

## PTL series

### Ordering code

PTL 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
PTL: Speed controller (Push lock) 	4 □ Φ4mm 6: Φ6mm 8: Φ8mm 10: Φ10mm 12: Φ12mm	Thread	Adaptable port size	A: Meter-out  Handle marking "A" Controlled flow Free flow	Standard color	Specification	Blank: PT
		M5 □ M5X0.8	Φ4, Φ6	B: Meter-in  Handle marking "B" Free flow Controlled flow	Blank: Gray	Release button: Gray Body: Gray	
		01 □ 1/8" 02 □ 1/4" 03 □ 3/8" 04 □ 1/2"	Φ4, Φ6 Φ8, Φ10 Φ12		D: Black	Release button: Black Body: Black	

### Specification

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

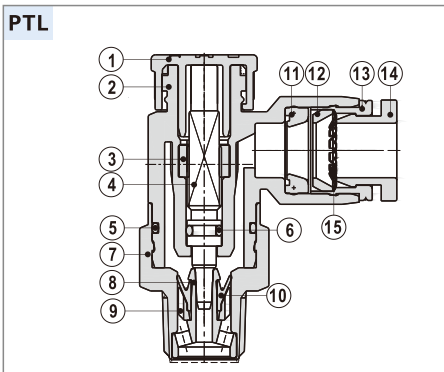
### Symbol



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

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

### Inner structure

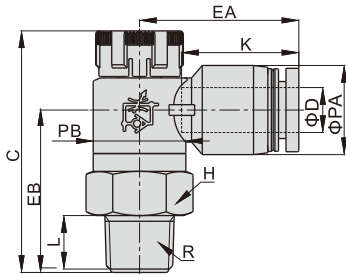


NO.	Name	Material	NO.	Name	Material
1	Adjusting cap	POM	9	Holder	PBT
2	Plastic body	PBT	10	O-ring	NBR
3	Locating ring	Aluminum alloy	11	O-ring	NBR
4	Throttling column	Aluminum alloy	12	Locating seat	POM
5	O-ring	NBR	13	Locating ring	Aluminum alloy
6	O-ring	NBR	14	Plastic interface	POM
7	Throttling body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

## PTL series

### Dimensions

#### PTL Series

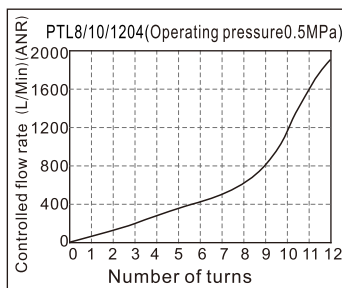
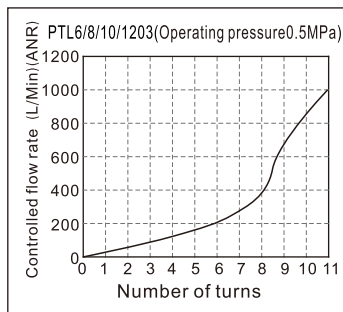
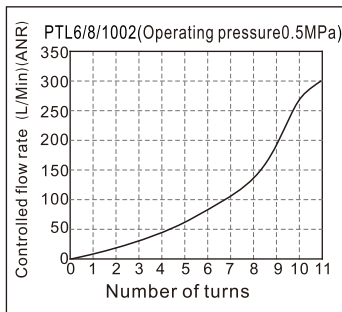
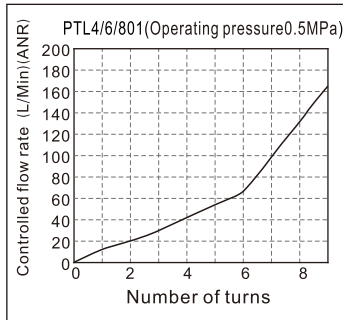
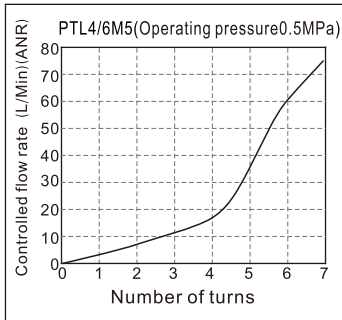


Model/Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)
						max	min					
PTL4M5□	4	M5×0.8	9	9	3.5	29	28	12.5	16	19	9	-
PTL401□		1/8"	9	13	7.5	37	35.5	14	20.2	24.5	13	-
PTL6M5□	6	M5×0.8	10.5	9	3.5	29	28	13	19.5	19	9	-
PTL601□		1/8"	12.5	13	7.5	37	35.5	16.5	22.5	24.5	13	13
PTL602□	6	1/4"	12.5	17	10	40.5	39	16.5	24	26.5	17	-
PTL603□		3/8"	12.5	19	11	44	42.5	16.5	27	29	19	-
PTL801□	8	1/8"	15	13	7.5	37	35.5	18.5	24.5	24.5	13	-
PTL802□		1/4"	15	17	10	40.5	39	18.5	26	26.5	17	-
PTL803□	8	3/8"	15	19	11	44	42.5	18.5	26	29	19	-
PTL804□		1/2"	15	24	14	52	50.5	18.5	30	35.5	24	-
PTL1002□	10	1/4"	18	17	10	40.5	39	21	28	26.5	17	-
PTL1003□		3/8"	18	19	11	44	42.5	21	29	29	19	-
PTL1004□	10	1/2"	18	24	14	52	50.5	21	32	35.5	24	-
PTL1203□		3/8"	21	19	11	44	42.5	23	29	29	19	-
PTL1204□	12	1/2"	21	24	14	52	50.5	23	34	35.5	24	-

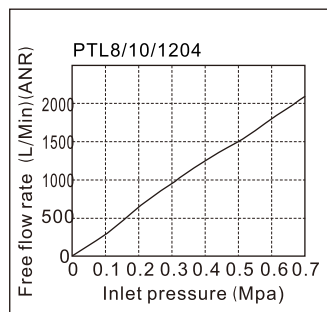
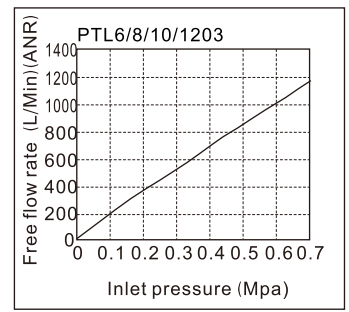
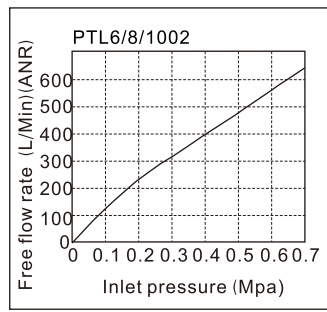
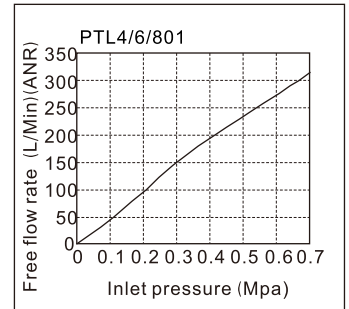
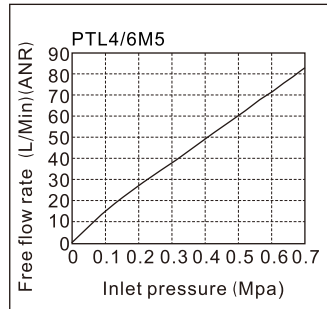
[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

### Flowrate characteristic

#### Controlled flow rate



#### Free flow rate



### Selection, Installation and Operation

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

