Speed Controllers

용 도 Applications

- 공기압용 구동기기의 속도 제어에 사용하는 밸브입니다.
- 주로 에어 구동기기에 장착하여 많이 사용됩니다.
- A valve to control the speed of the air pressure actuator.
- Mainly installed in the air actuator.

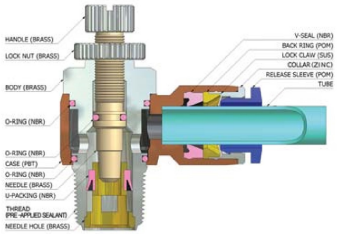
특 징 Features

- 미세한 유량조절로 유량제어가 용이합니다.
- 취부 후 본체 부분이 360 ° 회전 가능함으로 튜브 방향, 각도를 배관에 맞게 조절하여 사용할 수 있습니다.
- 니들회전수가 10~12회전으로 증가되어 속도제어가 용이하고 일정한 속도 제어가 가능합니다.
- 협소한 공간 및 간섭을 제한 받을 수 있는 공간에서 드라이브공구를 이용, 속도제어를 용이하게 조절하여 사용할 수 있습니다. (NSC[D]타입)
- 소형화된 제품들은 장비에 부착시 차지하는 면적이 작습니다.
- Accurate regulation of an optimal airflow rate for precise motion control.
- Tube direction and angle are controlled according to piping as the main body can rotate up to 360 after assembly.
- Needle rotation is increased to 10–12 times for easy speed and regular speed control.
- Easy speedcontrol with drive tools in limited and crowded spaces. (NSC(D) and NSC(DC) types)
- Miniaturized products occupy small space attaching to devices.

사 양 Specifications

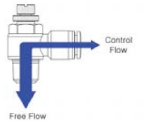
- 사용유체 Fluid type : 압축공기 Air(No other gases or liquids) Do not use with water application
- 사용압력 Working pressure:14.2~150PSI / 1~9.9kgf/㎠(0~990kPa)
  ※적용Tube와의 조합에 있어서 Tube의 최고사용압력에 의거합니다
- 사용온도 범위 Working temperature : 32~140° F / 0~60°C
- 사용호스 종류 Applicable Tube: Polyurethane and Nylon

Structural Diagram



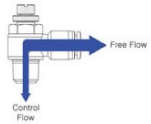
사용예 Applied example

Meter-Out method control



나사측으로부터 들어오는 Air를 제어하는 방식이며 피팅방향에서 들어오는 Air는 제어하지 않고 자유 흐름으로 흐릅니다
This product controls the air from the screw side, but does not control it from the tube side, thus allowing free flow.

Meter-In method control



피팅방향에서 들어오는 Air는 제어하고 나사방향에서 들어오는 Air는 제어하지 않고 자유흐름으로 흐릅니다
It controls the airflow from the tube side, but does not control it from the screw side, thus allowing free flow.

주문형식 Product Code System

METRIC - BSPT(R)

NSC 06 – 01 – M0

Speed Controllers

Tube Dia	
CODE	SIZE
04	Ø4
06	Ø6
08	Ø8
10	Ø10
12	Ø12

Thread Size	
METRIC THREAD	
CODE	SIZE
M5	M5×0.8
R(PT) THREAD	
CODE	SIZE
01	R1/8
02	R1/4
03	R3/8
04	R1/2

Control Method	
METER-OUT	
CODE	No Signal
METER-IN	
CODE	IN

Sleeve Color	
M0	BLUE
MI	RED

METRIC - BSPP(G)

NSC 06 – G01

Speed Controllers

Tube Dia	
CODE	SIZE
04	Ø4
06	Ø6
08	Ø8
10	Ø10
12	Ø12

Thread Size	
G(PF) THREAD	
CODE	SIZE
G01	G1/8
G02	G1/4
G03	G3/8
G04	G1/2

Sleeve Color	
M0	BLUE
MI	RED

INCH - BSPT(R)

NSC 1/4 – 01

Speed Controllers

Tube Dia	
CODE	SIZE
5/32	Ø5/32
3/16	Ø3/16
1/4	Ø1/4
5/16	Ø5/16
3/8	Ø3/8
1/2	Ø1/2

Thread Size	
METRIC THREAD	
CODE	SIZE
M5	M5×0.8
R(PT) THREAD	
CODE	SIZE
01	R1/8
02	R1/4
03	R3/8
04	R1/2

INCH - NPT

NSC 1/4 – N1 – M0

Speed Controllers

Tube Dia	
CODE	SIZE
5/32	Ø5/32
3/16	Ø3/16
1/4	Ø1/4
5/16	Ø5/16
3/8	Ø3/8
1/2	Ø1/2

Thread Size	
UNF THREAD	
CODE	SIZE
U	10-32UNF
NPT THREAD	
CODE	SIZE
N1	NPT1/8
N2	NPT1/4
N3	NPT3/8
N4	NPT1/2

Control Method	
METER-OUT	
CODE	No Signal
METER-IN	
CODE	IN

Sleeve Color	
M0	BLACK
MI	RED

NSC

Elbow

Swivel rotating type

MODEL(ΦD–T)

Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
NSC 03-M5	NSC 08-03	NSC 1/4-M5	NSC 1/8-U	NSC 1/4-N3	NSC 04-G01	NSC 10-G02
NSC 04-M5	NSC 08-04	NSC 1/4-01	NSC 5/32-U	NSC 5/16-N1	NSC 04-G02	NSC 10-G03
NSC 04-01	NSC 10-01	NSC 1/4-02	NSC 5/32-N1	NSC 5/16-N2	NSC 06-G01	NSC 10-G04
NSC 04-02	NSC 10-02	NSC 5/16-01	NSC 5/32-N2	NSC 5/16-N3	NSC 06-G02	NSC 12-G02
NSC 06-M5	NSC 10-03	NSC 5/16-02	NSC 3/16-U	NSC 5/16-N4	NSC 06-G03	NSC 12-G03
NSC 06-01	NSC 10-04	NSC 5/16-03	NSC 3/16-N1	NSC 3/8-N2	NSC 06-G04	NSC 12-G04
NSC 06-02	NSC 12-02	NSC 3/8-02	NSC 3/16-N2	NSC 3/8-N3	NSC 08-G01	
NSC 06-03	NSC 12-03	NSC 3/8-03	NSC 3/16-N3	NSC 3/8-N4	NSC 08-G02	
NSC 06-04	NSC 12-04		NSC 1/4-U	NSC 1/2-N2	NSC 08-G03	
NSC 08-01			NSC 1/4-N1	NSC 1/2-N3	NSC 08-G04	
NSC 08-02			NSC 1/4-N2	NSC 1/2-N4	NSC 10-G01	

NSC-G

Elbow

Swivel rotating type

NSC (D)

Elbow

Swivel rotating type

MODEL(ΦD–T)

Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
NSC 03-M5(D)	NSC 08-03(D)	NSC 1/4-M5(D)	NSC 1/8-U(D)	NSC 1/4-N3(D)	NSC 04-G01(D)	NSC 10-G02(D)
NSC 04-M5(D)	NSC 08-04(D)	NSC 1/4-01(D)	NSC 5/32-U(D)	NSC 5/16-N1(D)	NSC 04-G02(D)	NSC 10-G03(D)
NSC 04-01(D)	NSC 10-01(D)	NSC 1/4-02(D)	NSC 5/32-N1(D)	NSC 5/16-N2(D)	NSC 06-G01(D)	NSC 10-G04(D)
NSC 04-02(D)	NSC 10-02(D)	NSC 5/16-01(D)	NSC 5/32-N2(D)	NSC 5/16-N3(D)	NSC 06-G02(D)	NSC 12-G02(D)
NSC 06-M5(D)	NSC 10-03(D)	NSC 5/16-02(D)	NSC 3/16-U(D)	NSC 5/16-N4(D)	NSC 06-G03(D)	NSC 12-G03(D)
NSC 06-01(D)	NSC 10-04(D)	NSC 5/16-03(D)	NSC 3/16-N1(D)	NSC 3/8-N2(D)	NSC 06-G04(D)	NSC 12-G04(D)
NSC 06-02(D)	NSC 12-02(D)	NSC 3/8-02(D)	NSC 3/16-N2(D)	NSC 3/8-N3(D)	NSC 08-G01(D)	
NSC 06-03(D)	NSC 12-03(D)	NSC 3/8-03(D)	NSC 3/16-N3(D)	NSC 3/8-N4(D)	NSC 08-G02(D)	
NSC 06-04(D)	NSC 12-04(D)		NSC 1/4-U(D)	NSC 1/2-N3(D)	NSC 08-G03(D)	
NSC 08-01(D)			NSC 1/4-N1(D)	NSC 1/2-N4(D)	NSC 08-G04(D)	
NSC 08-02(D)			NSC 1/4-N2(D)		NSC 10-G01(D)	

NSC-G (D)

Elbow

Swivel rotating type

NSC (DC)

MODEL(ΦD-T)						
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
NSC 03-M5(DC)	NSC 08-03(DC)	NSC 1/4-M5(DC)	NSC 1/8-U(DC)	NSC 1/4-N3(DC)	NSC 04-G01(DC)	NSC 10-G02(DC)
NSC 04-M5(DC)	NSC 08-04(DC)	NSC 1/4-01(DC)	NSC 5/32-U(DC)	NSC 5/16-N1(DC)	NSC 04-G02(DC)	NSC 10-G03(DC)
NSC 04-01(DC)	NSC 10-01(DC)	NSC 1/4-02(DC)	NSC 5/32-N1(DC)	NSC 5/16-N2(DC)	NSC 06-G01(DC)	NSC 10-G04(DC)
NSC 04-02(DC)	NSC 10-02(DC)	NSC 5/16-01(DC)	NSC 5/32-N2(DC)	NSC 5/16-N3(DC)	NSC 06-G02(DC)	NSC 12-G02(DC)
NSC 06-M5(DC)	NSC 10-03(DC)	NSC 5/16-02(DC)	NSC 3/16-U(DC)	NSC 5/16-N4(DC)	NSC 06-G03(DC)	NSC 12-G03(DC)
NSC 06-01(DC)	NSC 10-04(DC)	NSC 5/16-03(DC)	NSC 3/16-N1(DC)	NSC 3/8-N2(DC)	NSC 06-G04(DC)	NSC 12-G04(DC)
NSC 06-02(DC)	NSC 12-02(DC)	NSC 3/8-02(DC)	NSC 3/16-N2(DC)	NSC 3/8-N3(DC)	NSC 08-G01(DC)	
NSC 06-03(DC)	NSC 12-03(DC)	NSC 3/8-03(DC)	NSC 3/16-N3(DC)	NSC 3/8-N4(DC)	NSC 08-G02(DC)	
NSC 06-04(DC)	NSC 12-04(DC)		NSC 1/4-U(DC)	NSC 1/2-N3(DC)	NSC 08-G03(DC)	
NSC 08-01(DC)			NSC 1/4-N1(DC)	NSC 1/2-N4(DC)	NSC 08-G04(DC)	
NSC 08-02(DC)			NSC 1/4-N2(DC)		NSC 10-G01(DC)	

Elbow

Swivel rotating type

NSC-G (DC)

Elbow

Swivel rotating type

NSS

MODEL(ΦD-T)					
Tube(Metric)-Thread(R)			Tube(Metric)-Thread(G)		
NSS 04-M5	NSS 06-03	NSS 10-03	NSS 04-G01	NSS 08-G02	NSS 12-G02
NSS 04-01	NSS 08-01	NSS 10-04	NSS 04-G02	NSS 08-G03	NSS 12-G03
NSS 04-02	NSS 08-02	NSS 12-02	NSS 06-G01	NSS 08-G04	NSS 12-G04
NSS 06-M5	NSS 08-03	NSS 12-03	NSS 06-G02	NSS 10-G02	
NSS 06-01	NSS 08-04	NSS 12-04	NSS 06-G03	NSS 10-G03	
NSS 06-02	NSS 10-02		NSS 08-G01	NSS 10-G04	

Elbow

Swivel rotating type

NSS-G

Elbow

Swivel rotating type

NSS(D)

MODEL(ΦD-T)					
Tube(Metric)-Thread(R)			Tube(Metric)-Thread(G)		
NSS 04-M5(D)	NSS 06-03(D)	NSS 10-03(D)	NSS 04-G01(D)	NSS 08-G02(D)	NSS 12-G02(D)
NSS 04-01(D)	NSS 08-01(D)	NSS 10-04(D)	NSS 04-G02(D)	NSS 08-G03(D)	NSS 12-G03(D)
NSS 04-02(D)	NSS 08-02(D)	NSS 12-02(D)	NSS 06-G01(D)	NSS 08-G04(D)	NSS 12-G04(D)
NSS 06-M5(D)	NSS 08-03(D)	NSS 12-03(D)	NSS 06-G02(D)	NSS 10-G02(D)	
NSS 06-01(D)	NSS 08-04(D)	NSS 12-04(D)	NSS 06-G03(D)	NSS 10-G03(D)	
NSS 06-02(D)	NSS 10-02(D)		NSS 08-G01(D)	NSS 10-G04(D)	

Elbow

Swivel rotating type

NSS-G(D)

Elbow

Swivel rotating type

NSS(DC)

MODEL(ΦD-T)					
Tube(Metric)-Thread(R)			Tube(Metric)-Thread(G)		
NSS 04-M5(DC)	NSS 06-03(DC)	NSS 10-03(DC)	NSS 04-G01(DC)	NSS 08-G02(DC)	NSS 12-G02(DC)
NSS 04-01(DC)	NSS 08-01(DC)	NSS 10-04(DC)	NSS 04-G02(DC)	NSS 08-G03(DC)	NSS 12-G03(DC)
NSS 04-02(DC)	NSS 08-02(DC)	NSS 12-02(DC)	NSS 06-G01(DC)	NSS 08-G04(DC)	NSS 12-G04(DC)
NSS 06-M5(DC)	NSS 08-03(DC)	NSS 12-03(DC)	NSS 06-G02(DC)	NSS 10-G02(DC)	
NSS 06-01(DC)	NSS 08-04(DC)	NSS 12-04(DC)	NSS 06-G03(DC)	NSS 10-G03(DC)	
NSS 06-02(DC)	NSS 10-02(DC)		NSS 08-G01(DC)	NSS 10-G04(DC)	

Elbow

Swivel rotating type

NSS-G(DC)

Elbow

Swivel rotating type

NSF

MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
NSF 04	NSF 5/32
NSF 06	NSF 3/16
NSF 08	NSF 1/4
NSF 10	NSF 5/16
NSF 12	NSF 3/8
	NSF 1/2

Inch

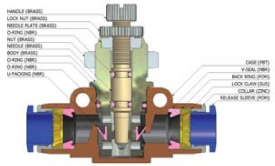
용도 및 특징

- Union 속도제어 벨브의 판넬 마운트 타입입니다
- 육각 너트에 의한 취부 및 분리가 편리 합니다
- 일정한 속도 제어가 가능합니다

Applications and Features

- Panel-mounting type of speed controller
- Easy installation and maintenance with a hexagonal nut.
- Accurate and constant speed control

Structural Diagram



NSFB

NEW PRODUCTS

MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
NSFB 04	NSFB 5/32
NSFB 06	NSFB 3/16
NSFB 08	NSFB 1/4
NSFB 10	NSFB 5/16
NSFB 12	NSFB 3/8
	NSFB 1/2

Inch

QUICK EXHAUST SPEED CONTROLLERS

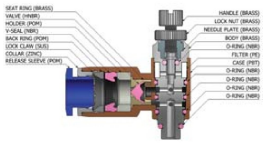
용 도 및 특징

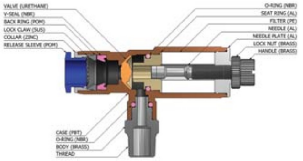
- 급속배기 밸브 + 배기속도 조절기 기능.
- 실린더의 고속구동 실현
- 소음기 내장형 속도조절 원터치 피팅.

Applications and Features

- Quick exhaust valve with Speed controller
- High speed cylinders operation
- Silencer installed with speed controllers

Structural Diagram





ESC

NEW PRODUCTS

MODEL			
Tube(Metric)-Thread(M)	Tube(Metric)-Thread(R)	Tube(Metric)-Thread(R)	Tube(Metric)-Thread(R)
ESC 04-M3	ESC 06-S-01	ESC 08-M-01	ESC 10-L-02
ESC 04-M5	ESC 06-S-02	ESC 08-M-02	ESC 10-L-03
ESC 06-M5	ESC 08-S-01	ESC 08-M-03	ESC 10-L-04
	ESC 08-S-02	ESC 10-M-01	ESC 12-L-02
		ESC 10-M-02	ESC 12-L-03
		ESC 10-M-03	ESC 12-L-04