

Solenoid valve

VPL



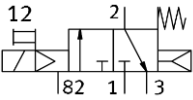
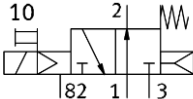
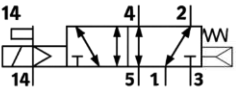
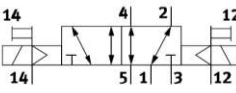
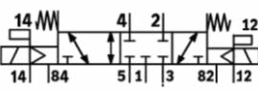
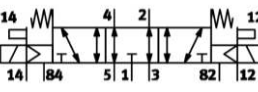
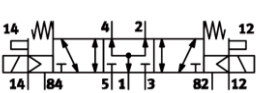
일반 기술 자료					
밸브 기능		2위치 싱글-3/2way	2위치 싱글-5/2way	2위치 더블-5/2way	3위치 공급,정지,배기
복귀방법		기계+공압 혼합		공압	기계+공압 혼합
동작방식		Dynamic Soft Seal 구조의 슬라이딩 밸브와 파일럿 작동형 솔레노이드 밸브			
수동 작동기/Lock		누름/고정형			
파일럿 에어 공급		내부 파일럿			
사용 압력 범위		+1.5 ... +0.8 MPa			
표준공칭 유량 1/8	[l/min]	600	600	600	470
표준공칭 유량 1/4	[l/min]	1050	1050	1050	700
표준공칭 유량 3/8	[l/min]	1500	1800	1800	1200
표준공칭 유량 1/2	[l/min]	3300	3350	3350	2400

전기 사양		
작동전압-밸브	[V DC]	24 ±10%
작동전압-밸브	[V AC]	24 ±10% , 110 ±10% , 220 ±10% , 240 ±10%
출력-밸브 DC	[W]	2.8 또는 3.0
출력-밸브 AC	[VA]	24V, 110V==> 4/2.5VA, 220V==> 3.5VA, 240V ==> 6/5.0VA
Duty cyle ED		100 % Continuous duty
동작표시등		LED green/red
서지 보호		과도전압 보호 다이오드

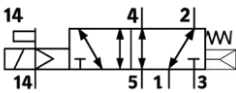
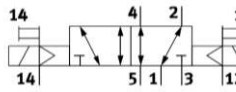
재질	
밸브 하우징	Aluminum
밸브 스톱	Aluminum
씰	NBR
스프링	Stainless steel

작동 및 환경 조건	
사용매체	40µm 필터 처리된 압축공기 사용, 윤활/무윤활 모두 가능
주변/매체 온도	-5 ~ +50°C

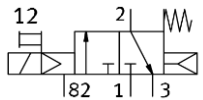
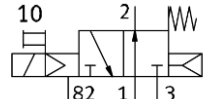
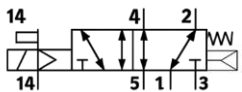
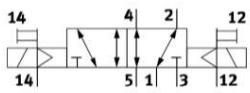
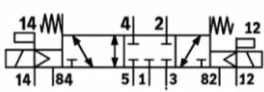
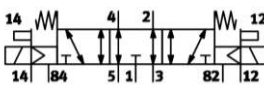
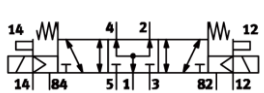
일반 밸브

주문코드	공압기호	사이즈(mm)	l/min	kg	설명
3		1/8	600	0.13	2위치 단동 3/2 WAY N.C. * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	1050	0.20	
		3/8	1500	0.27	
		1/2	3300	0.30	
4		1/8	600	0.13	2위치 단동 3/2 WAY N.O. * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	1050	0.20	
		3/8	1500	0.27	
		1/2	3300	0.38	
5		1/8	600	0.13	2위치 단동 5/2 WAY * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	1050	0.20	
		3/8	1800	0.28	
		1/2	3350	0.50	
5		1/8	600	0.19	2위치 복동 5/2 WAY * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	1050	0.31	
		3/8	1800	0.39	
		1/2	3350	0.62	
6		1/8	470	0.21	3위치 더블 중간위치 정지 * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	700	0.36	
		3/8	1200	0.46	
		1/2	2400	0.71	
7		1/8	470	0.21	3위치 더블 중간위치 배기 * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	700	0.36	
		3/8	1200	0.46	
		1/2	2400	0.71	
8		1/8	470	0.21	3위치 더블 중간위치 공급 * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	700	0.36	
		3/8	1200	0.46	
		1/2	2400	0.71	

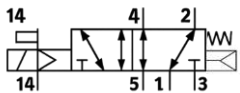
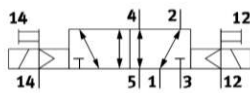
NAMUR 밸브

주문코드	공압기호	사이즈(mm)	l/min	kg	설명
5		1/8	600	0.13	2위치 단동 5/2 WAY * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		-	-	-	
		-	-	-	
		-	-	-	
5		-	-	-	2위치 복동 5/2 WAY * 공압+기계 스프링 복귀 * 0.15 ... 0.8 MPa
		1/4	1050	0.20	
		3/8	1500	0.27	
		-	-	-	

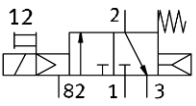
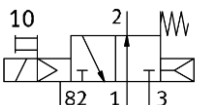
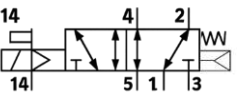
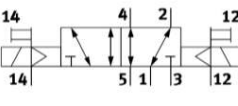
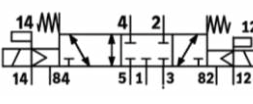
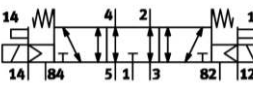
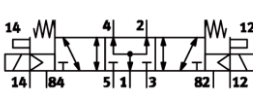
일반 밸브

밸브 사이즈	사이즈	사이즈	주문 코드 - 24 VDC	주문 코드 - 24 VAC
	3/2way 단동 N.C.	1/8	VPL33A317D-C-A213F	-
		1/4	VPL33B317A-A-B213J	VPL33B317A-A-B214J
		3/8	VPL33C317A-A-C213J	VPL33C317A-A-C214J
		1/2	VPL33D317A-A-D213J	VPL33D317A-A-D214J
	3/2way 단동 N.O.	1/8	VPL33A417D-C-A213F	-
		1/4	VPL33B417A-A-B213J	VPL33B417A-A-B214J
		3/8	VPL33C417A-A-C213J	VPL33C417A-A-C214J
		1/2	VPL33D417A-A-D213J	VPL33D417A-A-D214J
	5/2way 단동	1/8	VPL33A517D-C-A213F	-
		1/4	VPL33B517A-A-B213J	VPL33B517A-A-B214J
		3/8	VPL33C517A-A-C213J	VPL33C517A-A-C214J
		1/2	VPL33D517A-A-D213J	VPL33D517A-A-D214J
	5/2way 복동	1/8	VPL33A511D-C-A213F	-
		1/4	VPL33B511A-A-B213J	VPL33B511A-A-B214J
		3/8	VPL33C511A-A-C213J	VPL33C511A-A-C214J
		1/2	VPL33D511A-A-D213J	VPL33D511A-A-D214J
	5/3way 중간정지	1/8	VPL33A611D-C-A213F	-
		1/4	VPL33B611A-A-B213J	VPL33B611A-A-B214J
		3/8	VPL33C611A-A-C213J	VPL33C611A-A-C214J
		1/2	VPL33D611A-A-D213J	VPL33D611A-A-D214J
	5/3way 중간배기	1/8	VPL33A711D-C-A213F	-
		1/4	VPL33B711A-A-B213J	VPL33B711A-A-B214J
		3/8	VPL33C711A-A-C213J	VPL33C711A-A-C214J
		1/2	VPL33D711A-A-D213J	VPL33D711A-A-D214J
	5/3way 중간공급	1/8	VPL33A811D-C-A213F	-
		1/4	VPL33B811A-A-B213J	VPL33B811A-A-B214J
		3/8	VPL33C811A-A-C213J	VPL33C811A-A-C214J
		1/2	VPL33D811A-A-D213J	VPL33D811A-A-D214J

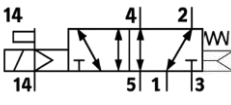
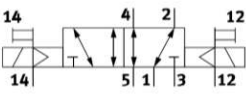
NAMUR 밸브

	5/2way 단동 또는 3/2way 단동	1/8	-	-
		1/4	VPL33C517A-A-E213J	VPL33C517A-A-E214J
		3/8	VPL33C517A-A-F213J	VPL33C517A-A-F214J
		1/2	-	-
	5/2way 복동 또는 3/2way 복동	1/8	-	-
		1/4	VPL33C511A-A-E213J	VPL33C511A-A-E214J
		3/8	VPL33C511A-A-F213J	VPL33C511A-A-F214J
		1/2	-	-

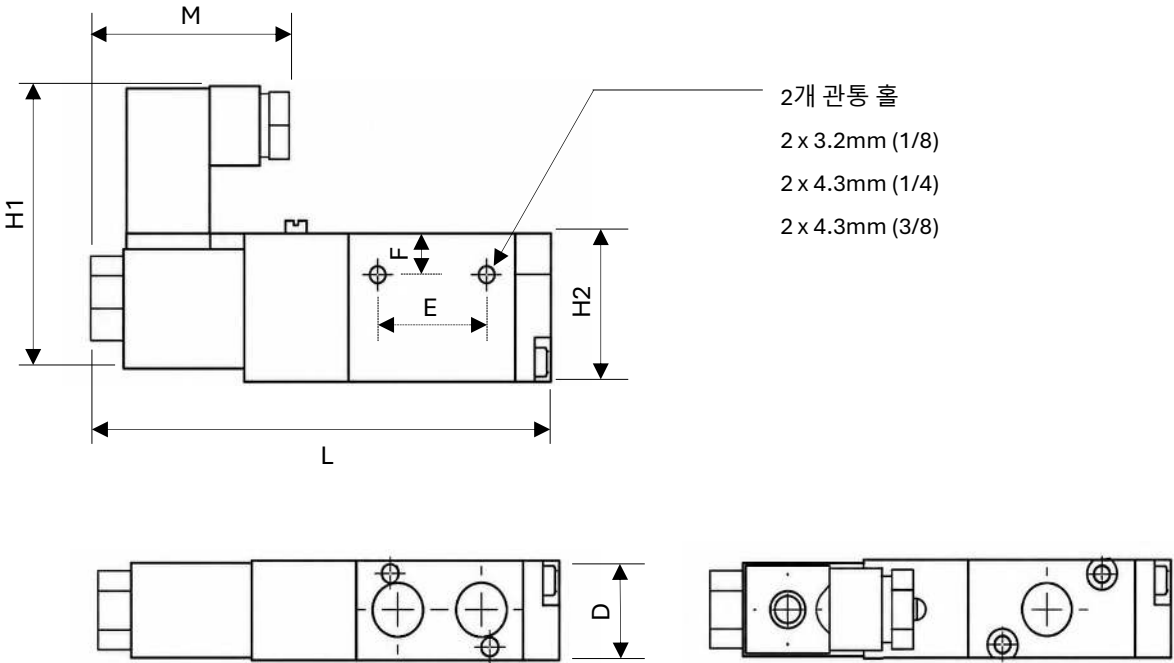
일반 밸브

밸브 사이즈	사이즈	사이즈	주문 코드 - 110 VAC	주문 코드 - 220 VAC
	3/2way 단동 N.C.	1/8	VPL33A317DC-A218F	VPL33A317D-C-A219F
		1/4	VPL33B317A-A-B218J	VPL33B317A-A-B219J
		3/8	VPL33C317A-A-C218J	VPL33C317A-A-C219J
		1/2	VPL33D317A-A-D218J	VPL33D317A-A-D219J
	3/2way 단동 N.O.	1/8	VPL33A417D-C-A218F	VPL33A417D-C-A219F
		1/4	VPL33B417A-A-B218J	VPL33B417A-A-B219J
		3/8	VPL33C417A-A-C218J	VPL33C417A-A-C219J
		1/2	VPL33D417A-A-D218J	VPL33D417A-A-D219J
	5/2way 단동	1/8	VPL33A517D-C-A218F	VPL33A517D-C-A219F
		1/4	VPL33B517A-A-B218J	VPL33B517A-A-B219J
		3/8	VPL33C517A-A-C218J	VPL33C517A-A-C219J
		1/2	VPL33D517A-A-D218J	VPL33D517A-A-D219J
	5/2way 복동	1/8	VPL33A511D-C-A218F	VPL33A511D-C-A219F
		1/4	VPL33B511A-A-B218J	VPL33B511A-A-B219J
		3/8	VPL33C511A-A-C218J	VPL33C511A-A-C219J
		1/2	VPL33D511A-A-D218J	VPL33D511A-A-D219J
	5/3way 중간정지	1/8	VPL33A611D-C-A218F	VPL33A611D-C-A219F
		1/4	VPL33B611A-A-B218J	VPL33B611A-A-B219J
		3/8	VPL33C611A-A-C218J	VPL33C611A-A-C219J
		1/2	VPL33D611A-A-D218J	VPL33D611A-A-D219J
	5/3way 중간배기	1/8	VPL33A711D-C-A218F	VPL33A711D-C-A219F
		1/4	VPL33B711A-A-B218J	VPL33B711A-A-B219J
		3/8	VPL33C711A-A-C218J	VPL33C711A-A-C219J
		1/2	VPL33D711A-A-D218J	VPL33D711A-A-D219J
	5/3way 중간공급	1/8	VPL33A811D-C-A218F	VPL33A811D-C-A219F
		1/4	VPL33B811A-A-B218J	VPL33B811A-A-B219J
		3/8	VPL33C811A-A-C218J	VPL33C811A-A-C219J
		1/2	VPL33D811A-A-D218J	VPL33D811A-A-D219J

NAMUR 밸브

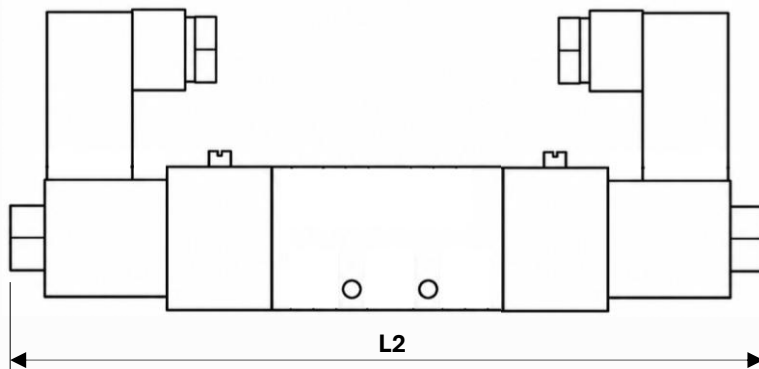
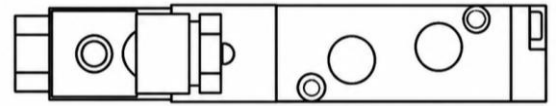
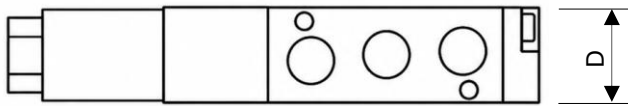
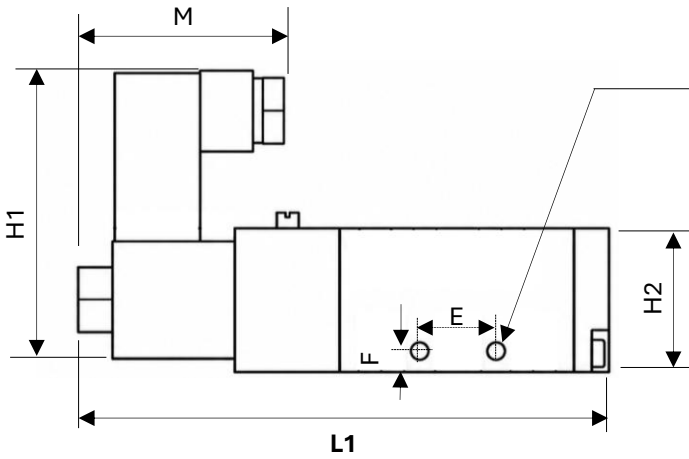
	5/2way 단동 또는 3/2way 단동	1/8	-	-
		1/4	VPL33C517A-A-E218J	VPL33C517A-A-E219J
		3/8	VPL33C517A-A-F218J	VPL33C517A-A-F219J
		1/2	-	-
	5/2way 복동 또는 3/2way 복동	1/8	-	-
		1/4	VPL33C511A-A-E218J	VPL33C511A-A-E219J
		3/8	VPL33C511A-A-F218J	VPL33C511A-A-F219J
		1/2	-	-

3/2 way 단동

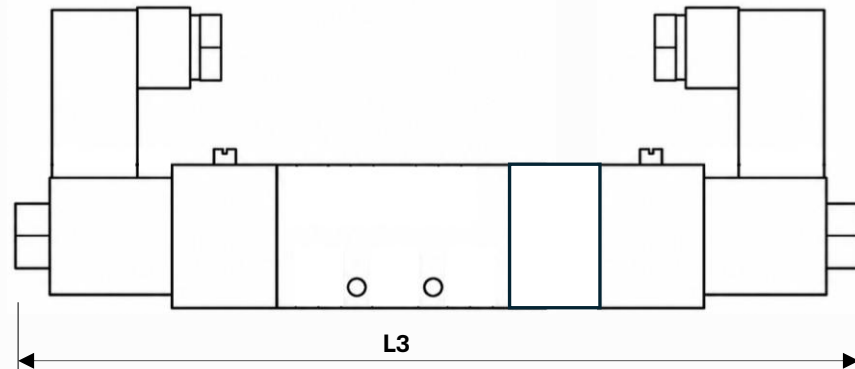


밸브 사이즈	L	H1	H2	D	M	E	F
1/8	88	54	27	18	39	21	7.5
1/4	110	67	35	22	55	25	8.2
3/8	118	70	40	27	55	30	10.5

5/2 way 단동, 복동, 5/3 way 중간위치

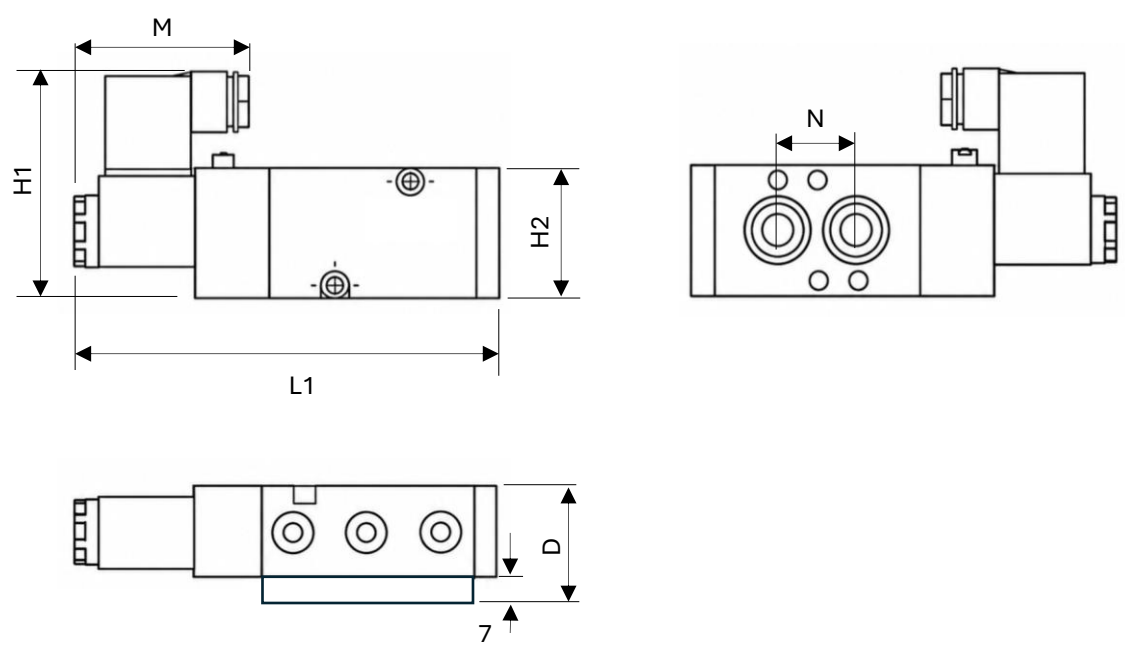


* L 길이만 다르고 다른 치수들은
2위치 단동과 동일함

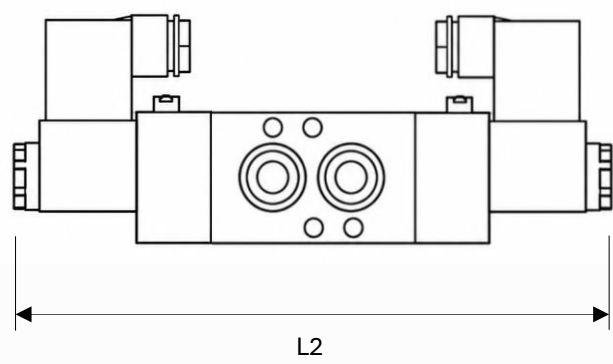


밸브 사이즈	L1	L2	L3	H1	H2	D	M	E	F
1/8	99	142	157	54	27	18	39	14	4
1/4	118	173	192	67	35	22	55	20	7
3/8	135	190	207	70	40	27	55	24	6.5
1/2	170	225	248	74	50	34	55	28	7.5

NAMUR 5/2 way 단동, 복동

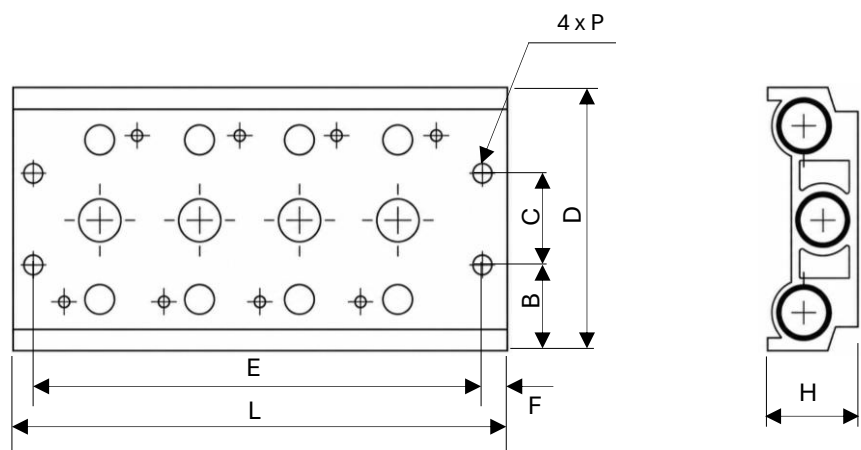


* L 길이만 다르고 다른 치수들은
2위치 단동과 동일함



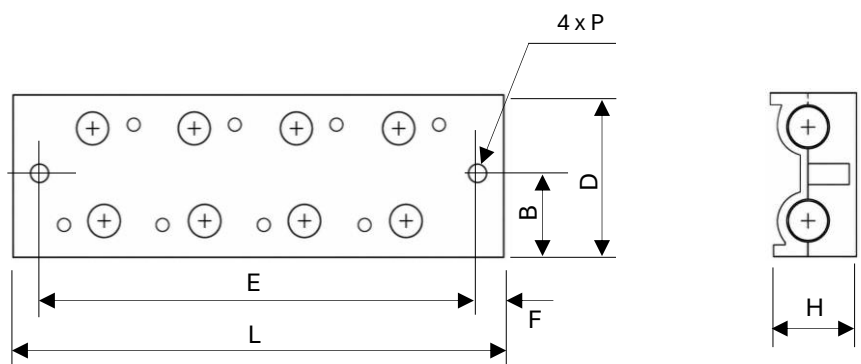
밸브 사이즈	L1	L2	H1	H2	D	M	N
1/4	135	190	70	40	37	55	24
3/8	135	190	70	40	37	55	24

5/2 way Manifold



밸브 사이즈	연결구	L	D	H	C	B	E	F	P
1/8	1/8	19+(N*19)	40	9	20	10	9+(N*19)	5	4.5
1/4	1/4	23+(N*19)	43	9	21	11	11+(N*19)	6	
3/8	3/8	26+(N*19)	53	11.7	26	13.5	14+(N*19)	6	
1/2	1/2	28+(N*19)	70	16.5	32	19	14+(N*19)	7	

3/2 way Manifold



밸브 사이즈	연결구	L	D	H	B	E	F	P
1/8	1/8	18+(N*19)	31	6	19	9+(N*19)	4.5	15.5
1/4	1/4	23+(N*19)	45	8.5	22.5	11+(N*19)	4.5	22.5
3/8	3/8	26+(N*19)	50	12	25	14+(N*19)	4.5	25
1/2	1/2	28+(N*19)	62.5	16	31.5	14+(N*19)	5.5	31