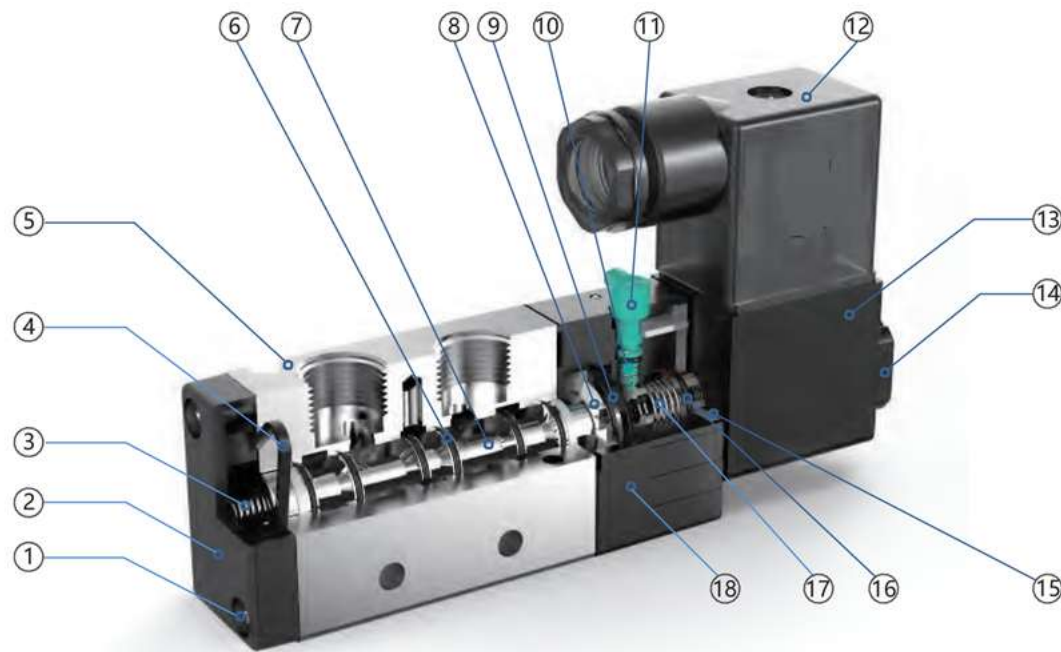


Features

1. The Anti-friction seal is added at both ends of the valve spool to make the valve spool more stable during the switching process and increase the valve life time.
2. Seals original imported from Japan; Optimize valve body inner flow path; Maximum increase the air flow area.
3. Valve Piloted Seat is from Taiwan, the surface design with 5 pcs stripe; Increased the strength of Mannual ride spindle; The appearance is more distinctive (Applied appearance patent).
4. The valve body surface treatment adopts a new environmental protection process.
5. Fully automated assembling & test line with good product consistency.

Internal Structure



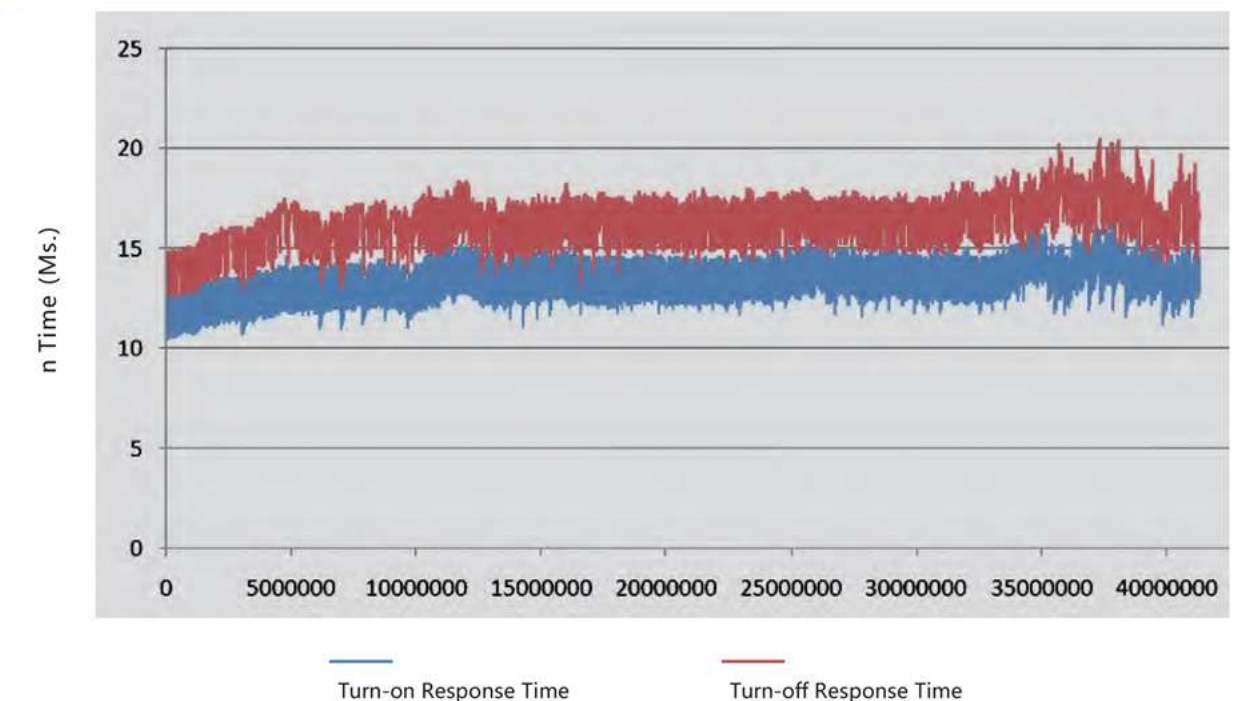
Parts

Number	Name	Number	Name	Number	Name
1	Cross slot pan screw	7	Valve spool	13	Coil
2	Back cover	8	Piston	14	Coil nut
3	Spring	9	Y ring	15	Fix plate
4	Anomalous seal	10	Spring	16	O ring
5	Valve body	11	Mannual ride spindle	17	Plunger
6	Flat ring	12	Terminal	18	Pilot seat

Improvement of Flow Performance Indicator



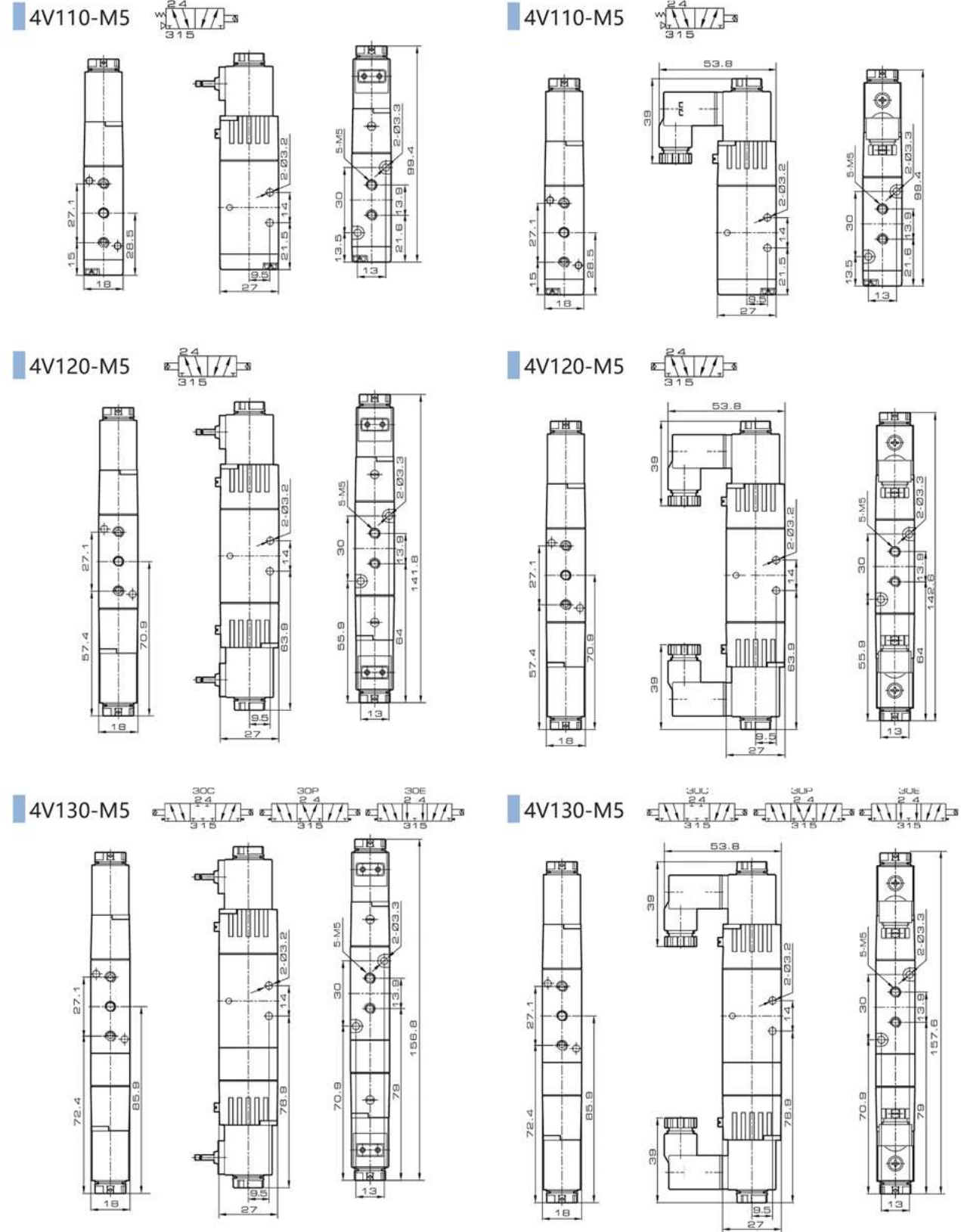
Improvement of Life-time



The chart shows that the response time of the solenoid valve is within 25 milliseconds. The response time of the solenoid valve is minor difference after 40 million lifetime tests.



Overall Dimension



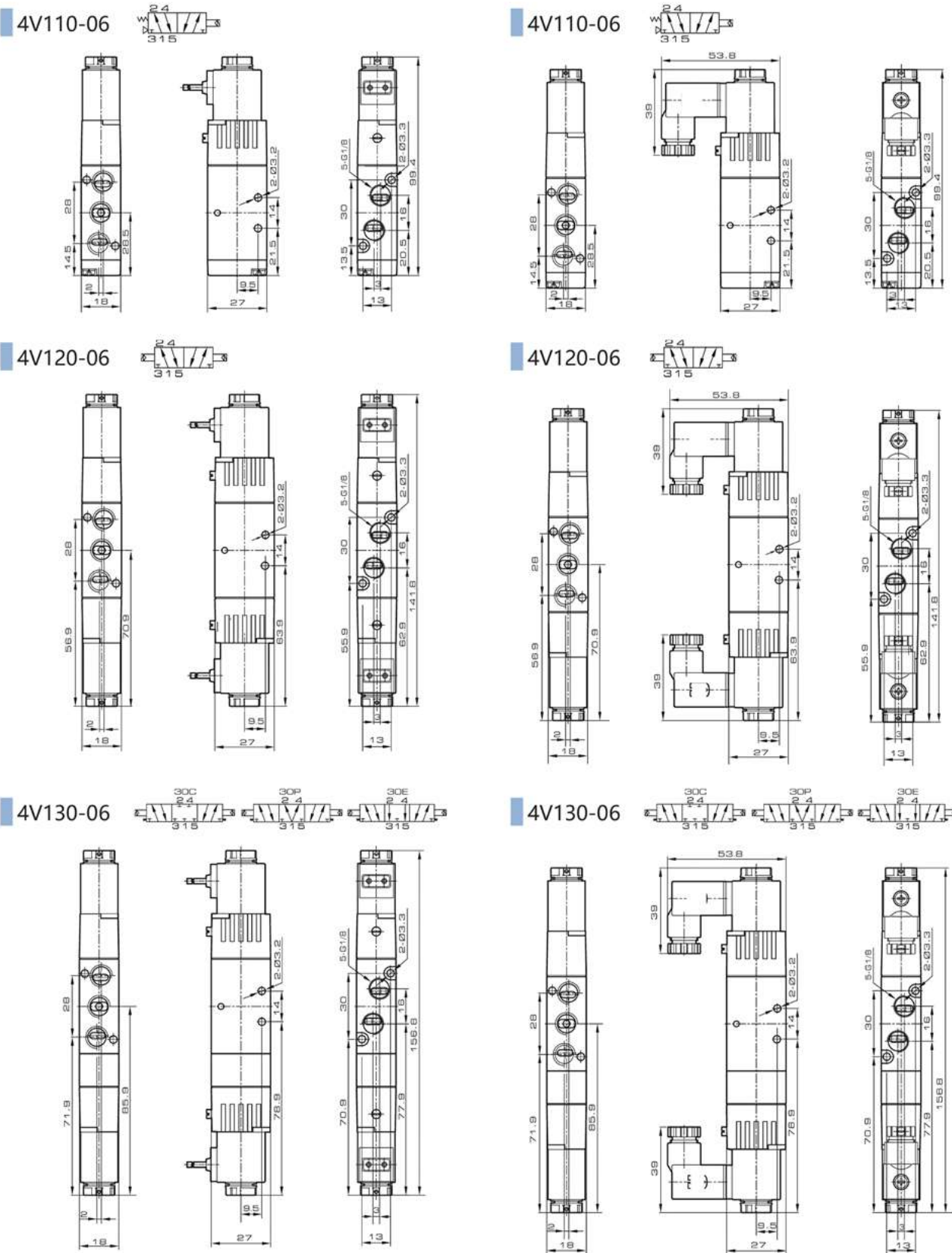
Ordering Code

4V	1	10	06	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection and Initial status	Standard Voltage	Wiring	Joint
4V: 5/2 (3) way solenoid valve 4A: 5/2 (3) way air pilot valve 3V: 3/2 way solenoid valve 3A: 3/2 way air pilot valve	1: 100 Series	10: Single coil 20: Double coil 30C: Mid-position closed 30E: Mid-position exhausted 30P: Mid-position pressed	M5: M5×0.8 06: 1/8"	Blank: Threaded B: Sub-plated mounted (for 5/2, 5/3 way only) NC: 3/2 way normal close NO: 3/2 way normal open	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz	Blank: Without light terminal W: Lead wire	1F-20F

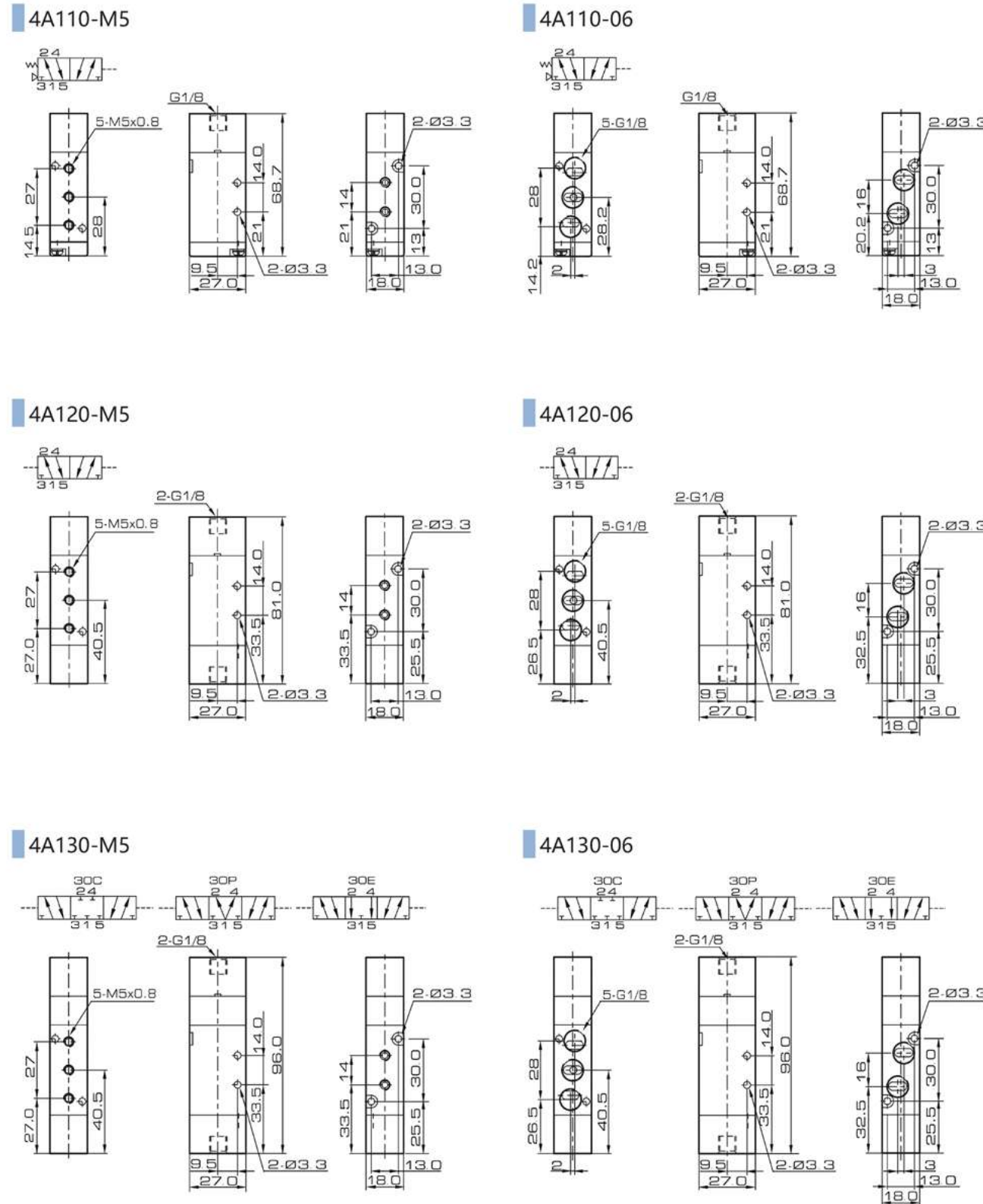
Specification

Model	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06
Valve Type	5/2 way		5/3 way			5/2 way		5/3 way		
Effective Cross Section Area	10 mm ² (CV = 0.56)		7 mm ² (CV = 0.40)			12 mm ² (CV = 0.67)		9 mm ² (CV = 0.5)		
Model	3V110-M5	3V120-M5	3A110-M5	3A120-M5	3V110-06	3V120-06	3A110-06	3A120-06		
Valve Type	3/2 way									
Effective Cross Section Area	10 mm ² (CV = 0.56)					12 mm ² (CV = 0.67)				
Port Size	Inlet, Outlet, Exhaust Port = M5 × 0.8					Inlet, Outlet, Exhaust Port = G 1/8"				
Working Medium	40 Micron Filtered Air									
Operation	Internal piloted									
Working-pressure	0.15~0.8 MPa									
Max. Test Pressure	1.2 MPa									
Ambient Temperature	-20~70°C									
Operating Voltage Tolerance	±10%									
Power Consumption	AC: 2.5VA DC: 2.5W									
Connector Protection	F Class, IP65									
Wiring / Connector	Cable / Lead Wire or DIN Connector									
Switching Frequency	5 Cycles / Sec.									
Response Time	0.05 Sec.									

Overall Dimension

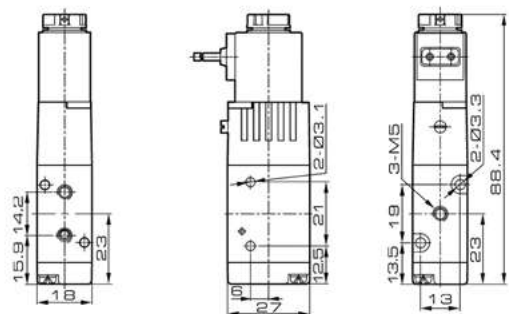
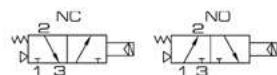


Overall Dimension

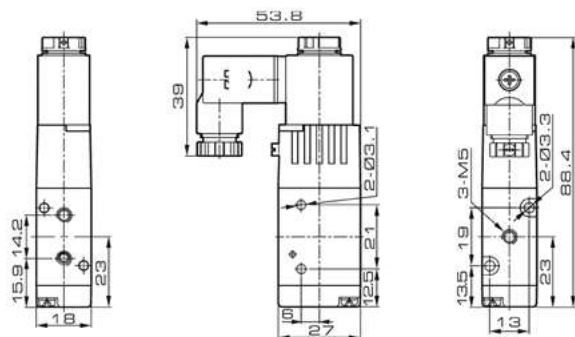
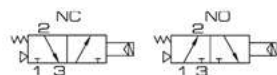


Overall Dimension

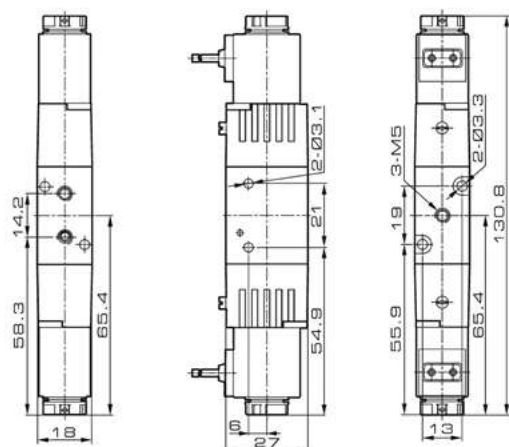
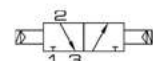
3V110-M5



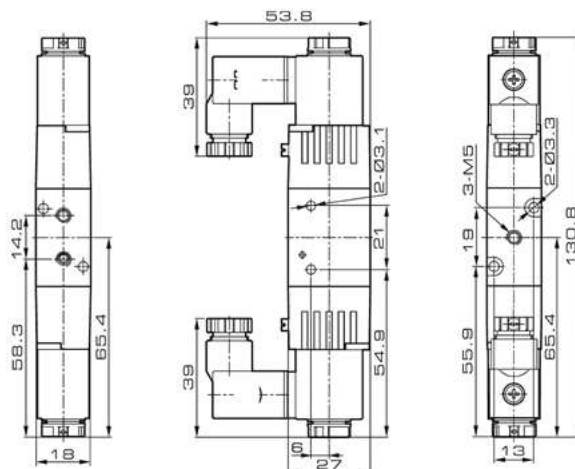
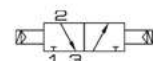
3V110-M5



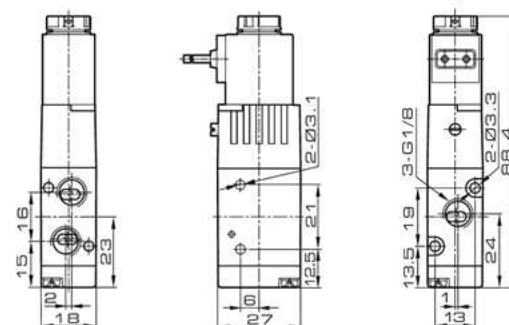
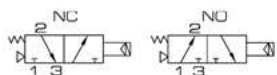
3V120-M5



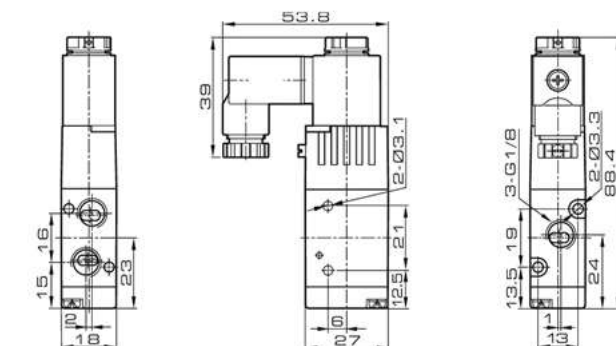
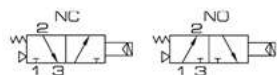
3V120-M5



3V110-06

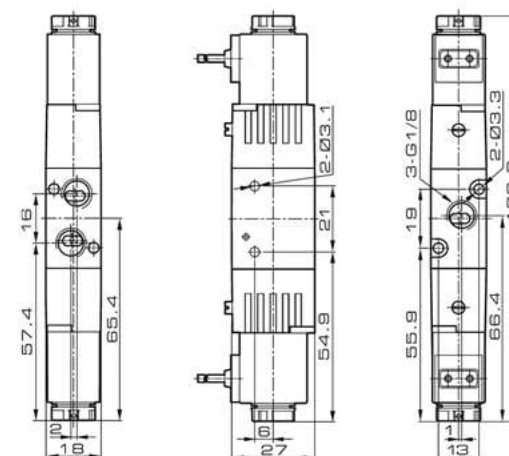
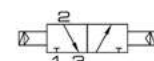


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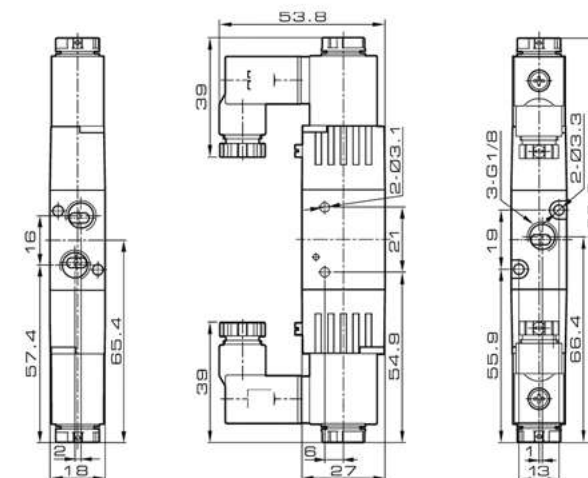
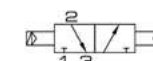


Overall Dimension

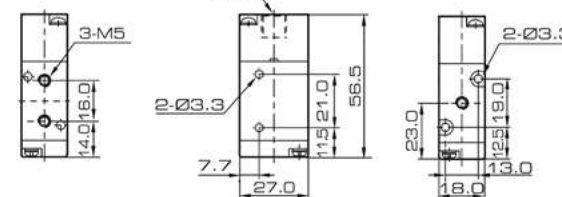
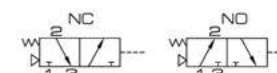
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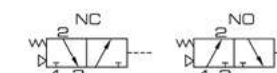
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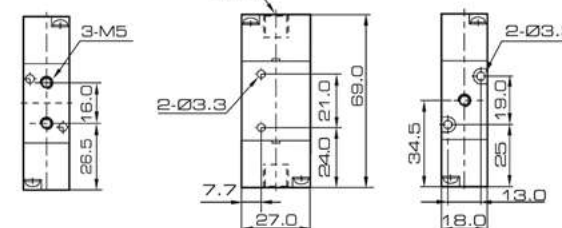
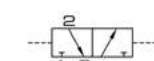
3A110-M5



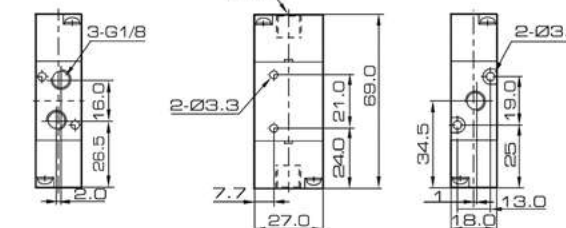
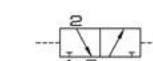
3A110-06



3A120-M5

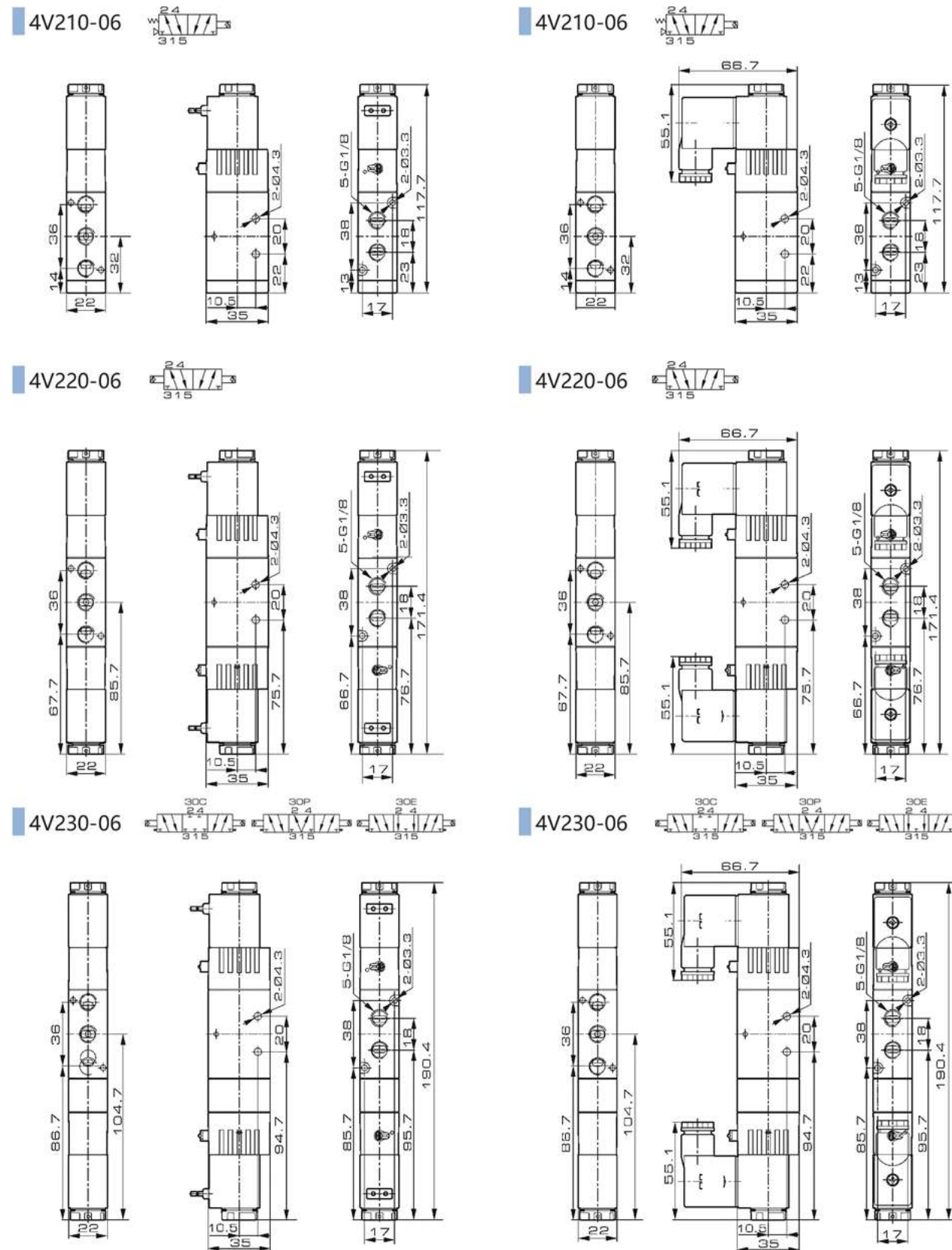


3A120-06





Overall Dimension



Ordering Code

4V	2	10	08	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection and Initial status	Standard Voltage	Wiring	Joint
4V: 5/2 (3) way solenoid valve 4A: 5/2 (3) way air pilot valve 3V: 3/2 way solenoid valve 3A: 3/2 way air pilot valve	2: 200 Series	10: Single coil 20: Double coil 30C: Mid-position closed 30E: Mid-position exhausted 30P: Mid-position pressed	06: 1/8" 08: 1/4"	Blank: Threaded B: Sub-plated mounted (for 5/2, 5/3 way only) NC: 3/2 way normal close NO: 3/2 way normal open	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz	Blank: Without light terminal W: Leadwire	1F-20F

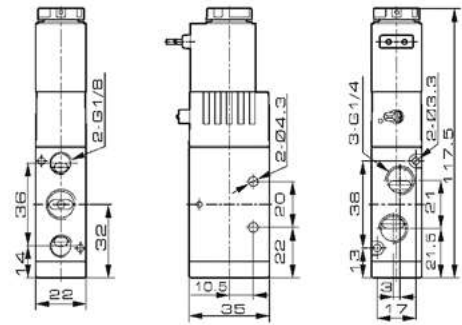
Specification

Model	4V210-06	4V220-06	4V230C-06	4V230E-06	4V230P-06	4V210-08	4V220-08	4V230C-08	4V230E-08	4V230P-08
Valve Type	5/2 way		5/3 way			5/2 way		5/3 way		
Effective Cross Section Area	14 mm ² (CV=0.78)		12 mm ² (CV=0.67)			16 mm ² (CV=0.89)		12 mm ² (CV=0.67)		
Model	3V210-06	3V220-06	3A210-06	3A220-06	3V210-08	3V220-08	3A210-08	3A220-08		
Valve Type	3/2 way									
Effective Cross Section Area	14 mm ² (CV = 0.78)					16 mm ² (CV = 0.89)				
Port Size	Inlet, Outlet, Exhaust Port = G 1/8"					Inlet, Outlet = G 1/4", Exhaust Port = G 1/8"				
Working Medium	40 Micron Filtered Air									
Operation	Internal piloted									
Working-pressure	0.15~0.8 MPa									
Max. Test Pressure	1.2 MPa									
Ambient Temperature	-20~70°C									
Operating Voltage Tolerance	± 10%									
Power Consumption	AC: 3.5VA DC: 3.0W									
Connector Protection	F Class, IP 65									
Wiring / Connector	Cable / Lead Wire or DIN Connector									
Switching Frequency	5 Cycles / Sec.									
Response Time	0.05 Sec.									

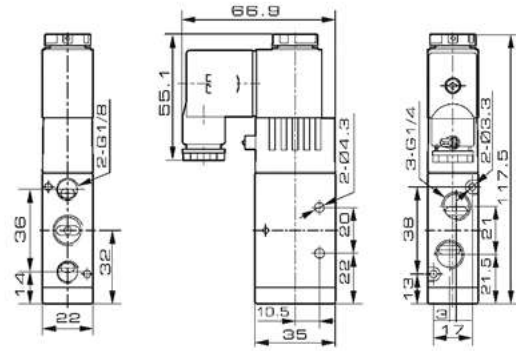
Overall Dimension

Overall Dimension

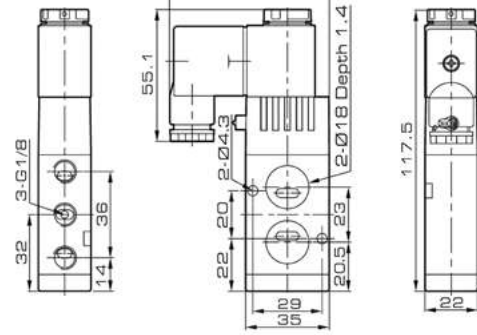
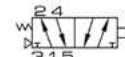
4V210-08



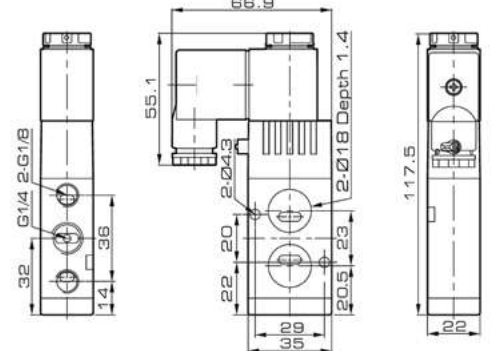
4V210-08



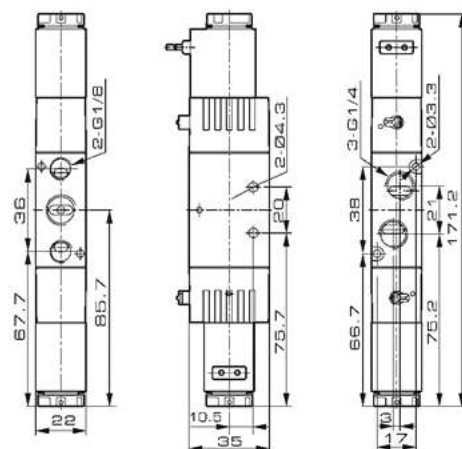
4V210-06B



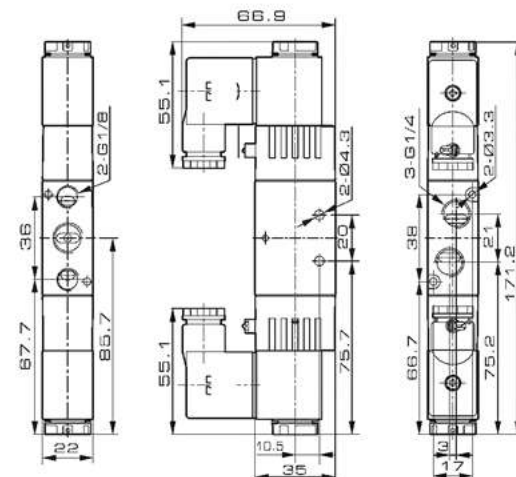
4V210-08B



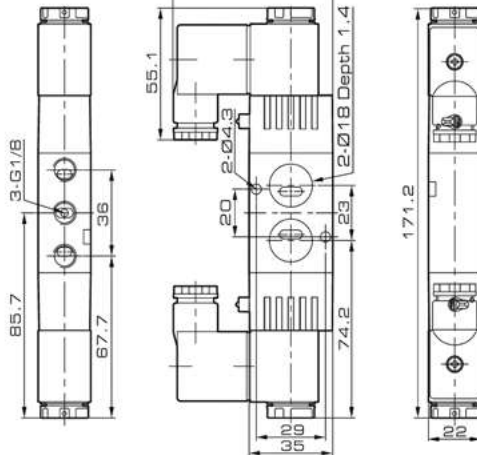
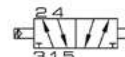
4V220-08



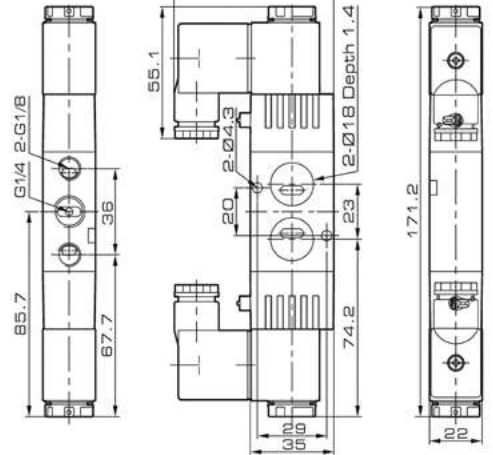
4V220-08



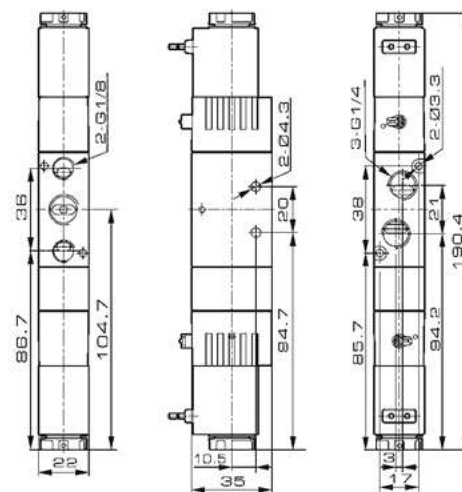
4V220-06B



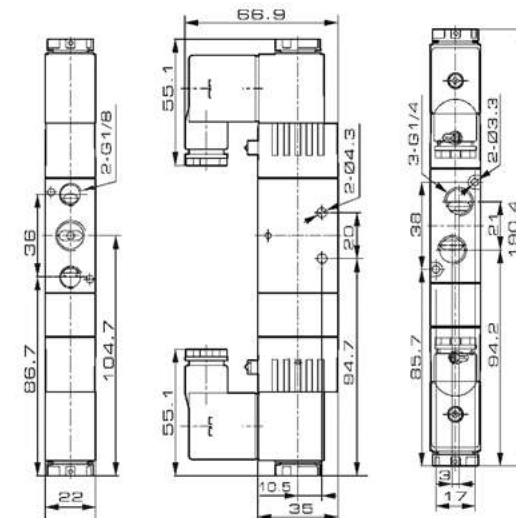
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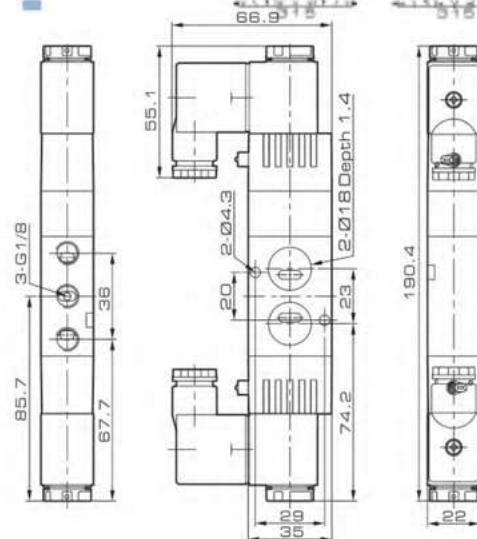
4V230-08



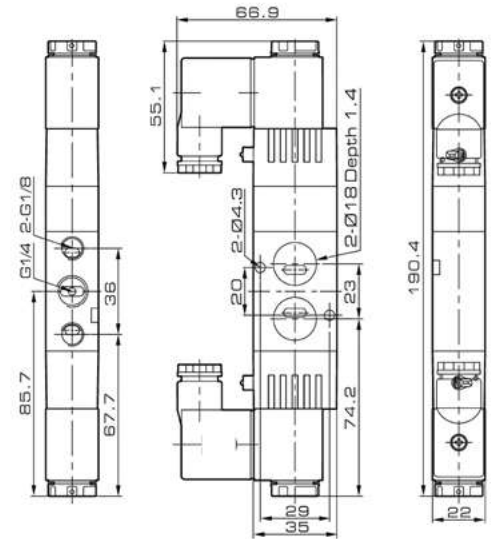
4V230-08



4V230-06B

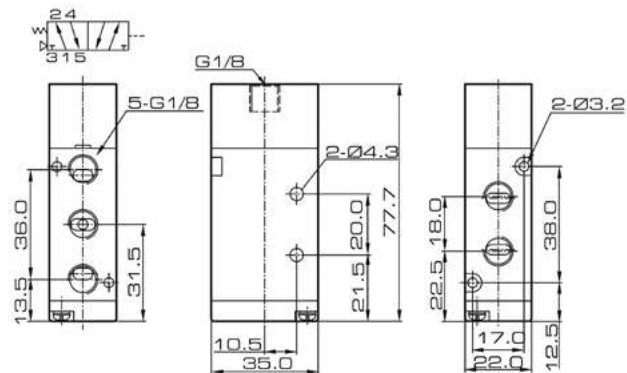


4V230-08B

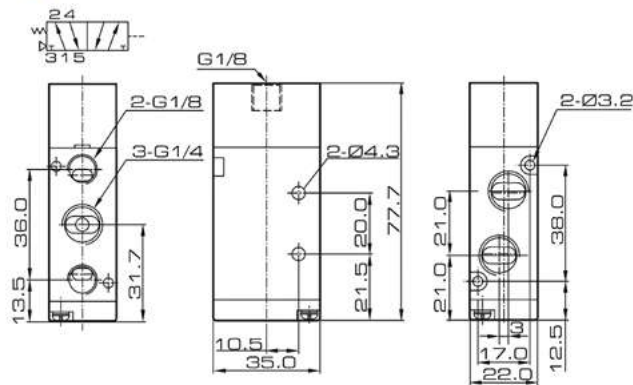


Overall Dimension

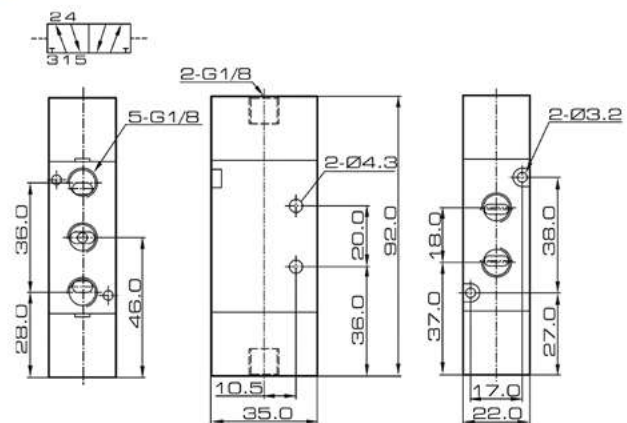
4A210-06



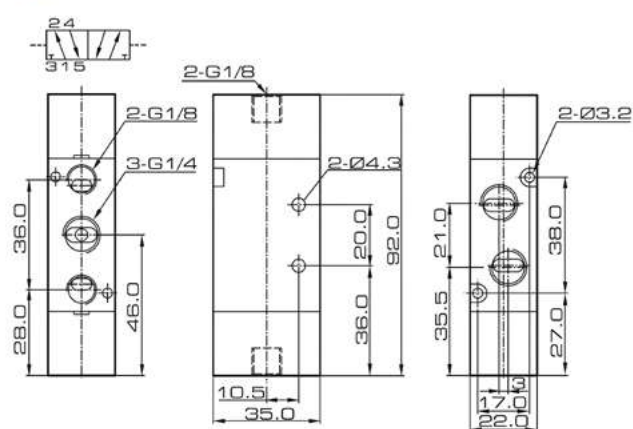
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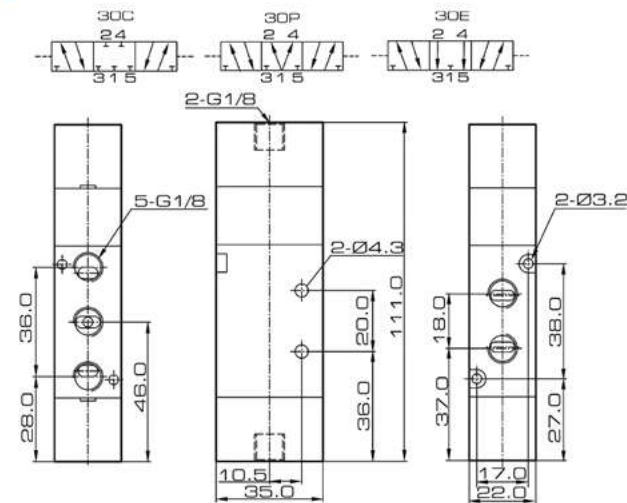
4A220-06



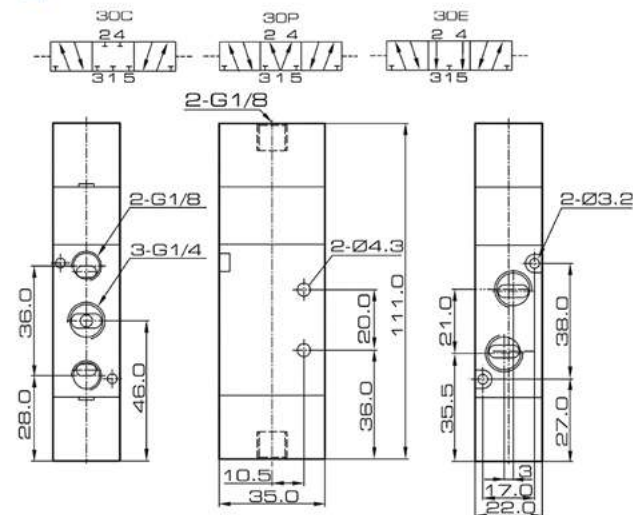
4A220-08



4A230-06

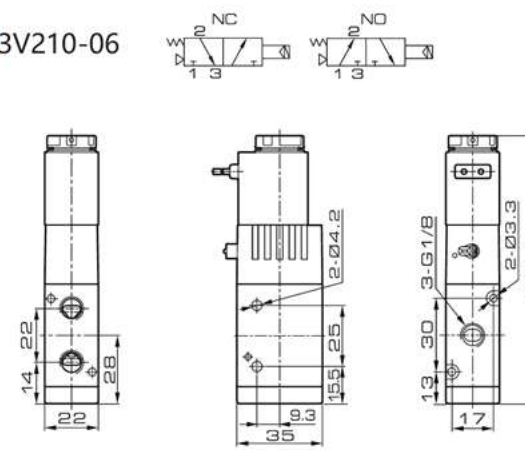


4A230-08

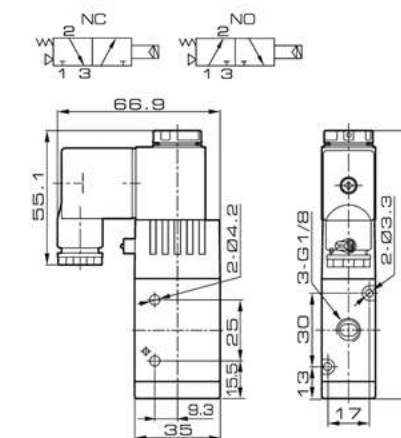


Overall Dimension

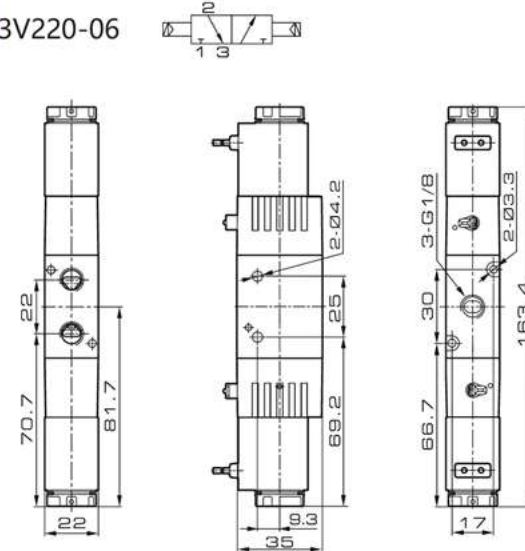
3V210-06



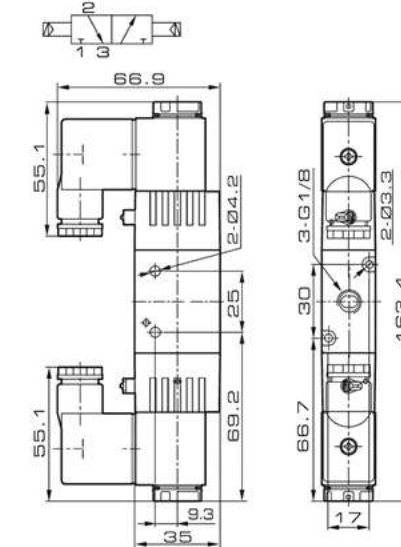
3V210-06



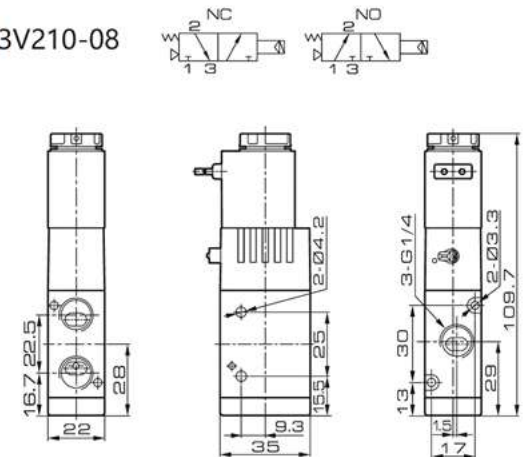
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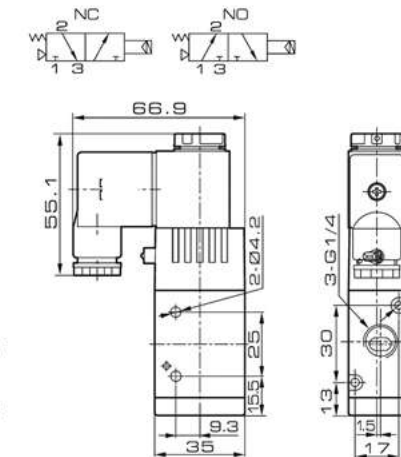
3V220-06



3V210-08

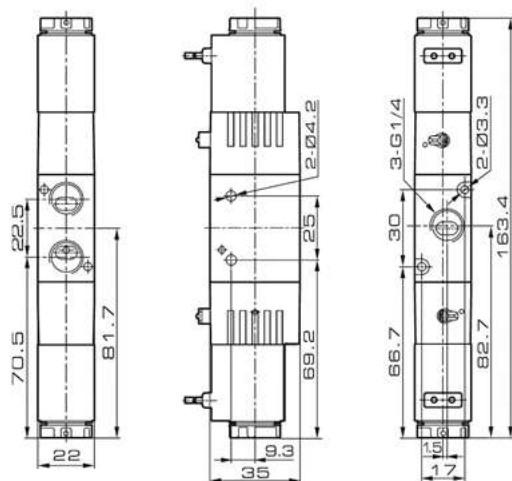
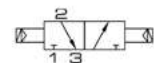


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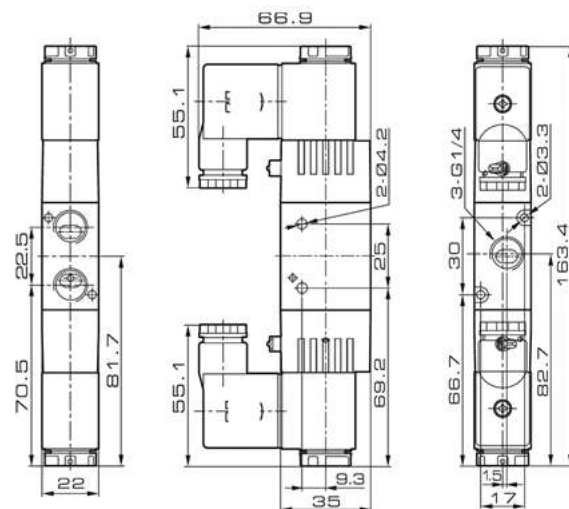
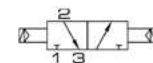


Overall Dimension

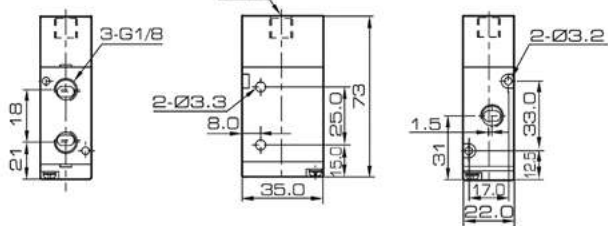
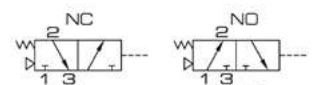
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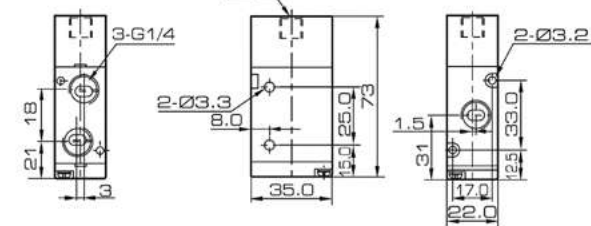
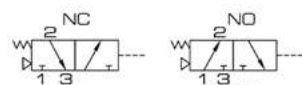
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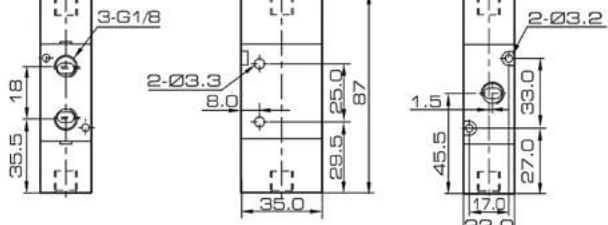
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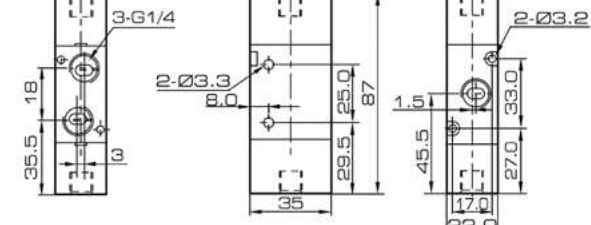
3A210-08



3A220-06



3A220-08



Ordering Code

4V	3	10	10	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection/Initial status	Standard Voltage	Wiring	Joint
4V: 5/2 (3) way solenoid valve 4A: 5/2 (3) way air pilot valve 3V: 3/2 way solenoid valve 3A: 3/2 way air pilot valve	3: 300 Series	10: Single coil 20: Double coil 30C: Mid-position closed 30E: Mid-position exhausted 30P: Mid-position pressed	08: 1/4" 10: 3/8"	Blank: Threaded B: Sub-plated mounted (for 5/2,5/3 way only) NC: 3/2 way normal close NO: 3/2 way normal open	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz	Blank: Without light terminal W: Leadwire	1F-20F

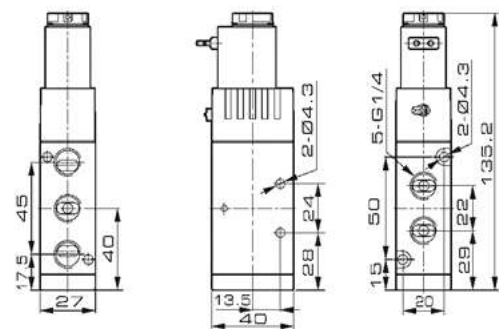
Specification

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Valve Type	5/2 way			5/3 way		5/2 way		5/3 way		
Effective Cross Section Area	25mm ² (CV=1.40)			18mm ² (CV=1.00)		30mm ² (CV=1.68)		18mm ² (CV=1.00)		
Model	3V310-08	3V320-08	3A310-08	3A320-08	3V310-10	3V320-10	3A310-10	3A320-10		
Valve Type	3/2 way									
Effective Cross Section Area	25mm ² (CV=1.40)					30mm ² (CV=1.68)				
Port Size	Inlet, Outlet, Exhaust Port = G 1/4"					Inlet, Outlet = G 3/8" Exhaust Port = G 1/4"				
Working Medium	40 Micron Filtered Air									
Operation	Internal piloted									
Working-pressure	0.15~0.8 MPa									
Max. Test Pressure	1.2 MPa									
Ambient Temperature	-20~70°C									
Operating Voltage Tolerance	±10%									
Power Consumption	AC: 3.5VA DC: 3.0W									
Connector Protection	F Class, IP 65									
Wiring / Connector	Cable / Lead Wire or DIN Connector									
Switching Frequency	5 Cycles / Sec.									
Response Time	0.05 Sec.									

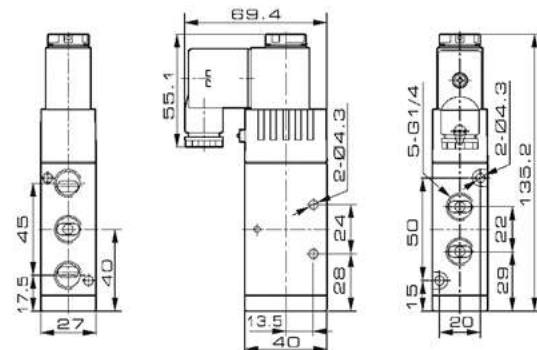
Overall Dimension

Overall Dimension

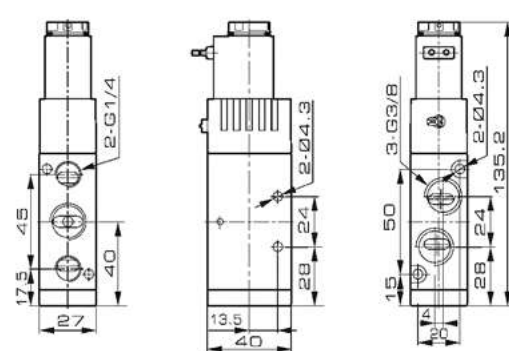
4V310-08



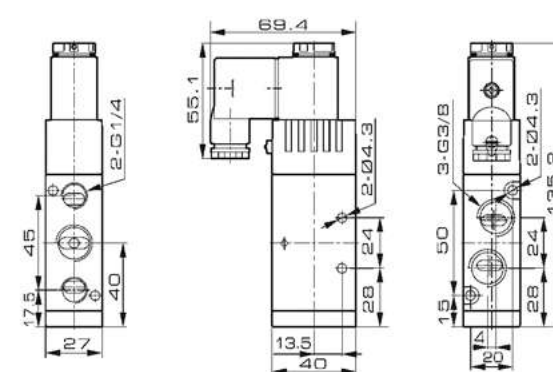
4V310-08



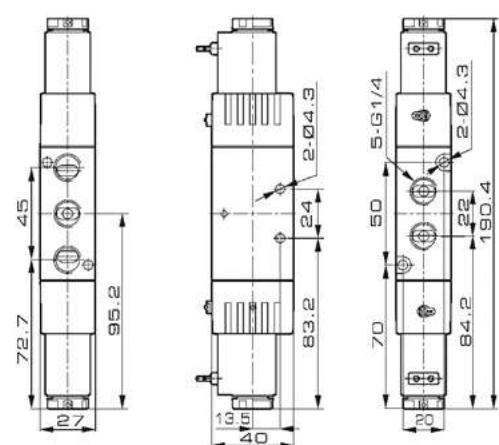
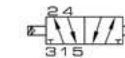
4V310-10



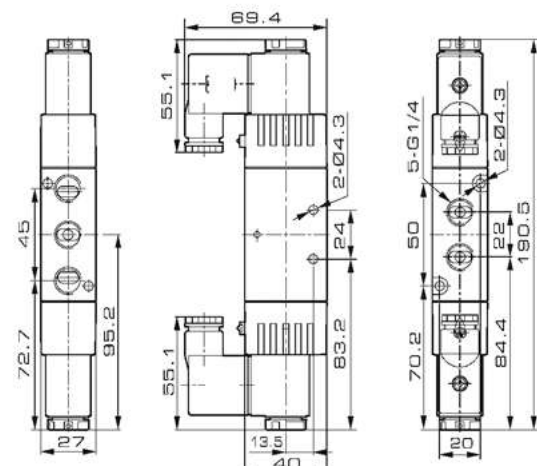
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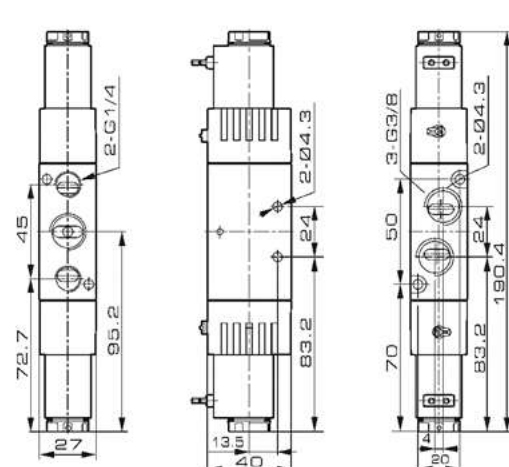
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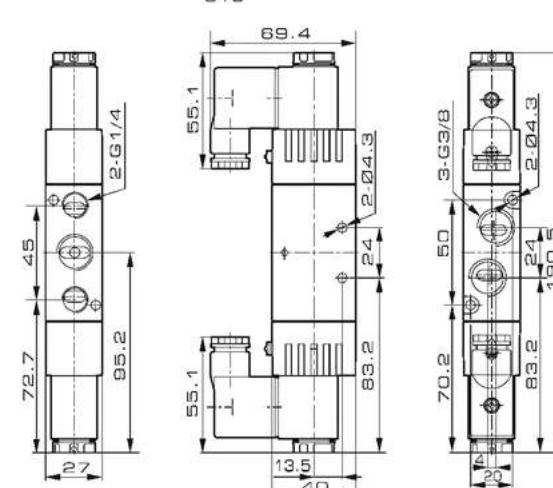
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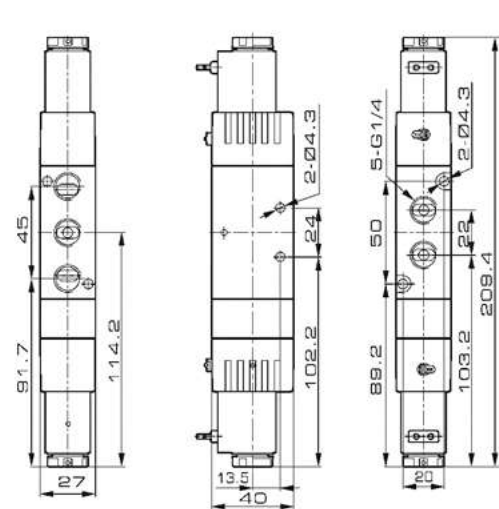
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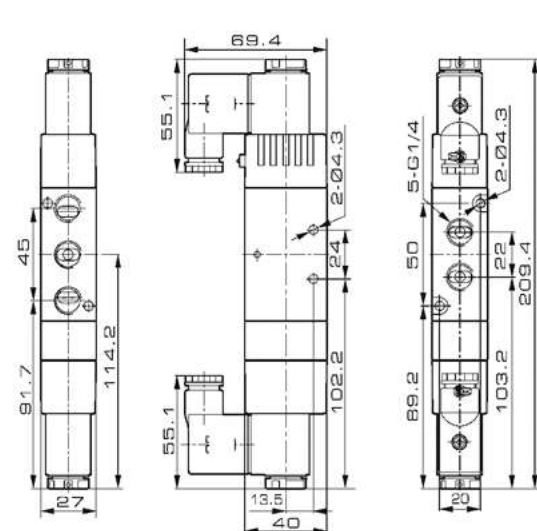
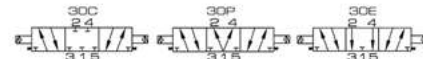
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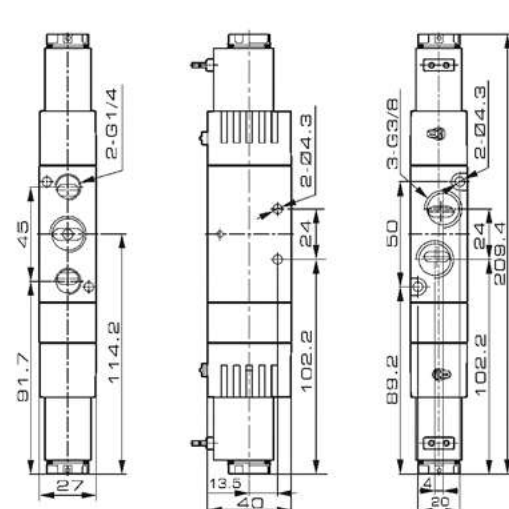
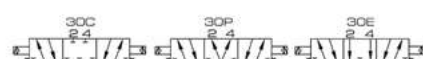
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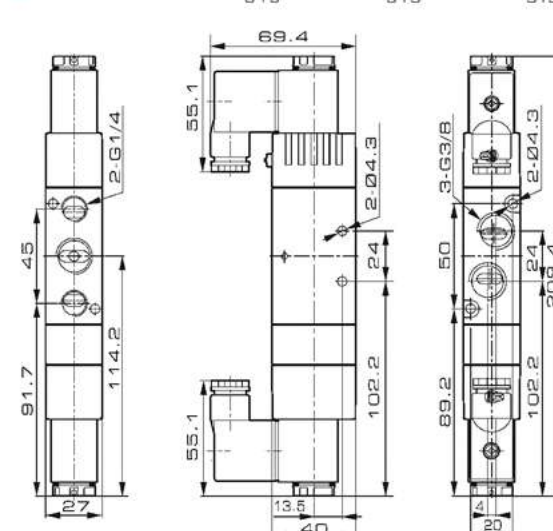
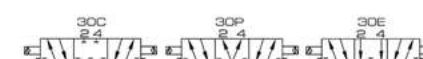
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4V330-10

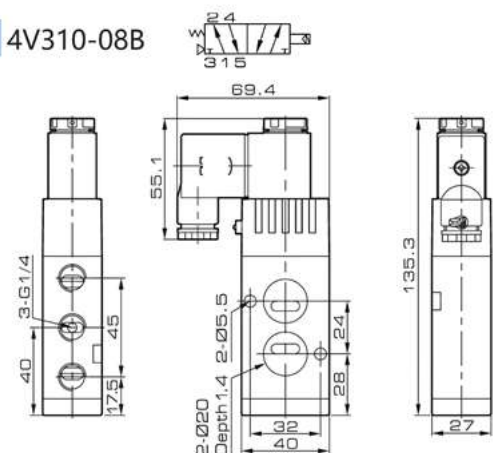


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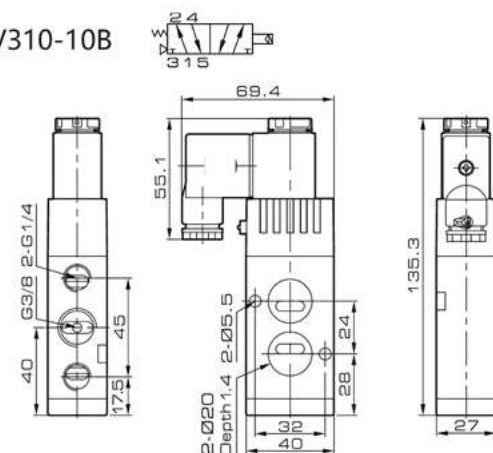


Overall Dimension

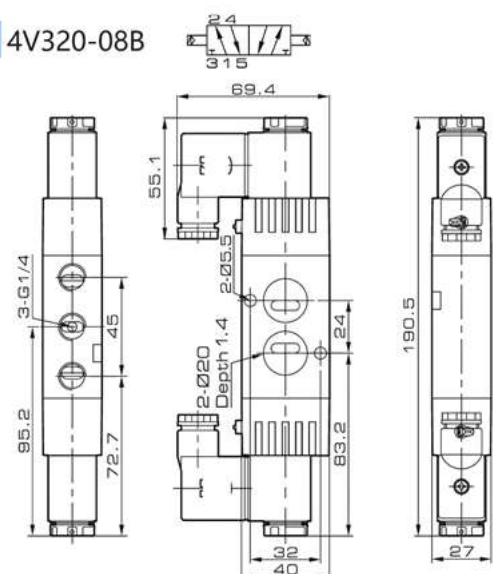
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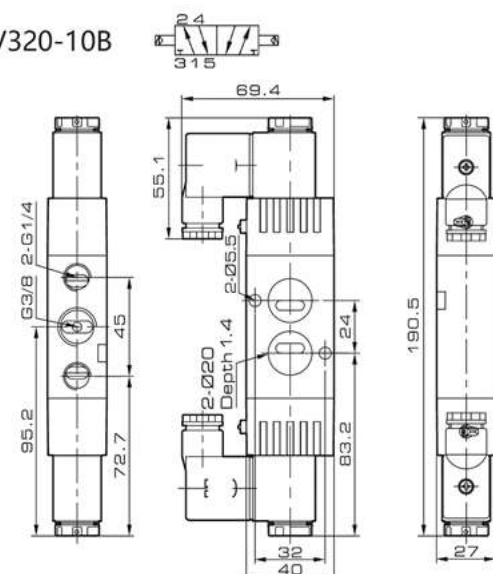
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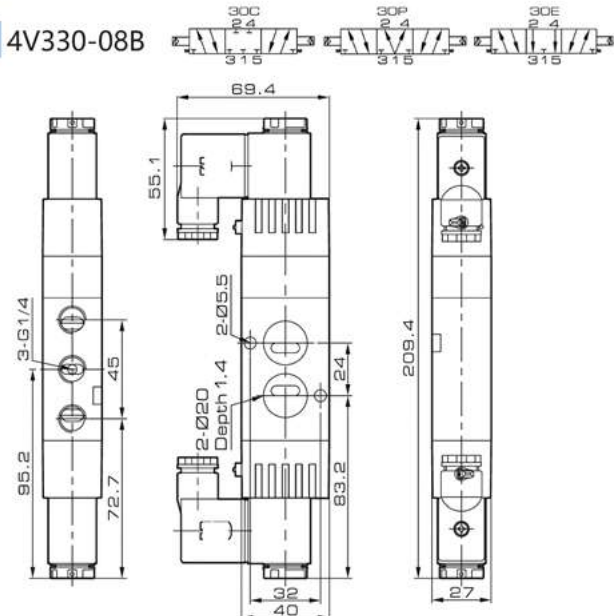
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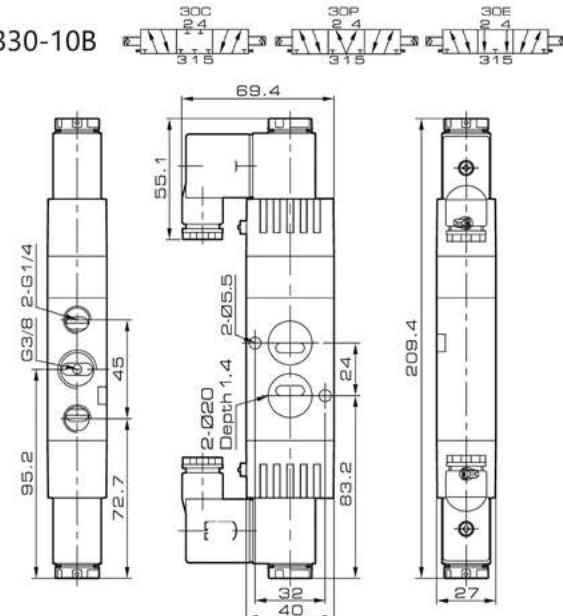
4V320-10B



4V330-08B

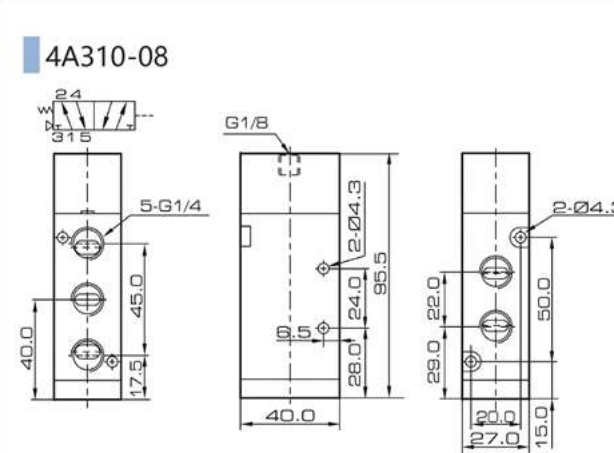


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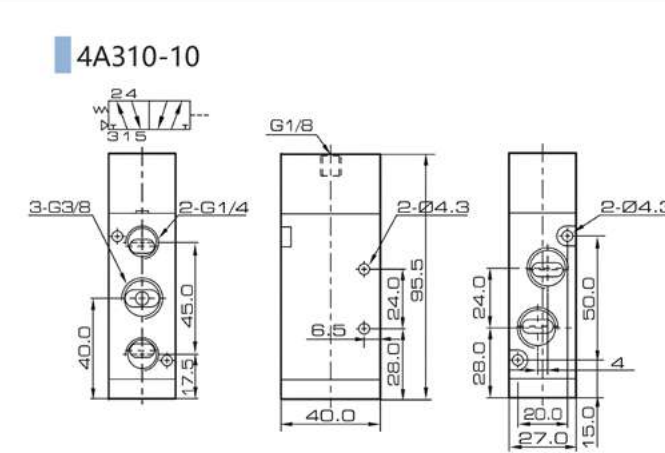


Overall Dimension

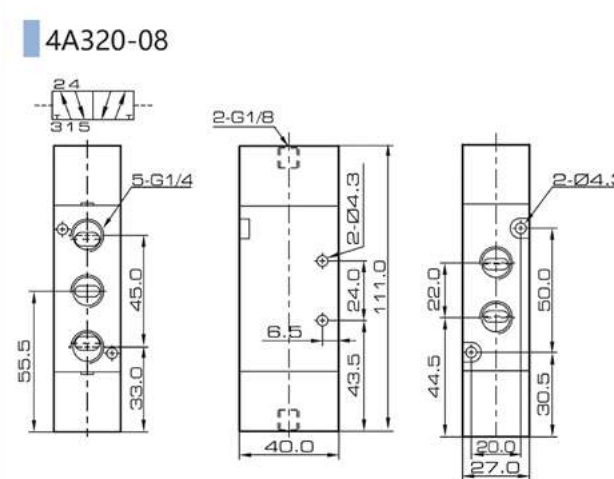
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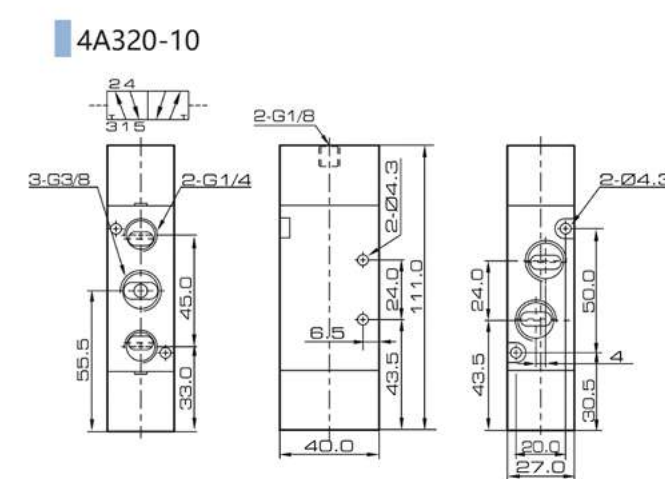
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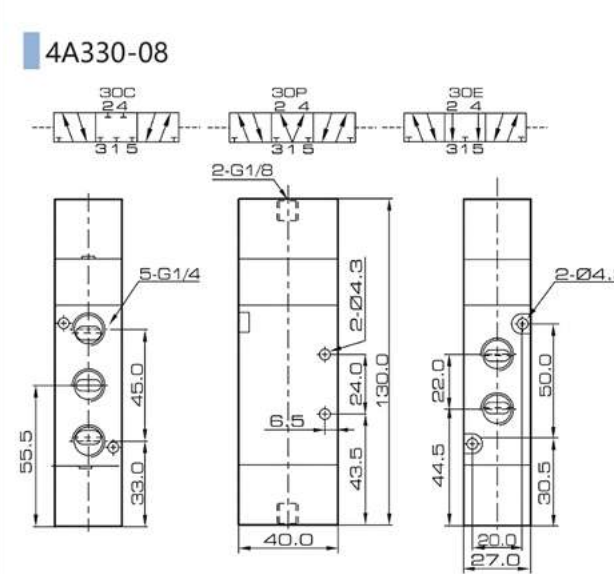
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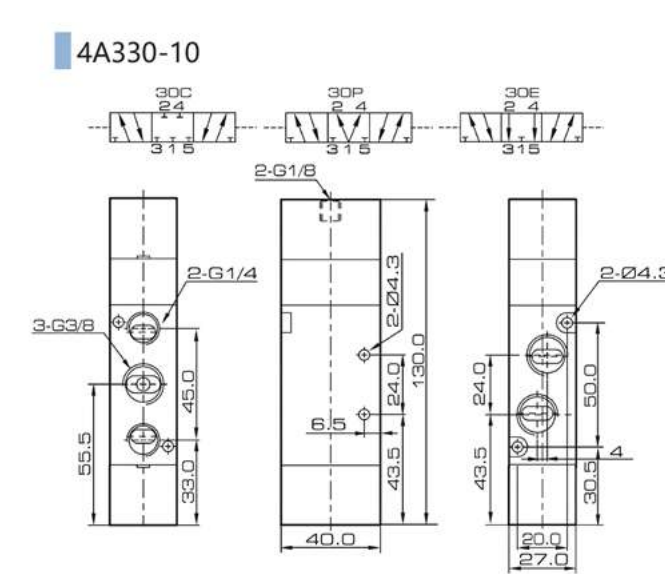
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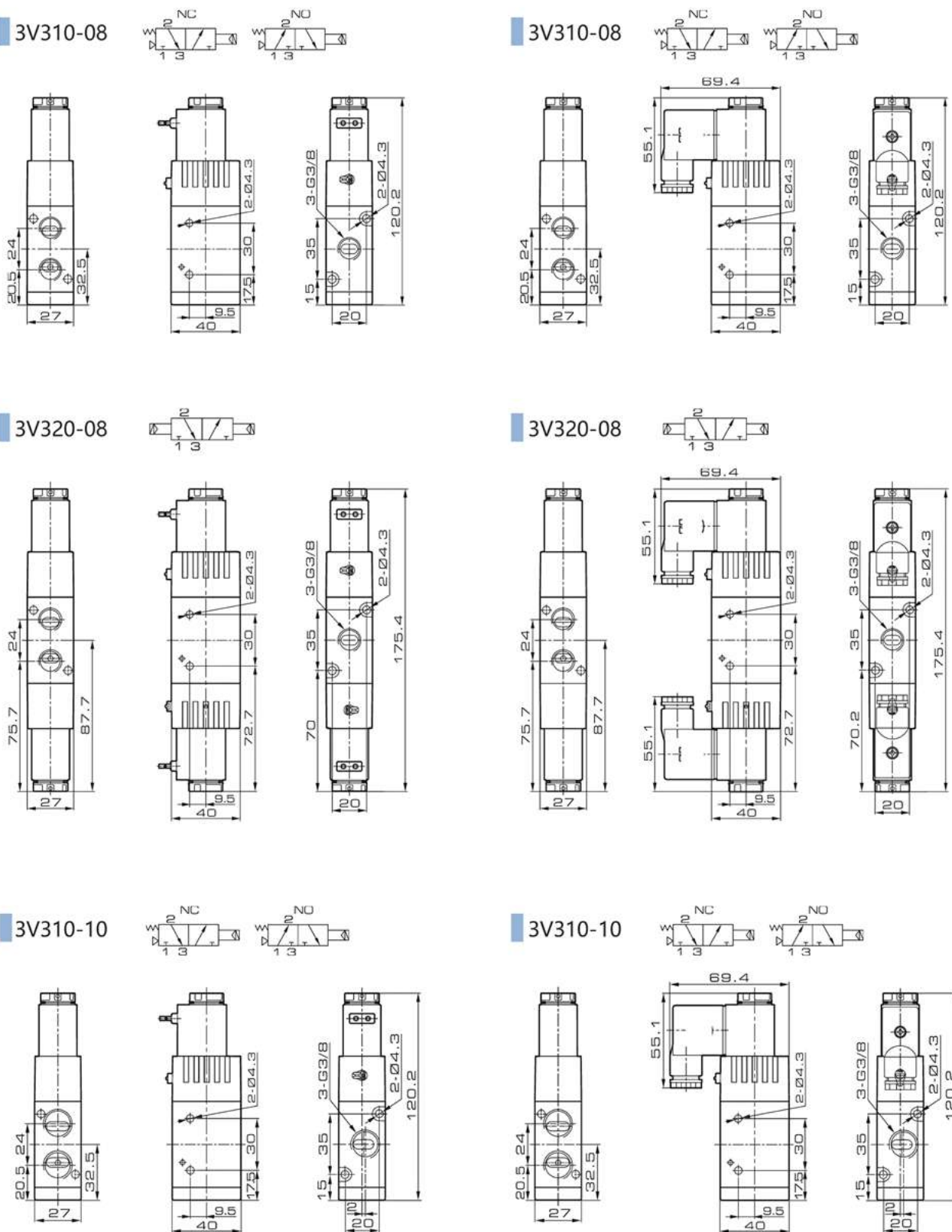
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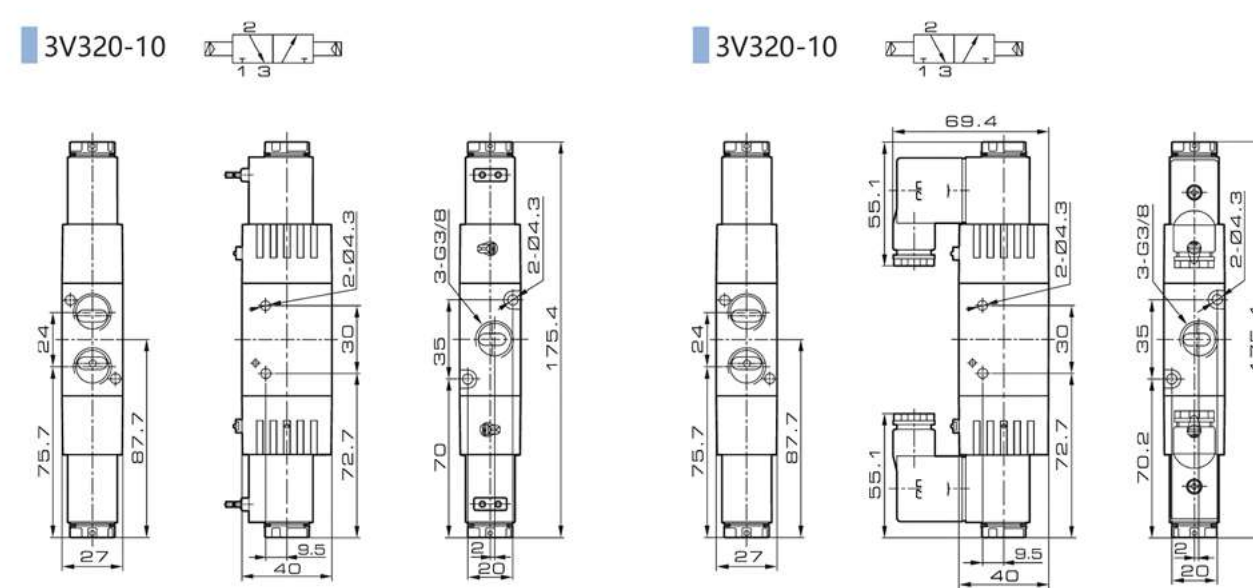
4A330-10



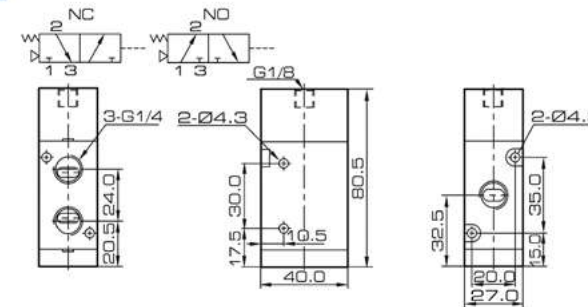
Overall Dimension



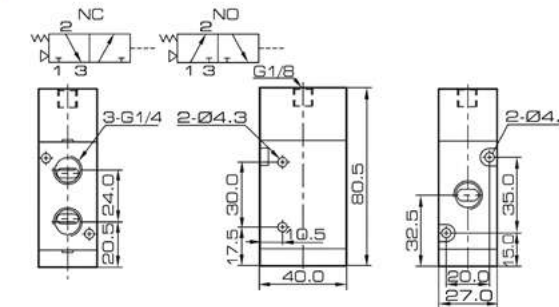
Overall Dimension



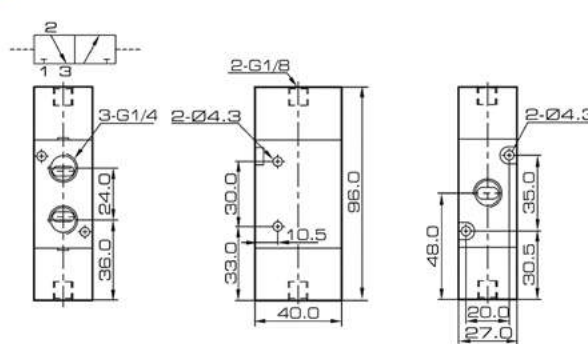
3A310-08



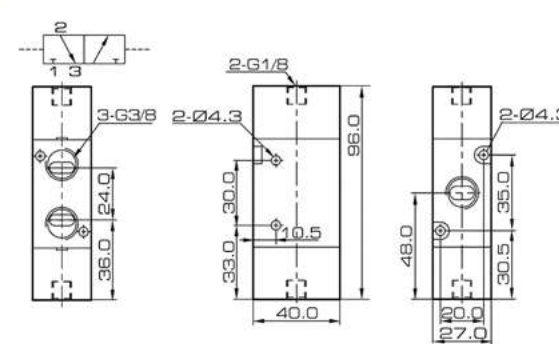
3A310-10



3A320-08

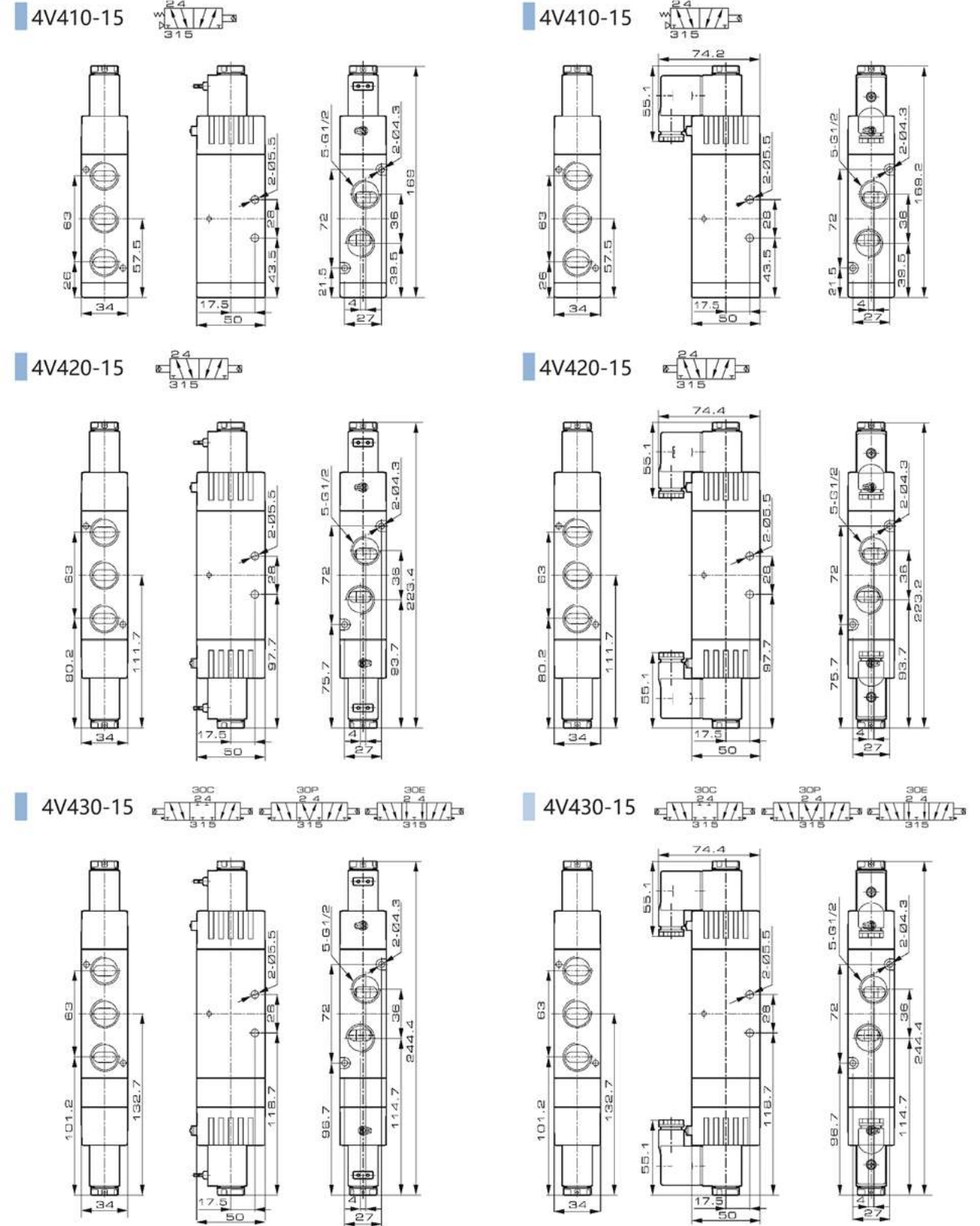


3A320-10





Overall Dimension



Ordering Code

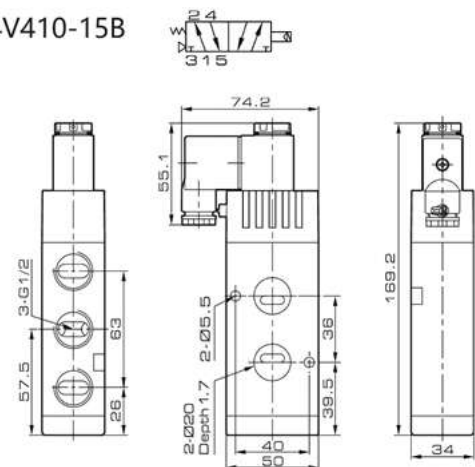
4V	4	10	15	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection and Initial Status	Standard Voltage	Wiring	Joint
4V: 5/2 (3) way solenoid valve	4: 400 Series	10: Single coil	15: 1/2"	Blank: Threaded	DC12V DC24V	Blank: Without light terminal	1F-20F
4A: 5/2 (3) way air pilot valve		20: Double coil		B: Sub-plated mounted (for 5/2, 5/3 way only)	AC24V 50Hz/60Hz	W: Lead wire	
3V: 3/2 way solenoid valve		30C: Mid-position closed		NC: 3/2 way normal close	AC110V 50Hz/60Hz		
3A: 3/2 way air pilot valve		30E: Mid-position exhausted		NO: 3/2 way normal open	AC220V 50Hz/60Hz		
		30P: Mid-position pressed					

Specification

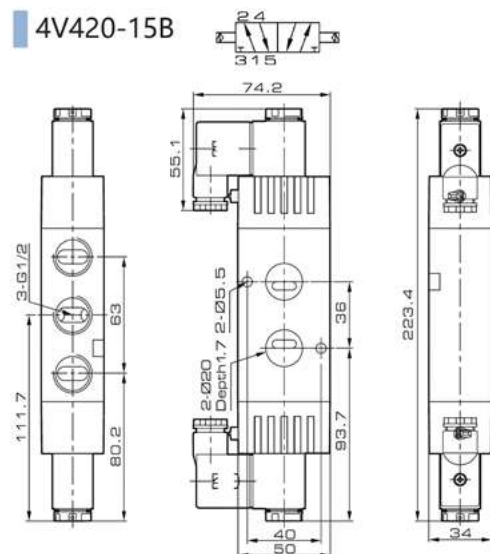
Model	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
Valve Type	5/2 Way			5/3 Way	
Effective Cross Section Area	50 mm ² (CV=2.79)			30 mm ² (CV=1.68)	
Model	3V410-15	3V420-15	3A410-15	3A420-15	
Valve Type	3/2 Way				
Effective Cross Section Area	50mm ² (CV=2.79)				
Port Size	Inlet, Outlet, Exhaust Port = G1/2"				
Working Medium	40 Micron Filtered Air				
Operation	Internal piloted				
Working-pressure	0.15 ~ 0.8 MPa				
Max. Test Pressure	1.2 MPa				
Ambient Temperature	-20 ~ 70°C				
Operating Voltage Tolerance	±10%				
Power Consumption	AC: 3.5VA DC: 3.0W				
Connector Protection	F Class, IP 65				
Wiring / Connector	Cable / Lead Wire or DIN Connector				
Switching Frequency	5 Cycles / Sec.				
Response Time	0.05 Sec.				

Overall Dimension

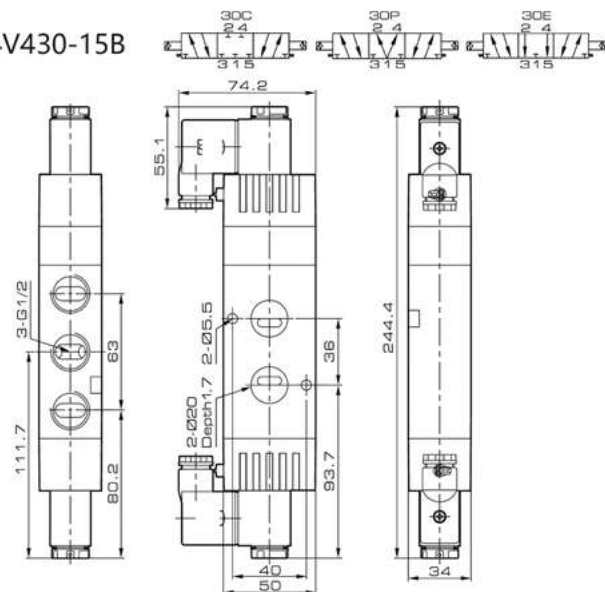
4V410-15B



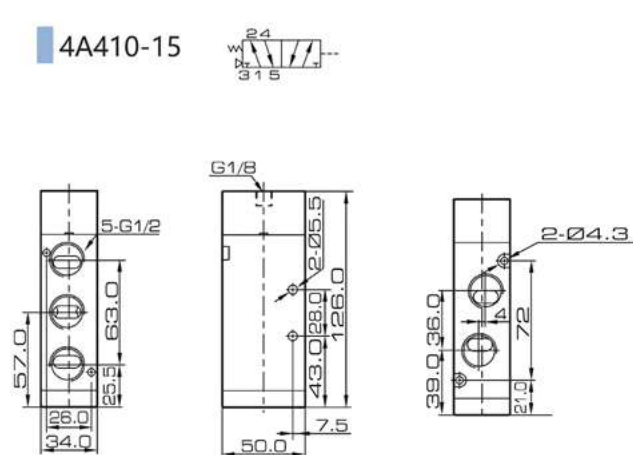
4V420-15B



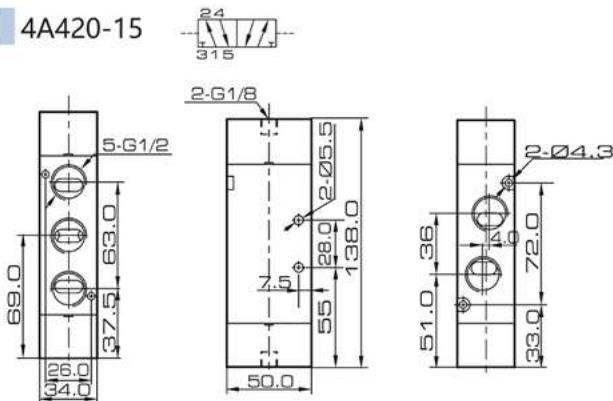
4V430-15B



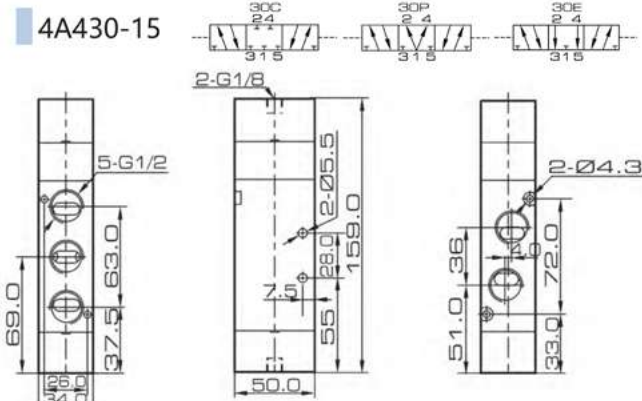
4A410-15



4A420-15

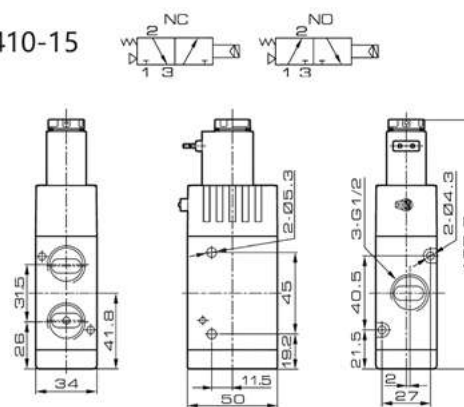


4A430-15

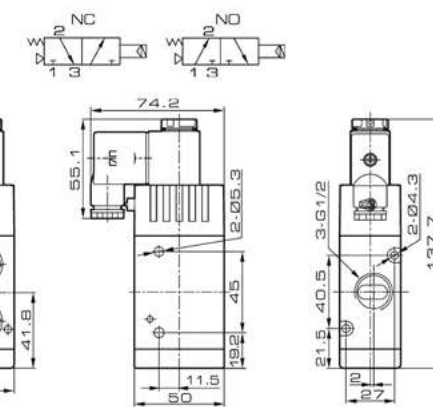


Overall Dimension

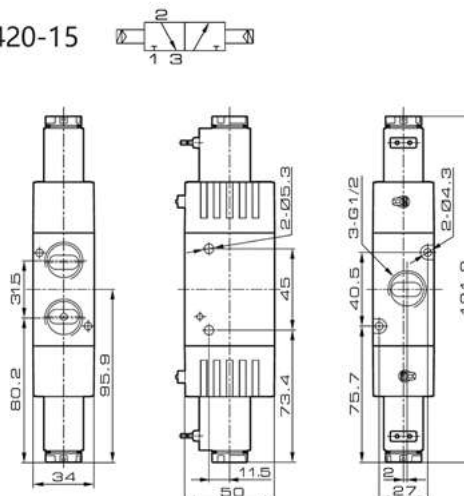
3V410-15



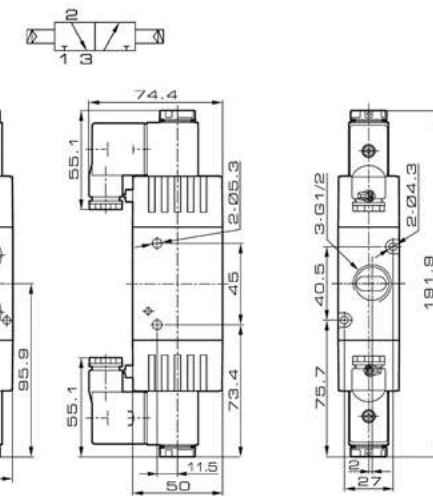
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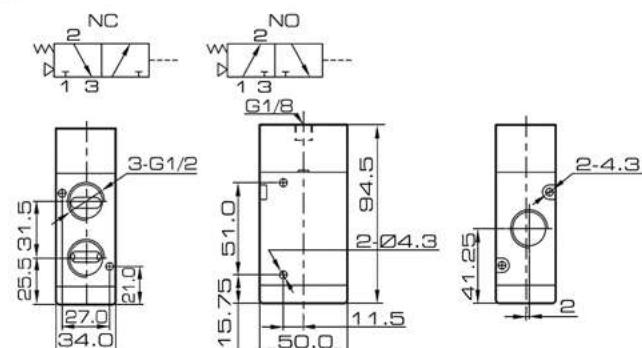
3V420-15



3V420-15



3A410-15



3A420-15

