NPTL series(Stainless steel)

Meter-out (A)

Meter-in (B)

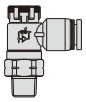
Ordering code

NPTL 1/4 - 1/8 A - S

1 2 3 4 5

① Model

NPTL: Speed controller (Push lock)



②Port size

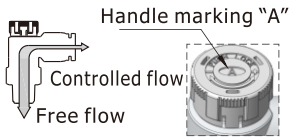
5/32: Φ5/32"
1/4: Φ1/4"
5/16: Φ5/16"
3/8: Φ3/8"
1/2: Φ1/2"

③Thread connection

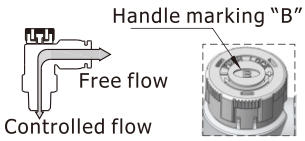
Thread	Adaptable port size
U10: #10-32UNF	Φ5/32" Φ1/4"
1/8: NPT1/8	Φ5/32" Φ1/4" Φ5/16"
1/4: NPT1/4	Φ1/4" Φ5/16" Φ3/8"
3/8: NPT3/8	Φ1/4" Φ5/16" Φ3/8" Φ1/2"
1/2: NPT1/2	Φ5/16" Φ3/8" Φ1/2"

④Control 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				
		Φ5/32"	Φ1/4"	Φ5/16"	Φ3/8"	Φ1/2"
NPTL	#10-32UNF	●	●			
	NPT1/8	●	●	●		
	NPT1/4		●	●	●	
	NPT3/8		●	●	●	●
	NPT1/2			●	●	●

Specification

Operating pressure range	0~145psi(0~1.0MPa)
Negative pressure	10Torr(-750mmHg)
Proof pressure	215psi(1.5MPa)
Ambient and fluid temperature	-5~160°F(-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.

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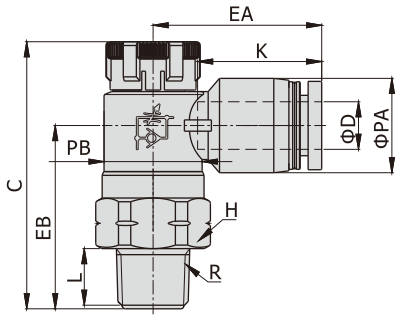
Dimensions

NPTL Series



[Unit: inch]

Model\Item [Note1]	ΦD	R	ΦPA	ΦPB	L	C		K	EA	EB	H
						Pull	Push				
NPTL5/32-U10□-S	5/32	#10-32UNF	0.33	0.35	0.14	1.14	1.10	0.5	0.65	0.75	3/8
NPTL5/32-1/8□-S		NPT1/8	0.33	0.35	0.33	1.14	1.10	0.5	0.65	0.79	7/16
NPTL1/4-U10□-S	1/4	#10-32UNF	0.49	0.35	0.14	1.14	1.10	0.65	0.91	0.73	3/8
NPTL1/4-1/8□-S		NPT1/8	0.49	0.49	0.33	1.42	1.36	0.65	0.89	0.87	1/2
NPTL1/4-1/4□-S		NPT1/4	0.49	0.65	0.43	1.59	1.54	0.65	0.94	1.10	11/16
NPTL1/4-3/8□-S		NPT3/8	0.49	0.75	0.46	1.73	1.67	0.65	1.00	1.22	3/4
NPTL5/16-1/8□-S	5/16	NPT1/8	0.59	0.51	0.33	1.42	1.36	0.73	0.96	0.89	9/16
NPTL5/16-1/4□-S		NPT1/4	0.59	0.65	0.43	1.59	1.54	0.73	1.02	1.06	11/16
NPTL5/16-3/8□-S		NPT3/8	0.59	0.75	0.46	1.73	1.67	0.73	1.06	1.18	3/4
NPTL5/16-1/2□-S		NPT1/2	0.59	0.94	0.58	2.07	2.01	0.73	1.16	1.48	15/16
NPTL3/8-1/4□-S	3/8	NPT1/4	0.71	0.65	0.43	1.59	1.54	0.83	1.22	1.02	11/16
NPTL3/8-3/8□-S		NPT3/8	0.71	0.75	0.46	1.73	1.67	0.83	1.14	1.14	3/4
NPTL3/8-1/2□-S		NPT1/2	0.71	0.94	0.58	2.07	2.01	0.83	1.24	1.44	15/16
NPTL1/2-3/8□-S	1/2	NPT3/8	0.83	0.75	0.46	1.73	1.67	0.89	1.36	1.10	3/4
NPTL1/2-1/2□-S		NPT1/2	0.83	0.94	0.58	2.07	2.01	0.89	1.34	1.42	15/16

[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

1. 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.
2. Push-lock speed controller installation instructions is the same as traditional one. Please refer to traditional type for specific content.

Thread type	Max. allowable torque(N.m)
#10-32UNF	0.05
NPT1/8	0.08
NPT1/4	0.16
NPT3/8	0.24
NPT1/2	0.32

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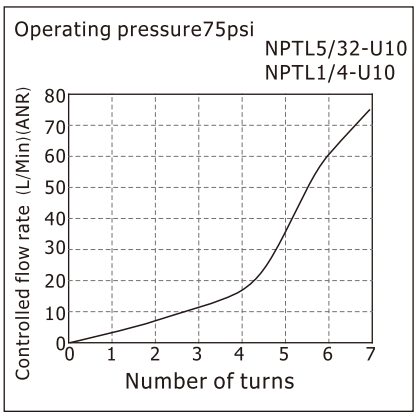
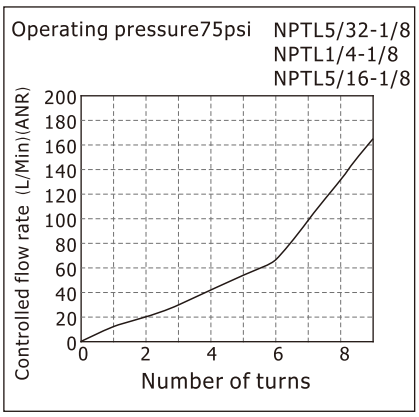
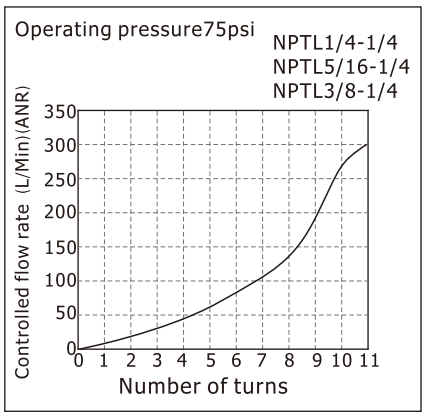
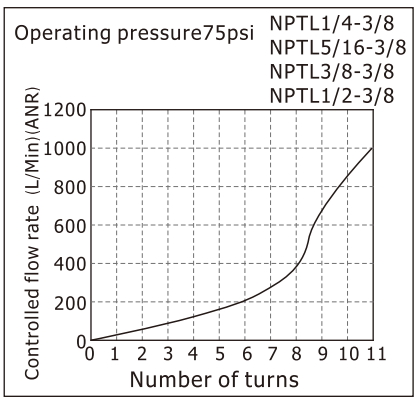
Flowrate characteristic

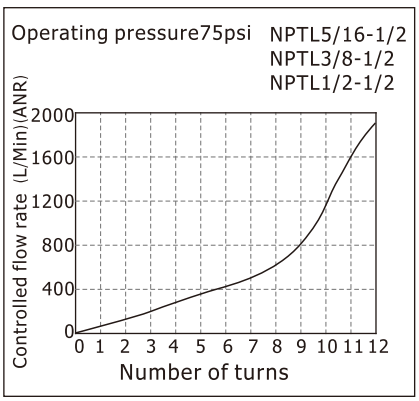
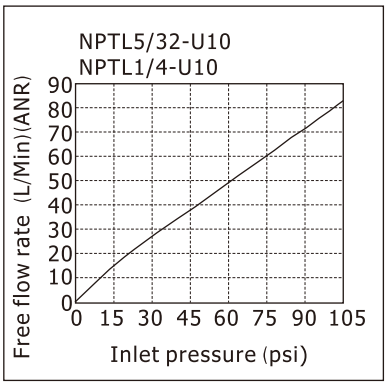
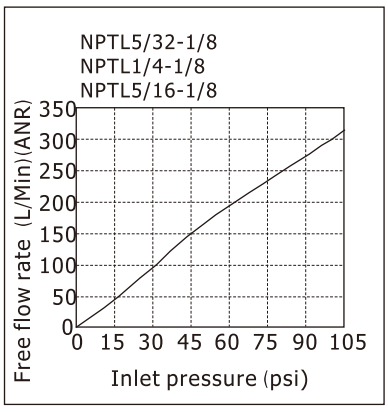
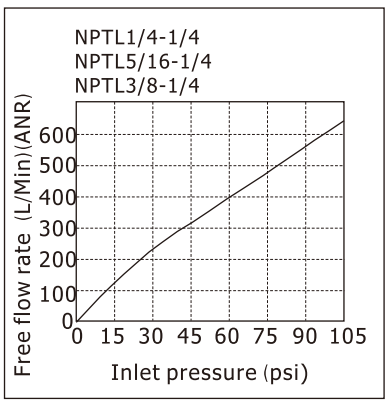
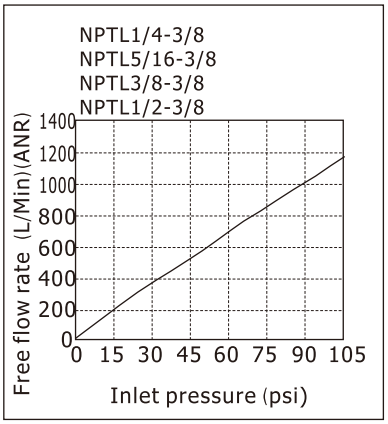
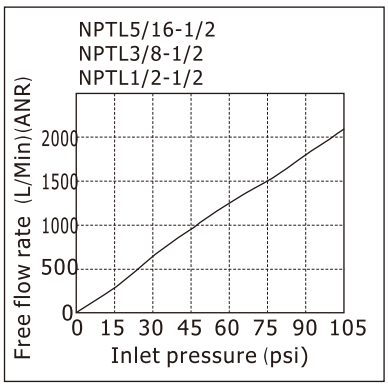
Controlled flow rate











Free flow rate