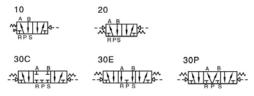
M4A 200 Series In-line Valves

The M4A-Series In-line 5/2 and 5/3 Air actuated valves provide an extensive range of flow options at low prices. The range may be used Lubrication free and be Manifold Mounted for multi-task applications. The Solenoid versions feature interchangeable coils and push/twist—lock Manual Overrides. As well as Pressure Held and Pressure Release 5/3 versions, the range also includes a Pressure Applied spool option.



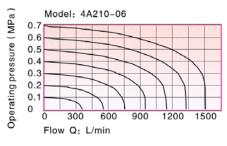
Symbols

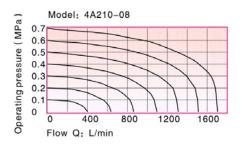


Product Features

- 1. Air pilot operated valve series.
- 2. Spool type, with low leakage and low friction action.
- 3. 5/3 valves have a choice of three centre functions.
- 4. 5/2 double air valves have position memory using seal friction to retain the spool position.
- Special manufacturing techniques ensure low start pressure and long service life.
- 6. Maybe used lubrication free.
- 7. The valve range may be manifold mounted for space saving and to reduce installation costs.

Flow Charts



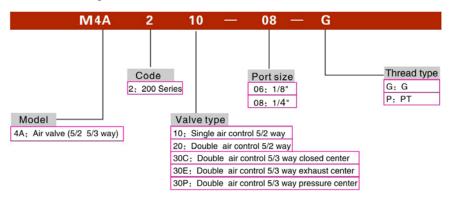


Specification

Model	4A210-06 4A220-06	4A230C-06 4A230E-06 4A230P-06	4A210-08 4A220-08	4A230C-08 4A230E-08 4A230P-08	
Fluid		Air(to be filtered by	40um filter element)		
Acting		Exterio	r control		
Port size ①	In=Out=Exhaust=1/8"		In=Out =1/4" Exhaust=1/8"		
Orifice size	14.0mm² (Cv=0.78)	12.0mm² (Cv=0.67)	16.0mm ² (Cv=0.89)	12.0mm² (Cv=0.67)	
Valve type	5 port 2 position	5 port 3 position	5 port 2 position	5 port 3 position	
Operating pressure		0.15~0.8MP	a(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	3 cycle/sec	5 cycle/sec	3 cycle/sec	
Weight	4A210-06:185g 4A220-06:285g	365g	4A210-08:185g 4A220-08:285g	365g	

- 1. G (BSP) threads are standard (NPT threads are available as an option on request)
- 2. If lubrication is preferred, lubricants similar to ISO VG32 or equivalent are recommended.
- The maximum actuation frequency is for the valve only (no load condition).

Model/Ordering Codes



Refer to In-line Valve Manifold section for mounting options

OCT11/RW/A

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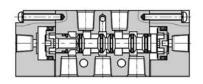


M4A 200 Series In-line Valves

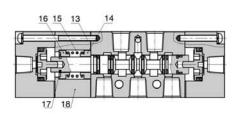
Inner structure

4A210 4 5 6 7 8 9 10 11 12 3 2

4A220

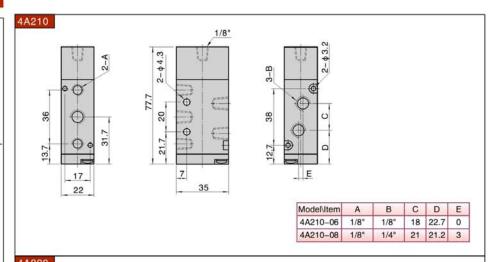


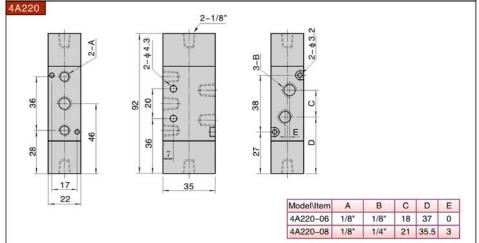
4A230C

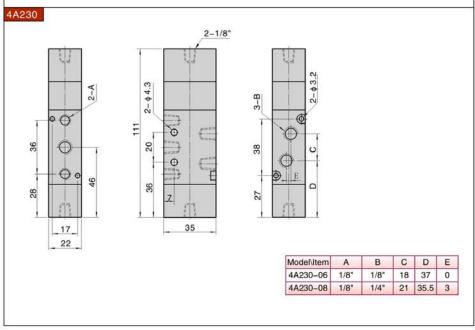


NO.	Item	NO.	Item
1	Bottom cover screw	10	Pilot body
2	Spool spring	11	Piston O-ring
3	Bottom cover	12	Pilot screw
4	Bottom cover gasket	13	Pilot screw
5	Body	14	Return seat
6	Spool O-ring	15	Return spring
7	Spool	16	Return seat
8	Wear ring	17	E clip
9	Piston	18	Side cover

Dimensions







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