

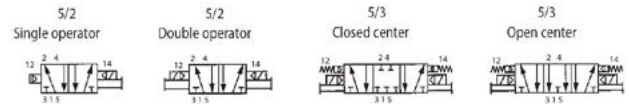
The MAC 92 series is a 4-way spool valve pilot operated by a small direct operated 4-way solenoid valve - a one-off in air valve manufacturing. The 4-way pilot means a low minimum operating pressure - no pistons - and minimal resistance to shifting. The balanced design in the pilot means shifting forces are 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:** 92B-ABA-000-DM-DJCJ-2JD

Function	Port size	Flow (Max)	Pressure Range	Individual Mounting
4/2, 4/3	1/8"-3/8"	1.2 Cv	Int.: 20-120PSI, 3 pos.: 35-120PSI Ext.: vac. to 120PSI, 3 pos.: 35-120PSI	Sub Base 'Plug-In'/ 'Non Plug-In'

### OPERATIONAL BENEFITS

- The 4-way pilot develops maximum shifting forces both ways.
- Memory spring available.
- Balanced spool, immune to variations of pressure, also provides high flow.
- Short stroke with high flow.
- Bonded seal spool with minimum friction, shifting in a glass-like finished bore.
- Pilot with balanced poppet, high flow; short and consistent response times.



### 92 SERIES VALVE & BASE OPTIONS

92B - X X X - X X X - XX - D XX X - X XX  
 1 2 3 4 5 6 7 8 9 10 11

#### 1 - Spool Type - Valve Function

- 0 Base Only
- A Single Solenoid - Single Pressure
- B Double Solenoid - Single Pressure
- C Single Solenoid - Dual Pressure
- D Double Solenoid - Dual Pressure
- E Double Solenoid - 3 Position Closed Centre
- F Double Solenoid - 3 Position Open Centre
- G Double Solenoid - 3 Position Pressure Centre
- H Double Sol. - 3 Position Dual Pres., Pres. Centre
- J Double Sol. - 3 Position Dual Pres., Closed Centre
- K Double Solenoid - 3 Position Open Centre
- L Single Solenoid - Single Pressure w/Memory Spring
- N Single Solenoid - Dual Pressure w/Memory Spring

#### 2 - Plug-In/Non Plug-In - Pilot Exhaust

- 0 Base Only
- A Plug-In Standard Exhaust
- B Non Plug-In Standard Exhaust
- C Plug-In w/Pilot Exst. to Main Exst. (DU Pilot Only)
- D Non Plug-In w/Pilot Exst. to Main Exst. (DU Pilot Only)

#### 3 - Body Options

- 0 Base Only
- A No Light in Top
- B Light in Top
 

110V AC	220/240V AC	24V AC
12VDC	24VDC	

#### 4 - Port Size And Thread Type

- 0 Basic Valve Only
- D 1/8" BSPPL
- E 1/4" BSPPL
- F 3/8" BSPPL

#### 5 - Base/Manifold Configurations

- 0 Basic Valve Only
- A Side Ports (Individual Base)
- B Bottom Ports Only (1/8" only) (Individual Base)
- C Side & Bottom Ports (1/8" only) (Individual Base)
- D Side Inlet & Exhaust, Bottom Cylinder Ports (1/8" only) (Individual Base)
- J Side Cyl. Ports (Manifold Base)

#### 6 - Internal/External Pilot - Base Light Options

- 0 Basic Valve Only
- A Internal Pilot - No Light In Base
- B Internal Pilot - Single Light In Base
 

110 Volt	240 Volt	24 Volt
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- C Internal Pilot - Double Light In Base
 

110 Volt	240 Volt	24 Volt
----------	----------	---------
- D External Pilot - No Light In Base
- E External Pilot - Single Light In Base
 

110 Volt	240 Volt	24 Volt
----------	----------	---------
- F External Pilot Double Light In Base
 

120 Volt	240 Volt	24 Volt
----------	----------	---------
- G Non Plug-In Internal Pilot
- H Non Plug-In External Pilot

#### 7 - Pilot Body Exhaust Options

- DM Pilot Valve w/muffled exhaust
- DP Pilot Valve w/piped exhaust
- DU Pilot Valve; pilot exhaust out main exhaust



## 92 SERIES VALVE & BASE OPTIONS

92B -  $\begin{matrix} X & X & X \\ \text{T} & \text{T} & \text{T} \end{matrix}$  -  $\begin{matrix} X & X & X \\ \text{T} & \text{T} & \text{T} \end{matrix}$  -  $\begin{matrix} XX \\ \text{T} \end{matrix}$  - D  $\begin{matrix} XX & X \\ \text{T} & \text{T} \end{matrix}$  -  $\begin{matrix} X & X \\ \text{T} & \text{T} \end{matrix}$

1 2 3 4 5 6 7 8 9 10 11

### 8 - Voltage

JA*	120/60, 110/50	JC	24/60, 24/50
JF*	240/50	DA	24 VDC (54W)
DB	12 VDC (54W)	FA	12 VDC (1.8W)
FB	24 VDC (1.8W)	FE	12 VDC (24w)
FF	24 VDC (24W)		

\* Must use electrical connection with ground wire

### 9 - Lead Wire Length

P	Plug-in 8" Standard
1	18" Base Leads
0	No Wires
A	18" Coil Leads
J	External Plug-In Lead

### 10 - Manual Operator

0	No Operator
1	Non-Locking Manual Operator
2	Locking Manual Operator
3	Non-Locking Extended Manual Operator
4	Locking Extended Manual Operator

### 11 - Electrical Connector

DG	Plug-In w/Ground	DH	Plug-In w/Diode & Ground
DJ	Plug-In w/M.O.V. & Ground	DM	Plug-In
DN	Plug-In w/Diode	BA	Grommet - Flying Lead
BK	Grommet w/Diode		
JB	Rectangular Plug-In - No Light	JD	Rectangular Plug-In w/Light
JM	Rectangular Male Only	KA	Mini Plug-In
KB	Mini Plug-In w/Diode	KC	Mini Plug-In w/M.O.V.
KD	Mini Plug-In w/Light	KE	Mini Plug-In w/Light & Diode
KF	Mini Plug-In w/Light & M.O.V.		
KG	Mini Plug-In w/LED Light & Diode		

## OPTIONAL ACCESSORIES

### Flow Control Module

FC92B-AA	Plug-in Flow Control Assembly - Single Sol.
FC92B-BA	Plug-in Flow Control Assembly - Double Sol.
FC92B-CA	Non Plug-in Flow Control Assembly

### Modifications

416G	2 1/2 Ft. Prewired Cord (For Mini Connector)
416K	6 Ft Prewired Cord (For Mini Connector)
416L	10 Ft Prewired Cord (For Mini Connector)

### 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-XXX1	Complete Pilot Valve (4-Way)
DPB-DXXX-XXX1	Complete Pilot Valve (4-Way)
DUB-DXXX-XXX1	Complete Pilot Valve (4-Way)
DMB-RA11	Complete Remote Air Pilot Valve (4-Way)
RDM001-01	Remote Air Operator (used w/ 4-Way Body)

### Manifold Accesories

M-92004-01-01P	(BSPPL) Manifold End Plate Kit Internal Pilot
M-92004-02-01P	(BSPPL) Manifold End Plate Kit External Pilot
M-92002	Blank Station Cover Plate Kit
M-92002-01	Blank Station Cover Plate Kit Sgl Pressure Inlet to "B" Port
M-92002-02	Blank Station Cover Plate Kit Dual Pressure Inlet to "A" & "B" Ports
N-92018	Inlet and Exhaust Isolater Disc

Note: Low wattage available as complete valves only

## 92 SERIES - REGULATOR

PR92C -  $\begin{matrix} X & X & X & X & - & X \\ T & T & T & T & - & T \\ 1 & 2 & 3 & 4 & & 5 \end{matrix}$

### 1 - Adjustment Type

Manual adjust with slotted stem

- |                           |                           |
|---------------------------|---------------------------|
| A Plug-In Single Solenoid | B Plug-In Double Solenoid |
| C Non Plug-In             | D Regulator Only          |

Air pilot adjust (0-120 PSI only)

- |                           |                           |
|---------------------------|---------------------------|
| E Plug-In Single Solenoid | F Plug-In Double Solenoid |
| G Non Plug-In             | H Regulator Only          |

Manual adjust with locking knob

- |                           |                           |
|---------------------------|---------------------------|
| J Plug-In Single Solenoid | K Plug-In Double Solenoid |
| L Non Plug-In             | M Regulator Only          |

Manual adjust with locking slotted stem

- |                           |                           |
|---------------------------|---------------------------|
| N Plug-In Single Solenoid | P Plug-In Double Solenoid |
| R Non Plug-In             | S Regulator Only          |

### 2 - Configuration

- O Regulator Only
- A Regulator "A" End
- B Regulator "B" End
- C Regulator "A" End With By-Pass On "B" End
- D Regulator "B" End With By-Pass On "A" End
- E Regulators Both Ends
- P Select To "A" Port - Regulator "A" End With By-Pass On "B" End
- R Select To "B" Port - Regulator "B" End With By-Pass On "A" End
- S Select To "A" Port - Regulators Both Ends
- T Select To "B" Port - Regulators Both Ends

### 3 - Gauges

- A Gauge Port (Plugged)
- B Gauge With face Perp. To Manual Operator
- C Gauge With Face Parallel to Manual Operator

Note: Gauges ordered in regulator must be called out as separate line item at N/C

### 4 - Pressure Range

- A 0-120 PSI
- B 0-80 PSI
- C 0-30 PSI
- D 0-120 PSI On "A" End 0-80 PSI On "B" End
- E 0-120 PSI On "B" End 0-80 PSI On "A" End
- F 0-120 PSI On "A" End 0-30 PSI On "B" End
- G 0-120 PSI On "B" End 0-30 PSI On "A" End
- H 0-80 PSI On "A" End 0-30 PSI On "B" End
- J 0-80 PSI On "B" End 0-30 PSI On "A" End

### 5 - Assembly

- 9 Regulator Block Assembled To Valve

### Gauge assemblies

- |            |  |
|------------|--|
| N-92006-01 | (23mm Gauge w/90° Fitting) 0-160 PSI Perpendicular |
| 24177-160  | (23mm Gauge - No Fitting) 0-160 PSI Parallel       |
| N-92006-02 | (23mm Gauge w/90° Fitting) 0-100 PSI Perpendicular |
| 24177-100  | (23mm Gauge - No Fitting) 0-100 PSI Parallel       |
| N-92006-03 | (23mm Gauge w/90° Fitting) 0-60 PSI Perpendicular  |
| 24177-60   | (23mm Gauge - No Fitting) 0-60 PSI Parallel        |
| N-92004-01 | (15mm Gauge w/90° Fitting)                         |
| N-92004-02 | (15mm Gauge w/Straight Fitting)                    |
| 24165-150  | (15mm Gauge - No Fitting)                          |

## 92 SERIES - CIRCUIT BAR

CBM092B -  $\begin{matrix} XX & X & X & X & - & XX & - & XX & - & 9 \\ T & T & T & T & - & T & - & T & - & T \\ 1 & 2 & 3 & 4 & & 5 & & 6 & & \end{matrix}$  Valves and cover plates assembled to valve

### 1 - Spacing

- 01 25mm Spacing
- 03\* 30mm Spacing (required Spacing for Terminal Strip with or without Light)

### 2 - Configuration

- A Side Cylinder Port
- B Bottom Cylinder Ports

### 3 - Style

- A Standard Bar
- B Add-on Style Bar (Includes End Plate)
- C Add-a-Unit Station
  - 25mm-Single Station
  - 30mm-Single Station

### 4 - Port Size & Thread Type

- B 1/8" BSPPL
- E 1/4" BSPPL
- H 3/8" BSPPL

### 5 - Terminal Strip/Lights

- AA Standard w/Light (120 V)
- AB Standard w/Light (240 V)
- AD Standard w/Light (24 V)

### 6 - Stations

- Number of Stations (01, 02, 03, etc.)

### Accessories

- |             |  |
|-------------|--|
| M-92001-01P | Right Hand End Plate Kit                 |
| 28413       | Isolator Disc (Inlet/Exhaust)            |
| M-92002     | Blank Station Cover Plate                |
| M-92002-01  | Blank Station Cover Plate                |
|             | Single Pressure                          |
|             | Inlet to Cylinder B                      |
| M-92002-02  | Blank Station Cover Plate                |
|             | Dual Pressure                            |
|             | Inlet to Cylinder A, Inlet to Cylinder B |

