How to Order
93 Series MAConnect™

93 A - XXX - XXX - XX - D XX P - X XX

Valve Function
- 0 Base Only
- C Sgl. Oper. Dual Press.
- D Dbl. Oper. Dual Press.
- E 3 Pos. Closed Center
- F 3 Pos. Open Center
- H 3 Pos. Dual Press.
  w/ Memory Spring
  w/ Memory Spring
- R Sgl. Oper. Universal
- S Dbl. Oper. Universal

Body Type and Exhaust Options
- 0 Base Only
- A Plug-In Std. Exhaust
- * C Plug-In w/exh. to Main Exhaust
  * Must use “DU” Pilot Body

Body Electrical Options
- 0 Base Only
- A No Light in Top
- B w/ Light in Top

Port Size and Thread Type In. and Cyl.
- 0 Valve Only
- A 1/4 NPTF
- B 3/8 NPTF
- C 1/2 NPTF
- D 1/4 BSPPPL
- E 3/8 BSPPPL
- F 1/2 BSPPPL
- G 1/4 BSPTR
- H 3/8 BSPTR
- J 1/2 BSPTR

Manifold Base Configurations
- 0 Valve Only
- Internal Pilot Models
  - 1 Sgl. Sol. Plug-In to Left
  - 2 Dbl. Sol. Plug-In to Left
  - 3 Sgl. Sol. Plug-In to Right
  - 4 Dbl. Sol. Plug-In to Right
- External Pilot Models
  - 5 Sgl. Sol. Plug-In to Left
  - 6 Dbl. Sol. Plug-In to Left
  - 7 Sgl. Sol. Plug-In to Right
  - 8 Dbl. Sol. Plug-In to Right

Pilot Valve Options (see below)

Pilot Style
- DM Muffed Exhaust
- DP Piped Exhaust
- DU Universal Pilot

Pilot Exhaust out
Main Exhaust

Voltage
- JA 120/60,110/50 (2.9w)
- JB 240/60,220/50 (2.9w)
- JD 100/50,60/110/60 (3.9w)
- JE 220/60 (3.4w)
- JF 240/50 (2.8w)
- JG 200/60,200/50 (3.9w)
- DA 24 VDC (5.4w)
- FA 12 VDC (1.8w)
- FB 24 VDC (1.8w)
- FE 12 VDC (2.4w)
- FF 24 VDC (2.4w)

Manual Operator
- 0 No operator
- 1 Recessed Non-Locking Oper.
- 2 Recessed Locking Oper.
- 3 Extended Non-Locking Oper.
- 4 Extended Locking Oper.

Electrical Connection
- DM Plug-In
- DN Plug-In w/ Diode
- DP Plug-In w/ M.O.V.
- DG Plug-In w/ Ground
- DH Plug-In w/ Diode and Ground
- DJ Plug-In w/ M.O.V. and Ground

Note: For Negative Commons (NPN) Use Mod 1705 After Model Number

Note: For Solenoids 30 volts or above, a ground wire is required

Note: For Negative Commons (NPN) Use Mod 1705 After Model Number
93 MAConnect™

How to Order

Adapters / End Plate Kit

**MAConnect™ Adapter Assembly**

M-93012 - XX - X X

09 9 Pin Sub-D  
10 10 Pin  
15 15 Pin Sub-D  
16 16 Pin  
20 20 Pin  
24 24 Pin Amp CPC  
25 25 Pin Sub-D  
26 26 Pin  

1 Internal Pilot Left End  
2 External Pilot Left End  
3 Internal Pilot Right End  
4 External Pilot Right End

Leave Blank for NPTF Threads  
P BSPPL Threads  
T BSPTR Threads

Note: For washdown Sub-D connector use MOD 532M after model number.  
For negative commons, use MOD. 1705 after model number.

**MAConnect™ Fastening End Plate Kit**

M-93014 - XX - 01 X

01 Internal Pilot Left End  
02 External Pilot Left End  
03 Internal Pilot Right End  
04 External Pilot Right End

Leave Blank For NPTF Threads  
P BSPPL Threads  
T BSPTR Threads

Note: “01” should be used only when the Fastening End Plate Kit is ordered separately. When the kit is ordered with an assembly this number will change to indicate the number of valves in the stack.

Example of MAConnect™ Assembly

(1) M-93012-25-3  
(3) 93A-AAA-CK3-DM-DDAP-1DM  
(2) 93A-BAA-CK4-DM-DDAP-1DM  
(1) M-93014-01-05
How to Order SM16 for MAConnect™ Serial Manifold

SM16 - XX A - X X X - XX M - X X XX

Protocol
DN DeviceNet

Output Indicator Lights
0 Std (No Lights)

Power Connector
DeviceNet
A 3 Pin Micro

Bus Connector
DeviceNet
A 5 Pin Micro

Inputs
00 No Inputs

Location of MAConnect Adapter
0 No Adapter
1 Left End
2 Right End
Adapter has common inlet and exhaust ports

Thread Type
A Int. NPTF
B Ext. NPTF
C Int. BSPPL
D Ext. BSPPL
E Int. BSPT
F Ext. BSTPR

Valve Series Adapter
00 No Adapter
92 92 Series
82 82 Series
47 47 Series
42 42 Series
48 48 Series
32 32 Series
P1 MV-P1 Series
P2 MV-P2 Series
45 45 Series
38 38 Series
44 44 Series
93 93 Series

Revised 8/01
### How to Order SM32 for MAConnect™ Serial Manifold

**SM32 - XX A - X X X - X X M - X X XX -9**

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<td>DeviceNet</td>
<td>DeviceNet</td>
<td>A</td>
<td>No Inputs</td>
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<td>A Int. NPTF</td>
<td>00 No Adapter</td>
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<td>Profibus</td>
<td>B 5 Pin Mini</td>
<td>5 Pin Mini</td>
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<td>1 Input</td>
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<td>5 Pin Micro</td>
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<td>F Ext. BSTPR</td>
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<td>** N No Pilot Port</td>
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<td>8 on AS-I</td>
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<td>** 82 Series Only</td>
<td>93 93 Series</td>
</tr>
</tbody>
</table>

**Input Types**

- A No Inputs
- B NPN
- C PNP

**Location of MAConnect Adapter**

- 0 No Adapter
- 1 Left End
- 2 Right End

**Pilot and Thread Type**

- A Int. NPTF
- B Ext. NPTF
- C Int. BSPPL
- D Ext. BSPPL
- E Int. BSPTR
- F Ext. BSTPR

**Valve Series Adapter**

- 00 No Adapter
- 42 42 Series
- 47 47 Series
- 48 48 Series
- 82 82 Series
- 92 92 Series
- P1 MV-P1 Series
- P2 MV-P2 Series
- 45 45 Series
- 38 38 Series
- 44 44 Series
- 93 93 Series

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Revised 8/01
How to Order
Input and Output Modules

Remote Tethered Input Module
(For use with SM32 only)
N-SM005 - X X X X - XX

Inputs 1-4
B NPN
C PNP

Inputs 5-8
0 No Inputs
B NPN
C PNP

Inputs 9-12
0 No Inputs
B NPN
C PNP

Inputs 13-16
0 No Inputs
B NPN
C PNP

01 Positive Logic
02 Negative Logic

Remote Tethered Output Module
(For use with SM32 only)
N-SM006 - X X X X

A Outputs 1-4
0 No Outputs
A Outputs 5-8
A Outputs 9-12
A Outputs 13-16

A Outputs 1-4
0 No Outputs
A Outputs 5-8
A Outputs 9-12
A Outputs 13-16
93 SERIES MACONNECT WITH SM32

NOTE:
- ALL DIMENSIONS SHOWN
  ARE IN MILLIMETERS
- TOLERANCES ON DIMENSIONS ± 0.2