

Solenoid valve (5/2 way)

4M(NAMUR) Series



Symbol



Product feature

- 1、Internally piloted structure;
- 2、Structure in sliding column mode: good tightness and sensitive reaction;
- 3、Double control solenoid valves have memory function;
- 4、Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life;
- 5、No need to add oil for lubrication;
- 6、Install in the side plate with the surface upward, which can be used by directly connecting with the actuators;
- 7、Affiliated manual devices are equipped to facilitate installation and debugging;
- 8、Several standard voltage grades are optional;

Flow chart

Please refer to the same types of 4V series solenoid valves.

Specification

Model	4M110-M5	4M110-06	4M210-06	4M210-08	4M310-08	4M310-10
Fluid	Air (to be filtered by 40um filter element)					
Acting	Internal piloted					
Port size ①	In=Exhaust=M5	In=Exhaust=1/8"	In=Exhaust=1/8"	In=1/4" Exhaust=1/8"	In=Exhaust=1/4"	In=3/8" Exhaust=1/4"
Orifice size	5.5mm ² (Cv=0.31)	12.0mm ² (Cv=0.67)	14.0mm ² (Cv=0.78)	16.0mm ² (Cv=0.89)	25.0mm ² (Cv=1.40)	30.0mm ² (Cv=1.68)
Valve type	5 port 2 position					
Operating pressure	0.15~0.8MPa(21~114Psi)					
Proof pressure	1.5MPa(215Psi)					
Temperature ℃	-20~70					
Material of body	Aluminum alloy					
Lubrication ②	Not required					
Max. frequency ③	5 cycle / sec				4 cycle / sec	
Weight g	4M110:120; 4M120:175		4M210:220; 4M220:320		4M310:310; 4M320:400	

① G thread and PT thread are available;

② It can not stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended.

③ The maximum actuation frequency is in the no-load state.

Coil specification

Item/Model	4M110, 4M120	4M210, 4M220, 4M310, 4M320
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V	
Scope of voltage	AC: ±15% DC: ±10%	
Power consumption	AC: 2.5VA DC : 2.5W	AC: 3.5VA DC : 3.0W
Protection	IP65 (DIN40050)	
Temperature classification	B Class	
Electrical entry	Terminal, Grommet	
Activating time	0.05 sec and below	

Ordering code

4M	3	10	10	A		G	AM
Model	Code	Port size	Voltage	Thread type	Electrical entry	Coil type	
4M: Solenoid valve (5/2 way NAMUR type)	1: 100 Series 2: 200 Series 3: 300 Series	M5: M5 06: 1/8" 08: 1/4" 10: 3/8"	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V	G: G P: PT	Blank: Terminal I: Grommet	Blank: Own production coil AM: Amisco coil	

① When the thread is M5 type, the code is blank.

Inner structure

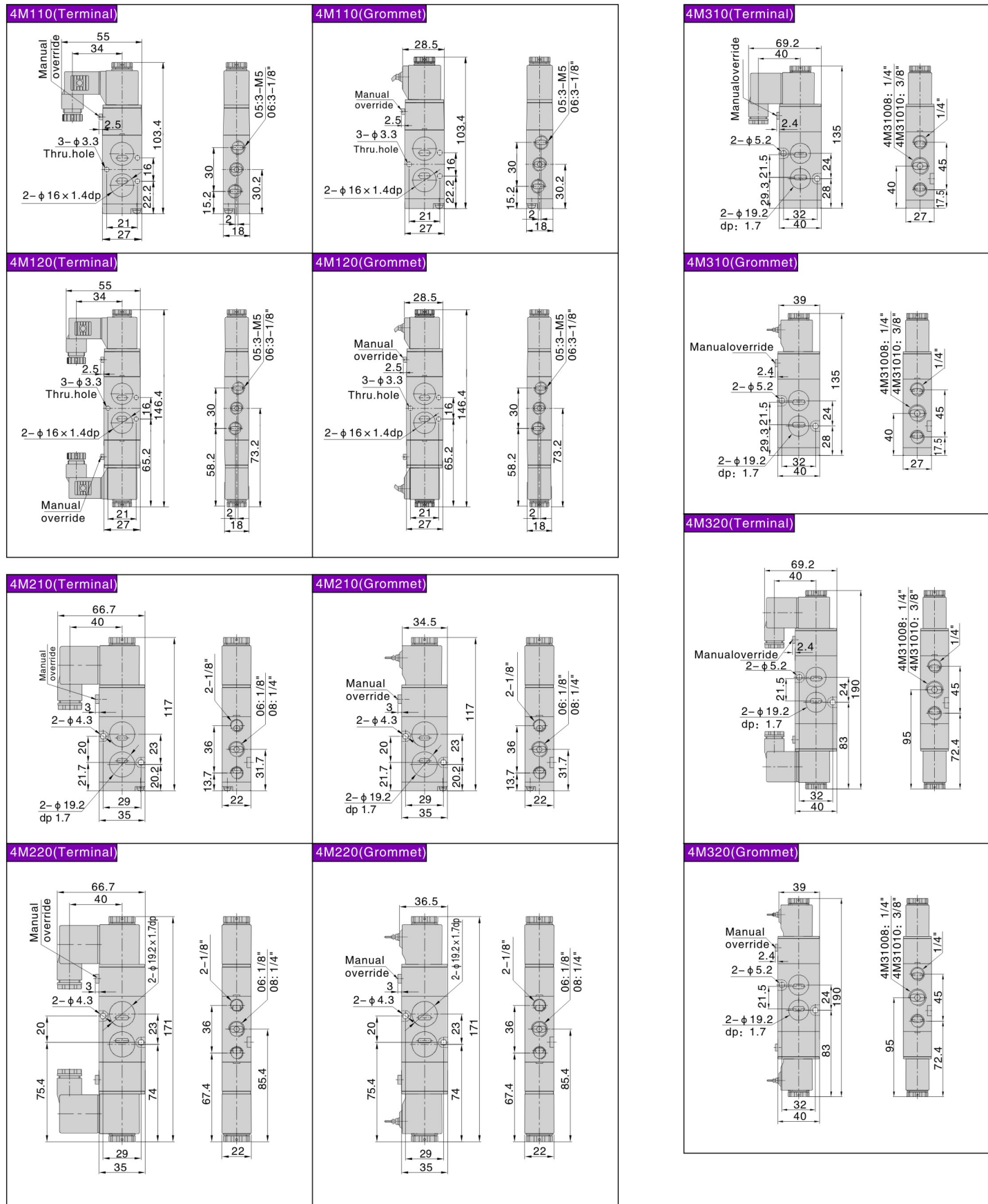
Single solenoid		NO.	Item	NO.	Item
		1	Connector	10	Bottom cover
		2	Coil nut	11	Fixed screw
		3	Coil	12	Spool spring
		4	Armature	13	Bottom cover gasket
		5	Fixed plate	14	Spool O-ring
		6	Piston	15	Spool
		7	Pilot kit	16	Piston O-ring
		8	Body	17	Override spring
		9	Wearing ring	18	Manual override
Double solenoid					



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■ Dimensions



4M