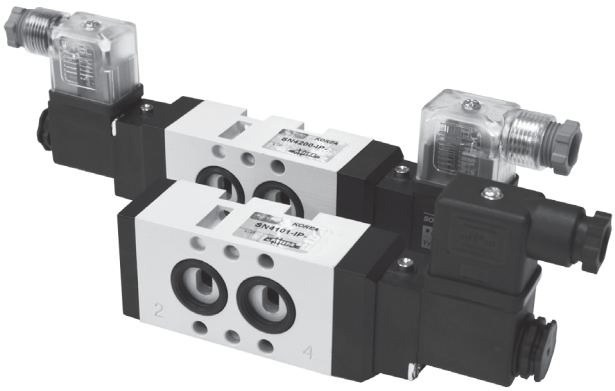
SN4000

SN4000 시리즈 폭30mm, 통과유량 1,800L/min



◈ 성능 및 내구성향상
◈ CE / UL / RoHS대응
◈ 코일 무극성 적용
◈ 코일 탈부착 용이
◈ 무급유 타입

◆ 주문형식 표기방법

SN 4 | 1 | 0 | 1 | - | I | P | - | SD2 | - | A2 | - | L1 | - | B1
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① 시리즈
SN4000 시리즈

② 절환방식
1 : 2위치 싱글
2 : 2위치 더블
3 : 3위치 Close Center
4 : 3위치 Exhaust Center
5 : 3위치 Pressure Center

③ 관접속구경
0 : 1/4
1 : NPT 1/4

④ 복귀방식
0 : None
1 : 에어 +스프링리턴
2 : 에어리턴
3 : 스프링리턴

⑤ 파이롯구조
I : 내부파이롯트 구조
E : 외부파이롯트 구조

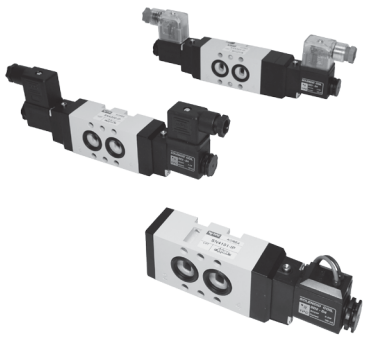
⑥ 수동조작방식
P : 푸쉬버튼식 (None Lock Push)
L : 레버로크식 (Lock)

⑦ 코일 커넥터
SG2 : 22mm 그로메트 (500mm)
SD2 : 22mm 램프 그로메트 (600mm)
SC2-CN2 : 3Pin 코일 + 일반커넥터(흑색)
SC2-CD2 : 3Pin 코일 + 램프커넥터(투명)
SC2-CZ2 : 3Pin 코일 + 램프커넥터 보호회로(투명)
SC2-CNM2 : 3Pin 코일 + 금속커넥터
SC2-CZM2 : 3Pin 코일 + 램프금속커넥터 보호회로
SP2 : II 2G EEx mII T4 방폭코일

⑧ 코일 정격전압
A2 : AC 220V (50/60Hz)
A1 : AC 110V (50/60Hz)
A4 : AC 24V (50/60Hz)
A30 : AC 230V (50/60Hz)
A20 : AC 120V (50/60Hz)
D20 : DC120V
D4 : DC 24V
D2 : DC 12V

⑨ 그로메트 연장
무기호 : 400mm
L1 : 리드선 1,000mm
L2 : 리드선 2,000mm
L3 : 리드선 3,000mm

⑩ 3/2Way, 플레이트 옵션
무기호 : 기본
B1 : 3포트용 플레이트 포함



◈ NAMUR
◈ 5/2Way, 5/2Way
◈ 바디폭 30mm
◈ 통과유량 1,800ℓ/min(0.5MPa)

◆ 사 양

절환방식	5포트 2위치	5포트 3위치
사용유체	공기 및 불활성 가스	
사용압력	0.15 ~ 1 MPa	0.2 ~ 1 MPa
유효단면적(mm^2)	32.0	16.0
주위 및 사용유체온도	5 ~ 60˚ (41~ 140˚F)	
응답시간 5bar ($5kgf/cm^2$)	25ms 이하	35ms 이하
최대작동빈도	5c / sec	3c / sec
급 유	불필요 (단, 급유시 ISO VG32# 사용)	
수동조작	NON-LOCK PUSH, LOCK식 (레버형)	
파일롯 배기형식	개별배기형	
리드선 취출방식	그로메트 , 3Pin Din Connector	
보호구조	방진, IP42, IP65	
코일절연의 종류	F종 상당	
코일정격전압 AC 50/60Hz	AC220V, AC110V, AC24V (AC230V, AC120V)	
코일정격전압 DC	DC120V, DC24V, DC12V	
소비전력	AC 6.5VA(50Hz), 5.5VA(60Hz) / DC 2.5W, 2.0W	
허용전압변동	정격전압의 -10% ~ +10%	
OFF시 최소 잔류전압	AC:정격전압 20%미만	DC:정격전압의 10%미만

◆ 밸브형식

배관방식	형식	수동버튼	절환방식	접속구경	유효단면적mm^2
직접취부형	SN4101-IP-OO	푸쉬 레버	2위치 싱글	PT : 1/4 NPT : 1/4	32.0mm^2
	SN4200-IP-OO		2위치 더블		
	SN4303-IP-OO		3위치 Close Center		16.0mm^2
	SN4403-IP-OO		3위치 Exhaust Center		
	SN4503-IP-OO		3위치 Pressure Center		

◆ 플레이트 주문형식

SN4 - B - BLK
① ② ③

① 시리즈
SN4 : SN4000 시리즈

② 접속구경
B : 기본형

③ 사양
BLK : 3포트용 플레이트

◆ 밸브코일 주문형식

SD2 - D4
① ②

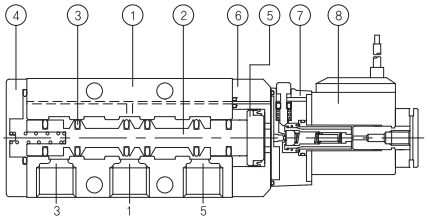
① 22mm 코일사양
SG2 : 22mm 그로메트 (400mm)
SD2 : 22mm 램프 그로메트 (400mm)
SC2-CN2 : 3Pin 코일 + 일반커넥터(흑색)
SC2-CD2 : 3Pin 코일 + 램프커넥터(투명)
SC2-CZ2 : 3Pin 코일 + 램프커넥터 보호회로(투명)
SC2-CNM2 : 3Pin 코일 + 금속커넥터
SC2-CZM2 : 3Pin 코일 + 램프금속커넥터 보호회로
SP2 : II 2G EEx mII T4 방폭코일

② 사용전압
A2 : AC220V
A1 : AC110V
A4 : AC24V
A30 : AC230V
A20 : AC120V
D20 : DC120V
D4 : DC24V
D2 : DC12V

◆ 밸브형식

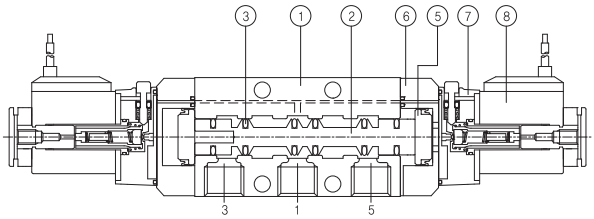
2위치 싱글(SN4101-IP-SD2-OO)



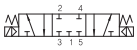


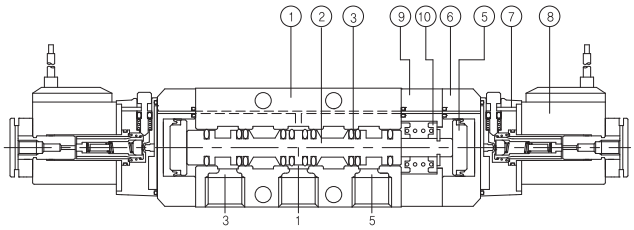
2위치 더블(SN4200-IP-SD2-OO)



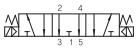


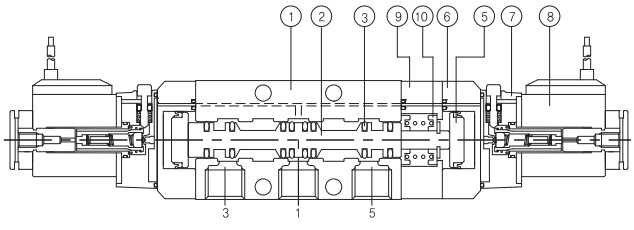
3위치 올포트블럭 Close Center(SN4303-IP-SD2-OO)



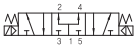


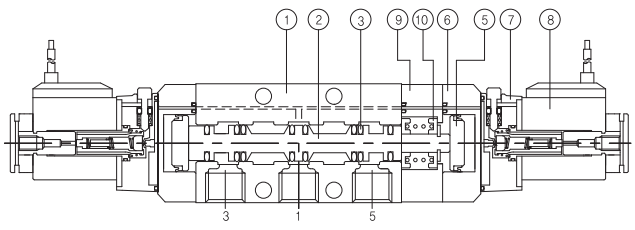
3위치 ABR Exhaust Center(SN4403-IP-SD2-OO)





3위치 PAB Pressure Center(SN4503-IP-SD2-OO)





◆ 주요부품

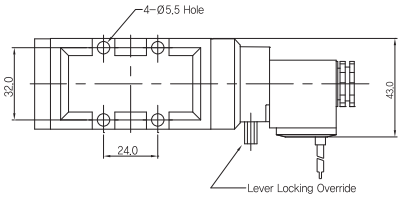
번호	부품명	재질
①	바디	알루미늄 다이케스팅
②	스플	알루미늄
③	패킹	NBR
④	바디캡	알루미늄
⑤	피스톤	수지
⑥	세미파일롯트	아연다이케스팅
⑦	파이롯트	수지
⑧	코일	코일 Ass'y
⑨	블록 가이드	아연다이케스팅
⑩	스프링 가이드	수지

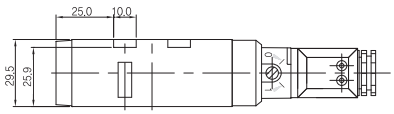
◆ 외형 치수도

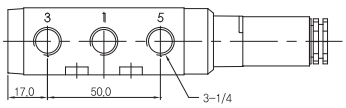
▶ 2위치 싱글 솔레노이드 밸브

SN4101-IL-SD2-OO

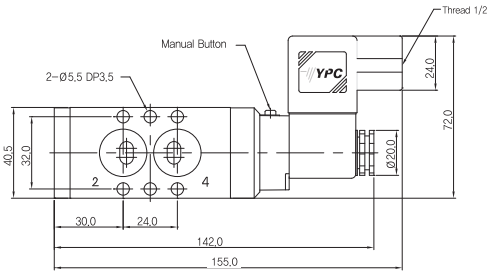








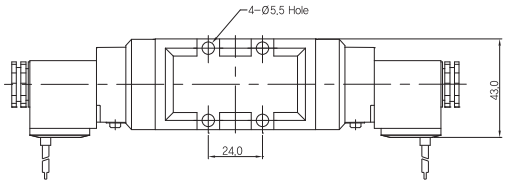
SN4101-IP-SC2-CNM2-OO

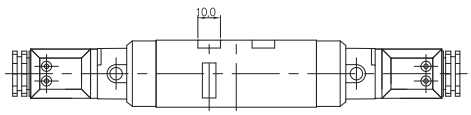


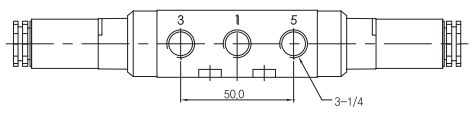
▶ 2위치 더블 솔레노이드 밸브

SN4200-IP-SD2-OO

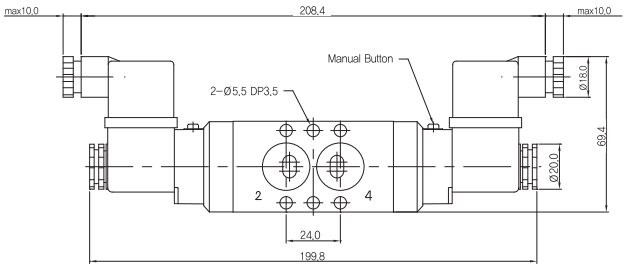








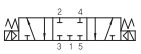
SN4200-IP-SC2-CD2-OO

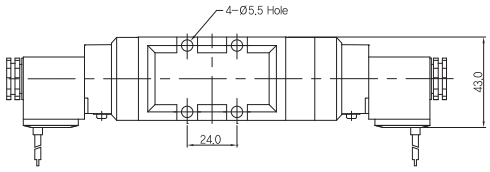


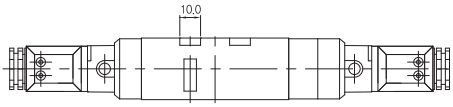
◆ 외형 치수도

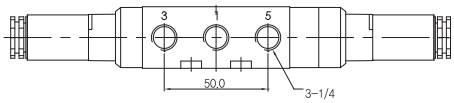
▶ 3위치 Close Center 솔레노이드 밸브

SN4303-IP-SD2-OO

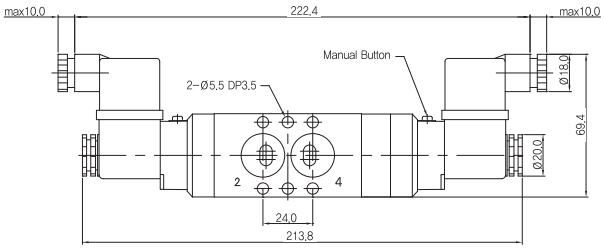






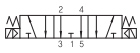


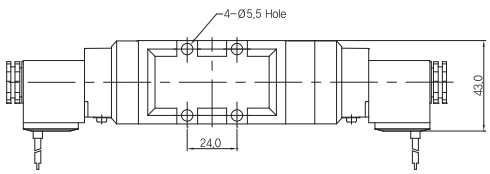
SN4303-IP-SC2-CZ2-OO

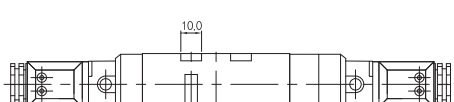


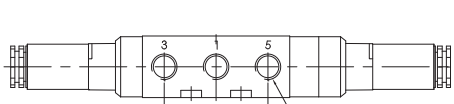
▶ 3위치 Exhaust Center 솔레노이드 밸브

SN4403-IP-SD2-OO

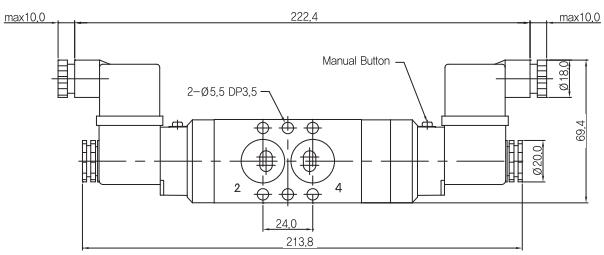








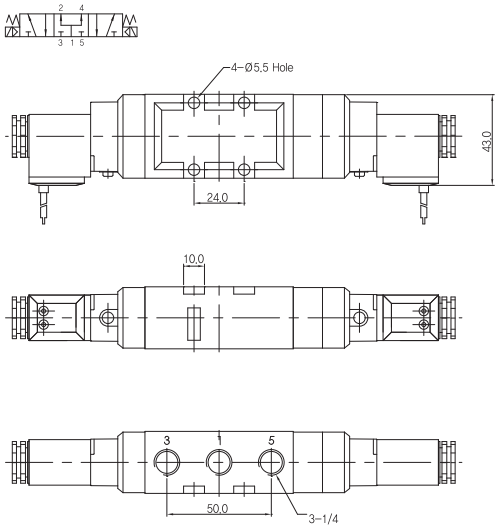
SN4403-IP-SC2-CN2-OO



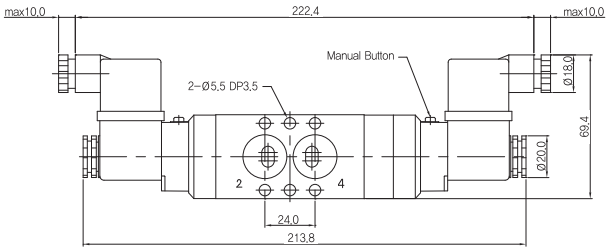
◆ 외형 치수도

▶ 3위치 Pressure Center 솔레노이드 밸브

SN4503-IP-SD2-OO



SN4503-IP-SC2-CD2-OO



▶ 3포트 플레이트 주문형식 / SN4B

SN4 – B – BLK

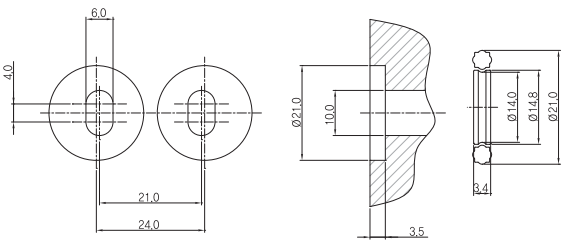
① ② ③

① 시리즈
SN4000 시리즈

② 접속구경
B : 기본형

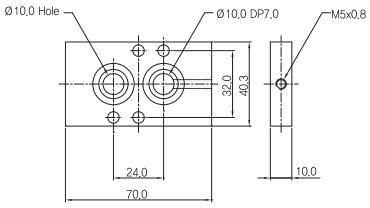
③ 사양
BLK : 3포트용 플레이트

Sealing Part Dimension



Sealing Area

SN4-B-BLK
(재질 : AL)



Single Acting Use Plate