

Inch Size R(PT) Thread Type

One -Touch Fittings

Compact One -Touch Fittings

— **Speed Controllers**

Rotary Joints

SPEED CONTROLLERS

Application

- Valve used for controlling the operation speed of a driving device.
- Used for movement of machines such as cylinder, pneumatic finger, etc.

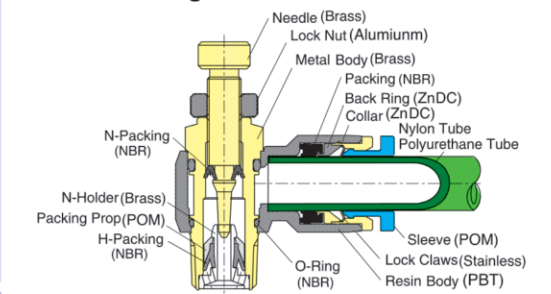
Feature

- Precisely permit the optimal rate of airflow for the smooth cylinder movement of driving devices.
- The Compact and light body permits use in confined space.
- Uni-directional airflow is available for either exhaust or inlet flow control methods.
- The compact design provides a comparable range of speed as the conventional speed controllers do.

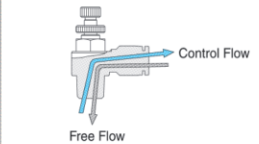
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	7.5PSI	0.5Kgf/cm ² (50kPa)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

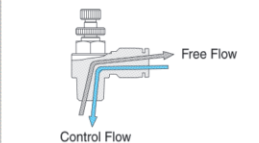
Structural Diagram



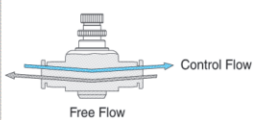
Case In Use



- **Out-Type**
- The way to control of airflow from the thread to the sleeve.
 - Air passes freely from the sleeve to the thread.



- **In-Type**
- The way to control of airflow from the sleeve to the thread.
 - Air passes freely from the thread to the sleeve.



- **Flat-Type**
- The way to control of Free Flow or Control Flow upon piping in accordance with the signal on the body.
 - Air flows from each side of sleeve.

Product Code System

NSE 1/4 - R02 O

① ② ③ ④

① Type

② Tube Dia(∅D)

Code	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Dia	∅1/8	∅5/32	∅3/16	∅1/4	∅5/16	∅3/8	∅1/2

③ Thread Size(T)

Code	Metric Size		Taper Pipe Thread			
	M3	M5	R01	R02	R03	R04
Size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2

④ Control Method

Type	Meter out		Meter in	
	Standard Blue	Compact Black	Standard Red	Compact Red
Symbol				

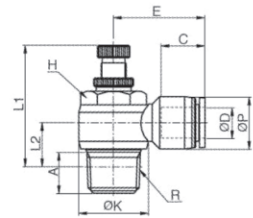
CAUTION

- Be sure to read "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- Never remove the needle by force. It causes separation of the needle from the body.
- There can be a slight leakage, therefore do not use in applications requiring zero air flow rate.

WARNING

- Be sure to use after confirming structural diagram and control direction of each controller, otherwise fittings may result in damage.
- Never roll or turn the body by force.
- When controlling the objective machine's speed, slowly open the needle of speed controller from the closed position.

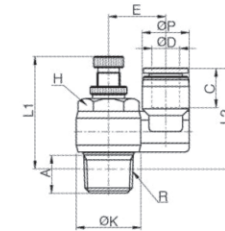
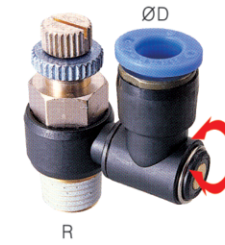
NSE
Elbow



MODEL[ØD-T] Tube(Inch) – Thread(R)

MODEL	ØD	R	C	E	A	H	ØP	ØK	L1(Max)	L2	W.G(g)	Qty/Inbox
NSE 1/4-M5	1/4	M5	17	21.7	3.5	8	12.4	10	26.5	7.5	8.8	100
NSE 1/4-R01	1/4	R1/8	17	22.1	6	14	12.4	14.4	36	11	18.1	50
NSE 1/4-R02	1/4	R1/4	17	24.2	10	14	12.4	18.4	41.5	11.5	37	50
NSE 1/4-R03	1/4	R3/8	17	26.7	12.5	19	12.4	22	47	15	63.9	25
NSE 5/16-R01	5/16	R1/8	18.5	23.7	6	14	14.4	14.4	36	12	19.1	25
NSE 5/16-R02	5/16	R1/4	18.5	26.9	10	14	14.4	18.4	41.5	12.5	36.3	50
NSE 5/16-R03	5/16	R3/8	18.5	27.3	12.5	19	14.4	22	47	14.5	63.4	25
NSE 3/8-R02	3/8	R1/4	21	29.1	10	14	17.6	18.4	41.5	14.5	40.4	25
NSE 3/8-R03	3/8	R3/8	21	29.5	12.5	19	17.6	22	47	16	67.6	25

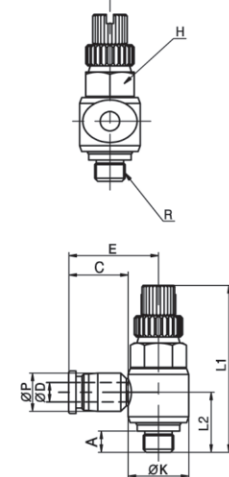
NSS
Straight



MODEL[ØD-T] Tube(Inch) – Thread(R)

MODEL	ØD	R	C	E	A	H	ØP	ØK	L1(Max)	L2	W.G(g)	Qty/Inbox
NSS 1/4-M5	1/4	M5	17	15.9	3.5	8	12.4	10.4	26.5	32.2	8.8	50
NSS 1/4-R01	1/4	R1/8	17	18.1	8	10	12.4	14.4	36	35.3	18	50
NSS 1/4-R02	1/4	R1/4	17	20.1	11.2	14	12.4	18.4	41.5	36.3	37	50
NSS 5/16-R01	5/16	R1/8	18.5	18.1	8	10	14.4	14.4	36	36.8	19.1	25
NSS 5/16-R02	5/16	R1/4	18.5	20.1	11.2	14	14.4	18.4	41.5	37.8	36.2	50
NSS 5/16-R03	5/16	R3/8	18.5	22.5	13.3	19	14.4	22	47	38.8	63.3	25
NSS 3/8-R02	3/8	R1/4	21	20.1	11.2	14	17.6	18.4	41.5	40.5	40.4	25
NSS 3/8-R03	3/8	R3/8	21	22.5	13.3	19	17.6	22	47	41.5	67.3	25

NSE-C
Mini Elbow



MODEL[ØD-T] Tube(Inch) – Thread(R)

MODEL	ØD	R	C	E	A	H	ØP	ØK	L1(Max)	L2	W.G(g)	Qty/Inbox
NSE 1/8-M3C	1/8	M3	9	14	4	8	6.3	10	26.5	6.9	6.7	100
NSE 1/8-M5C	1/8	M5	9	14	4	8	6.3	10	2.5	6.4	8.1	100
NSE 5/32-M3C	5/32	M3	11.7	15.7	4	8	8	10	26.5	6.9	14.2	100
NSE 5/32-M5C	5/32	M5	11.7	15.7	4	8	8	10	26.5	6.4	15.3	100
NSE 5/32-01C	5/32	R1/8	11.7	17.8	8	10	8	14	36	11.2	17.8	50
NSE 1/4-M5C	1/4	M5	12	16.4	4	8	10.4	10	26.5	6.4	16.4	100
NSE 1/4-01C	1/4	R1/8	12	18.2	8	10	10.4	14	36	11.2	18	50