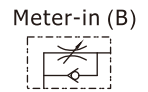


PTL Mini series(Stainless steel)



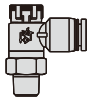
Ordering code

PTL 6 M5 A - M S

① ② ③ ④ ⑤ ⑥

① Model

PTL: Speed controller (Push lock)



② Port size

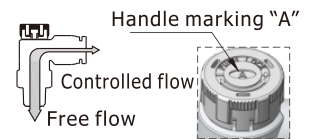
4: $\Phi 4$ mm
6: $\Phi 6$ mm

③ Thread connection

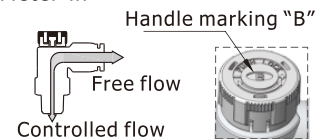
M5: M5X0.8
01: PT1/8

④ Control method

A: Meter-out



B: Meter-in



⑤ Style type

M: Mini type

⑥ Material

S: SUS304

Table for interface port and tube O.D.

Product series	Thread type	Port size	
		$\Phi 4$	$\Phi 6$
PTL	M5	●	●
	PT1/8	●	●

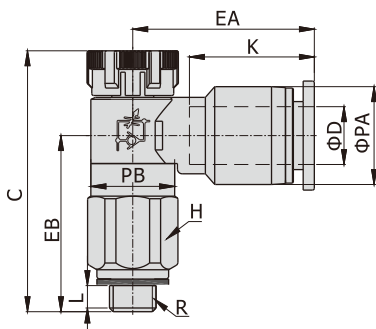
Specification

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

Dimensions

PTL Mini Series

[Unit: mm]



Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H	Weight (g)
						Pull	Push					
PTL4M5□-MS	4	M5×0.8	8.5	9	3.5	29.5	28	12.5	16.5	19	9	5
PTL401□-MS		PT1/8	8.5	9	3.5	29.5	28	12.5	16.5	19	10	11
PTL6M5□-MS	6	M5×0.8	10.5	9	3.5	29.5	28	13.5	19.5	19	9	6.2
PTL601□-MS		PT1/8	10.5	9	3.5	29.5	28	13.5	19.5	19	10	12

[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(Stainless steel)



Meter-out (A)



Meter-in (B)



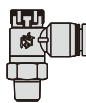
Ordering code

PTL 6 01 A - S



① Model

PTL: Speed controller (Push lock)



② Port size

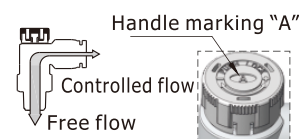
6: $\Phi 6$ mm
8: $\Phi 8$ mm
10: $\Phi 10$ mm
12: $\Phi 12$ mm

③ Thread connection

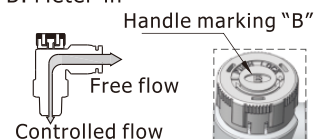
Thread	Adaptable port size
01: PT1/8	$\Phi 6, \Phi 8$
02: PT1/4	$\Phi 6, \Phi 8, \Phi 10$
03: PT3/8	$\Phi 6, \Phi 8, \Phi 10, \Phi 12$
04: PT1/2	$\Phi 8, \Phi 10, \Phi 12$

④ Control method

A: Meter-out



B: Meter-in



⑤ Material

S: SUS304

Table for interface port and tube O.D.

Product series	Thread type	Port size			
		$\Phi 6$	$\Phi 8$	$\Phi 10$	$\Phi 12$
PTL	PT1/8	●	●		
	PT1/4	●	●	●	
	PT3/8	●	●	●	●
	PT1/2		●	●	●

Specification

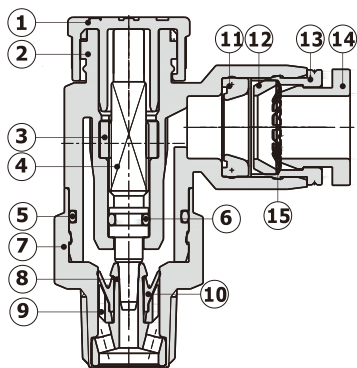
Operating pressure range	0~10kgf/cm²(0~1.0MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	-20~70
Applicable tubing	Soft nylon or polyurethane

Product feature

1. Stainless steel 304 material can be used in prohibiting copper condition.
2. Compare with traditional speed controller, smaller size, lighter weight, suitable for more occasions.
3. Effectively control the action speed and the pressure signal transmission from pneumatic device.
4. Simple push-lock, operation.
5. Adjust quickly, easily and accurately.
6. Excellent flow rate characteristic, high sensitivity and easy to adjust.
7. Options of Meter-out and meter-in, applicable for every type actuator.
8. The sealant being coated on threaded portion can ensure no leakage of the threaded connection part.

PTL series(Stainless steel)

Inner structure

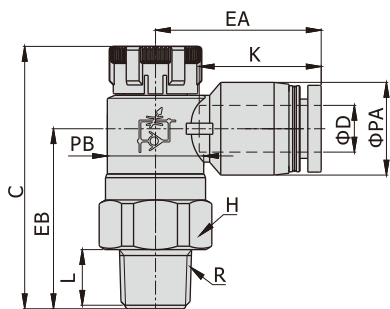


NO.	Name	NO.	Name
1	Adjusting cap	9	Holder
2	Plastic body	10	O-ring
3	Locating ring	11	O-ring
4	Throttling column	12	Locating seat
5	O-ring	13	Locating ring
6	O-ring	14	Plastic interface
7	Throttling body	15	Spring gasket
8	Throttling sleeve		

Dimensions

PTL Series

[Unit: mm]



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

[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.

Selection, Installation and Operation

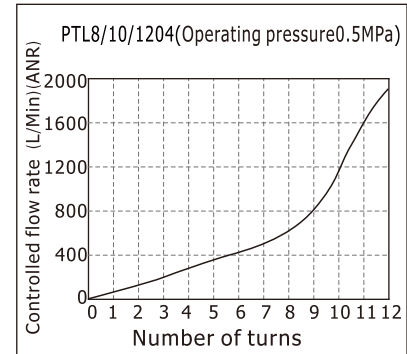
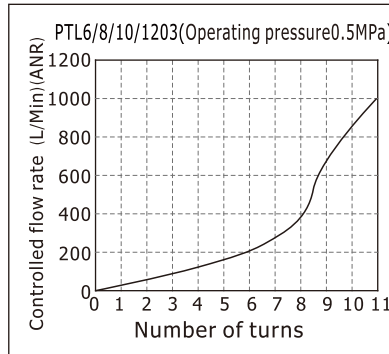
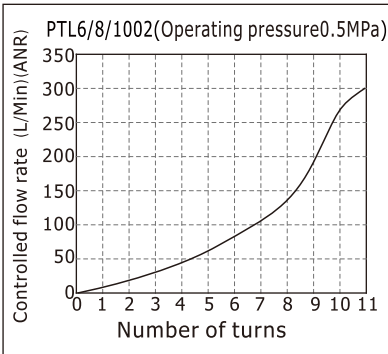
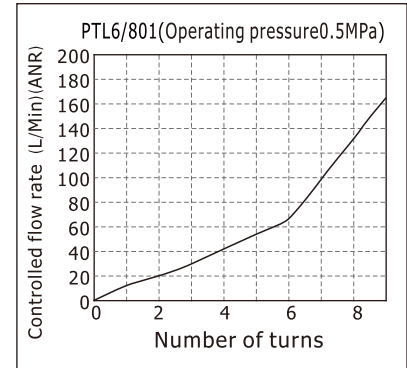
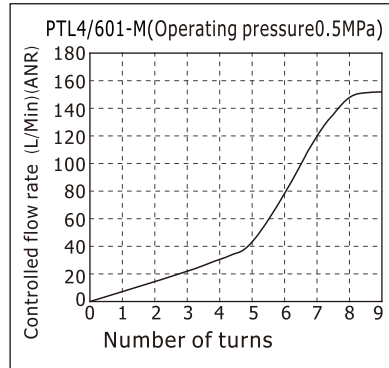
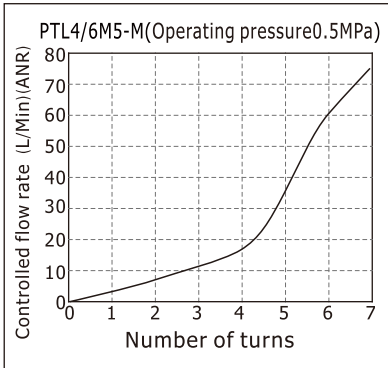
- This product rotates in the direction of the finite position mechanism, the rotation torque can not be too large, so as not to cause damage. The maximum allowable torque is shown right.
- Push-lock speed controller installation instructions is the same as traditional one. Please refer to general type for specific content.

Thread type	Max. allowable torque(N.m)
M5	0.05
PT1/8	0.08
PT1/4	0.16
PT3/8	0.24
PT1/2	0.32

PTL series(Stainless steel)

Flowrate characteristic

Controlled flow rate



Free flow rate

