

SPEED CONTROLLERS

Speed Controllers



특징

- 공기압용 구동기기의 속도제어 밸브입니다.
- 미세한 유량조절로 속도제어가 용이합니다.
- SP 타입의 경우 취부 후 본체(CASE) 부분이 회전되어 배관이 용이합니다.
- 니켈도금으로 표면처리가 되어 있어 내부식성이 뛰어납니다.

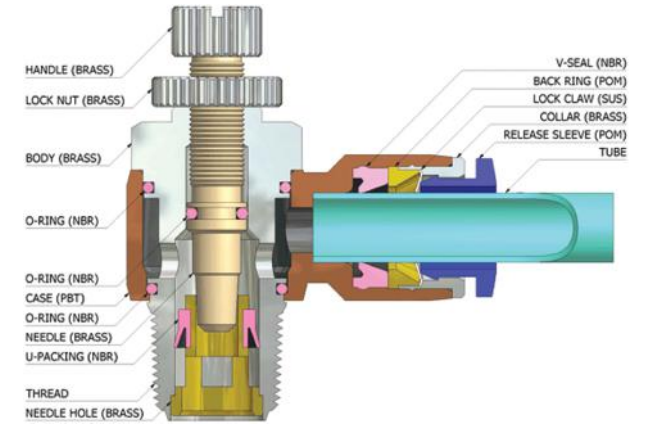
주문형식 (모델명)

SP 2 2 0 1F - 02 - 08 S D-W

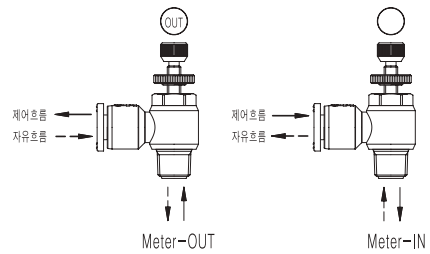
1 2 3 4 5 6 7 8

- ① 바디 크기
 - 1 : M5
 - 2 : R 1/8, 1/4
 - 3 : R 3/8
 - 4 : R 1/2
 - ② 타입
 - 0 : Union
 - 2 : Elbow
 - 3 : Universal
 - ③ 유량 제어방향
 - 0 : Meter-Out
 - 1 : Meter-In
 - ④ 원터치 피팅형
- ⑤ 나사 크기
 - M5 : M5 x 0.8
 - 01 : R 1/8
 - 02 : R 1/4
 - 03 : R 3/8
 - 04 : R 1/2
 - ⑥ 사용관 외경
 - 04 : Ø4
 - 06 : Ø6
 - 08 : Ø8
 - 10 : Ø10
 - 12 : Ø12
 - ⑦ 나사부의 실란트 처리 (R 나사)
 - S : Sealant
 - ⑧ 일자 드라이버 조정형
 - 무기호 : 기본형
 - D : Driver

구조도



유량 제어방향 구분 (Meter-Out/-In)



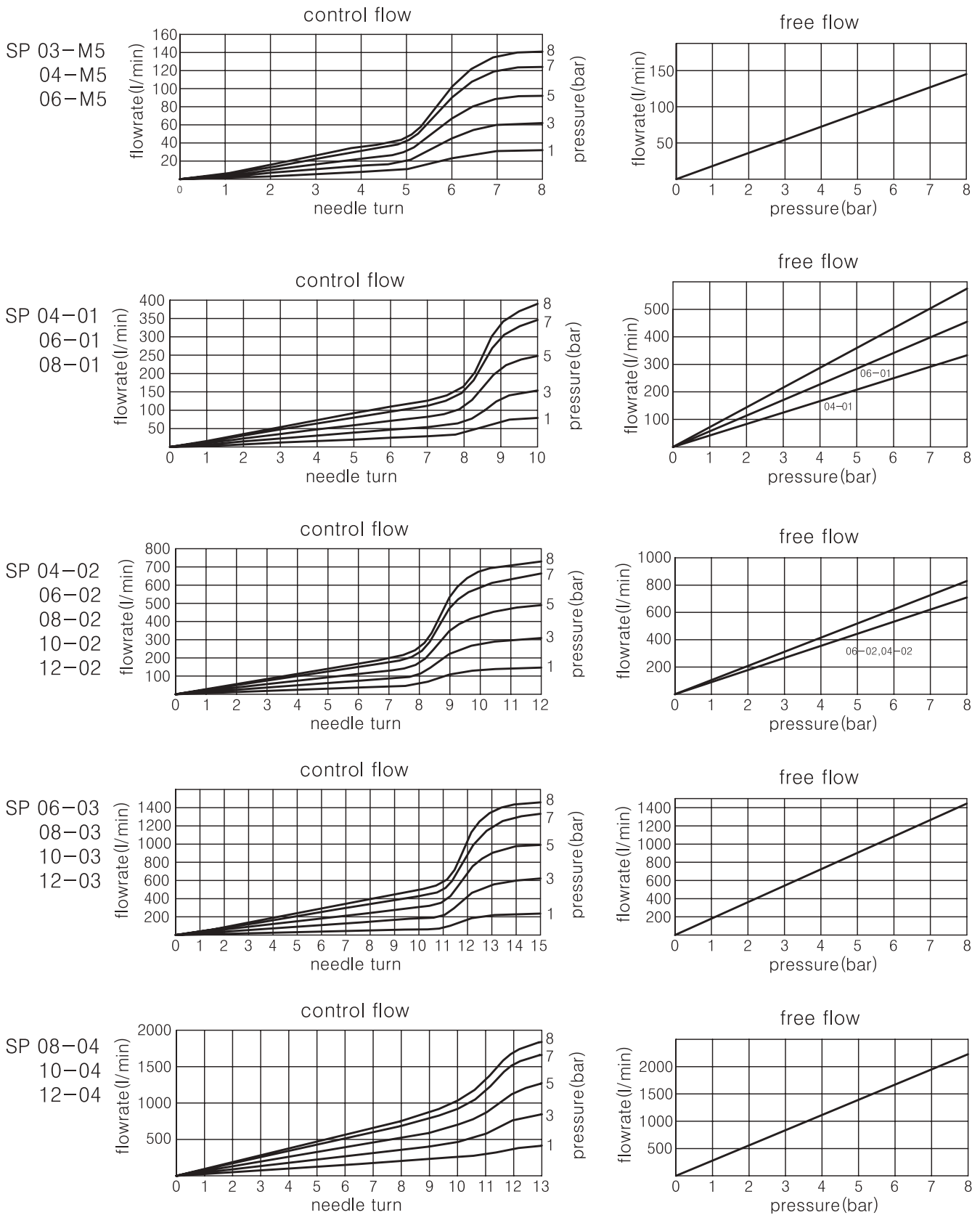
표준사양

사용유체	공기 (Air)
사용압력	0~150psi (0~9.9kgf/cm ²)
사용온도	0~60 °C
사 용 관	폴리우레탄 튜브, 나이론 튜브

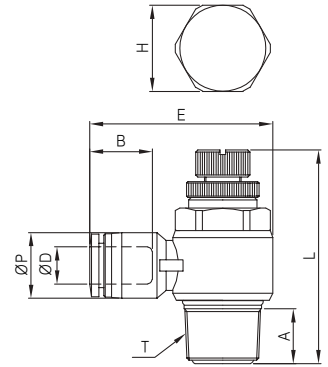
제품별 주의사항

사용하기 전에 필히 숙지하시고, 안전상의 주의사항 및 공통 주의사항을 참고 하십시오.

SP 유량 그래프



SP



METRIC-BSPT(R)

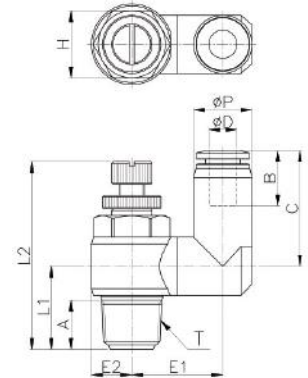
단위 : mm

MODEL	ØD (Tube Size)	T (Tube Size)	ØP	L		E	A	B	H (Hex.)	Weight (g)
				MIN	MAX					
SP1201F-M5-04	4	M5×0.8	10.5	27.1	29.1	25.4	3.6	14.9	8	9.0
SP2201F-01-04S		R 1/8		35.5	40.7	30.5	8.2		11	20.0
SP2201F-02-04S		R 1/4		40.3	46.6	34.5	11.0		15	36.0
SP1201F-M5-06	6	M5×0.8	12.5	27.1	29.1	27.8	3.6	16.4	8	10.0
SP2201F-01-06S		R 1/8		35.5	40.7	31.3	8.2		11	21.0
SP2201F-02-06S		R 1/4		40.3	46.6	35.3	11.0		15	37.0
SP3201F-03-06S		R 3/8		46.9	54.9	38.8	12.2		19	70.0
SP4201F-04-06S	R 1/2	54.0	60.1	44.9	16.5	24	108.0			
SP2201F-01-08S	8	R 1/8	14.5	35.5	40.7	33.4	8.2	18.7	11	22.0
SP2201F-02-08S		R 1/4		40.3	46.6	37.4	11.0		15	38.0
SP3201F-03-08S		R 3/8		46.9	54.9	40.4	12.2		19	71.0
SP4201F-04-08S		R 1/2		54.0	60.1	46.3	16.5		24	109.0
SP2201F-02-10S	10	R 1/4	17.5	40.3	46.6	38.8	11.0	20.1	15	42.0
SP3201F-03-10S		R 3/8		46.9	54.9	42.1	12.2		19	73.0
SP4201F-04-10S		R 1/2		54.0	60.1	47.3	16.5		24	110.0
SP3201F-03-12S	12	R 3/8	20.5	46.9	54.9	45.2	12.2	22.8	19	75.0
SP4201F-04-12S		R 1/2		54.0	60.1	50.1	16.5		24	113.0

주) SP××01F(Meter-Out)과 SP××11F(Meter-In)의 외관 치수는 동일함.

SP

유니버설 타입



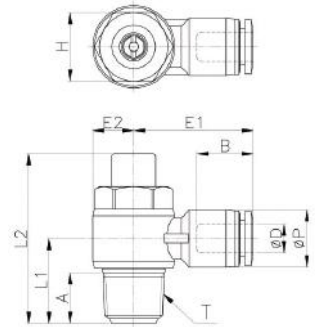
METRIC-BSPT(R)

단위 : mm

MODEL	ØD (Tube Size)	ØP	T (Tube Size)	L1	L2(MIN)	E1	E2	A	B	H (Hex.)	C	Weight (g)
SP1301F-M5-04S	4	10.5	M5×0.8	9.6	27.1	12.3	5.2	3.6	14.8	8	20.3	9.2
SP2301F-01-04S			R 1/8	15.1	35.5	14.3	7.0	8.2		15	20.3	36.1
SP2301F-02-04S			R 1/4	18.4	40.3	17.8	9.2	11.0		15	20.3	36.1
SP1301F-M5-06S	6	12.5	M5×0.8	9.6	27.1	13.3	5.2	3.6	16.4	8	22.4	10.2
SP2301F-01-06S			R 1/8	15.6	35.5	15.0	7.0	8.2		11	24.0	21.1
SP2301F-02-06S			R 1/4	18.4	40.3	20.3	9.2	11.0		15	25.9	38.7
SP3301F-03-06S			R 3/8	21.9	46.9	23.3	11.5	12.2		19	25.9	70.2
SP2301F-01-08S	8	14.8	R 1/8	15.6	35.5	16.2	7.0	8.2	18.3	11	24.9	22.1
SP2301F-02-08S			R 1/4	18.4	40.3	19.3	9.2	11.0		15	28.3	39.8
SP3301F-03-08S			R 3/8	22.4	46.9	24.6	11.5	12.2		19	29.3	71.4
SP4301F-04-08S			R 1/2	26.6	54.0	26.6	14.3	16.5		24	29.3	110.0
SP2301F-02-10S	10	17.5	R 1/4	18.4	40.3	20.3	9.2	11.0	20.2	15	30.7	42.2
SP3301F-03-10S			R 3/8	22.4	46.9	24.6	11.5	12.2		19	31.7	73.5
SP4301F-04-10S			R 1/2	26.7	54.0	26.7	14.3	16.5		24	33.1	112.5
SP2301F-02-12S	12	20.5	R 1/4	18.4	40.3	21.8	9.2	11.0	22.9	15	33.4	44.1
SP3301F-03-12S			R 3/8	22.4	46.9	24.6	11.5	12.2		19	34.4	79.0
SP4301F-04-12S	R 1/2	26.7	54.0	26.7	14.3	16.5	24	35.8	115.9			

SP-D

일자 드라이버 조정형

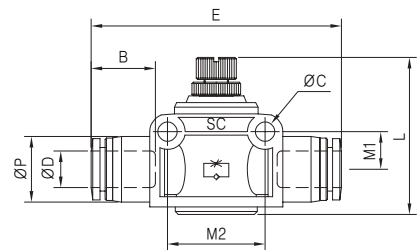


METRIC-BSPT(R)

단위 : mm

MODEL	ØD (Tube Size)	ØP	T (Tube Size)	L1	L2	E1	E2	A	B	H (Hex.)	Weight (g)
SP1201F-M5-03SD	3	7.8	M5×0.8	9.6	23.2	16.5	5.0	3.6	11.3	8	6.0
SP1210F-M5-04SD			M5×0.8	10.3	23.2	20.2	5.0	3.6	14.8	8	7.0
SP2201F-01-04SD	4	10.5	R 1/8	15.1	31.5	23.3	7.0	8.2	15.3	11	16.0
SP2201F-02-04SD			R 1/4	18.4	37.0	25.3	9.0	11.0	15.3	15	35.0
SP1201F-M5-06SD			M5×0.8	11.4	23.2	22.7	5.0	3.6	16.4	8	9.0
SP2201F-01-06SD	6	12.5	R 1/8	15.1	31.5	24.2	7.0	8.2	16.4	11	18.0
SP2201F-02-06SD			R 1/4	18.4	37.0	26.2	9.0	11.0	16.4	15	33.0
SP3201F-03-06SD			R 3/8	21.9	43.3	27.2	11.0	12.2	16.4	19	63.0
SP4201F-04-06SD			R 1/2	26.5	50.2	30.8	14.0	16.5	16.4	24	108.0
SP2201F-01-08SD	8	14.5	R 1/8	16.2	31.5	25.9	7.0	8.2	18.3	11	20.0
SP2201F-02-08SD			R 1/4	19.2	37.0	27.9	9.0	11.0	18.3	15	34.0
SP3201F-03-08SD			R 3/8	21.9	43.3	28.9	11.0	12.2	18.3	19	64.0
SP4201F-04-08SD			R 1/2	26.5	50.2	31.8	14.0	16.5	18.3	24	100.0
SP2201F-01-10SD	10	17.5	R 1/8	17.7	31.5	27.9	7.0	8.2	19.7	11	26.0
SP2201F-02-10SD			R 1/4	20.7	37.0	29.9	9.0	11.0	19.7	15	38.0
SP3201F-03-10SD			R 3/8	23.2	43.3	31.0	11.2	12.2	19.7	19	63.0
SP4201F-04-10SD			R 1/2	26.5	50.2	33.4	14.0	16.5	19.7	24	103.0
SP2201F-02-12SD	12	20.5	R 1/4	22.2	37.0	33.3	9.0	11.0	21.9	15	42.0
SP3201F-03-12SD			R 3/8	24.0	43.3	33.7	11.5	12.2	21.9	19	65.0
SP4201F-04-12SD			R 1/2	28.0	50.2	36.1	14.0	16.5	21.9	24	104.0

SPF



METRIC-BSPT(R)

단위 : mm

MODEL	ØD (Tube Size)	ØP	L MIN	L MAX	E	ØC	B	M1	M2	Weight (g)
SP100F-04	4	10.5	26.4	28.9	44.8	3.2	14.9	5.6	15.4	13.0
SP200F-06	6	12.5	33.5	37.9	49.6	4.3	16.4	8.0	20.4	28.0
SP205F-08	8	14.8	35.5	41.5	56.4	4.4	18.7	8.5	22.0	45.0
SP300F-10	10	17.5	40.7	48.7	61.4	4.3	20.1	10.3	28.1	84.0
SP300F-12	12	20.5	45.0	53.5	70.3	4.4	22.8	12.1	32.0	123.0

SPEED CONTROLLERS

Speed Controllers



특징

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

주문형식 (모델명)

SPE 06 - S - 02S

1 2 3

1 사용관 외경

- 04 : Ø4
- 06 : Ø6
- 08 : Ø8
- 10 : Ø10
- 12 : Ø12

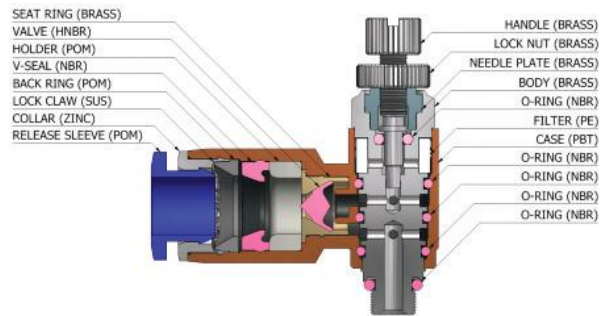
2 타입

- S : Small
- M : Medium
- L : Large

3 나사 크기

- M3 : M3 x 0.5
- M5 : M5 x 0.8
- 01 : R 1/8
- 02 : R 1/4
- 03 : R 3/8
- 04 : R 1/2

구조도



표준사양

사용유체	AIR(No other type of gas or liquid)	
사용압력	0~150(Psi)	0~9.9kgf/cm ² (0~990Kpa)
부 압	~29.5in Hg	-750mmHg(-750Torr)
사용온도범위	32~140°F	0~60°C

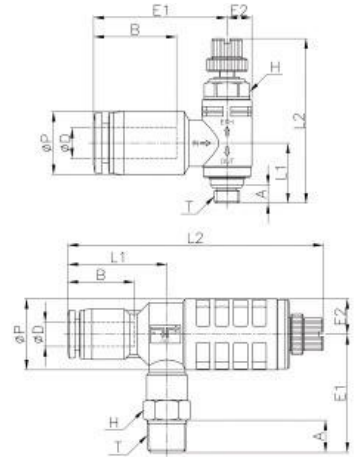
제품별 주의사항

사용하기 전에 필히 숙지하시고, 안전상의 주의사항 및 공통 주의사항을 참고 하십시오.

SPE



MODEL	ØD	ØP	T	L1	L2(MIN)	L2(MAX)	E1	E2	A	B	H (Hex)	Weight (g)
SPE04-M3	4	10.3	M3X0.5p	11.9	32.2	34.7	25.8	4.9	3.0	14.8	8	11.4
SPE04-M5			M5X0.8p	11.9	32.2	34.7	25.8	4.9	3.6	14.8	8	11.3
SPE06-M5	6	12.5	M5X0.8p	11.9	32.2	34.7	26.4	4.9	3.6	16.5	8	12.3
SPE06-S-01S			R 1/8	24.5	63.3	72.0	29.3	8.8	8.0	16.5	10	21.5
SNPE06-S-02S			R 1/4	24.5	63.3	72.0	31.3	8.8	10	16.5	14	26.3
SPE08-S-01S	8	14.8	R 1/8	26.5	65.1	71.7	29.3	8.8	8.0	18.3	10	22.5
SPE08-S-02S			R 1/4	26.5	65.1	71.7	31.3	8.8	10	18.3	14	27.4
SPE08-M-01S			R 1/8	29.8	73.2	82.3	34.5	12	8.0	18.3	14	40.0
SPE08-M-02S			R 1/4	29.8	73.2	82.3	37.5	12	10	18.3	14	42.9
SPE08-M-03S			R 3/8	29.8	73.2	82.3	38.5	12	11	18.3	17	48.5
SPE10-M-01S	10	17.5	R 1/8	31.7	75.0	84.1	34.5	12	8.0	20.1	14	41.7
SPE10-M-02S			R 1/4	31.7	75.0	84.1	37.5	12	10	20.1	14	44.7
SPE10-M-03S			R 3/8	31.7	75.0	84.1	38.5	12	11	20.1	17	50.2
SPE10-L-02S	10	17.5	R 1/4	34.4	80.1	88.6	42.4	15	10	20.1	19	72.5
SPE10-L-03S			R 3/8	34.4	80.1	88.6	43.4	15	11	20.1	19	76.5
SPE10-L-04S			R 1/2	34.4	80.1	88.6	46.4	15	14	20.1	21	85.2
SPE12-L-02S	12	20.5	R 1/4	37.1	83.1	91.6	42.4	15	10	23.1	19	75.2
SPE12-L-03S			R 3/8	37.1	83.1	91.6	43.4	15	11	23.1	19	79.2
SPE12-L-04S			R 1/2	37.1	83.1	91.6	46.4	15	14	23.1	21	88.1



SPEED CONTROLLERS

Speed Controllers



특징

- 속도제어 및 잔압 배출에 사용하는 밸브입니다.
- 미세한 유량조절로 유량제어가 용이합니다.
- 일정한 속도 제어가 가능합니다.

주문형식 (모델명)

SP R - 06 - 02S

1 2 3

1 타입

R : Elbow
U : Universal

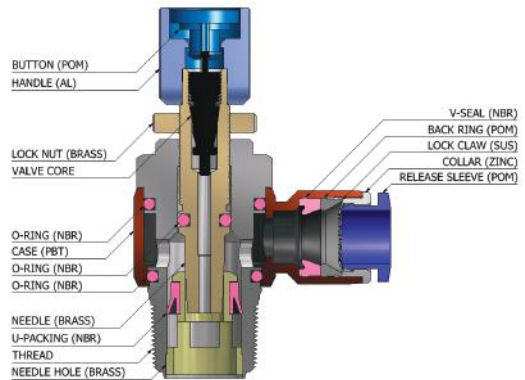
2 사용관 외경

04 : Ø4
06 : Ø6
08 : Ø8
10 : Ø10
12 : Ø12

3 나사 크기

01 : R 1/8
02 : R 1/4
03 : R 3/8
04 : R 1/2

구조도



표준사양

사용유체	AIR(No other type of gas or liquid)	
사용압력	0~150(Psi)	0~9.9kgf/cm ² (0~990Kpa)
부 압	~29.5in Hg	-750mmHg(-750Torr)
사용온도범위	32~140°F	0~60°C

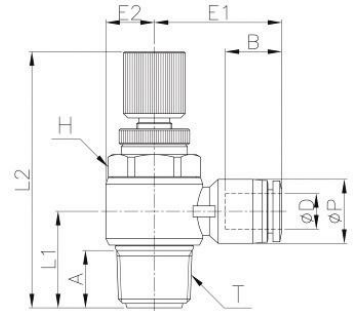
제품별 주의사항

사용하기 전에 필히 숙지하시고, 안전상의 주의사항 및 공통 주의사항을 참고 하십시오.

SPR



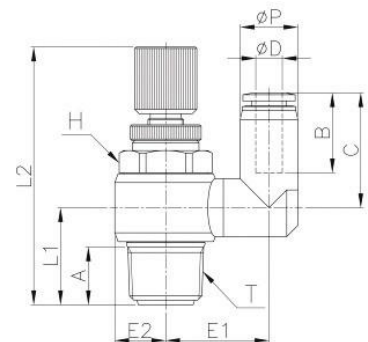
MODEL	ØD	ØP	T	L1	L2(MIN)	L2(MAX)	E1	E2	A	B	H (Hex)	Weight (g)
SPR04-01S	4	10.5	R 1/8	15.1	52.4	57.6	23.3	7	8.2	15.3	11	29.1
SPR04-02S			R 1/4	18.4	51.3	57.1	25.3	9	11	15.3	15	40.2
SPR06-01S	6	12.5	R 1/8	15.1	52.4	57.6	24.2	7	8.2	16.4	11	29.8
SPR06-02S			R 1/4	18.4	51.3	57.1	26.2	9	11	16.4	15	41.1
SPR06-03S			R 3/8	21.9	57.0	64.4	27.7	11	12.2	16.4	19	65.7
SPR06-04S			R 1/2	26.5	63.4	70.6	30.8	14	16.5	16.4	24	103
SPR08-01S	8	14.5	R 1/8	16.2	52.4	57.6	25.9	7	8.2	18.3	11	30.8
SPR08-02S			R 1/4	19.2	51.3	57.1	27.9	9	11	18.3	15	42.1
SPR08-03S			R 3/8	21.9	57.0	64.4	28.9	11	12.2	18.3	19	66.6
SPR08-04S			R 1/2	26.5	63.4	70.6	31.8	14	16.5	18.3	24	103.8
SPR10-01S	10	17.5	R 1/8	17.7	52.4	57.6	27.9	7	8.2	19.7	11	32.6
SPR10-02S			R 1/4	20.7	51.3	57.1	29.9	9	11	19.7	15	43.9
SPR10-03S			R 3/8	23.2	57.0	64.4	31	11.2	12.2	19.7	19	68.3
SPR10-04S			R 1/2	26.5	63.4	70.6	33.4	14	16.5	19.7	24	105.5
SPR12-02S	12	20.5	R 1/4	22.2	51.3	57.1	33.3	9	11	22.4	15	46.9
SPR12-03S			R 3/8	24	57.0	64.4	33.7	11.5	12.2	21.9	19	71.1
SPR12-04			R 1/2	28	63.4	70.6	36.1	14	16.5	21.9	24	107.9



SPU



MODEL	ØD	ØP	T	L1	L2(MIN)	L2(MAX)	E1	E2	A	B	H (Hex)	Weight (g)
SPU04-01S	4	10.5	R 1/8	15.1	52.4	57.6	14.3	7	8.2	14.8	11	20.3
SPU04-02S			R 1/4	18.4	51.3	57.1	17.8	9.2	11	14.8	15	20.3
SPU06-01S	6	12.5	R 1/8	15.6	52.4	57.6	15	7	8.2	16.4	11	24
SPU06-02S			R 1/4	18.4	51.3	57.1	20.3	9.2	11	16.4	15	25.9
SPU06-03S			R 3/8	21.9	57	64.4	23.3	11.5	12.2	16.4	19	25.9
SPU08-01S	8	14.8	R 1/8	15.6	52.4	57.6	16.2	7	8.2	18.3	11	24.9
SPU08-02S			R 1/4	18.4	51.3	57.1	19.3	9.2	11	18.3	15	28.3
SPU08-03S			R 3/8	22.4	57	64.4	24.6	11.5	12.2	18.3	19	29.3
SPU08-04S			R 1/2	26.6	63.4	70.6	26.6	14.3	16.5	18.3	24	29.3
SPU10-02S	10	17.5	R 1/4	18.4	51.3	57.1	20.3	9.2	11	20.2	15	30.7
SPU10-03S			R 3/8	22.4	57	64.4	24.6	11.5	12.2	20.2	19	31.7
SPU10-04S			R 1/2	26.7	63.4	70.6	26.7	14.3	16.5	20.2	24	33.1
SPU12-02S	12	20.5	R 1/4	18.4	51.3	57.1	21.8	9.2	11	22.9	15	33.4
SPU12-03S			R 3/8	22.4	57	64.4	24.6	11.5	12.2	22.9	19	34.4
SPU12-04S			R 1/2	26.7	63.4	70.6	26.7	14.3	16.5	22.9	24	35.8



SPEED CONTROLLERS

Speed Controllers



특징

- 절감된 배관 공수와 비용.
- 자유로이 설정 가능한 배관방법.
- 저유량 구간에서 속도제어와 용이.
- 균일의 속도제어가 가능

주문형식

SPM 1 2 0
 1 2 3 4

1 제품명

2 관접속구경

- 1 : R(c)1/8
- 2 : R(c)1/4
- 3 : R(c)3/8
- 4 : R(c)1/2

3 타입

- 2 : Direct connection type

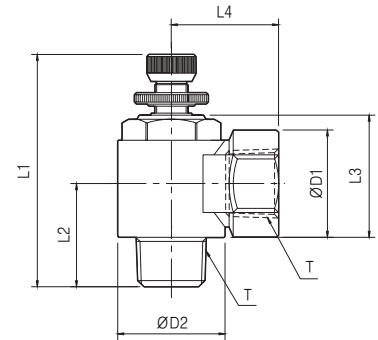
4 유량 제어방식

- 0 : Meter-Out
- 1 : Meter-In

표준사양

형식		SPM12□	SPM22□	SPM32□	SPM42□
관접속구경	실린더측	R(c)1/8	R(c)1/4	R(c)3/8	R(c)1/2
	배관측	R(c)1/8	R(c)1/4	R(c)3/8	R(c)1/2
보증내압력		1.05MPa(149.3psi)			
최고사용압력		0.7MPa(99.5psi)			
최저사용압력		0.1MPa(14.2psi)			
주위온도 및 사용유체온도		5~60°C(41~140°F)			
니들회전수		8 turns			
중량(g)		36	74	141	238

SPM



METRIC-BSPT(R)

Unit : mm

MODEL	T	L1	L2	L3	L4	D1	D2
SPM120	R(c)1/8	46.4	18.3	18.7	17	14	15
SPM220	R(c)1/4	49.4	23.1	23.2	22	20	20
SPM320	R(c)3/8	58.5	25	29.6	26	26	26
SPM420	R(c)1/2	63.9	27.7	28.3	38.5	27.5	28.3

※ SPM × ×0(Meter-Out) and SPM × ×1(Meter-In) are same dimension.