	35.5	23	21
PCF1204		1/2"	21	13.5	37	23	25

One-touch fittings---threaded type

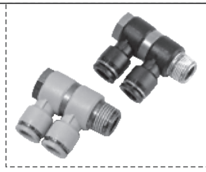
PMF series

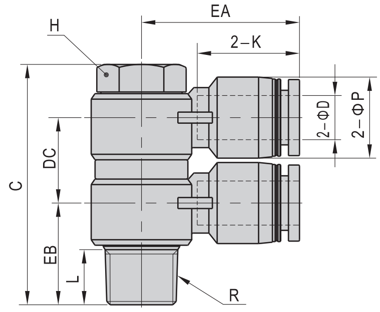




Model\Item	ΦD	R	M	L	C	K	LA	E	G(Across flat)	GA	H(Across flat)
PMF401	4	1/8"	M12X1	8	25	14	12	4	14	4	14
PMF402		1/4"	M12X1	11	29	14	12	4	14	4	17
PMF601	6	1/8"	M14X1	8	25.5	16.5	12.5	5	17	4	17
PMF602		1/4"	M14X1	11	30.5	16.5	12.5	5	17	4	17
PMF603		3/8"	M14X1	12	31.5	16.5	12.5	5	17	4	21
PMF801	8	1/8"	M16X1	8	27.5	18.5	13.5	5.5	19	4	19
PMF802		1/4"	M16X1	11	32	18.5	13.5	5.5	19	4	19
PMF803		3/8"	M16X1	12	33	18.5	13.5	5.5	19	4	21
PMF804		1/2"	M16X1	13.5	34.5	18.5	13.5	5.5	19	4	25
PMF1001	10	1/8"	M20X1	8	30	21	14.5	7.5	24	5	22
PMF1002		1/4"	M20X1	11	35	21	14.5	7.5	24	5	22
PMF1003		3/8"	M20X1	12	36	21	14.5	7.5	24	5	22
PMF1004		1/2"	M20X1	13.5	37.5	21	14.5	7.5	24	5	25
PMF1202	12	1/4"	M22X1	11	34.5	23	15.5	8	27	6	24
PMF1203		3/8"	M22X1	12	37.5	23	15.5	8	27	6	24
PMF1204		1/2"	M22X1	13.5	39	23	15.5	8	27	6	25

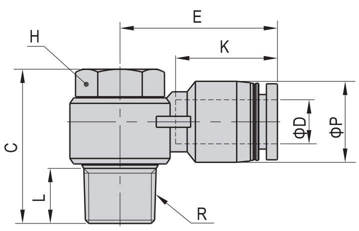
PHW series



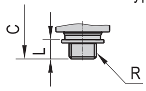


Model\Item	ΦD	R	ΦP	L	C	K	EA	EB	DC	H(Across flat)
PHW401	4	1/8"	9	7.5	38	14	20.5	14.5	13	11
PHW601	6	1/8"	12.5	7.5	38	16.5	23.0	15	13	11
PHW602		1/4"	12.5	10	43.5	16.5	25.0	17.5	15.5	14
PHW603		3/8"	12.5	11	50	16.5	27.0	20	16.5	19
PHW801	8	1/8"	15	7.5	40.5	18.5	26.5	16.5	15.5	11
PHW802		1/4"	15	10	43.5	18.5	28.5	18.5	15.5	14
PHW803		3/8"	15	11	50	18.5	29.5	20	16.5	19
PHW804		1/2"	15	14	61	18.5	32	24.5	22	24
PHW1002	10	1/4"	18	10	46.5	21	31	20	18.5	14
PHW1003		3/8"	18	11	55	21	33	21	22	19
PHW1004		1/2"	18	14	61	21	35.5	25	22	24
PHW1203	12	3/8"	21	11	55	23	36	23	22	19
PHW1204		1/2"	21	14	61	23	38	26.5	22	24

PH series

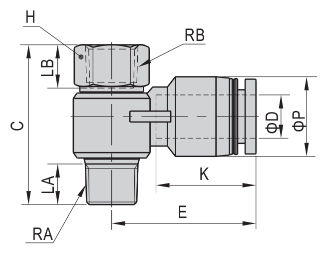


M5 thread type

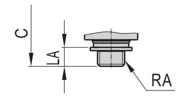


Model\Item	ΦD	R	ΦP	L	C	K	E	H(Across flat)
PH4M5	4	M5×0.8	9	3.5	17	14	19	8
PH401		1/8"	9	7.5	25	14	20.5	11
PH6M5	6	M5×0.8	12.5	3.5	17	16.5	23.5	8
PH601		1/8"	12.5	7.5	25	16.5	23	11
PH602		1/4"	12.5	10	28	16.5	25	14
PH603		3/8"	12.5	11	33	16.5	27	19
PH801	8	1/8"	15	7.5	25	18.5	26.5	11
PH802		1/4"	15	10	28	18.5	28.5	14
PH803		3/8"	15	11	33	18.5	29.5	19
PH804		1/2"	15	14	39	18.5	32	24
PH1002	10	1/4"	18	10	28	21	31	14
PH1003		3/8"	18	11	33	21	33	19
PH1004		1/2"	18	14	39	21	35.5	24
PH1203	12	3/8"	21	11	33	23	36	19
PH1204		1/2"	21	14	39	23	38	24

PHF series



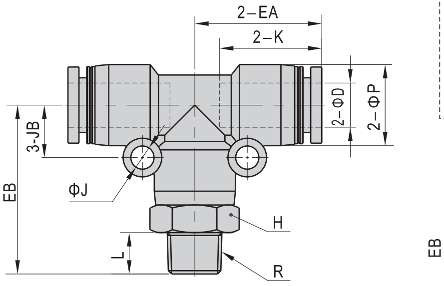
M5 thread type



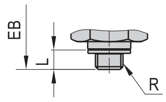
Model\Item	ΦD	RA	RB	ΦP	LA	LB	C	K	E	H(Across flat)
PHF4M5	4	M5×0.8	M5×0.8	9	3.5	6	20	14	19	8
PHF401		1/8"	1/8"	9	7.5	8	29.5	14	20.5	12
PHF6M5	6	M5×0.8	M5×0.8	12.5	3.5	6	20	16.5	23.5	8
PHF601		1/8"	1/8"	12.5	7.5	8	29.5	16.5	23	12
PHF602		1/4"	1/4"	12.5	10	11	35	16.5	25	17
PHF603		3/8"	3/8"	12.5	11	12	40	16.5	27	19
PHF801	8	1/8"	1/8"	15	7.5	8	29.5	18.5	26.5	12
PHF802		1/4"	1/4"	15	10	11	35	18.5	28.5	17
PHF803		3/8"	3/8"	15	11	12	40	18.5	29.5	19
PHF804		1/2"	1/2"	15	14	13.5	47.5	18.5	32	24
PHF1002	10	1/4"	1/4"	18	10	11	35	21	31	17
PHF1003		3/8"	3/8"	18	11	12	40	21	33	19
PHF1004		1/2"	1/2"	18	14	13.5	47.5	21	35.5	24
PHF1203	12	3/8"	3/8"	21	11	12	40	23	36	19
PHF1204		1/2"	1/2"	21	14	13.5	47.5	23	38	24

One-touch fittings---threaded type

PEB series

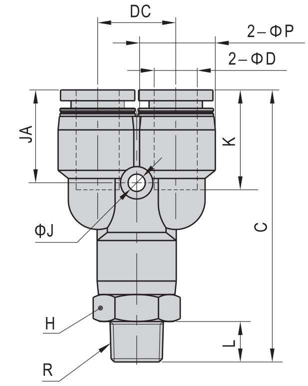


M5 thread type

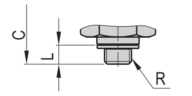


Model\Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H(Across flat)
PEB4M5		M5×0.8	9	3.5	14	17	21	3.2	6.5	9
PEB401	4	1/8"	9	7.5	14	17	25	3.2	6.5	10
PEB402		1/4"	9	10	14	17	28	3.2	6.5	14
PEB6M5		M5×0.8	12.5	3.5	16.5	20	23.5	3.2	8	12
PEB601	6	1/8"	12.5	7.5	16.5	20	27.5	3.2	8	12
PEB602		1/4"	12.5	10	16.5	20	30.5	3.2	8	14
PEB603		3/8"	12.5	11	16.5	20	32	3.2	8	17
PEB801		1/8"	15	7.5	18.5	23	30.5	4.3	9.5	14
PEB802	8	1/4"	15	10	18.5	23	33	4.3	9.5	14
PEB803		3/8"	15	11	18.5	23	34.5	4.3	9.5	17
PEB804		1/2"	15	14	18.5	23	38.5	4.3	9.5	21
PEB1001		1/8"	18	7.5	21	26.5	34	4.3	11	17
PEB1002	10	1/4"	18	10	21	26.5	36.5	4.3	11	17
PEB1003		3/8"	18	11	21	26.5	37.5	4.3	11	17
PEB1004		1/2"	18	14	21	26.5	41.5	4.3	11	21
PEB1202		1/4"	21	10	23	30	41	4.3	13	21
PEB1203	12	3/8"	21	11	23	30	42	4.3	13	21
PEB1204		1/2"	21	14	23	30	45	4.3	13	21

PYB series

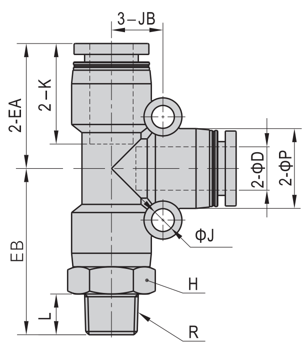


M5 thread type

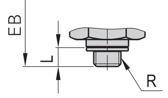


Model\Item	ΦD	R	ΦP	L	C	K	ΦJ	JA	DC	H(Across flat)
PYB4M5		M5×0.8	9	3.5	35.5	14	3.2	13	10	9
PYB401	4	1/8"	9	7.5	39.5	14	3.2	13	10	10
PYB402		1/4"	9	10	42.5	14	3.2	13	10	14
PYB6M5		M5×0.8	12.5	3.5	40.5	16.5	3.2	15.5	12	12
PYB601	6	1/8"	12.5	7.5	44.5	16.5	3.2	15.5	12	12
PYB602		1/4"	12.5	10	47.5	16.5	3.2	15.5	12	14
PYB603		3/8"	12.5	11	49.0	16.5	3.2	15.5	12	17
PYB801		1/8"	15	7.5	50	18.5	3.2	17	14.5	14
PYB802	8	1/4"	15	10	52.5	18.5	3.2	17	14.5	14
PYB803		3/8"	15	11	54	18.5	3.2	17	14.5	17
PYB804		1/2"	15	14	58	18.5	3.2	17	14.5	21
PYB1001		1/8"	18	7.5	56.5	21	4.3	19.5	18	17
PYB1002	10	1/4"	18	10	59	21	4.3	19.5	18	17
PYB1003		3/8"	18	11	60	21	4.3	19.5	18	17
PYB1004		1/2"	18	14	64	21	4.3	19.5	18	21
PYB1202		1/4"	21	10	66	23	4.3	21	20.5	21
PYB1203	12	3/8"	21	11	67	23	4.3	21	20.5	21
PYB1204		1/2"	21	14	70	23	4.3	21	20.5	21

PED series

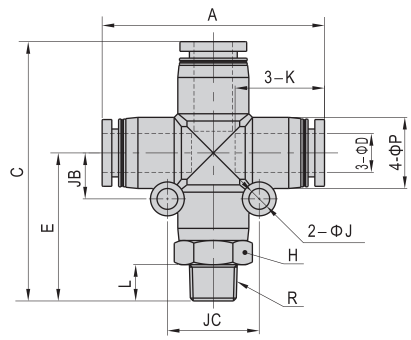


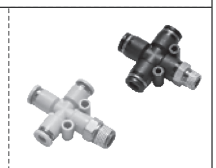
M5 thread type



Model\Item	ΦD	R	ΦP	L	K	EA	EB	ΦJ	JB	H(Across flat)
PED4M5		M5×0.8	9	3.5	14	17	21	3.2	6.5	9
PED401	4	1/8"	9	7.5	14	17	25	3.2	6.5	10
PED402		1/4"	9	10	14	17	28	3.2	6.5	14
PED6M5		M5×0.8	12.5	3.5	16.5	20	23.5	3.2	8	12
PED601	6	1/8"	12.5	7.5	16.5	20	27.5	3.2	8	12
PED602		1/4"	12.5	10	16.5	20	30.5	3.2	8	14
PED603		3/8"	12.5	11	16.5	20	32	3.2	8	17
PED801		1/8"	15	7.5	18.5	23	30.5	4.3	9.5	14
PED802	8	1/4"	15	10	18.5	23	33	4.3	9.5	14
PED803		3/8"	15	11	18.5	23	34.5	4.3	9.5	17
PED804		1/2"	15	14	18.5	23	38.5	4.3	9.5	21
PED1001		1/8"	18	7.5	21	26.5	34	4.3	11	17
PED1002	10	1/4"	18	10	21	26.5	36.5	4.3	11	17
PED1003		3/8"	18	11	21	26.5	37.5	4.3	11	17
PED1004		1/2"	18	14	21	26.5	41.5	4.3	11	21
PED1202		1/4"	21	10	23	30	41	4.3	13	21
PED1203	12	3/8"	21	11	23	30	42	4.3	13	21
PED1204		1/2"	21	14	23	30	45	4.3	13	21

PZB series

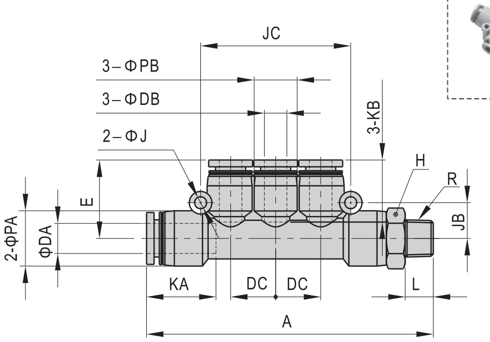




Model\Item	ΦD	R	L	A	E	C	ΦP	K	ΦJ	JB	JC	H(Across flat)
PZB601		1/8"	7.5		27.5	47.5						12
PZB602	6	1/4"	10	39.5	30.5	50.5	12.5	16.5	3.2	8	16	14
PZB603		3/8"	11		32	52						17
PZB801		1/8"	7.5		30.5	53.5						14
PZB802	8	1/4"	10	46	33	56	15	18.5	4.3	9.5	19	14
PZB803		3/8"	11		34.5	57.5						17
PZB804		1/2"	14		38.5	61.5						21
PZB1002		1/4"	10		36.5	63						17
PZB1003	10	3/8"	11	52.5	37.5	64	18	21	4.3	11	22	17
PZB1004		1/2"	14		41.5	68						21
PZB1203	12	3/8"	11	59.5	42	72	21	23	4.3	13	26	21
PZB1204		1/2"	14		45	75						21

One-touch fittings---threaded type

PKD series

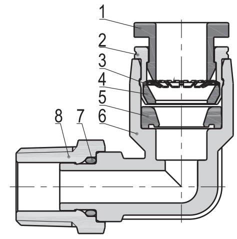


Model\Item	ΦDA	ΦDB	R	L	A	ΦPA	ΦPB
PKD6−401	6	4	1/8"	7.5	66.5	12.5	9
PKD8−602	8	6	1/4"	10	79	15	12.5
PKD10−803	10	8	3/8"	11	91.5	18	15

Model\Item	KA	KB	ΦJ	JB	JC	DC	E	H(Across flat)
PKD6−401	16.5	14	3.2	8	34	10	17.5	12
PKD8−602	18.5	16.5	3.2	9.5	40	12	21	14
PKD10−803	21	18.5	4.3	11	48	14.5	24	17

■ Inner structure

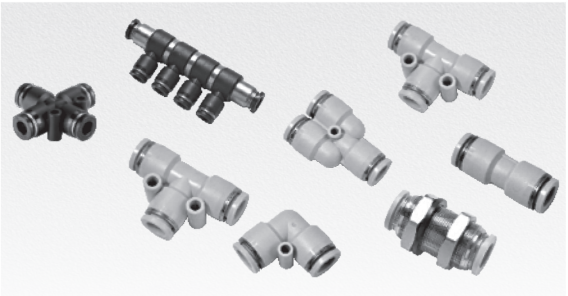
Model:PL



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

Accessories——One-Touch Fittings

One-touch fittings---tube-tube type



■ 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.
5. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.

■ Table for interface port and tube O.D.

Product series	Port size				
	Φ4	Φ6	Φ8	Φ10	Φ12
PE, PY, PV, PU, PM, PLM, PP, PZ	●	●	●	●	●

Product series	Port size I	Port size II			
		Φ4	Φ6	Φ8	Φ10
PG	Φ4				
	Φ6	●			
	Φ8	●	●		
	Φ10		●	●	
	Φ12			●	●
PEG	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12			●	●
PEW	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12			●	●
PYW	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12			●	●
PGJ	Φ4				
	Φ6	●			
	Φ8	●	●		
	Φ10		●	●	
	Φ12			●	●
PZG	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12				●
PKG	Φ4				
	Φ6	●			
	Φ8		●		
	Φ10			●	
	Φ12				
PHK	Φ4				
	Φ6				
	Φ8		●		
	Φ10			●	
	Φ12				
PHD	Φ4				
	Φ6				
	Φ8		●		
	Φ10			●	
	Φ12				

■ Specification

Operating pressure range	0~9kgf/cm²(0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (℃)	0~60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/black

■ Ordering code

Same diameter type fittings: **PE 6 □**

Model

PM: Bulkhead union	PE: Union tee
PLM: Bulkhead male elbow	PY: Union "Y"
PP: Plug	PV: Union elbow
PZ: Cross	PU: Straight union

Port size

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

Standard color

Standard color	Specification	
Blank: Gray	PM	Release button: Gray
	Others	Release button: Gray
		Body:Gray
D: Black	PM	Release button: Black
	Others	Release button: Black
		Body: Black

Different diameter type fittings: **PEG 6–4 □**

Model

	PG: Different diameter straight
PZG: Different diameter cross	PEG: Different diameter tee
PKG: Reducer triple branch union	PEW: Different diameter tee
PHK: Universal reducer triple branch union	PYW: Different diameter union "Y"
PHD: Universal reducer four branch union	PGJ: Plug-in reducer

Port size I

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

Port size II

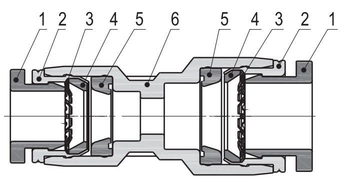
4: Φ4mm
6: Φ6mm
8: Φ8mm
10: Φ10mm

Standard color

Standard color	Specification
Blank: Gray	Release button: Gray Body:Gray
D: Black	Release button: Black Body: Black

■ Inner structure

Model:PG

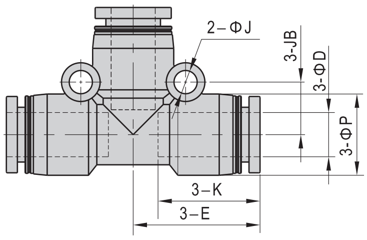


No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	PBT

One-touch fittings---tube-tube type

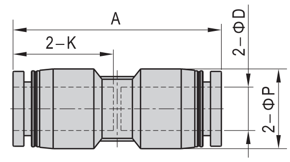
Dimensions

PE series



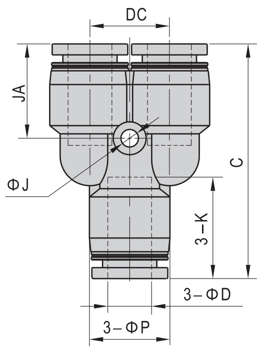
Model\Item	ΦD	ΦP	K	E	ΦJ	JB
PE4	4	9	14	17	3.2	6.5
PE6	6	12.5	16.5	20	3.2	8
PE8	8	15	18.5	23	4.3	9.5
PE10	10	18	21	26.5	4.3	11
PE12	12	21	23	30	4.3	13

PU series



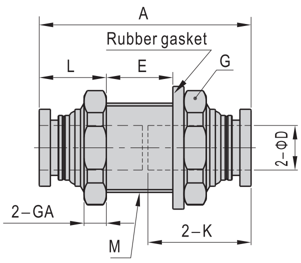
Model\Item	ΦD	ΦP	K	A
PU4	4	9	14	29.5
PU6	6	12.5	16.5	34
PU8	8	15	18.5	38.5
PU10	10	18	21	43
PU12	12	21	23	47

PY series



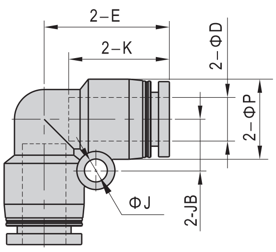
Model\Item	ΦD	ΦP	C	K	ΦJ	JA	DC
PY4	4	9	31.5	14	3.2	13	10
PY6	6	12.5	37	16.5	3.2	15.5	12
PY8	8	15	42.5	18.5	3.2	17	14.5
PY10	10	18	48.5	21	4.3	19.5	18
PY12	12	21	54.5	23	4.3	21	20.5

PM series



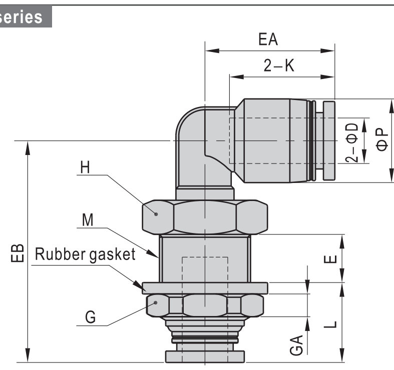
Model\Item	ΦD	M	A	K	L	E	G(Across flat)	GA
PM4	4	M12X1	29	14	10	7	14	4
PM6	6	M14X1	34	16.5	10.5	11	17	4
PM8	8	M16X1	38	18.5	11.5	13	19	4
PM10	10	M20X1	43	21	12.5	16	24	5
PM12	12	M22X1	46.5	23	13.5	17.5	27	6

PV series



Model\Item	ΦD	ΦP	K	E	ΦJ	JB
PV4	4	9	14	17	3.2	6.5
PV6	6	12.5	16.5	20	3.2	8
PV8	8	15	18.5	23	4.3	9.5
PV10	10	18	21	26.5	4.3	11
PV12	12	21	23	30	4.3	13

PLM series

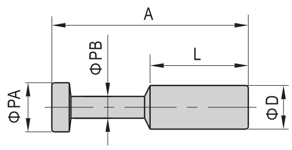


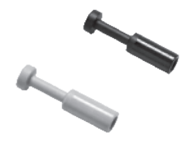
Model\Item	ΦD	ΦP	M	L	E	K	EA	EB	G(Across flat)	GA	H(Across flat)
PLM4	4	9	M12X1	12	7.5	14	17	31	14	4	14
PLM6	6	12.5	M14X1	12.5	8.5	17	20	35.5	17	4	17
PLM8	8	15	M16X1	13.5	9	18.5	23	39	19	4	19
PLM10	10	18	M20X1	14.5	11	21	25.5	44.5	24	5	22
PLM12	12	21	M22X1	15.5	11	23	29.5	48	27	6	24

Accessories——One-Touch Fittings

One-touch fittings---tube-tube type

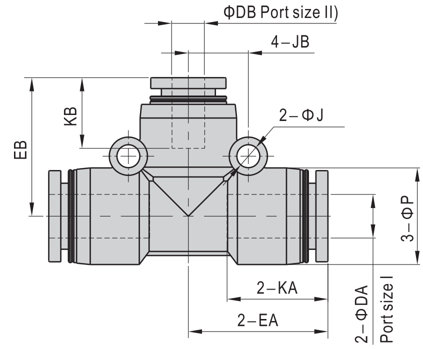
PP series





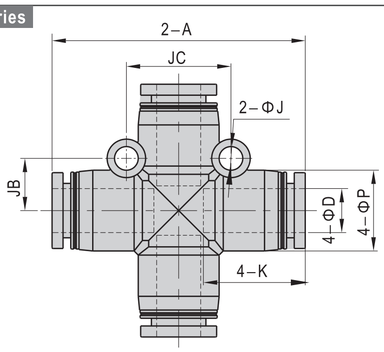
Model\Item	ΦD	ΦPA	ΦPB	L	A
PP4	4	5	3	15	27.5
PP6	6	7	3	17	32
PP8	8	9	4	18	36
PP10	10	11	5	20	42
PP12	12	13	6	23	44

PEG series



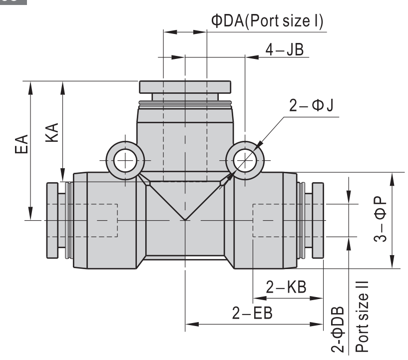
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB
PEG6－4	6	4	12.5	16.5	14	20.0	19.5	3.2	8
PEG8－6	8	6	15	18.5	16.5	22.5	22	4.3	9.5
PEG10－8	10	8	18	21	18.5	25.5	25.5	4.3	11
PEG12－8	12	8	21	23	18.5	29	28.5	4.3	13
PEG12－10	12	10	21	23	21	29	29	4.3	13

PZ series



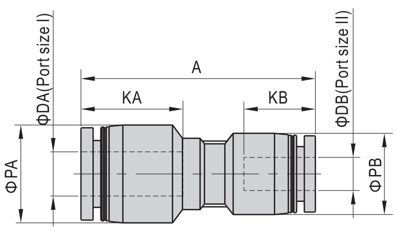
Model\Item	ΦD	A	ΦP	K	ΦJ	JB	JC
PZ4	4	34	9	14	3.2	6.5	13
PZ6	6	39.5	12.5	16.5	3.2	8	16
PZ8	8	46	15	18.5	4.3	9.5	19
PZ10	10	52.5	18	21	4.3	11	22
PZ12	12	59.5	21	23	4.3	13	26

PEW series



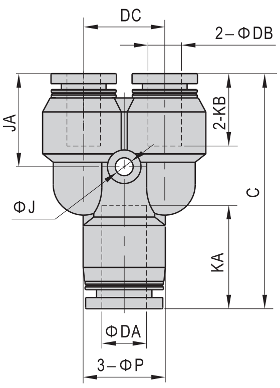
Model\Item	ΦDA	ΦDB	ΦP	KA	KB	EA	EB	ΦJ	JB
PEW6－4	6	4	12.5	16.5	14	20	19.5	3.2	8
PEW8－6	8	6	15	18.5	16.5	22.5	22	4.3	9.5
PEW10－8	10	8	18	21	18.5	25.5	25.5	4.3	11
PEW12－8	12	8	21	23	18.5	29	28.5	4.3	13
PEW12－10	12	10	21	23	21	29	29	4.3	13

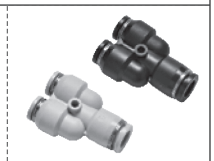
PG series



Model\Item	ΦDA	ΦDB	ΦPA	ΦPB	KA	KB	A
PG6－4	6	4	12.5	9	16.5	14	33.5
PG8－4	8	4	15	12.5	18.5	14	37.5
PG8－6	8	6	15	12.5	18.5	16.5	38
PG10－6	10	6	18	15	21	16.5	42
PG10－8	10	8	18	15	21	18.5	42.5
PG12－8	12	8	21	18	23	18.5	46.5
PG12－10	12	10	21	18	23	21	47

PYW series

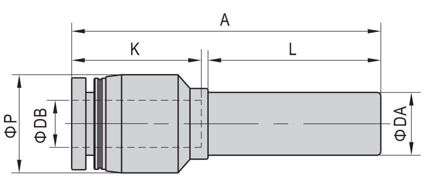




Model\Item	ΦDA	ΦDB	C	ΦP	KA	KB	ΦJ	JA	DC
PYW6－4	6	4	36.5	12.5	16.5	14	3.2	15	12
PYW8－6	8	6	42	15	18.5	16.5	3.2	16.5	14.5
PYW10－8	10	8	48.5	18	21	18.5	4.3	19	18
PYW12－8	12	8	54	21	23	18.5	4.3	20.5	20.5
PYW12－10	12	10	54.5	21	23	21	4.3	21	20.5

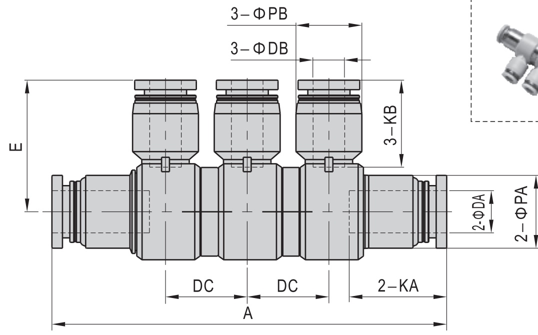
One-touch fittings---tube-tube type

PGJ series



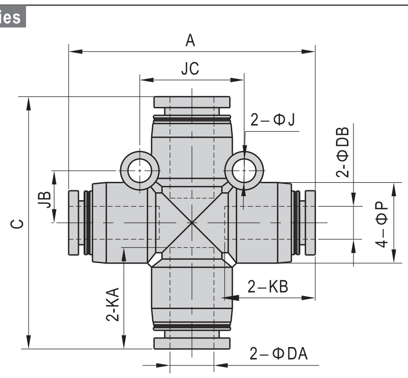
Model\Item	ΦDA	ΦDB	ΦP	K	L	A
PGJ6–4	6	4	9	14	21	35
PGJ8–4	8	4	12.5	14	22	39
PGJ8–6	8	6	12.5	16.5	22	39.5
PGJ10–6	10	6	15	16.5	25	44
PGJ10–8	10	8	15	18.5	25	44.5
PGJ12–8	12	8	18	18.5	26	48.5
PGJ12–10	12	10	18	21	26	49

PHK series



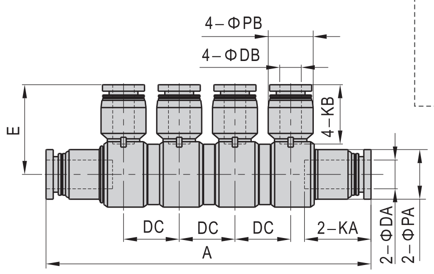
Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	DC	E
PHK8–6	8	6	75	14	12.5	18.5	16.5	15.5	25
PHK10–8	10	8	85.5	17	15	21	18.5	16.5	29.5

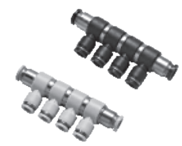
PZG series



Model\Item	ΦDA	ΦDB	A	C	ΦP	KA	KB	ΦJ	JB	JC
PZG6–4	6	4	39	39.5	12.5	16.5	14	3.2	8	16
PZG8–6	8	6	45	46	15	18.5	16.5	4.3	9.5	19
PZG10–8	10	8	52	52.5	18	21	18.5	4.3	11	22
PZG12–10	12	10	59	59.5	21	23	21	4.3	13	26

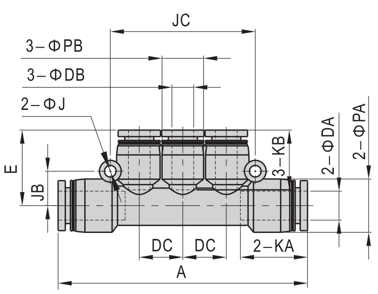
PHD series





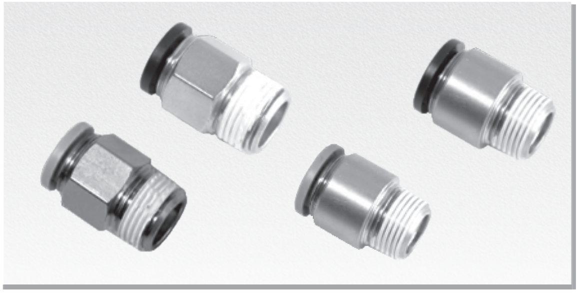
Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	DC	E
PHD8–6	8	6	90.5	14	12.5	18.5	16.5	15.5	25
PHD10–8	10	8	102.5	17	15	21	18.5	16.5	29.5

PKG series

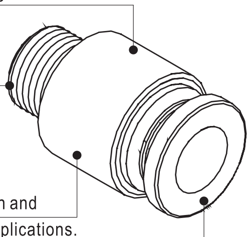


Model\Item	ΦDA	ΦDB	A	ΦPA	ΦPB	KA	KB	ΦJ	JB	JC	DC	E
PKG6–4	6	4	58.5	12.5	9	16.5	14	3.2	8	34	10	17.5
PKG8–6	8	6	69	15	12.5	18.5	16.5	3.2	9.5	40	12	21
PKG10–8	10	8	80	18	15	21	18.5	4.3	11	48	14.5	24

PC, POC series



■ Product feature



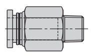
1. The compact appearance space saving.
2. The threaded portion is covered with sealant and the M5 thread is attached with a sealing gasket to prevent air leakage over the connection thread portion.
3. The nickel plated body is anti-corrosion and anti-pollution, which allows broader applications.
4. Grey and black are optional for the release button.

■ Ordering code

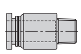
PC 6 01 □ □

Model

PC: Male connector



POC: Male connector



Port size

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

Thread connection

Thread connection	Adaptable port size
M5: M5 × 0.8	Φ4\Φ6
01: 1/8"	Φ4\Φ6 Φ8\Φ10\Φ12
02: 1/4"	
03: 3/8"	
04: 1/2"	

Standard color

Standard color	Specification
Blank: Gray	Release button:Gray
D: Black	Release button:Black

Thread type

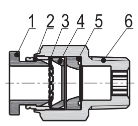
Blank: PT

■ Table for interface port and tube O.D.

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

■ Inner structure

Model:PC



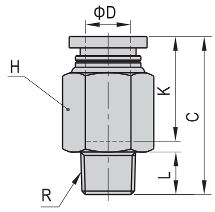
No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	Brass

■ Specification

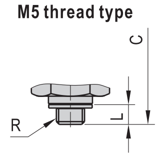
Operating pressure range	0~9kgf/cm²(0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (℃)	0~60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/black

■ Dimensions

PC series

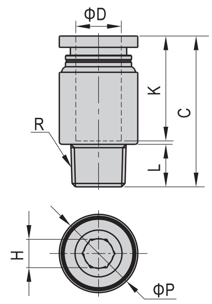


M5 thread type

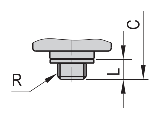


Model\Item	ΦD	R	L	C	K	H(Across flat)	Weight(g)
PC4M5	4	M5×0.8	3.5	19.5	14	9	6.5
PC401		1/8"	7.5	19.5	14	10	7
PC402		1/4"	10	19.5	14	14	13.5
PC6M5	6	M5×0.8	3.5	22.5	16.5	12	8.5
PC601		1/8"	7.5	22.0	18.5	12	7.5
PC602		1/4"	10	24.5	18.5	14	15.5
PC603		3/8"	11	22.5	18.5	17	24
PC604		1/2"	14	26.0	18.5	21	46
PC801	8	1/8"	7.5	28	18.5	14	13.5
PC802		1/4"	10	27	18.5	14	13
PC803		3/8"	11	23.5	18.5	17	21
PC804		1/2"	14	27	18.5	21	43.5
PC1001	10	1/8"	7.5	30	21	17	20.5
PC1002		1/4"	10	32.5	21	17	24
PC1003		3/8"	11	28	21	17	20.5
PC1004		1/2"	14	26.5	21	21	36
PC1201	12	1/8"	7.5	32.5	23	21	38.5
PC1202		1/4"	10	35	23	21	40.5
PC1203		3/8"	11	30.5	23	21	28.5
PC1204		1/2"	14	32.5	23	21	41.5

POC series



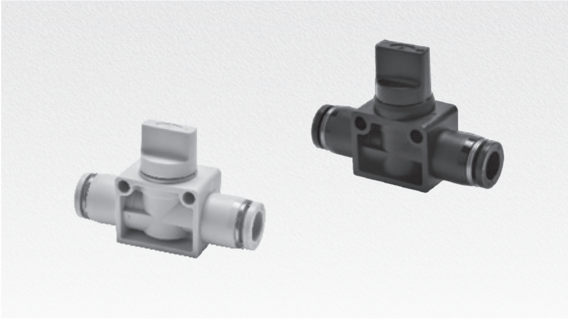
M5 thread type



Model\Item	ΦD	R	ΦP	L	C	K	H(Across flat)
POC4M5	4	M5×0.8	9	3.5	18.5	14	2
POC401		1/8"	10	7.5	18	14	2.5
POC402		1/4"	14	10	19.5	14	3
POC6M5	6	M5×0.8	12	3.5	21.5	16.5	2
POC601		1/8"	12	7.5	22.0	18.5	4
POC602		1/4"	14	10	22.0	18.5	4
POC801	8	1/8"	14	7.5	26.5	18	5
POC802		1/4"	14	10	25	18	6
POC803		3/8"	17	11	23.5	18	6
POC1001	10	1/8"	17	7.5	30	21	5
POC1002		1/4"	17	10	29	21	6
POC1003		3/8"	17	11	28	21	8
POC1004		1/2"	21	14	26.5	21	8
POC1202	12	1/4"	21	10	34.5	23	6
POC1203		3/8"	21	11	30	23	8
POC1204		1/2"	21	14	32	23	8

Accessories——Finger valve

PHV series



■ Specification

Operating pressure	0~9kgf/cm²(0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Temperature range(℃)	0~60
Applicable tubing	Nylon or Polyurethane
Color	Grey/Black

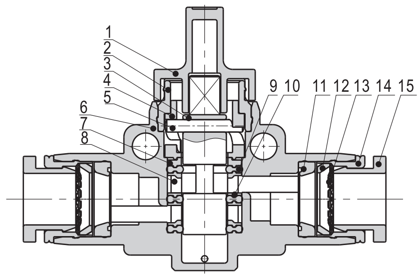
■ Table for interface port and tube O.D.

Product series	Port size			
	Φ6	Φ8	Φ10	Φ12
PHV	●	●	●	●

■ Symbol

■ Inner structure

Model:PHV



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

■ Product feature

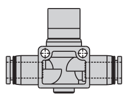
1. When the three-way valve is closed, the outlet pressure is released, which facilitates in commissioning and maintenance.
2. The finger valve has excellent flow characteristic and high sensitive unti-direction characteristic.

■ Ordering code

PHV 6 A □

Fitting type

PHV: Finger valve



Standard color

Standard color	Specification
Blank: Gray	Release button: Gray Body:Gray
D: Black	Release button: Black Body: Black

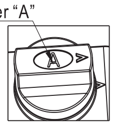
Port size

6: Φ6mm
8: Φ8mm
10: Φ10mm
12: Φ12mm

Valve specification

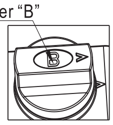
A: Three-way

Knob identifier "A"



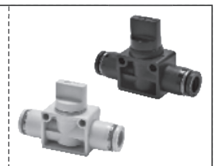
B: Two-way

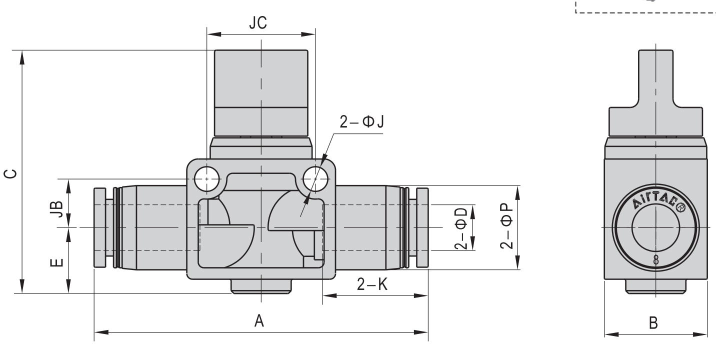
Knob identifier "B"



■ Dimensions

Model:PHV



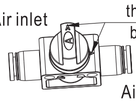
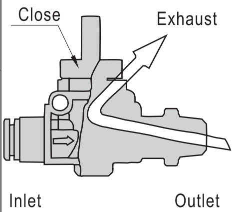
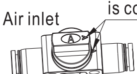


Model\Item	ΦD	A	B	C	ΦP	K	E	ΦJ	JB	JC
PHV6□	6	51.5	17	40.5	12.5	16.5	10	4.3	8	18
PHV8□	8	58.5	18	42.5	15	18.5	11.5	4.3	8.5	19
PHV10□	10	66	21	42	18	21	11	4.3	11	24
PHV12□	12	71	22	46	21	23	13	4.3	11	24

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

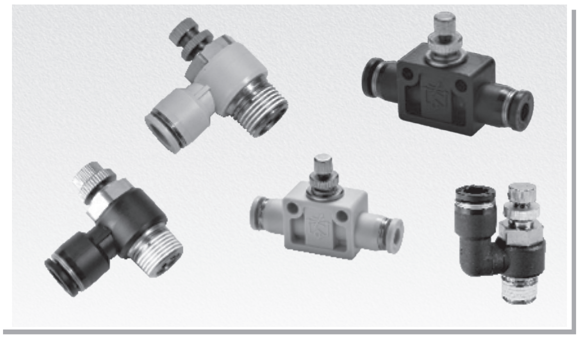
The two kinds of valve have same dimensions.

■ 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 Air inlet  Air outlet	When the three-way valve is closed, the outlet pressure is released, which facilitates in commissioning and maintenance.(as figure below) 
Opened state	Valve is open, when the direction of the arrow on commutation knob is consistent with that on valve body. Air inlet  Air outlet	

Accessories——Speed controllers

PSA, PSL, PSS series



■ Specification

Operating pressure range	0~9kgf/cm^2(0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (℃)	0~60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/black

■ Table for interface port and tube O.D.

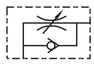
Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PSL	M5	●	●			
	1/8"	●	●	●		
	1/4"		●	●	●	
	3/8"		●	●	●	●
	1/2"			●	●	●
PSS	M5	●				
	1/8"		●	●		
	1/4"		●	●	●	
	3/8"				●	●
	1/2"					●

Product series	Port size				
	Φ4	Φ6	Φ8	Φ10	Φ12
PSA	●	●	●	●	●

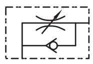
■ Symbol

PSA

Meter-out (A)



Meter-in (B)



■ Product feature

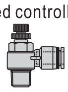
1. The silencer is small size, and light weight with small installation space.
2. Excellent flow charatentics,high sensitivity and easy to adjust.
3. The silencer brass body adopts a special nickel-plating process, which has good corrosion resistance and anti-pollution property.
4. Anti-drop structure 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 degree.

■ Ordering code

PSL 6 01 A □ □

Model

PSL: Speed controller



PSS: Universal speed controller

Port size

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

Thread connection

Thread connection	Adaptable port size
M5: M5×0.8	Φ4\Φ6
01: 1/8"	Φ4\Φ6 Φ8\Φ10 Φ12
02: 1/4"	
03: 3/8"	
04: 1/2"	

Thread type

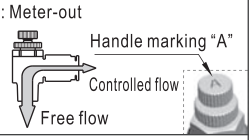
Blank: PT

Standard color

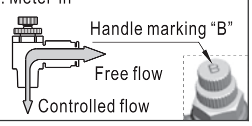
Standard color	Specification
Blank: Gray	Release button: Gray Body:Gray
D: Black	Release button: Black Body: Black

Control method

A: Meter-out



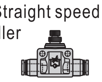
B: Meter-in



PSA 6 □

Model

PSA: Straight speed controller



Port size

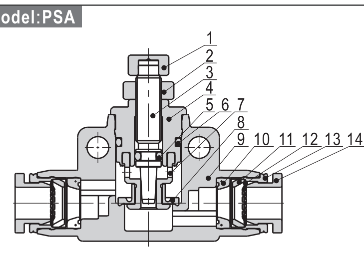
4: Φ4mm
6: Φ6mm
8: Φ8mm
10: Φ10mm
12: Φ12mm

Standard color

Standard color	Specification
Blank: Gray	Release button: Gray Body:Gray
D: Black	Release button: Black Body: Black

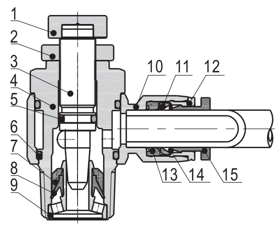
■ Inner structure

Model:PSA



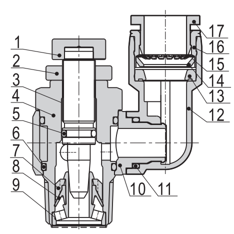
NO.	Name	Material
1	Adjusting cap	Aluminum alloy or Brass
2	Locking cap	Aluminum alloy
3	Throttling column	Brass
4	Throttling body	Brass
5	O-ring	NBR
6	O-ring	NBR
7	Throttling sleeve	Aluminum alloy
8	O-ring	NBR
9	Plastic body	PBT
10	O-ring	NBR
11	Locating seat	POM
12	Spring gasket	Stainless steel
13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

Model:PSL



No.	Item	Material
1	Handle	Aluminum alloy or Brass
2	Lock nut	Aluminum alloy
3	Needle	Brass
4	Body	Brass
5	O-ring	NBR
6	O-ring	NBR
7	Bushing	PBT
8	O-ring	NBR
9	Seat ring	Brass
10	Rubber body	PBT
11	Chuck	POM
12	Guide	Aluminum alloy
13	O-ring	NBR
14	Spring gasket	Stainless steel
15	Release button	POM

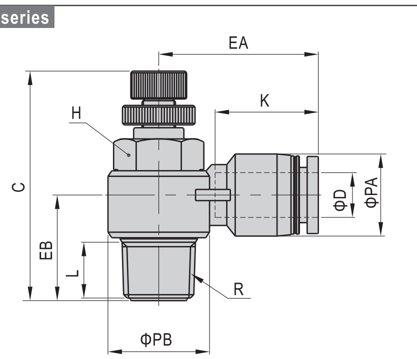
Model:PSS



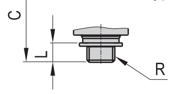
NO.	Name	Material
1	Adjusting cap	Aluminum alloy or Brass
2	Locking cap	Aluminum alloy
3	Throttling column	Brass
4	Throttling body	Brass
5	O-ring	NBR
6	O-ring	NBR
7	Holder	PBT
8	O-ring	NBR
9	Throttling sleeve	Brass
10	Plastic body	PBT
11	O-ring	NBR
12	Plastic body	PBT
13	O-ring	NBR
14	Locating seat	POM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

■ Dimensions

PSL series



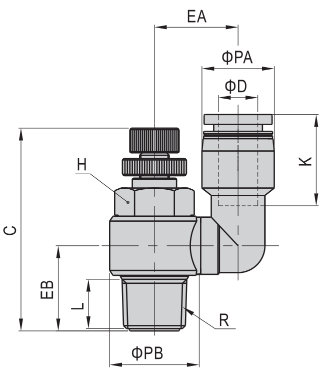
M5 thread type



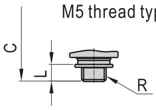
Model\Item	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H(Across flat)	Weight(g)
						max	min					
PSL4M5□	4	M5×0.8	9	10	3.5	30	27.5	14	19	9.5	8	6.5
PSL401□		1/8"	9	14	7.5	41.5	35	14	20.5	15	11	16.5
PSL6M5□	6	M5×0.8	12.5	10	3.5	30	27.5	16.5	23.5	11.5	8	8
PSL601□		1/8"	12.5	14	7.5	41.5	35	16.5	23	15.5	11	17.5
PSL602□		1/4"	12.5	18	10	47.5	41	16.5	25	18	14	32
PSL603□		3/8"	12.5	22.5	11	52.5	45.5	16.5	27	20	19	59.5
PSL801□	8	1/8"	15	14	7.5	41.5	35	18.5	26.5	16.5	11	18
PSL802□		1/4"	15	18	10	47.5	41	18.5	28.5	19	14	33
PSL803□		3/8"	15	22.5	11	52.5	45.5	18.5	29.5	20	19	60
PSL804□		1/2"	15	28	14	58.5	51.5	18.5	32	25	24	96.5
PSL1002□	10	1/4"	18	18	10	47.5	41	21	31	20.5	14	34.5
PSL1003□		3/8"	18	22.5	11	52.5	45.5	21	33	21.5	19	62
PSL1004□		1/2"	18	28	14	58.5	51.5	21	35.5	25.5	24	98
PSL1203□	12	3/8"	21	22.5	11	52.5	45.5	23	36	23.5	19	64
PSL1204□		1/2"	21	28	14	58.5	51.5	23	38	27	24	100

Note: "□" 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



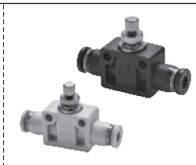
M5 thread type

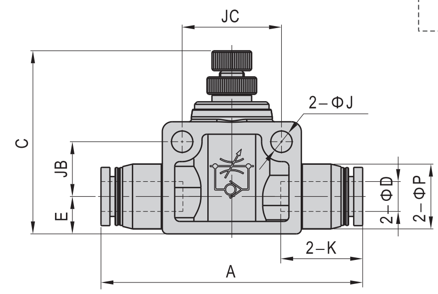


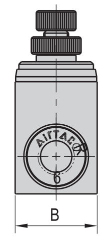
Model\Item	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H(Across flat)
						max	min				
PSS4M5□	4	M5×0.8	9	10	3.5	30	27.5	14	12.5	9.5	8
PSS601□	6	1/8"	12.5	14	7.5	41.5	35	17	17	15	11
PSS602□		1/4"	12.5	18	10	47.5	41	17	19	17.5	14
PSS801□	8	1/8"	15	14	7.5	41.5	35	18.5	17	15	11
PSS802□		1/4"	15	18	10	47.5	41	18.5	19	17.5	14
PSS1002□	10	1/4"	18	18	10	47.5	41	21	20.5	17.5	14
PSS1003□		3/8"	18	22.5	11	52.5	45.5	21	24	20	19
PSS1203□	12	3/8"	21	22.5	11	52.5	45.5	23	25.5	20	19
PSS1204□		1/2"	21	28	14	58.5	51.5	23	28	25	24

Note: "□" 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.

PSA series





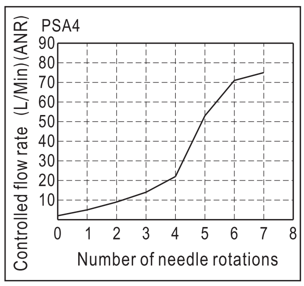


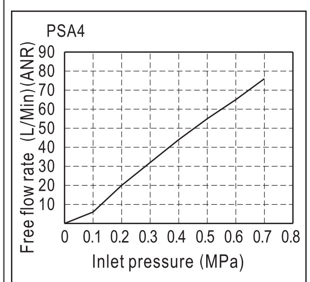
Model\Item	ΦD	A	B	C		ΦP	K	E	ΦJ	JB	JC
				max	min						
PSA4	4	41	11	29	26.5	9.5	14	7	3.2	6	14
PSA6	6	52.5	16.5	43.5	36.5	13	16.5	7.5	4.3	11	20
PSA8	8	59.5	16.5	47	40	15	18.5	8.5	4.3	11	22
PSA10	10	69	21	53.5	46.5	18	21	10.5	4.3	14.5	26
PSA12	12	78.5	26	58.5	51	21.5	23	12	4.3	17.5	32

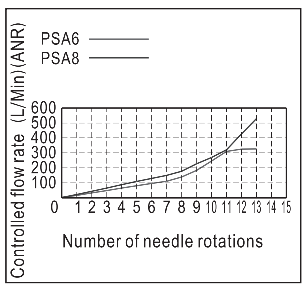
■ Flow chart

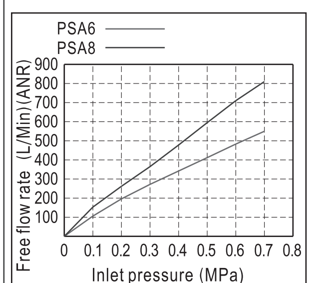
Controlled flow rate

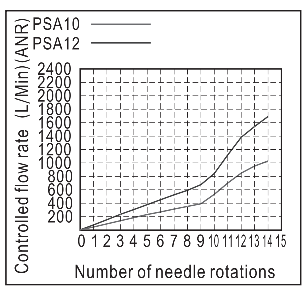
Free flow rate

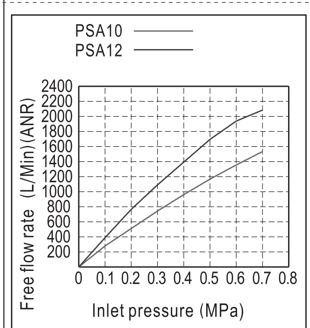






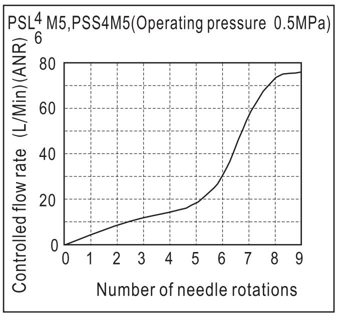


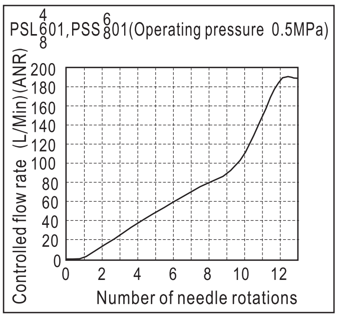


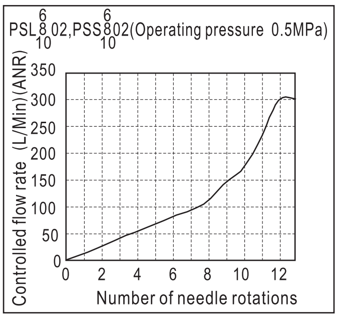


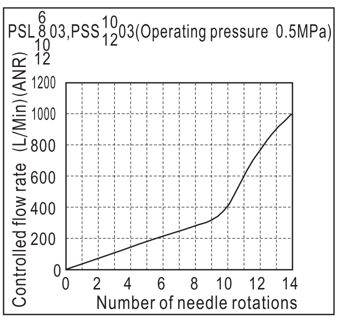
PSA, PSL, PSS series

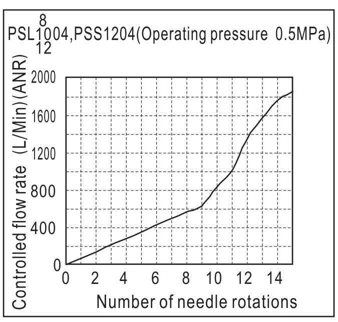
Controlled flow rate



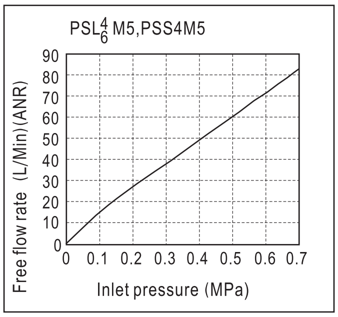


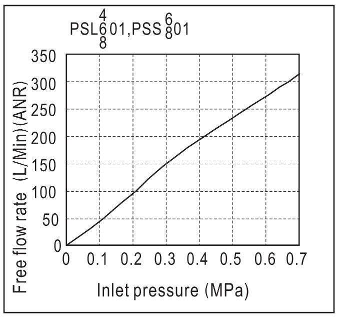


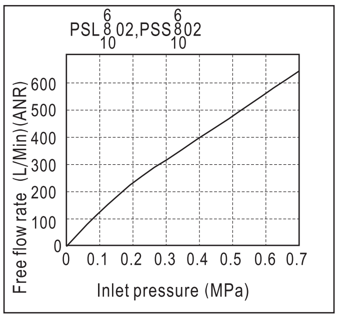


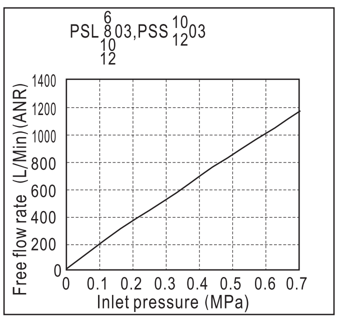


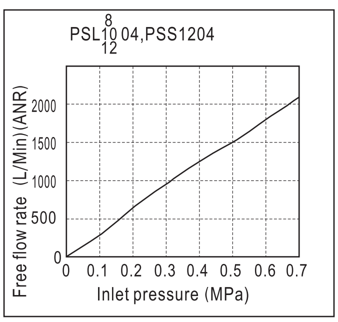
Free flow rate







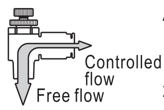
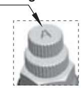
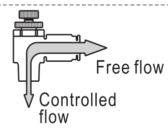
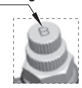




■ Selection, Installation and Operation

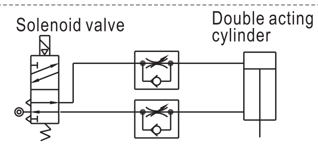
Selection

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

Working principle		Product identification
 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" 

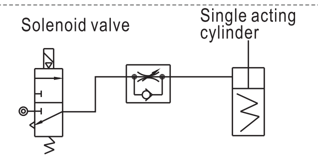
2. Select the different control method according to the actual requirement. The meter-out type is the first priority.

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



Meter-out speed controller

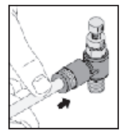
2.2. The application example of the meter-in speed controller



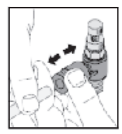
Meter-in speed controller

Installation

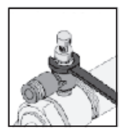
1. Installation and removal of tubing:
   1.1. Installation of tubing
   Grasp the tubing and slowly push it into the fitting until it comes to a stop. The tubing will be locked by the spring gasket.



   1.2. Removal of tubing
   Push the release button to open the spring gasket so that the tubing can be released.
   Note:When remove the tubing, make sure the pressure in the tubing is Zero.

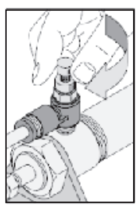
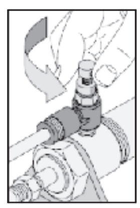


2. Mounting of the speed controller
   Mount the speed controller into the inlet and outlet port of the cylinder with a wrench.
   Note: Please refer to the fittings for the tightening torque and thread screw-in depth.



Operation

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

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