

The MAC 400 series is a 4-way spool valve pilot operated by a small direct operated 4-way solenoid valve - a one-off in air valve manufacturing. The 4-way pilot means a low minimum operating pressure - no pistons - and minimal resistance to shifting. The balanced design in the pilot means shifting forces are constantly 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.

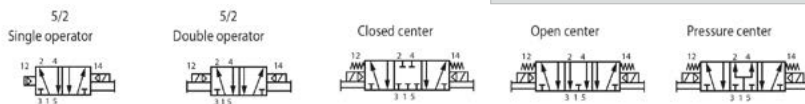
Stock Part Number: 411A-D0A-DM-DDAJ-1JD

Function	Port size	Flow (Max)	Pressure Range	Individual Mounting
5/2, 5/3	1/8"-1/4"	1.0 Cv	Int. 2 pos.: 20-120PSI (w/mem. spring: 30-120PSI) 3 pos.: 35-120PSI, Ext.: vac. to 120PSI	Inline



OPERATIONAL BENEFITS

- Balanced poppet, immune to variations of pressure.
- Short stroke with high flow.
- The patented solenoid develops high shifting forces.
- Powerful return spring.
- Manual operator standard on all valves.
- Burn-out proof solenoid on AC service.



400 SERIES

4 X X A - X X X - XX - D XX X - X XX
1 2 3 4 5 6 7 8 9 10

1 - Spool Type - Valve Function

- | | |
|---|-----------------------------|
| 0 Base only | 1 Single op., sgl. pressure |
| 2 Double op., sgl. pressure | 3 Single op., dual pressure |
| 4 Double operator, dual pressure | 5 3-Position closed center |
| 6 3-Position open center | |
| 7 3-Position single pressure, pressure center | |
| 8 3-Position dual pressure, pressure center | |

2 - Body Type

- | | |
|-------------------------------|------------------------------|
| 0 Base only | 1 Inline 5-port |
| 3 Manifold body | 4 Inline 5-port w/mem.spring |
| 6 Manifold body w/mem. spring | |

3 - Port Size And Thread Type

- | | |
|-----------------|--------------|
| 0 Manifold body | C 1/8" BSPPL |
| D 1/4" BSPPL | |

4 - Body/Base Type

- | | |
|--|-----------------------|
| 0 Inline or manifold body | A Base standard ports |
| B Base standard ports with flow controls | |

5 - Internal/External Pilot

- | | |
|---------------------------------------|-----------------------------------|
| A Internal pilot | B External pilot (inline body) |
| C Internal pilot (dual pressure only) | D Common ext. pilot (circuit bar) |

6 - Pilot Type

- | | |
|--------------------|------------------|
| DM Muffled Exhaust | DP Piped Exhaust |
|--------------------|------------------|

400 SERIES: DM PILOT OPTIONS

DM - D XX X - X XX
7 8 9 10

7 - Voltage (Other Options Available)

- | | |
|---------------------------------|----------------------------------|
| JA 120/60, 110/50 | JF 240/50 |
| JC 24/60, 24/50 | DA 24 VDC (54W) |
| DB 12 VDC (54W) | DC 12VDC (7.5W) |
| DD 24VDC (7.3W) | DE 12VDC (12.7W) (MOD CLSF ONLY) |
| DF 24VDC (12.7W)(MOD CLSF ONLY) | |
| FE 12VDC (24W) | FF 24VDC (24W) |

8 - Lead Wire Length

- | | |
|------------------|------------------------------|
| A 18" Coil leads | J External plug-in connector |
|------------------|------------------------------|

9 - Manual Operator

- | | |
|-----------------------------|-------------------------------|
| 0 No operator | 1 Non-locking manual operator |
| 2 Locking manual operator | 3 Non-locking ext. operator |
| 4 Locking extended operator | |

10 - Electrical Connector

- | | |
|-------------------------------|-------------------------|
| BA Grommet | JB Rectangular plug |
| JD Rectangular plug w/ light | JM Rectangular male |
| KA Mini plug-in | KD Mini plug with light |
| KK Mini plug-in male w/diode | |
| KL Mini plug-in male w/M.O.V. | |

Pilot Valves - Bodies and Assemblies

- | | |
|----------------|--|
| DMB-A1 | 4 Way Pilot Body (Muffled Exhaust) |
| DPB-A1 | 4 Way Pilot Body (Piped Exhaust) |
| DUB-A1 | 4 Way Pilot Body (Pilot Exhaust to Main Exhaust) |
| DMB-DXXX-XXX-1 | Complete Pilot Valve |
| DPB-DXXX-XXX-1 | Complete Pilot Valve |
| DUB-DXXX-XXX-1 | Complete Pilot Valve |
| DXXX-XXX 1 | Solenoid and Cover Assembly |
| DMB-RA11 | Complete Remote Air Pilot Valve (4 Way) |

400 SERIES REMOTE AIR

4 X X A - X X X - RA
T T T T T
1 2 3 4 5

1 - Spool Type

- 1* Single Operator, Single Pressure
- 2 Double Operator, Single Pressure
- 4 Double Operator, Dual Pressure
- 5 3 Position Closed Center
- 6 3 Position Open Center
- 7 3 Position Single Pressure, Pressure Center
- 8 3 Position Dual Pressure, Pressure Center

2 - Body Type

- 1 Inline 5 Port
- 3 Manifold Body

3 - Port Size And Thread Type

- 0 Manifold Body
- C 1/8" BSPPL
- D 1/4" BSPPL

4 - Configuration

- 0 Inline or Manifold Body
- A Base Standard Ports
- B Base Standard Ports w/ Flow Controls

5 - Pilot Port

- J Pilot Port Size M5 (Metric)

6 - Style

- RA Remote Air

* - Note: For Single Operator Valves, Use MOD 1493



SMALL
3-WAY



LARGE
3-WAY



SMALL
4-WAY



LARGE
4-WAY



ISO
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PPC
VALVES



PULSE
VALVES



BULLET
VALVES