

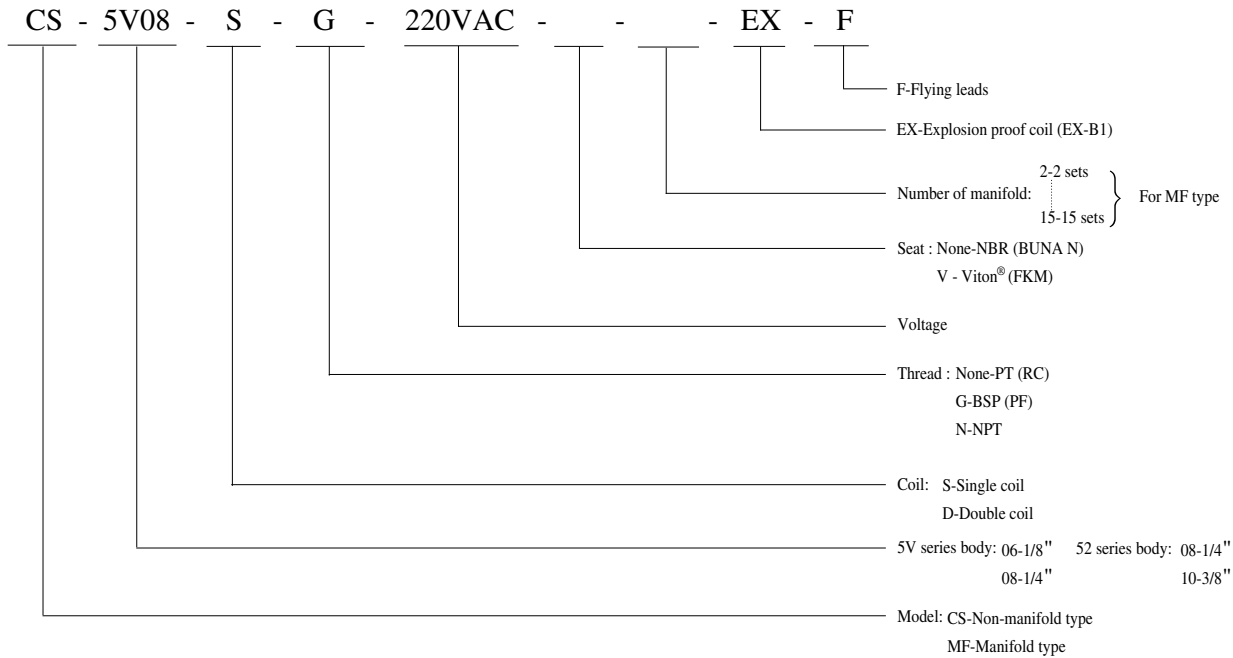


5/2-way solenoid valve of die-cast aluminum for pipe connection

Single & Double Coil / Spool Design

Model	Port size	Effective Area (mm ²)	CV value	Fluid temp. (°C)	Seat disc	Differential pressure kg/cm ² (bar)	Wt. (kg)
						Air	
CS-5V06-S	1/8 "	20	1.12	-10	NBR	1.5-8	0.26
CS-5V08-S	1/4 "	22	1.23			1.5-8	0.26
CS-5V06-D	1/8 "	20	1.12			1.5-8	0.38
CS-5V08-D	1/4 "	22	1.23			1.5-8	0.40
CS-5208-S	1/4 "	35	1.96	}	Viton [®]	1.5-8	0.28
CS-5210-S	3/8 "	40	2.24			1.5-8	0.30
CS-5208-D	1/4 "	35	1.96			1.5-8	0.42
CS-5210-D	3/8 "	40	2.24			1.5-8	0.44

How to order



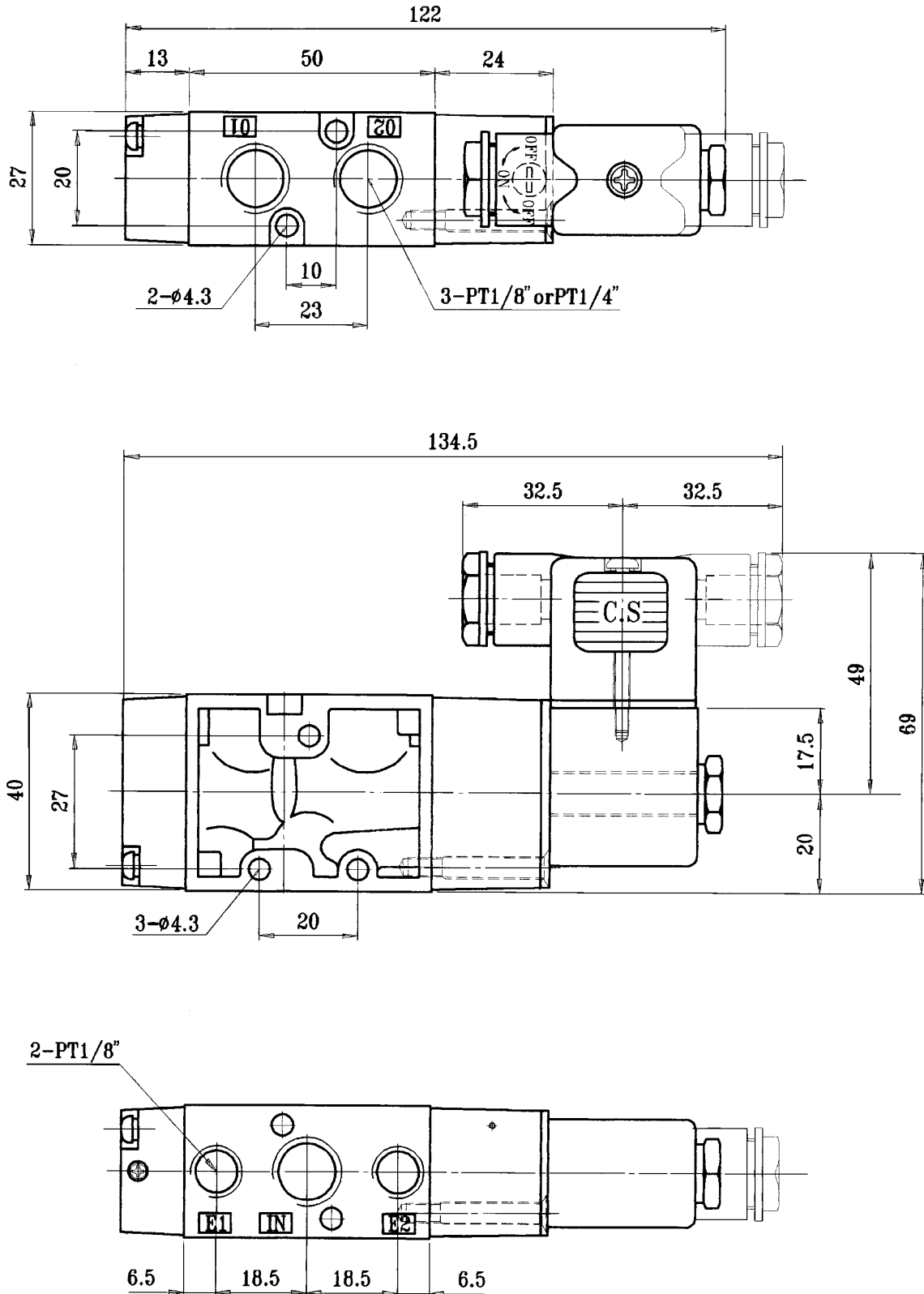
Notes:

1. Voltage drop range is within ±10%.
2. Exhaust of 5V08 is 1/8"
3. Inlet of manifold solenoid valves is 3/8" and exhaust is 1/4".
4. Installation position :free.
5. Cylinder range:ø20~ø100mm.
6. Response:15~20ms.
7. Standard Coil is DIN 43650B with LED connector.
8. Manual override:push and lock.
9. Viton[®] seat is custom-made.

● Specifications Chart

CS 5/2 Way CS-5V⁰⁶₀₈ - S

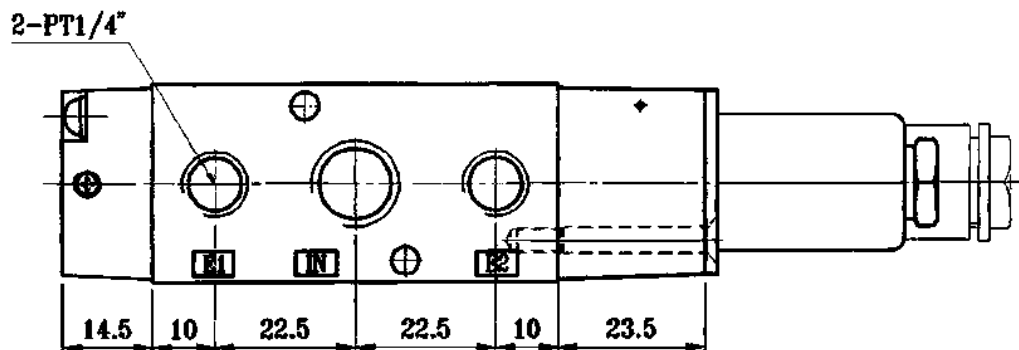
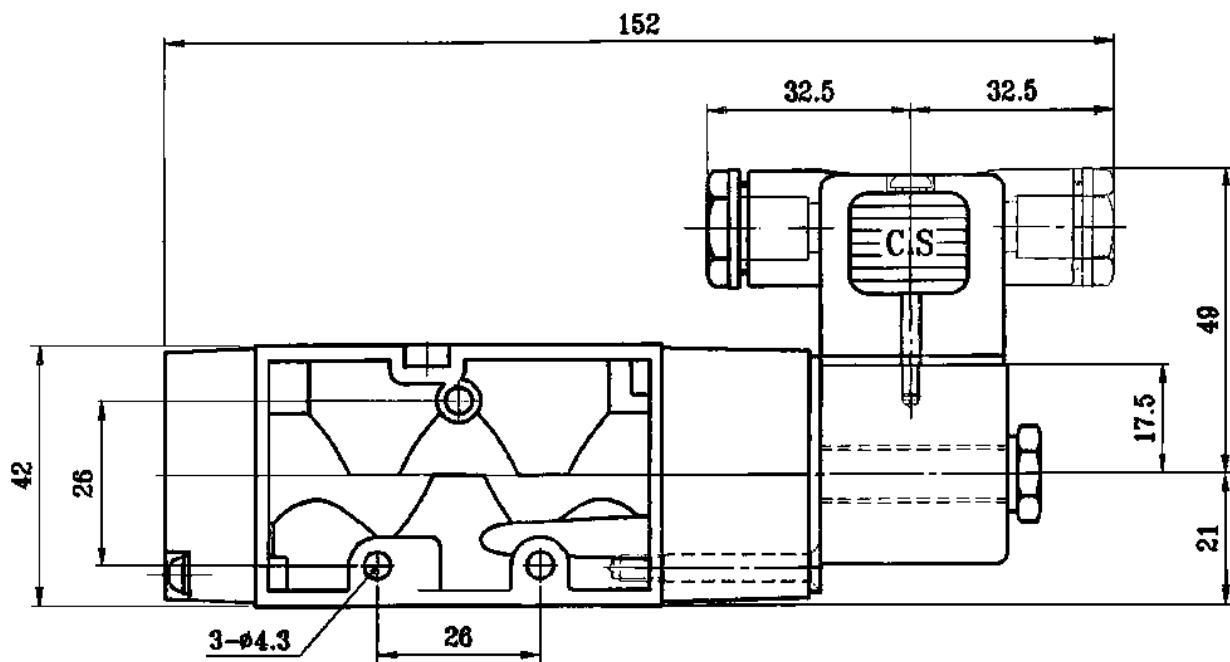
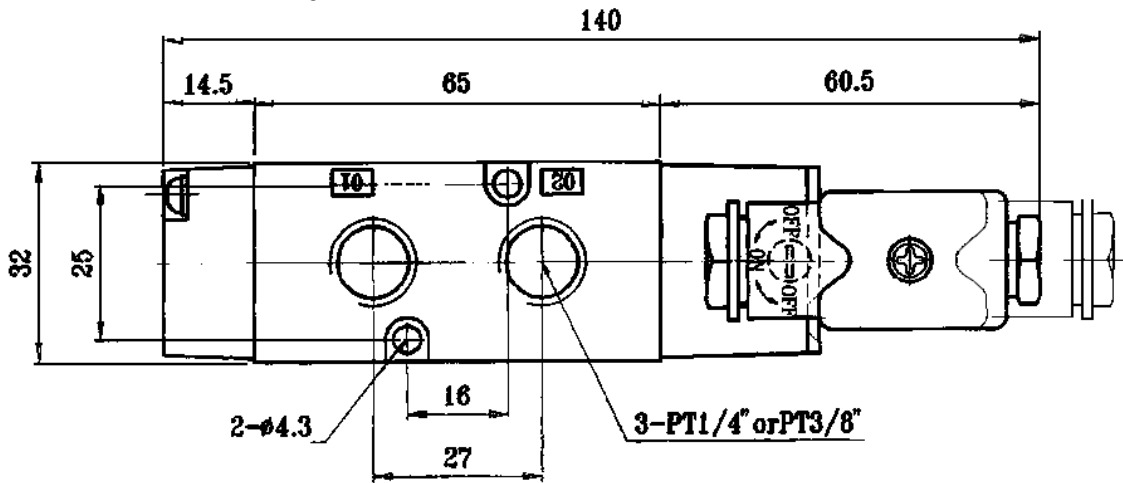
Unit:mm



● Specifications Chart

CS 5/2 Way CS-52 ⁰⁸/₁₀ - S

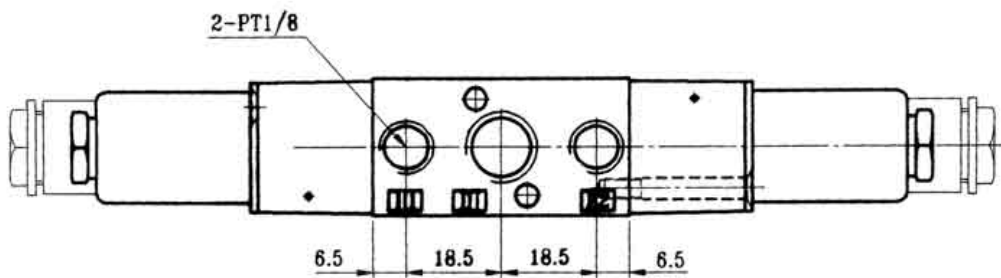
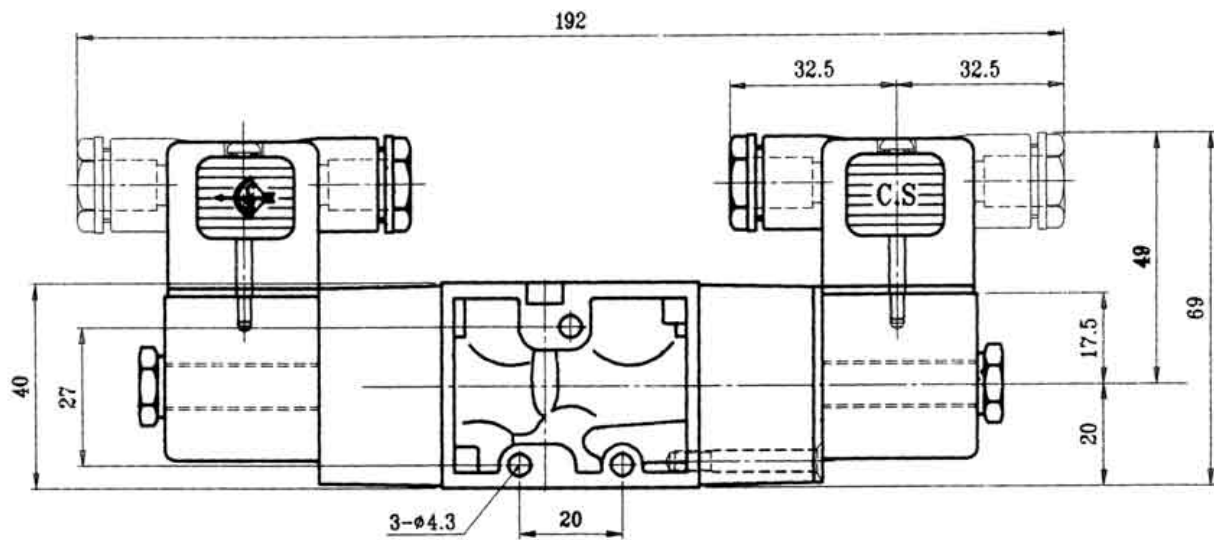
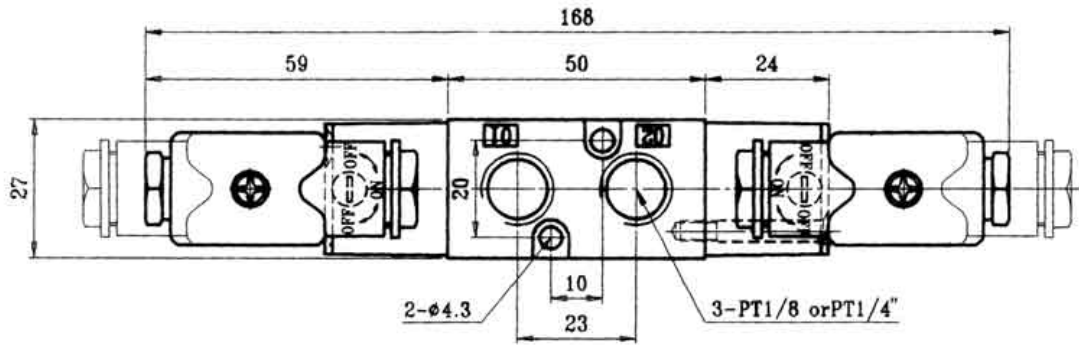
Unit:mm



● Specifications Chart

CS 5/2 Way CS-5V⁰⁶₀₈ - D

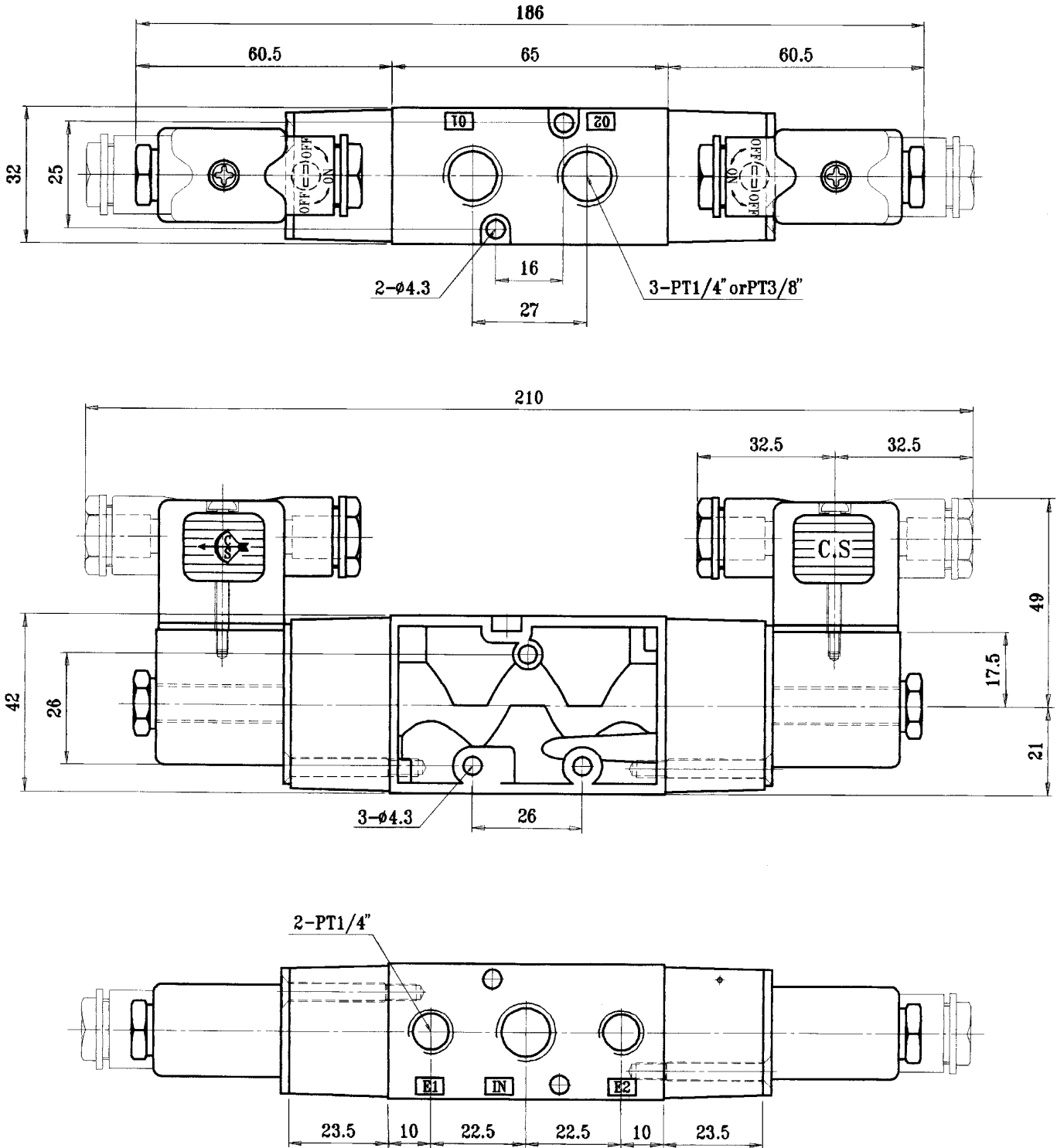
Unit:mm



● Specifications Chart

CS 5/2 Way CS-52 $\frac{08}{10}$ - D

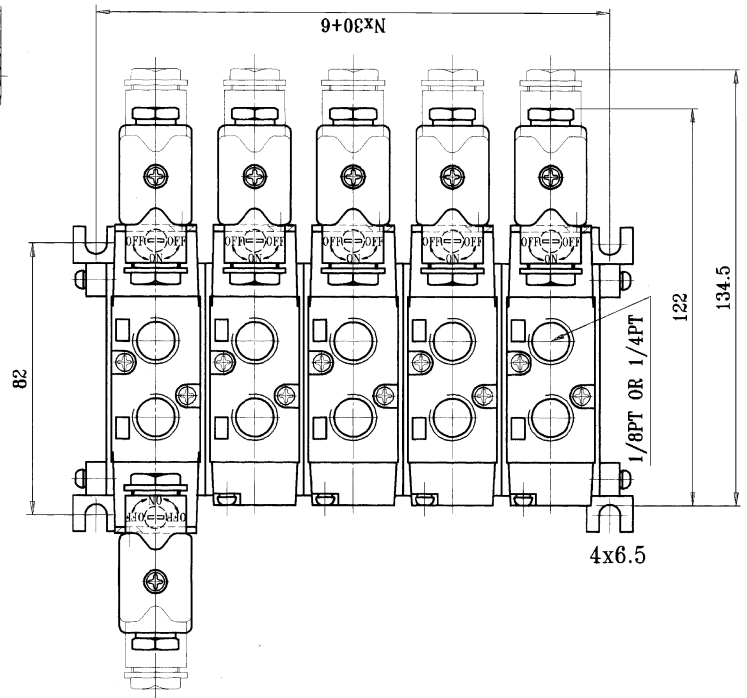
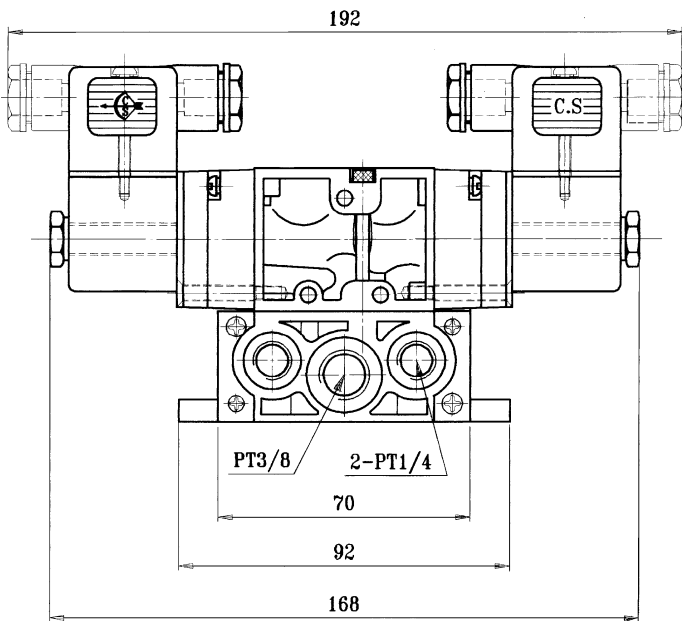
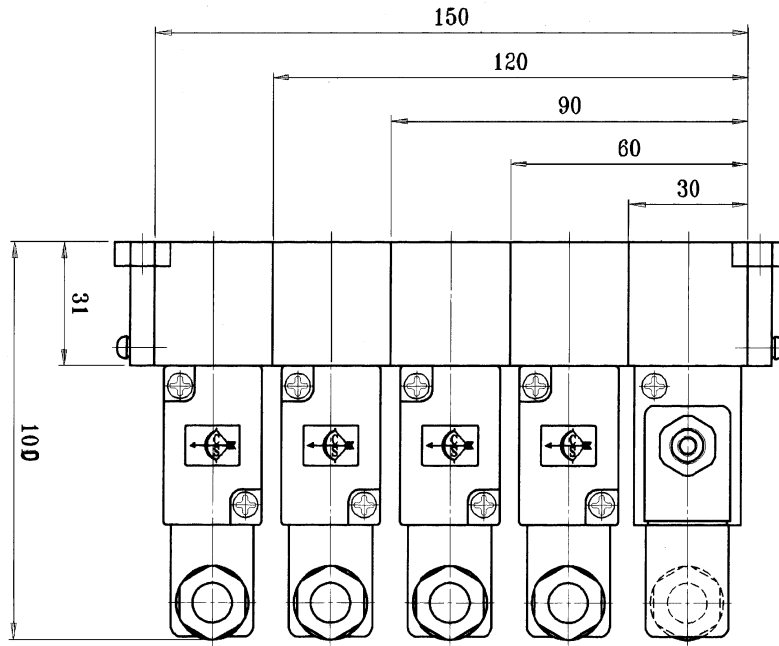
Unit:mm



● Specifications Chart
Manifold Type

MF-5V ⁰⁶/₀₈ - S/D

Unit:mm



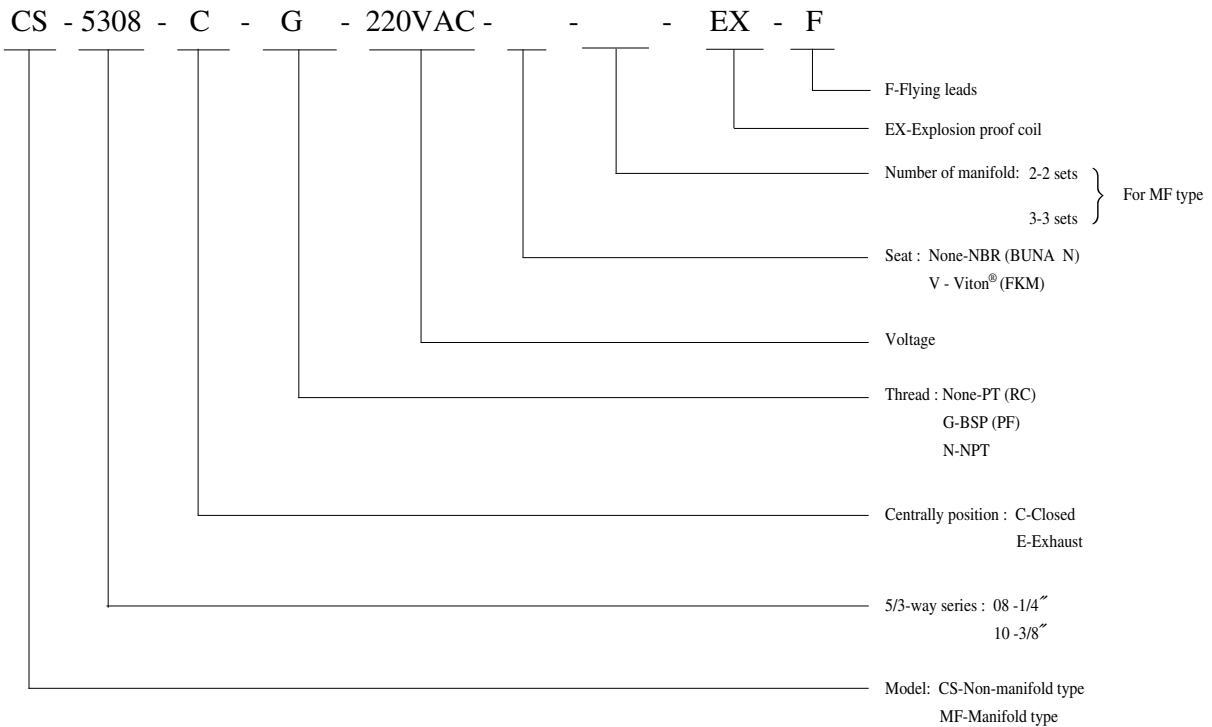


5/3-way solenoid valve of die-cast aluminum for pipe connection

Single & Double Coil / Spool Design

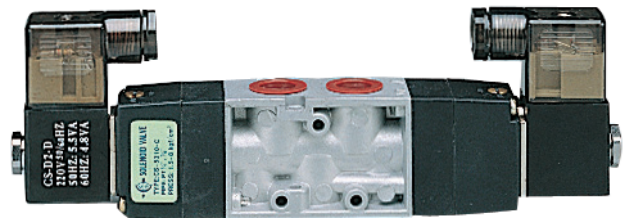
Model	Port size	Effective Area (mm ²)	CV value	Fluid temp. (°C)	Seat disc	Differential pressure kg/cm ² (bar)	Wt. (kg)
						Air	
CS-5308-C	1/4 "	28	1.57	-10	NBR	1.5-8	0.55
CS-5310-C	3/8 "	32	1.79			1.5-8	0.55
CS-5308-E	1/4 "	28	1.57	60	Viton®	1.5-8	0.55
CS-5310-E	3/8 "	32	1.79			1.5-8	0.55

How to order



Notes:

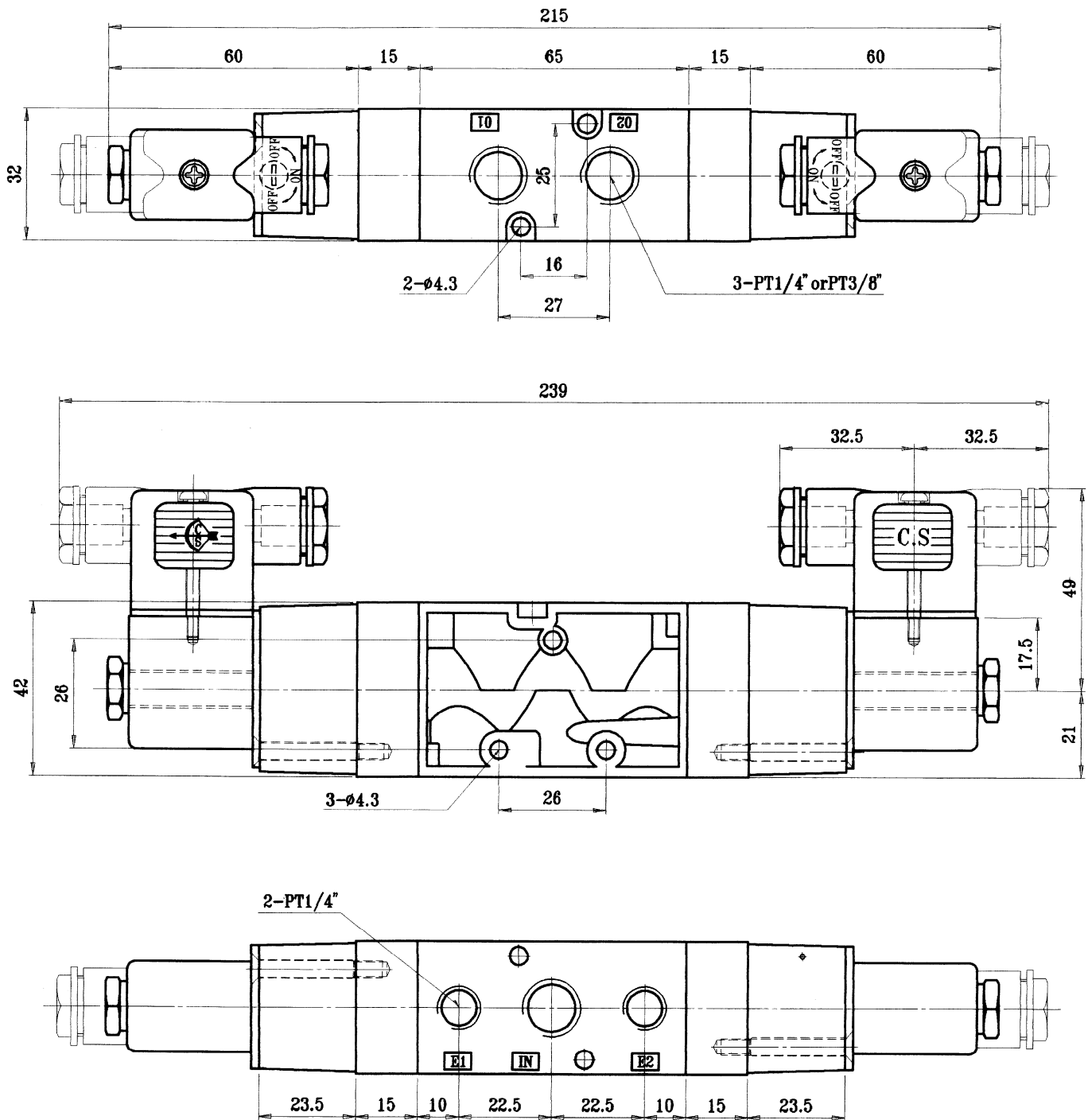
1. Voltage drop range is within ±10%.
2. Inlet and exhaust of manifold solenoid valves are 3/8".
3. Installation position :free.
4. Cylinder range: ø80~ø125mm.
5. Response : 15~20ms.
6. Standard coil is DIN 43650B with LED connector.
7. Manual override:push and lock.
8. Viton® seat is custom-made.



● Specifications Chart

CS 5/3 Way CS-53 $\frac{08}{10}$ - C
E

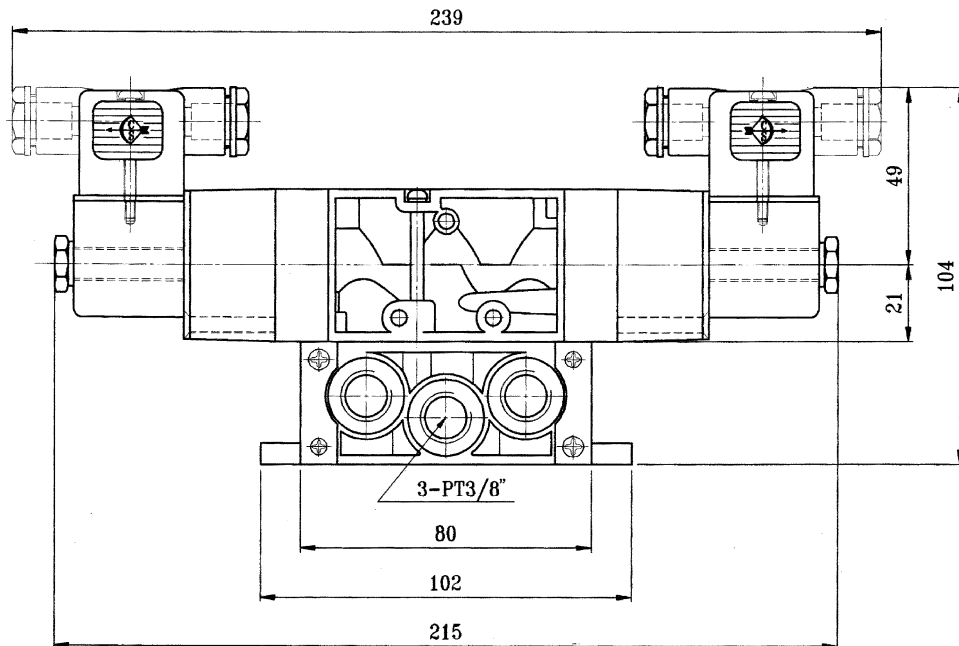
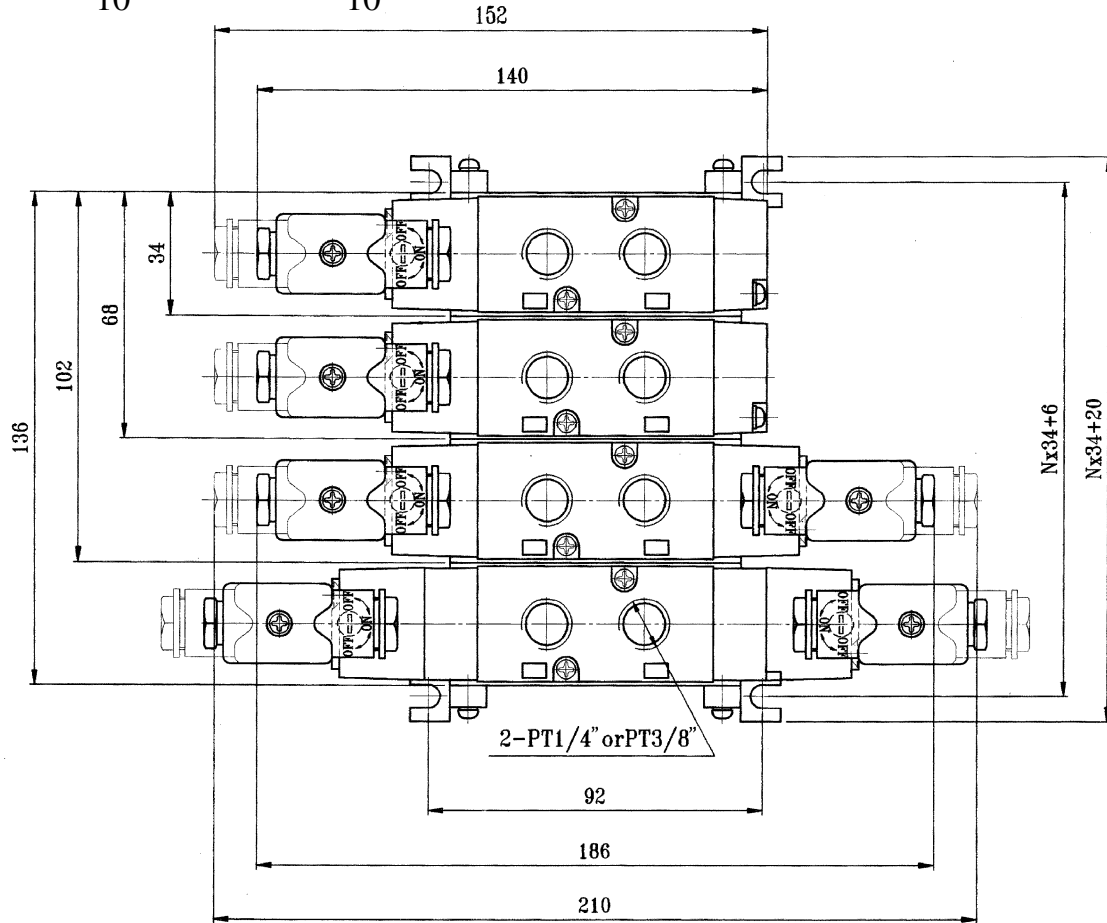
Unit:mm



● Specifications Chart
 Manifold Type

Unit:mm

MF 53⁰⁸/₁₀ - C/E + MF 52⁰⁸/₁₀ - S/D



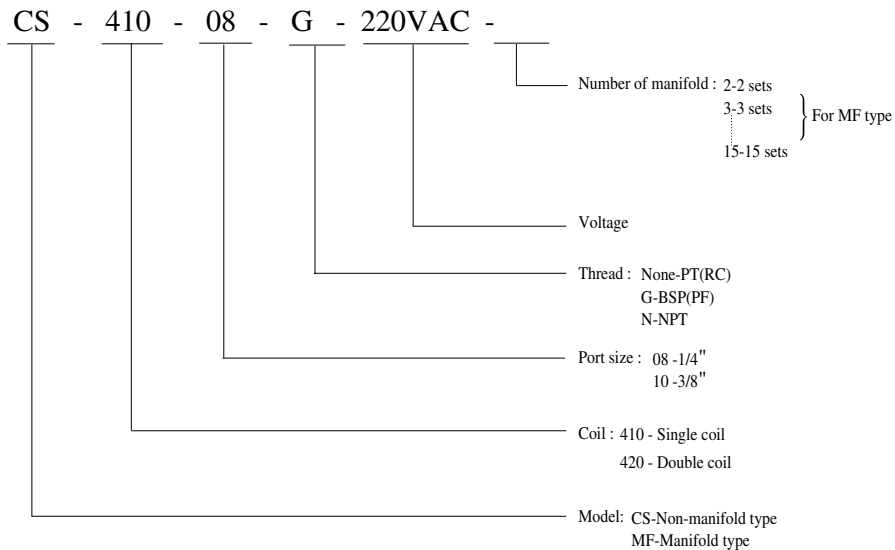


5/2-way solenoid valve of die-cast aluminum for pipe connection

Single & Double Coil / PU Design

Model	Port size	Effective Area (mm ²)	CV value	Fluid temp. (°C)	Seat disc	Differential pressure kg/cm ² (bar)	Wt. (kg)
						Air	
CS-410-08	1/4 "	25	1.40	-10	PUR	1.5-10	0.70
CS-410-10	3/8 "	32	1.79			1.5-10	0.70
CS-420-08	1/4 "	25	1.40	60		1.5-10	1.0
CS-420-10	3/8 "	32	1.79			1.5-10	1.0

How to order



Features:

Utilizing differential pressure to operate the internal spool, this solenoid valve features low power consumption, different from direct-acting solenoid valve which is completely operated by magnetic force and consumes more power. The internal spool is made of aluminum and handled with hard film, and the shaft seal made of polyurethane resists friction and can be operated without lubricating, and assures no air leakage. Magnetic coil is waterproof and valve body is made of die-cast aluminum. This kind of valve has better-resistance in bad condition.

* Manual-operated device :

C:Close

O:Open

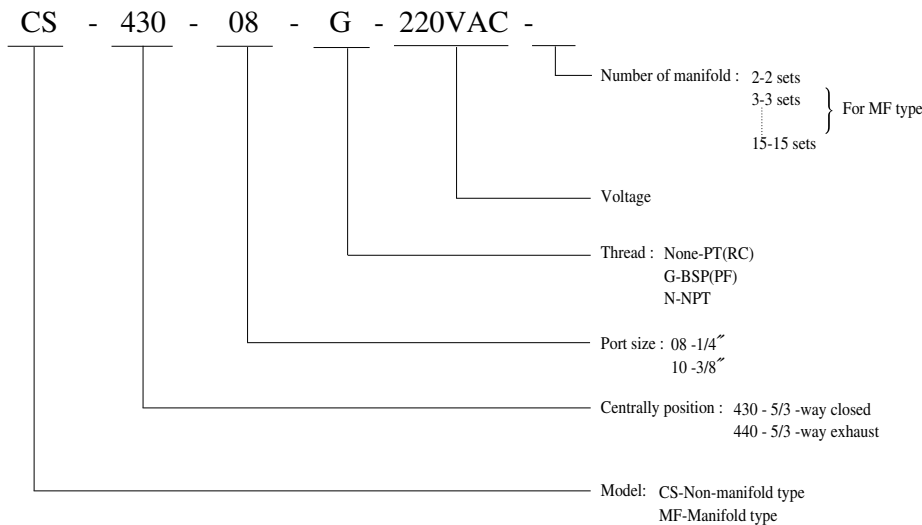


5/3-way solenoid valve of die-cast aluminum for pipe connection

Double Coil / PU Design

Model	Port size	Effective Area (mm ²)	CV value	Fluid temp. (°C)	Seat disc	Differential pressure kg/cm ² (bar)	Wt. (kg)
						Air	
CS-430-08	1/4 "	17	0.95	-10	PUR	1.5-10	1.5
CS-430-10	3/8 "	21	1.18			1.5-10	1.5
CS-440-08	1/4 "	17	0.95	60		1.5-10	1.5
CS-440-10	3/8 "	21	1.18	1.5-10		1.5	

How to order



Features:

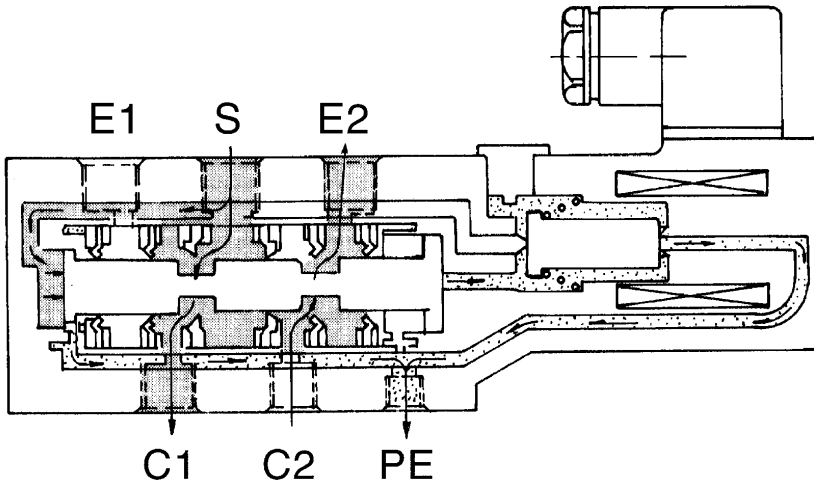
Utilizing differential pressure to operate the internal spool, this solenoid valve features low power consumption, different from direct-acting solenoid valve which is completely operated by magnetic force and consumes more power. The internal spool is made of aluminum and handled with hard film, and the shaft seal made of polyurethane resists friction and can be operated without lubricating, and assures no air leakage. Magnetic coil is waterproof and valve body is made of die-cast aluminum. This kind of valve has better-resistance in bad condition.

* Manual-operated device :

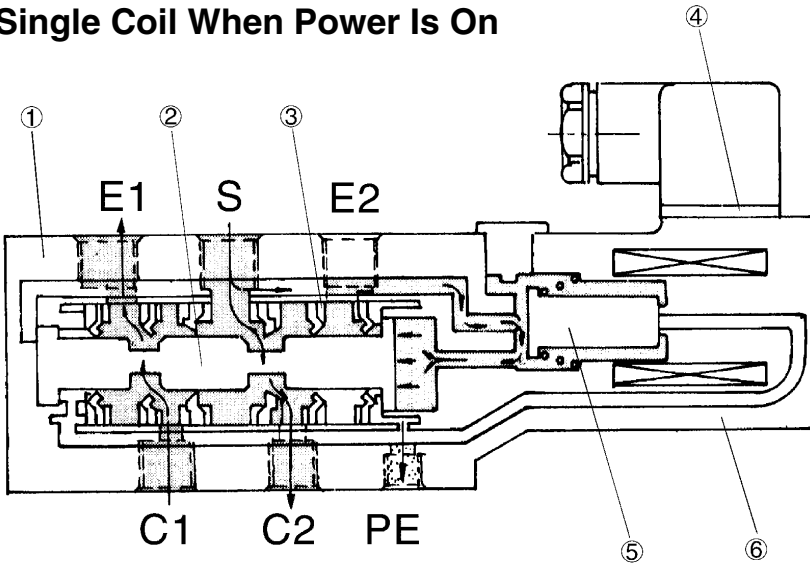
C:Close

O:Open

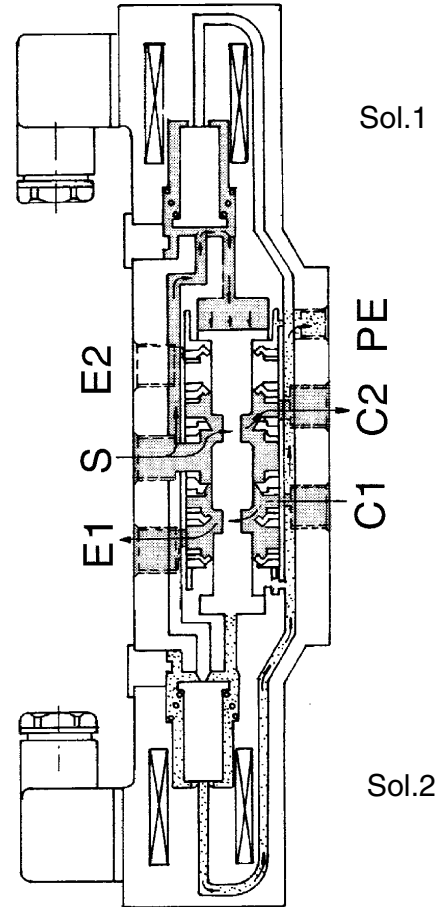
● Single Coil When Power Is Off



● Single Coil When Power Is On

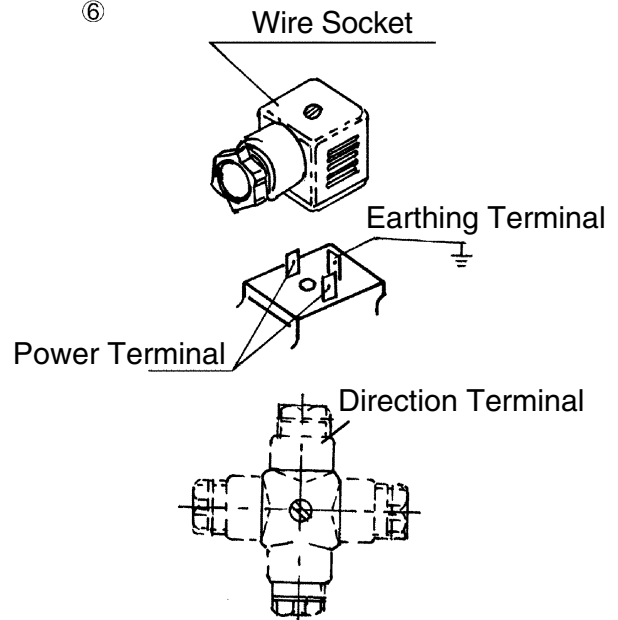


● Single Coil When Power Is On (Sol.1)



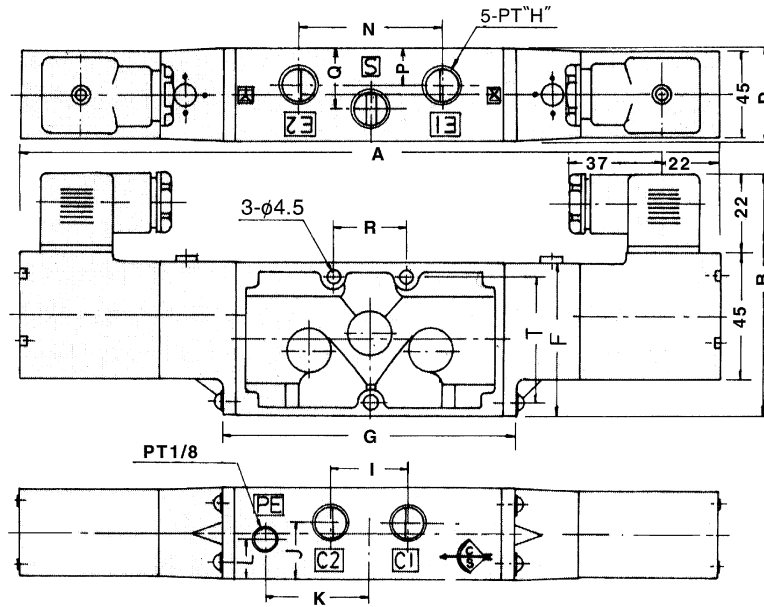
● Materials Table

Item	Article	Material
1	Body	Aluminum
2	Spool	Aluminum
3	Shaft Seals	PU Polyurethane
4	Gasket	FRP
5	Coil	Brass Wire
6	Armature Core	Stainless Steel



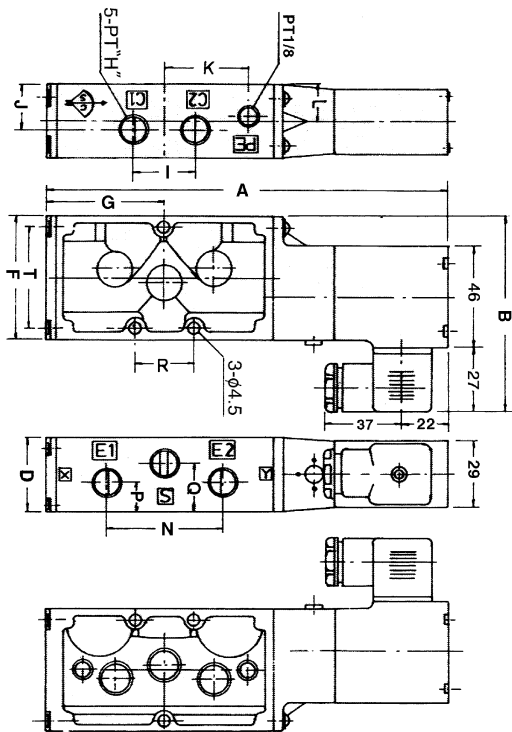
● CS-420-08

CS-420-10



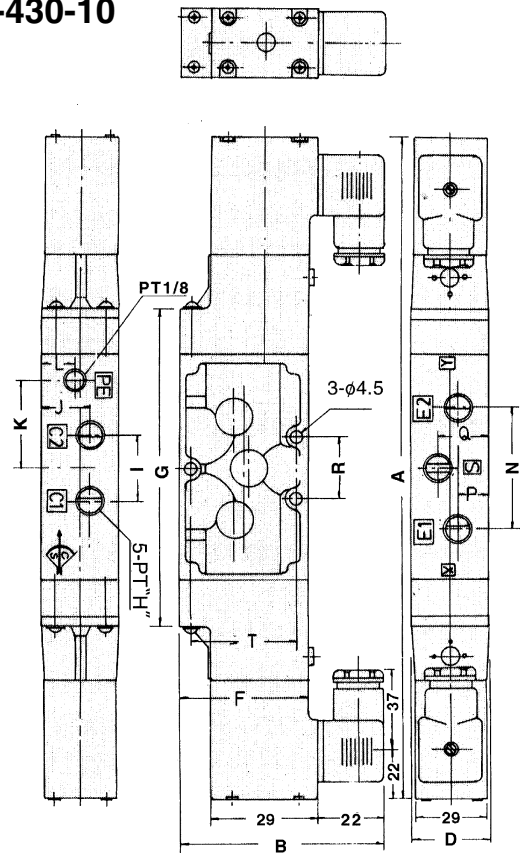
● CS-410-08

CS-410-10



● CS-430-08

CS-430-10



● Specifications

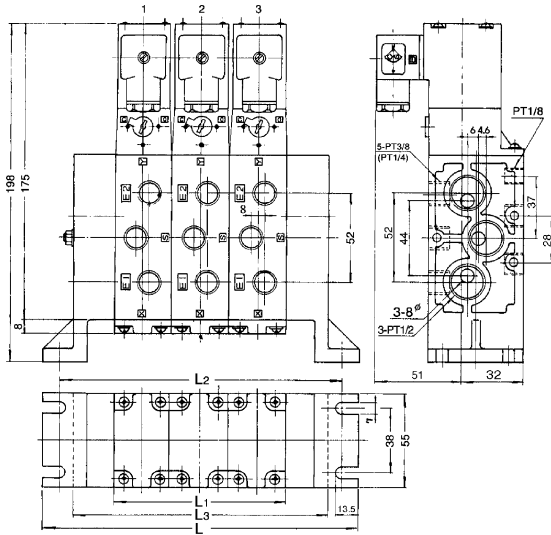
Unit:mm

Model \ Item	A	B	D	F	G	H	I	J	K	L	N	P	Q	R	T
CS-410-08/10	183	85	33	55	56	1/4" , 3/8"	28	20.5	37	14.5	52	12.5	20.5	26	45
CS-420-08/10	255	85	33	55	104	1/4" , 3/8"	28	20.5	37	14.5	52	12.5	20.5	26	45
CS-430-08/10	299	85	33	55	148	1/4" , 3/8"	28	20.5	37	14.5	52	12.5	20.5	26	45

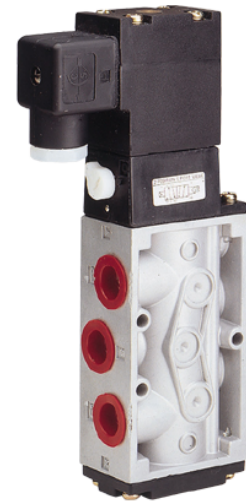
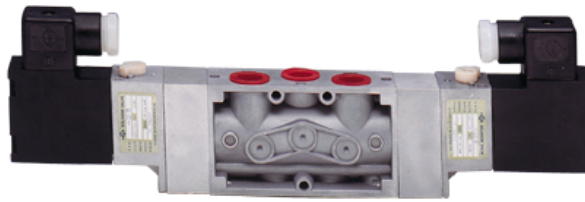
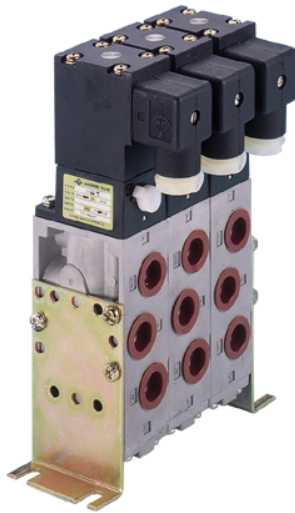
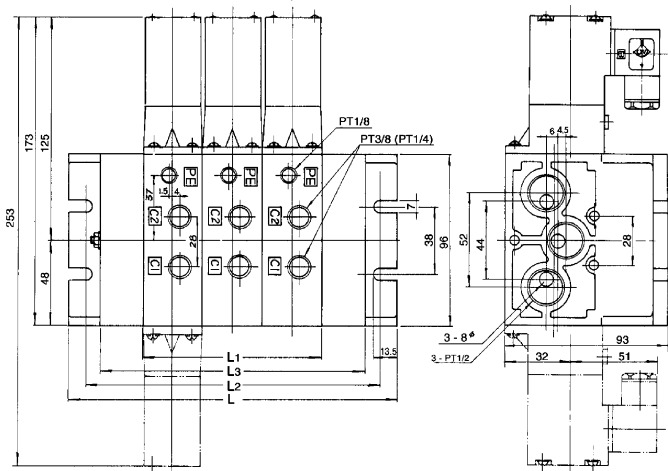
● Combination Manifold Solenoid Valves MF 410, 420, 430

TYPE	MF
Structure	Central Exhaust
Connection Number	2-10N
Central Exhaust	Common Joint E1, E2
Continuous Caliber	S.PT1/2" C. PT1/4" 3/8 E. PT3/8"

Specification Chart A



Specification Chart B



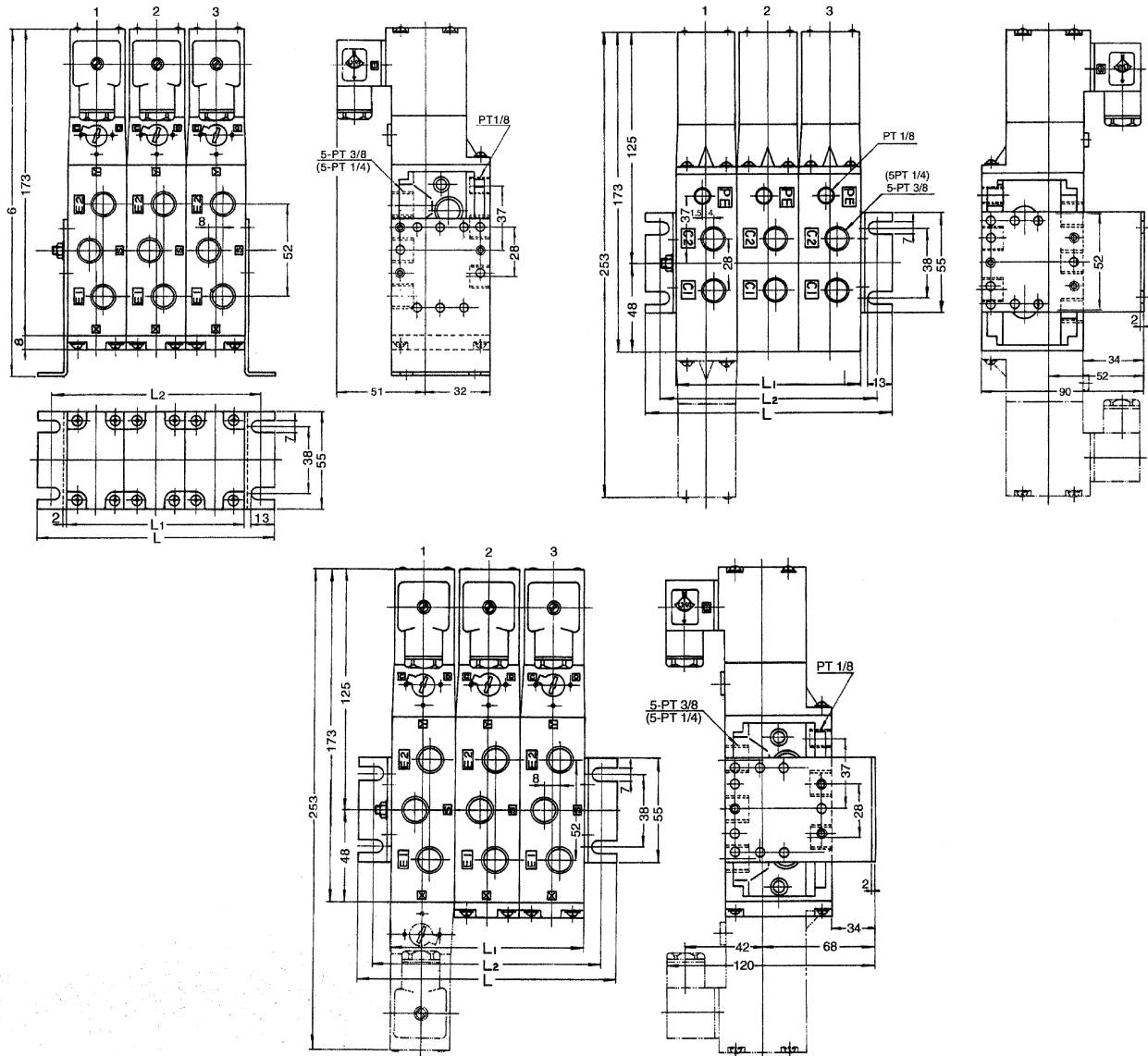
● Specification

Unit:mm

Connection NO.	Mark	L1	L2	L3	L
2		66	132	116	152
3		99	165	149	185
4		132	198	182	218
5		165	231	215	251
N		Nx33	(Nx33)+66	(Nx33)+50	(Nx33)+86

● Parallel-Connecting Manifold Solenoid Valve Fixed-Stand Type MF 410, 420, 430

TYPE	MF
Structure	Independent Exhaust
Connection Number	2-10N
Independent Exhaust	S Common Joint
Continuous Caliber	S. PT1/4" C. PT1/4" 3/8" E. PT1/4" 3/8"



● Specification

Unit:mm

Connection NO.	Mark	L1	L2	L3
2		66	84	100
3		99	117	133
4		132	150	166
5		165	183	199
N		Nx33	(Nx33)+18	(Nx33)+34