

The MAC 24 series is a compact - high flow - 10mm - solenoid pilot operated 4-way spool valve. The valve offers high flow not common for a valve of its size. The valve utilises our new 8mm E-pilot with oval armature for maximised shifting forces in a small package size. The balanced design in the pilot means shifting forces are consistently high and response times are repeatable regardless of inlet pressure fluctuations. For more information regarding certifications (such as UL, CSA, RoHS and CE) please ask our team at Mac Valves Pacific.

**Stock Part Number:** 24A-A1-B00-EM2-RDCA-1BA

Function	Port size	Flow (Max) / (Cv/NI/min)	Pressure Range	Individual Mounting
5/2, 5/3	M5	04 / 400 Cv	2pos. int. pilot: sgle. sol.: 30 to 120 dble sol.: 20 to 120	Inline

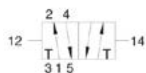
### OPERATIONAL BENEFITS

- 10mm valve – solenoid pilot operated.
- Balanced spool, immune to variations of pressure.
- Bonded spool with minimal friction.
- Wiping effect, eliminates sticking.
- Pilot valve with balanced poppet, high flow, short and consistent response times.

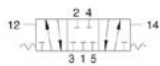


24 SERIES

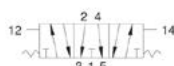
5/2 Single/Double Solenoid



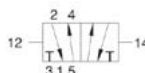
5/3 Closed Center



5/3 Open Center



5/2 Single/Double Solenoid



5/3 Pressure Center



### 24 SERIES INLINE

24A - X X - B00 - EXX - R XX X - X XX  
 1 2 3 4 5 6 7

#### 1 - Solenoid

Single Pressure

- A 5/2 Single Solenoid
- B 5/2 Double Solenoid
- E 5/3 Closed Centre
- F 5/3 Open Centre

Dual Pressure (internal pilot only)

- C 5/2 Single Solenoid
- D 5/2 Double Solenoid
- G 5/3 Pressure Centre

#### 2 - Pilot Air

Single Pressure

- 1 Internal
- 4 External

Dual Pressure (internal pilot only)

- 2 Internal from port #3
- 3 Internal from port #5

### SOLENOID OPERATOR

EXX - R XX X - X XX  
 3 4 5 6 7

#### 3 - Pilot Type

- M2 Muffled exhaust

#### 4 - Voltage

- DC 24VDC (1.8W)
- DF 24VDC (4.0W)
- DJ 12VDC (1.8W)
- DM 12VDC (4.0W)

#### 5 - Lead Wire Length

- 0\* No lead wire
- A 18" / 45 cm

\* Not available for flying lead connectors

#### 6 - Manual Operator

- 0 No manual operator
- 1 Recessed non locking
- 3 Extended non locking

#### 7 - Electrical Connector

- BA Flying leads
- BB Flying leads w/ LED

#### Options

**24A-XX-B X 0-EXX-RXX X-X XX**

- 1 Individual base – Side ports
- 2 Individual base – Bottom ports (no side ports)

Note: For pilot exhaust out main exhaust mod. 0353 is required

Note: Circuit Bar options available, contact MVP for details

## 24 SERIES - REGULATOR

PR24A -  $\begin{matrix} X & XX & X \\ T & T & T \\ 1 & 2 & 3 \end{matrix}$

### 1 - Sandwich Regulator (With Gauge Port)

- A Plug-In
- B Non Plug-In

### 2 - Pilot Air

Single Pressure (12" End)	Dual Pressure (Both Ends)
AA Internal	CA Internal
BA External	DA External

### 3 - Pressure Range

- A 0 to 120 PSI / 8 bar
- B 0 to 80 PSI / 5,3 bar
- C 0 to 40 PSI / 2,7 bar

### Spare parts

Gauge Kit No coupling: N-42004-01

With short coupling: N-42004-02 (required with double solenoid valve)

With long coupling: N-42004-03 (required with double solenoid valve)

Sandwich flow control Plug-in with flow control on same end: FC24A-AB

Non plug-in with flow control on same end: FC24A-BB

Non plug-in with flow control on each end: FC24A-CA

### Notes:

- External pilot regulator required only when supply pressure (primary) to the valve is below the minimum operating pressure of the 24 series valve.
- When an internal pilot regulator is used with the 24 series valve, the valve should be ordered as external pilot. This ensures that the pilot supply is not regulated. If an internal pilot valve is used with an internal pilot regulator, the pilot supply is regulated.

