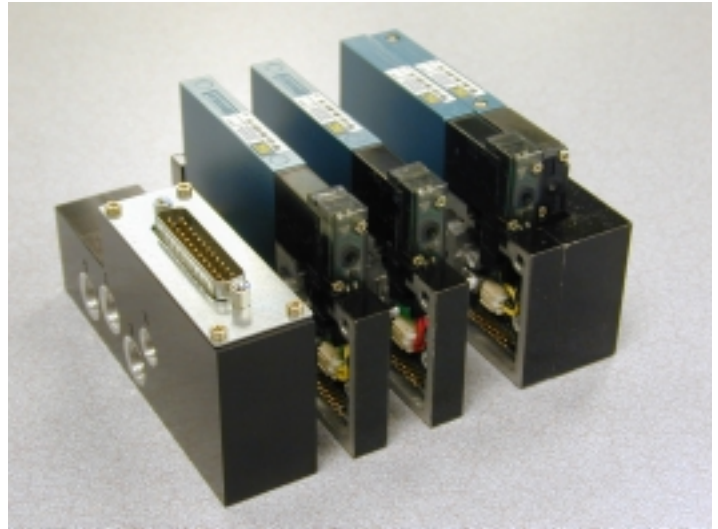
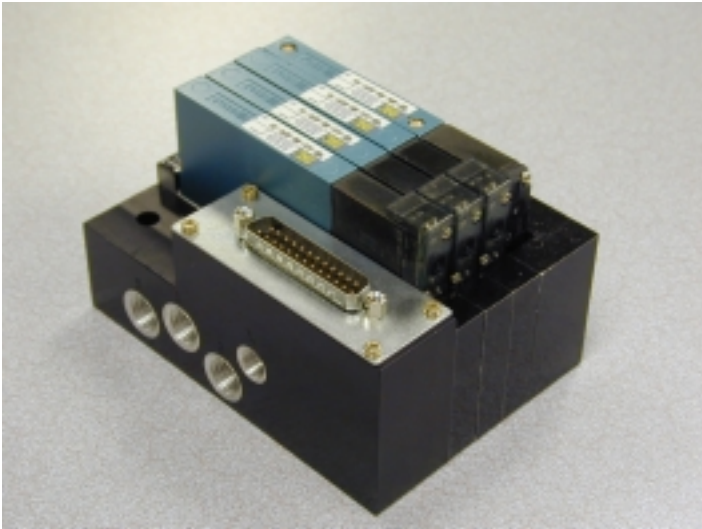
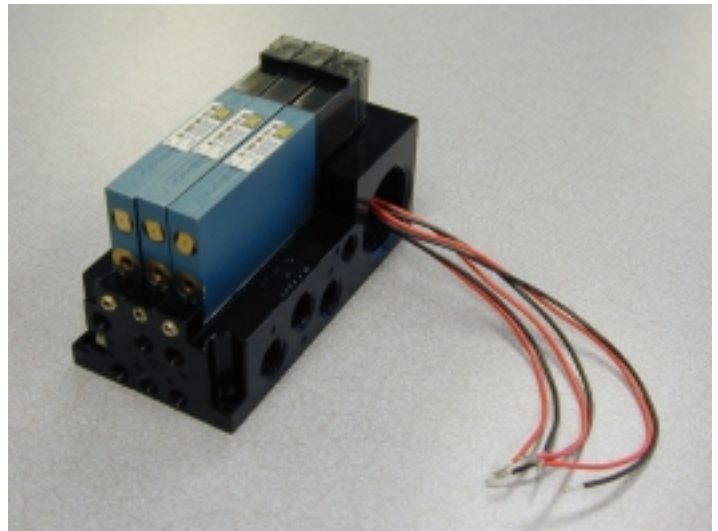
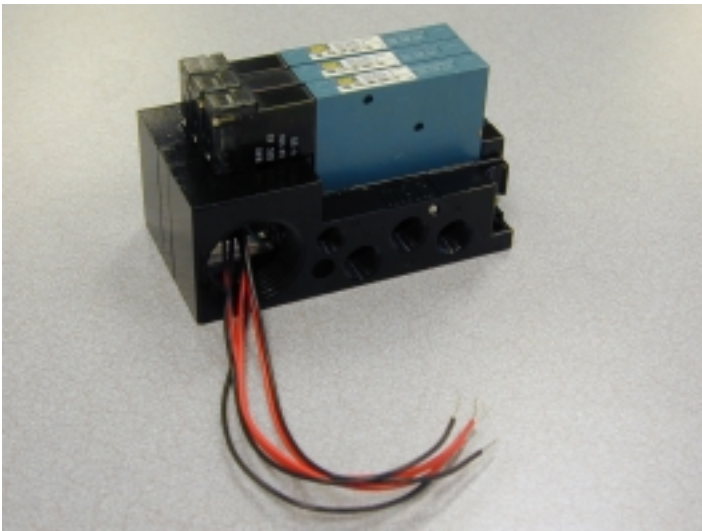


42 Series MAConnect™



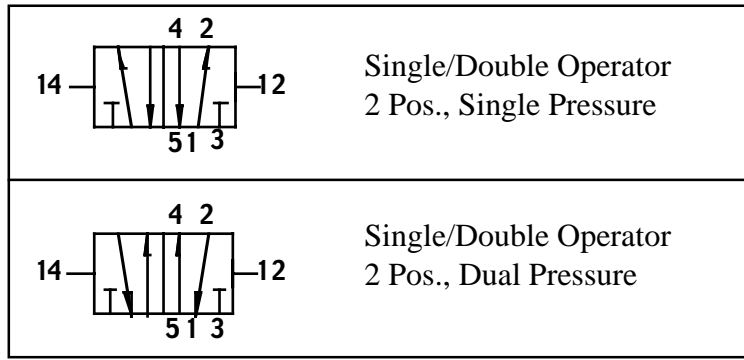
42 Series Plug-In Manifold



Specifications 42 Series Valve

Operating Data

Fluids: Air or Inert Gas
 Lubrication: Not Required. But if used, a medium aniline range oil is recommended.
 Safe Operating Temperature Range: 0° to 120°F (-18° to 50°C)
 Pressure Range: Vacuum to 120 PSI (Ext. pilot supply provided for vacuum and low pressure)
 20 PSI minimum operating pressure on internal pilot.
 Electrical: 12V and 24V: DC Voltage (1.0 to 4.0 Watts)
 Max. Coil Amperage - 250mA
 Max. Voltage - 48 VDC
 Dielectric Strength in Excess of 2000 Volts.
 Recommended Mating Sub-D Cable Specifications
 3 Amp Current Rating per Conductor
 300 Volt RMS, 105°C Insulation



Pressure Range (PSI)

Description		Main Valve	Pilot
Single	Internal Pilot Models	20-120	N/A
Double		20-120	N/A
Single	External Pilot Models	VAC 120	20-120
Double		VAC 120	20-120

FLOWS (Cv)

	M7 Side Ports 6mm or 1/4" T.R.	M7 Bottom Ports 6mm or 1/4" T.R.	10-32 / M5 Side Ports	10-32 / M5 Bottom Ports	5/32 T.R. Side Ports	5/32 T.R. Bottom Ports
Manifold Base	.35	.40	.30	.35	N/A	N/A

Note: Valve Function - 2 Position

T.R. = Tube Receptacle

Vacuum Applications

Use external pilot models only and connect the vacuum source to ports "3" and "5" and leave Port "1" open to atmosphere on single pressure models. On dual pressure models, reverse the single pressure piping.

Selector Applications (Without Regulators)

Connect the higher pressure to Port "1" and the lower pressure to either Port "3" or "5". If both pressures are below the minimum operating pressure, use an external pilot.

Internal Pilot

Utilized for main valve pressures equal to or greater than minimum pilot pressure requirements. Pilot supply is fed from the inlet to the pilot.

External Pilot

Required for all solenoid pilot operated models when main valve pressures are below 20 PSI on single solenoid and double solenoid 2 Position 4 Way pilots. The external pilot source is to be connected to the external pilot port in the valve base. External pilot when ordered on manifolds is common, therefore only one external pilot connection is required regardless of the number of valves ganged in a stack.

Specifications

SM16 Manifold

Outputs:

Number: 16 Channels / Solenoids on manifold

Voltage Current: 24 VDC at 0.225 per channel (6.0 Watts max.)

Inputs:

Not available at this time

Protocols:

DeviceNet

Current Consumption:

Outputs - 4 A Max.

Electronics - 200mA

Voltage Ranges:

Operating with single supply: 24VDC

Operating separate supply for valves : 24VDC

Safe Operating Temperature Range:

0-50° C (32-120°F)

10-90% RH (Non-condensing)

Operating Atmosphere:

No corrosive gases

Enclosure:

Designed to meet NEMA 4 and IP65

Specifications

SM32 Manifold

Outputs:

Number: 16 Channels / Solenoids on manifold
Voltage Current: 24 VDC at .225 per channel (6.0 Watts max.)

Inputs:

Number: 4
Type: 24 VDC NPN or PNP Logic

Protocols:

DeviceNet
Allen Bradley Remote I/O*
Profibus
Interbus-S

Current Consumption:

Outputs - 4 A Max.
Electronics and Inputs - 75mA

Voltage Ranges:

Operating with single supply: 24VDC
Operating separate supply for valves : 24VDC

Safe Operating Temperature Range:

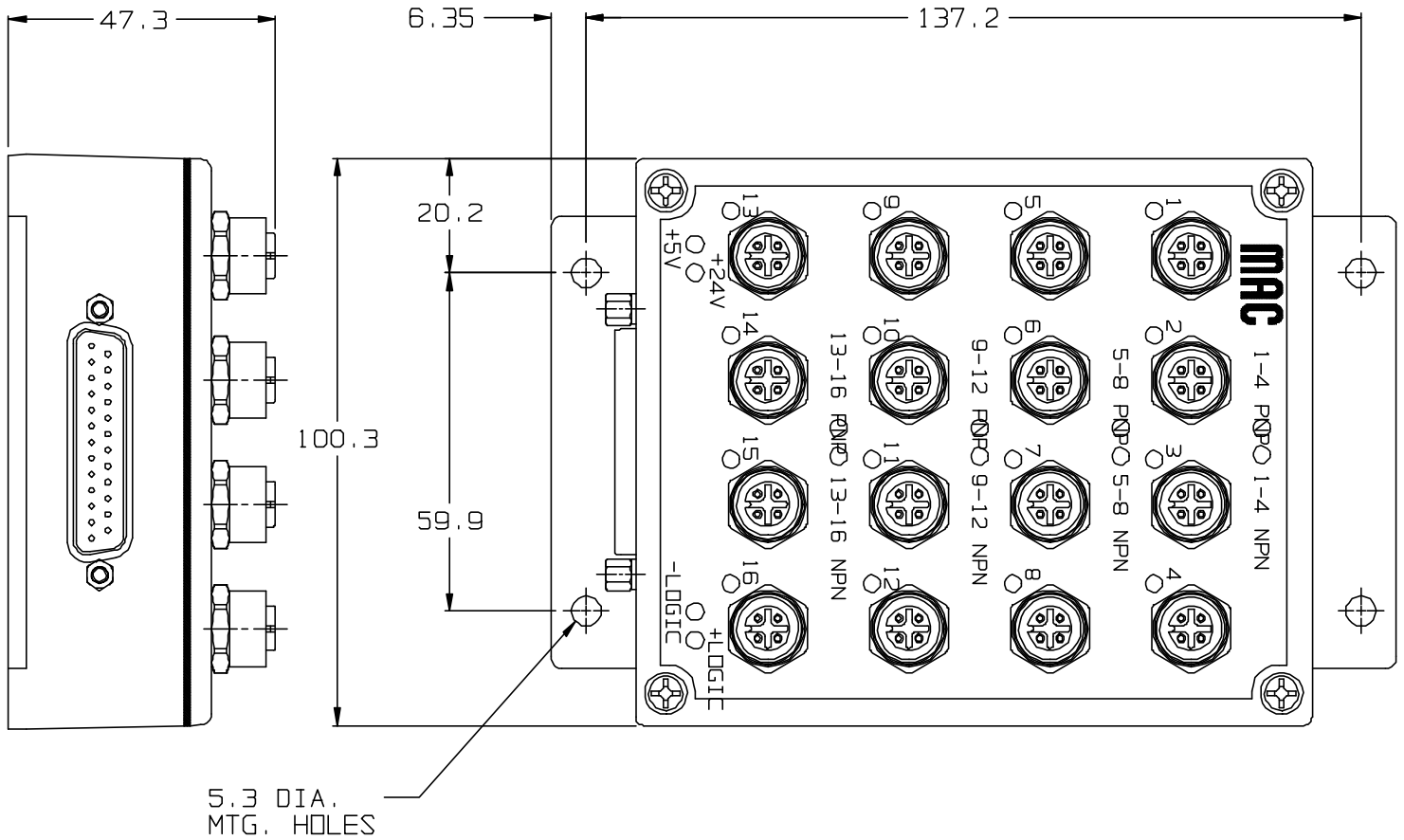
0-50° C (32-120°F)
10-90% RH (Non-condensing)

Enclosure:

Designed to meet NEMA 4 and IP65

* This product incorporates technology which is licensed by Allen-Bradley Company, Inc. Allen-Bradley has not technically approved, nor does it warrant or support this product. All warranty and support for this product and its application is provided solely by MAC Valves, Inc.

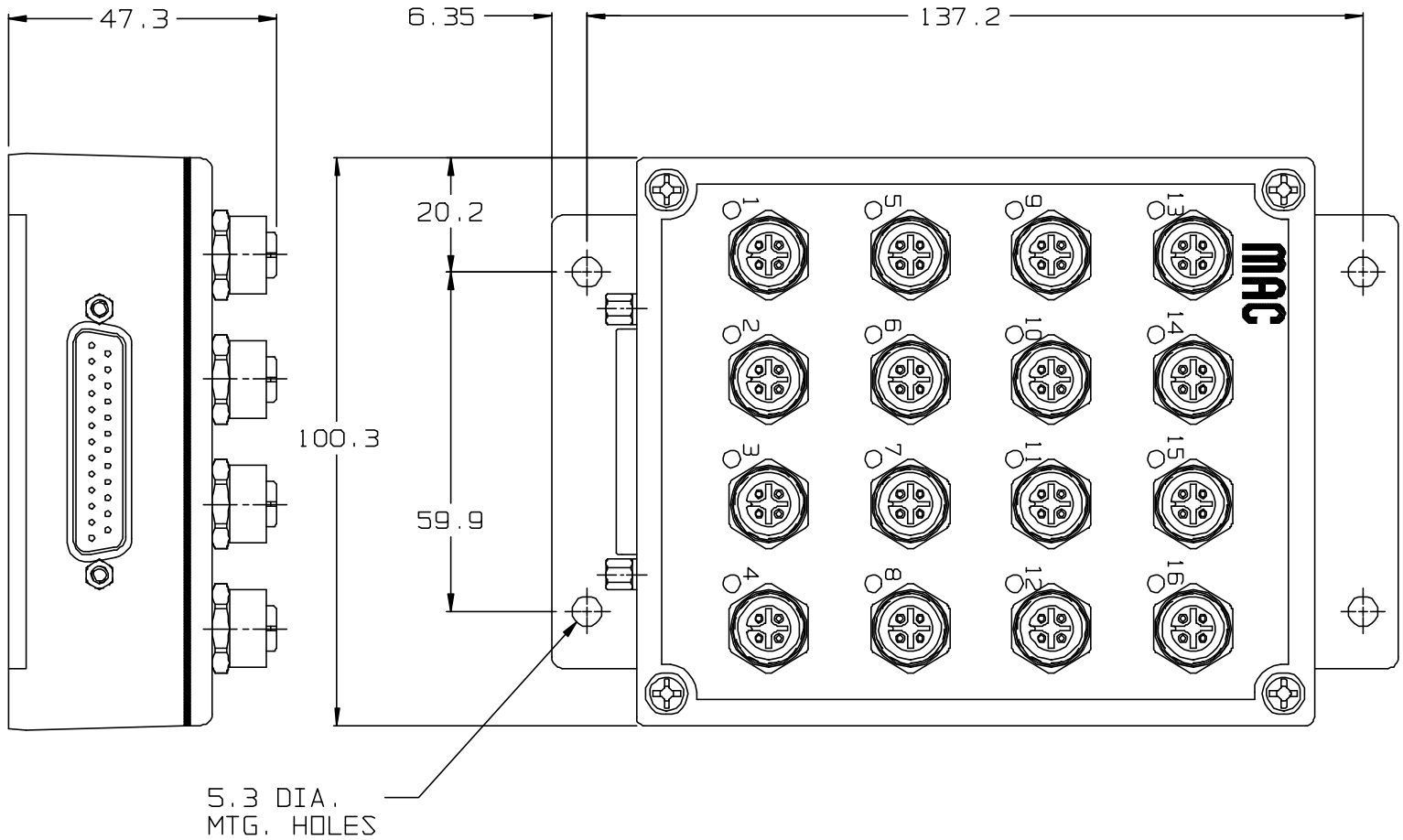
TETHERED INPUT MODULE



SPECIFICATIONS

NUMBER OF INPUTS:	4, 8, 12, 16
CONFIGURATION:	EACH BANK OF FOUR INPUTS CONFIGURABLE FOR NPN OR PNP INPUT TYPES. COMPLETE UNIT CONFIGURABLE FOR POSITIVE OR NEGATIVE LOGIC
ELECTRICAL:	24 VDC TYPE INPUTS ACCEPTED
PRODUCTION:	DESIGNED TO MEET NEMA 4 AND IP65
WEIGHT:	APPROXIMATELY 500 GRAMS
ENVIRONMENT:	0 - 50° C 10 - 90% RH (NON-CONDENSING)
CONNECTOR:	25 PIN SUB-D TETHERED BETWEEN SM8 ADAPTER BLOCK AND INPUT MODULE. 4 PIN SINGLE KEY MICRO STYLE FOR INPUTS, ONE CHANNEL PER CONNECTOR

TETHERED OUTPUT MODULE

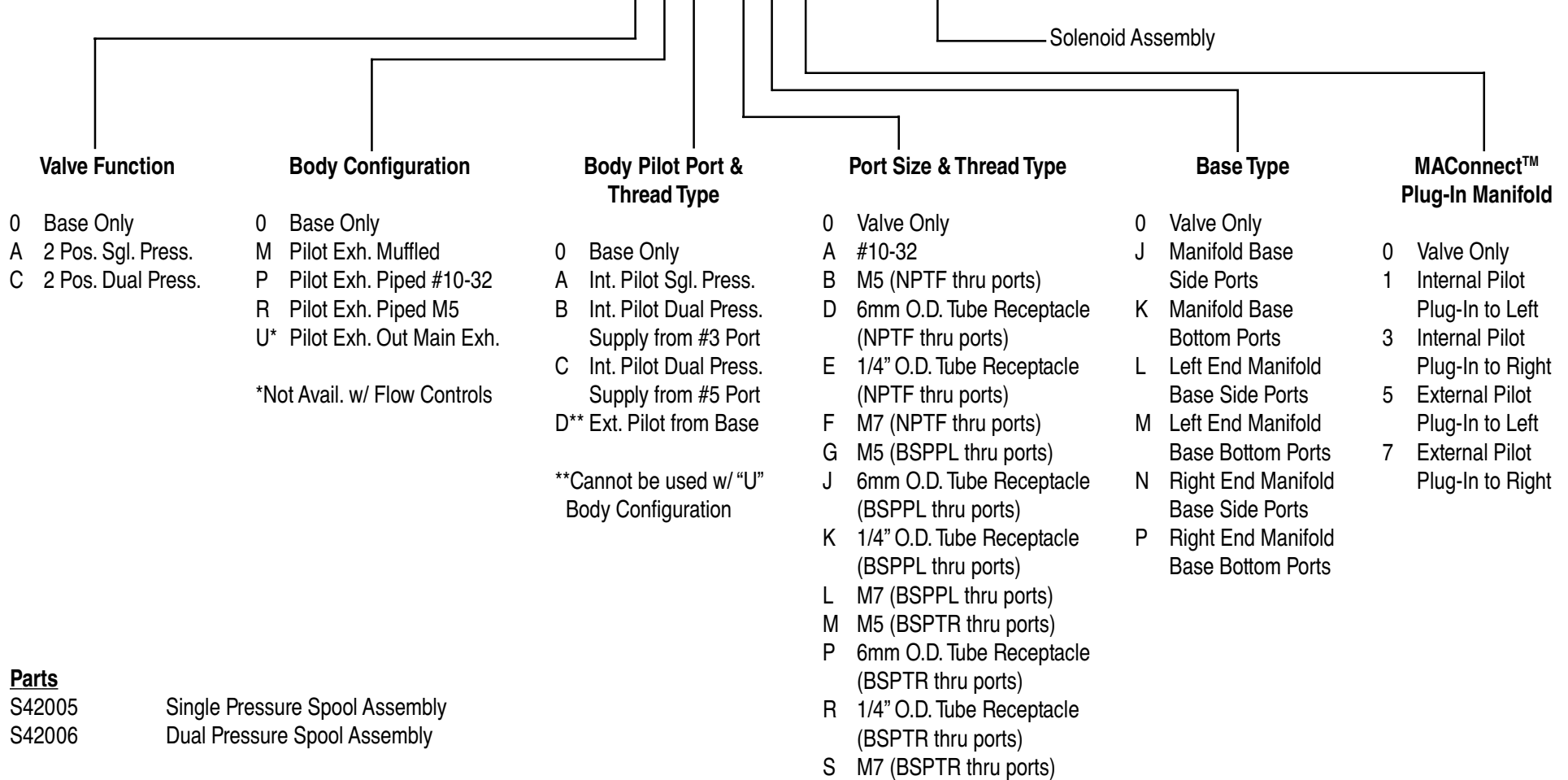


SPECIFICATIONS

NUMBER OF OUTPUTS:	4, 8, 12, 16
ELECTRICAL:	24 VDC TYPE OUTPUTS ACCEPTED
PRODUCTION:	DESIGNED TO MEET NEMA 4 AND IP65
WEIGHT:	APPROXIMATELY 500 GRAMS
ENVIRONMENT:	0 - 50° C 10 - 90% RH (NON-CONDENSING)
CONNECTOR:	25 PIN SUB-D TETHERED BETWEEN SM8 ADAPTER BLOCK AND OUTPUT MODULE. 4 PIN SINGLE KEY MICRO STYLE FOR OUTPUTS, ONE CHANNEL PER CONNECTOR

How to Order 42 Series MAConnect™

42A - X X X - X X X - GXXP - X XX (Standard)



Parts

S42005 Single Pressure Spool Assembly
 S42006 Dual Pressure Spool Assembly

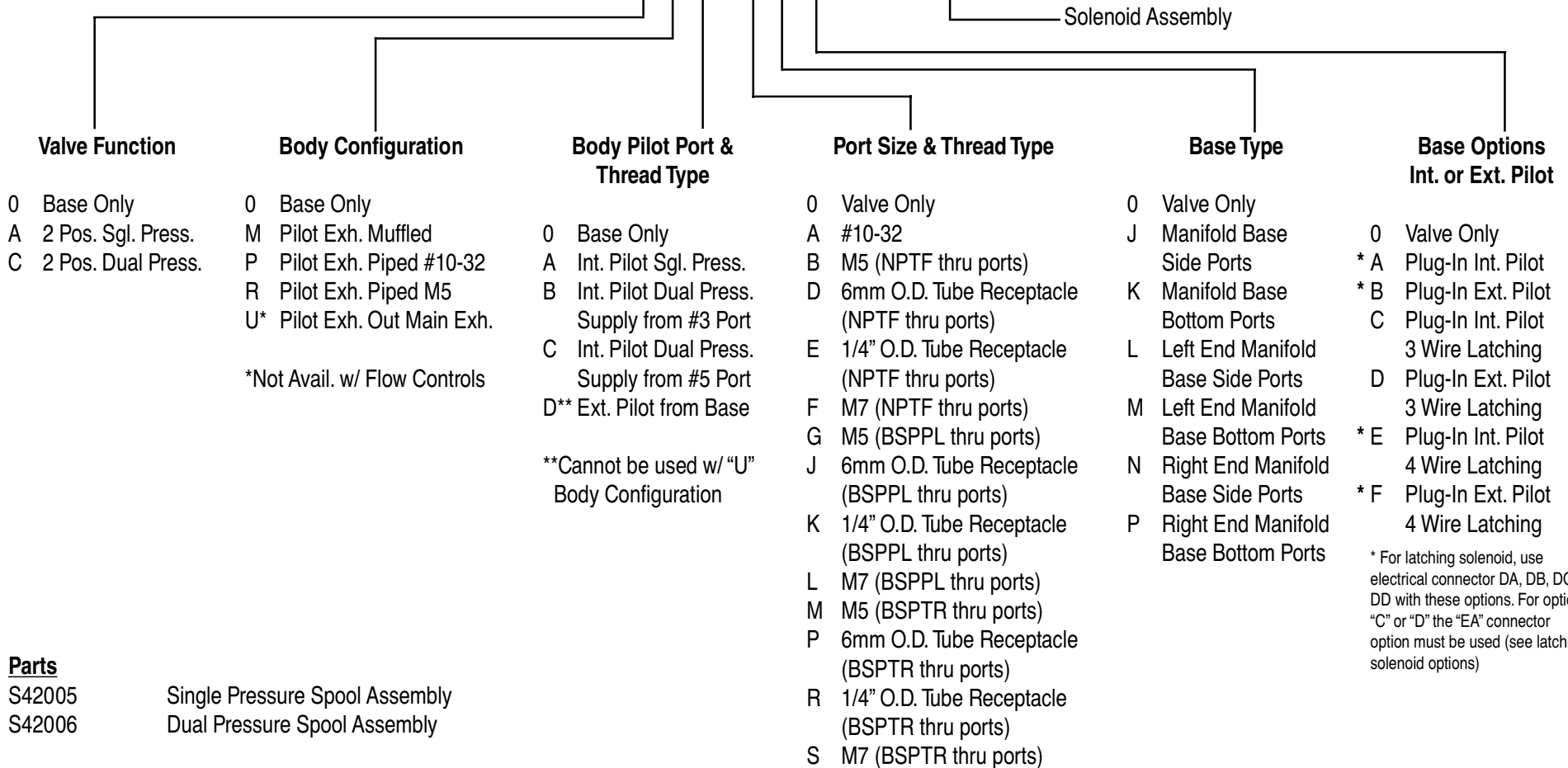
Modifications

MOD 1727 Nickel Plated Body and/or Base

Notes: •Thru ports are 1/4"
 •If latching solenoid is chosen, the "EA" connector option must be used (see latching solenoid options).

How to Order 42 Series (Plug-In Manifold)

42A - X X X - X X X - GXXP - X XX (Standard)



Parts

S42005 Single Pressure Spool Assembly
S42006 Dual Pressure Spool Assembly

Modifications

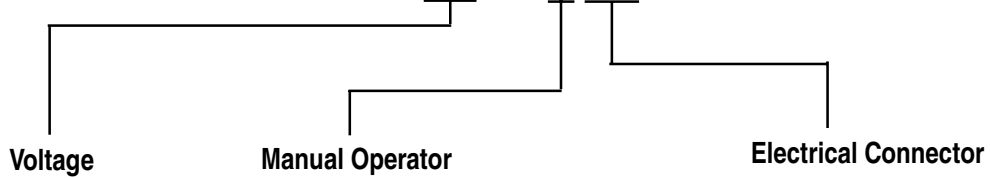
MOD 1727 Nickel Plated Body and/or Base

* For latching solenoid, use electrical connector DA, DB, DC, or DD with these options. For options "C" or "D" the "EA" connector option must be used (see latching solenoid options)

Note: Thru ports are 1/4"

Standard Solenoid Options

GXX P - X XX



- DA 24 VDC (1.0W)
- DC 24 VDC (1.8W)
- DD 24 VDC (2.5W)
- DE 24 VDC (3.0W)
- DF 24 VDC (4.0W)
- DG 12 VDC (1.0W)
- DJ 12 VDC (1.8W)
- DK 12 VDC (2.5W)
- DM 12 VDC (3.0W)
- DR 6 VDC (1.8W)
- DS 6 VDC (3.0W)

- 1 Recessed Non Locking Operator
- 3 Extended Non Locking Operator

- DE Plug-In w/ Supression Diode
- DF Plug-In w/ Suppression Diode w/ Ground Pin
- DJ Plug-In
- DM Plug-In w/ Ground Pin
- DT Plug-In w/ LED Light
- DU Plug-In w/ LED Light W/ Ground Pin
- DV Plug-In w/ Suppression Diode w/ LED Light
- DW Plug-In w/ Suppression Diode w/ LED Light w/ Ground Pin

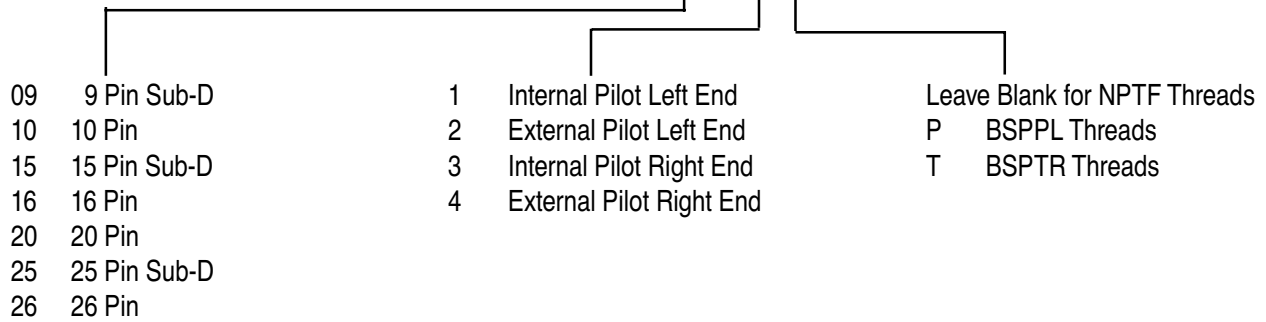
How to Order

Adapter Kits

MACConnect™ Adapter Assembly

(Positive/Negative Commons)

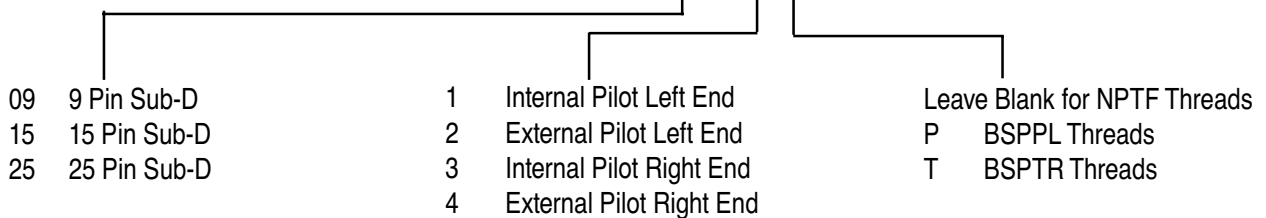
M-42005 - XX - X X



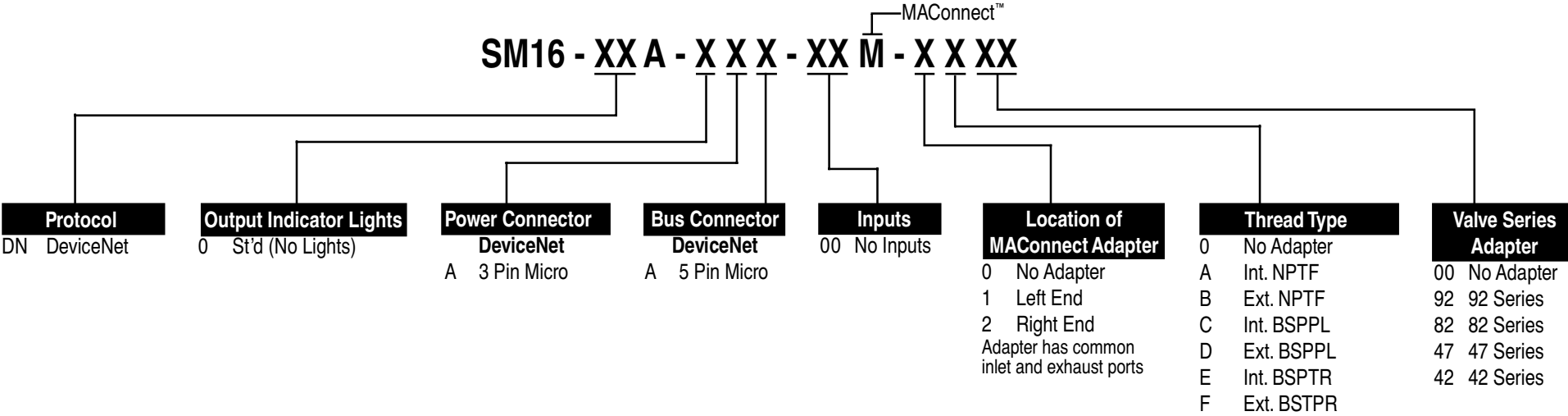
MACConnect™ Adapter Assembly

(Required For Connecting To A Remote Stack)

M-42006 - XX - X X

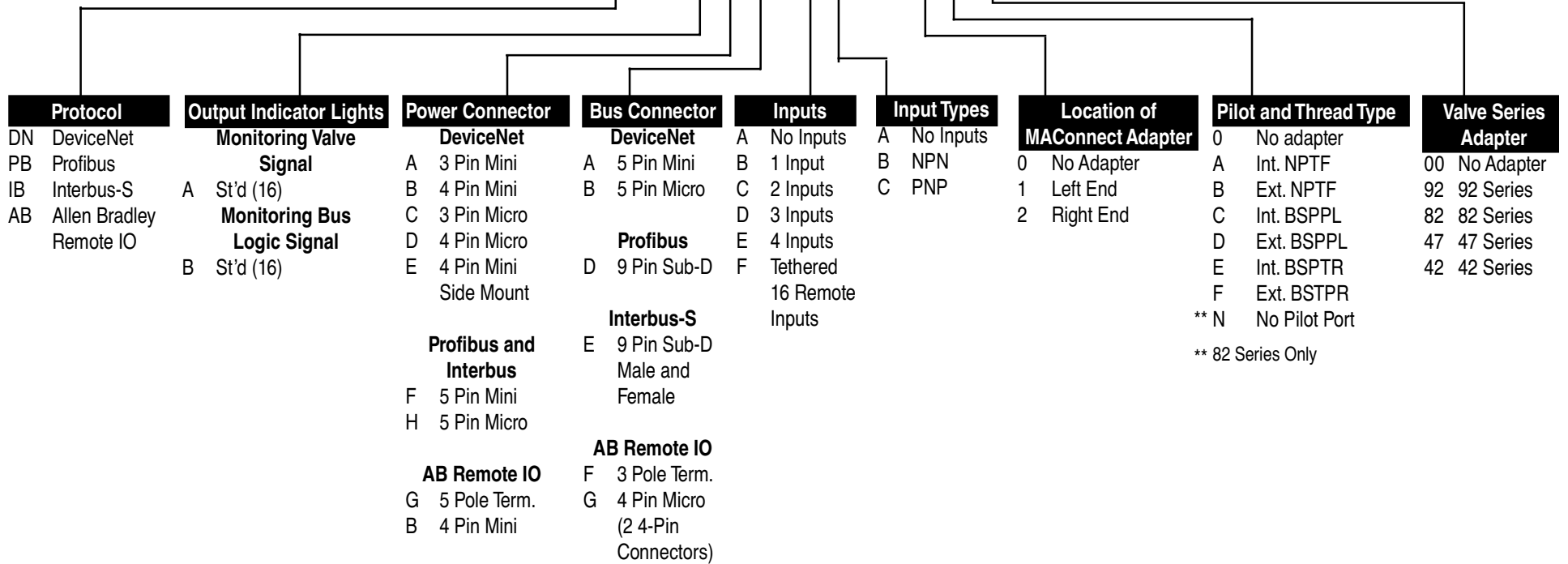


How to Order SM16 for MACConnect™ Serial Manifold



How to Order SM32 for MACConnect™ Serial Manifold

SM32 - XX A - X X X - X X M - X X XX

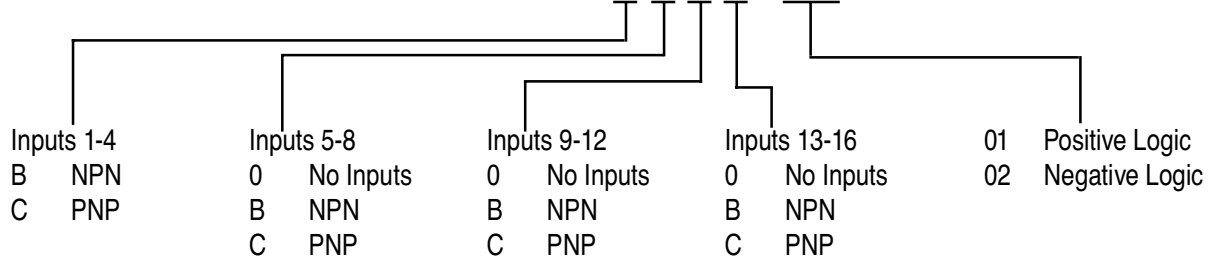


How to Order

Input and Output Modules

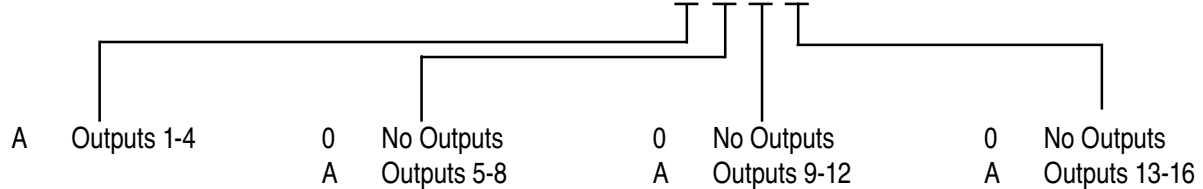
Remote Tethered Input Module (For use with SM32 only)

N-SM005 - X X X X - XX



Remote Tethered Output Module (For use with SM16 only)

N-SM006 - X X X X





PIN #	SOLENOID #
1	1
2	2
/	/
20	20
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON
25	+ COMMON

25 PIN SUB-D



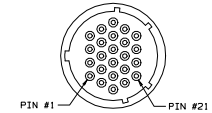
PIN #	SOLENOID #
1	1
2	2
/	/
13	13
14	+ COMMON
15	+ COMMON

15 PIN SUB-D



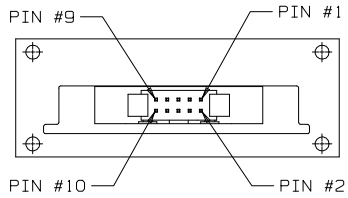
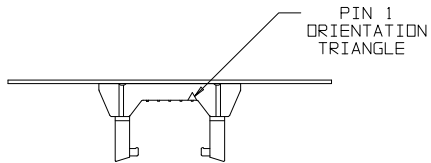
PIN #	SOLENOID #
1	1
2	2
/	/
8	8
9	+ COMMON

9 PIN SUB-D



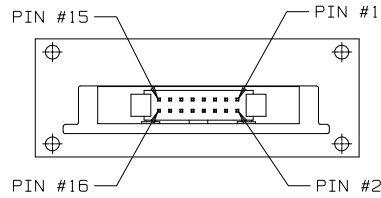
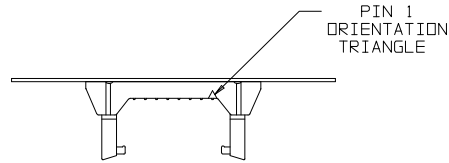
PIN #	SOLENOID #
1	1
2	2
/	/
20	20
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON

24 PIN AMP CPC



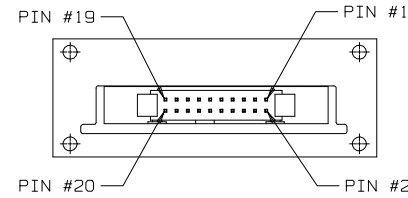
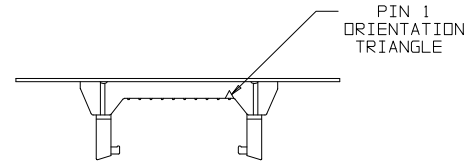
PIN #	SOLENOID #
1	1
2	2
/	/
8	8
9	+ COMMON
10	+ COMMON

10 PIN



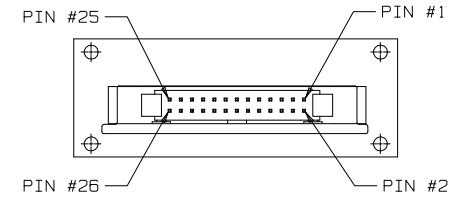
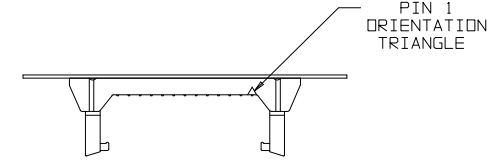
PIN #	SOLENOID #
1	1
2	2
/	/
12	12
13	+ COMMON
14	+ COMMON
15	+ COMMON
16	+ COMMON

16 PIN



PIN #	SOLENOID #
1	1
2	2
/	/
16	16
17	+ COMMON
18	+ COMMON
19	+ COMMON
20	+ COMMON

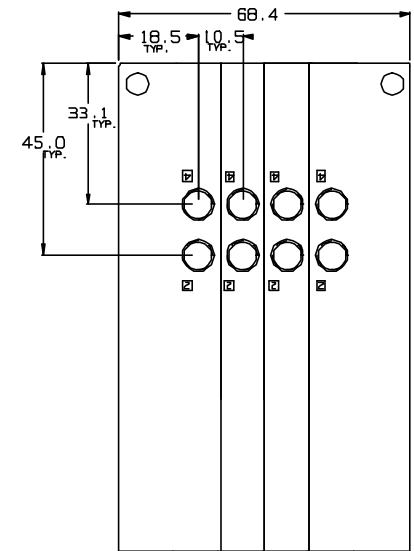
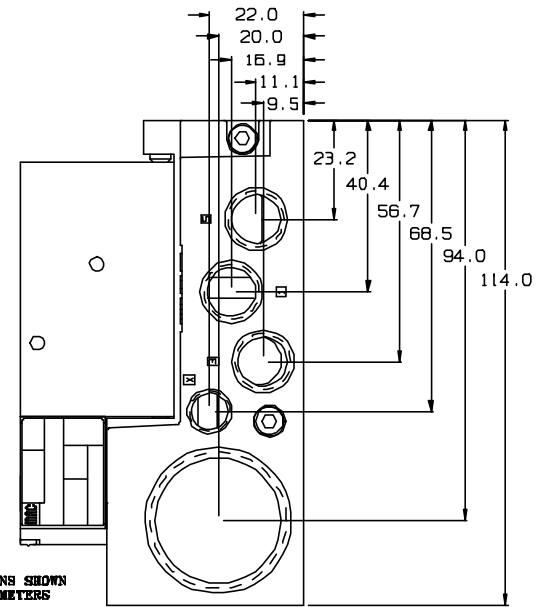
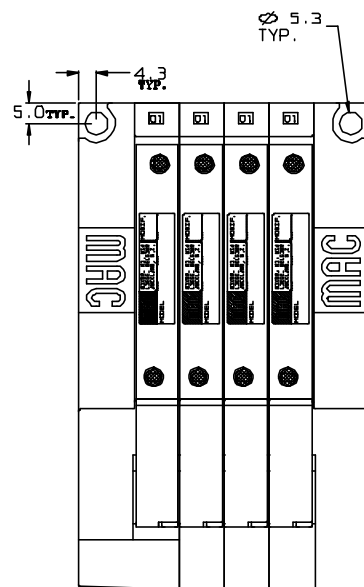
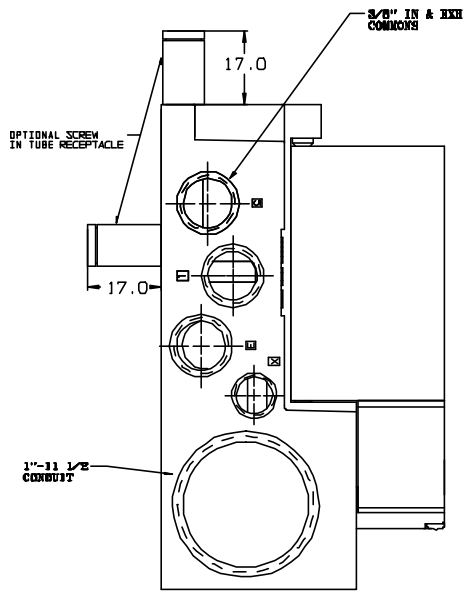
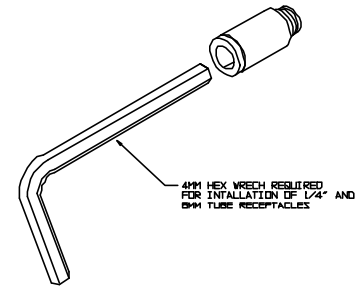
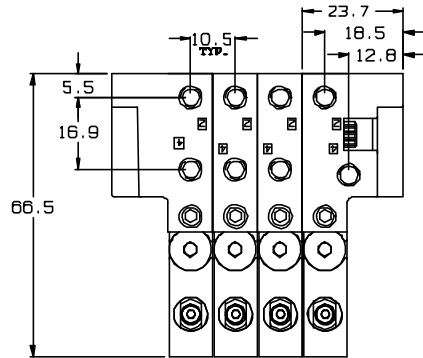
20 PIN



PIN #	SOLENOID #
1	1
2	2
/	/
20	20
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON
25	+ COMMON
26	+ COMMON

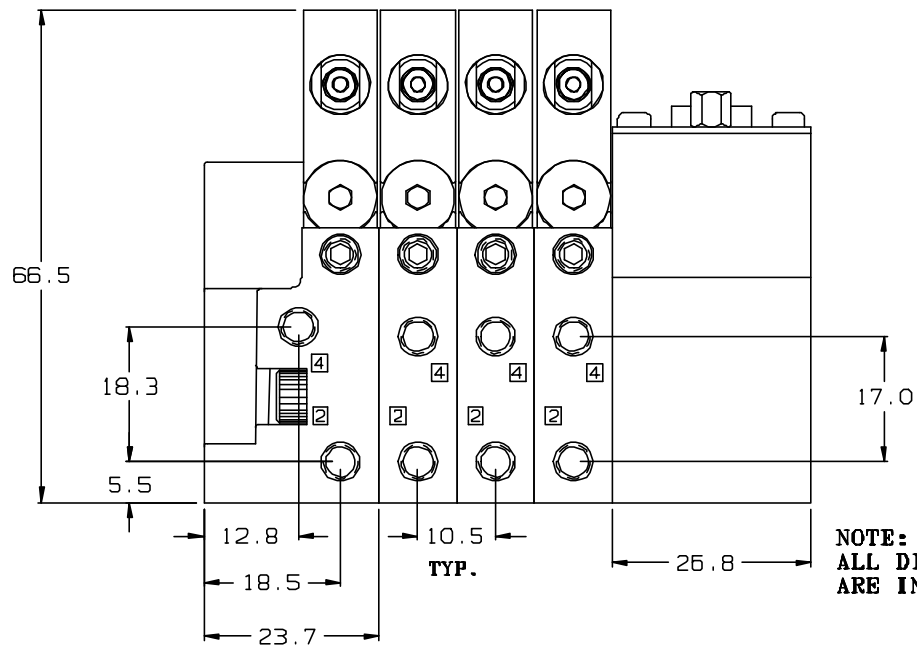
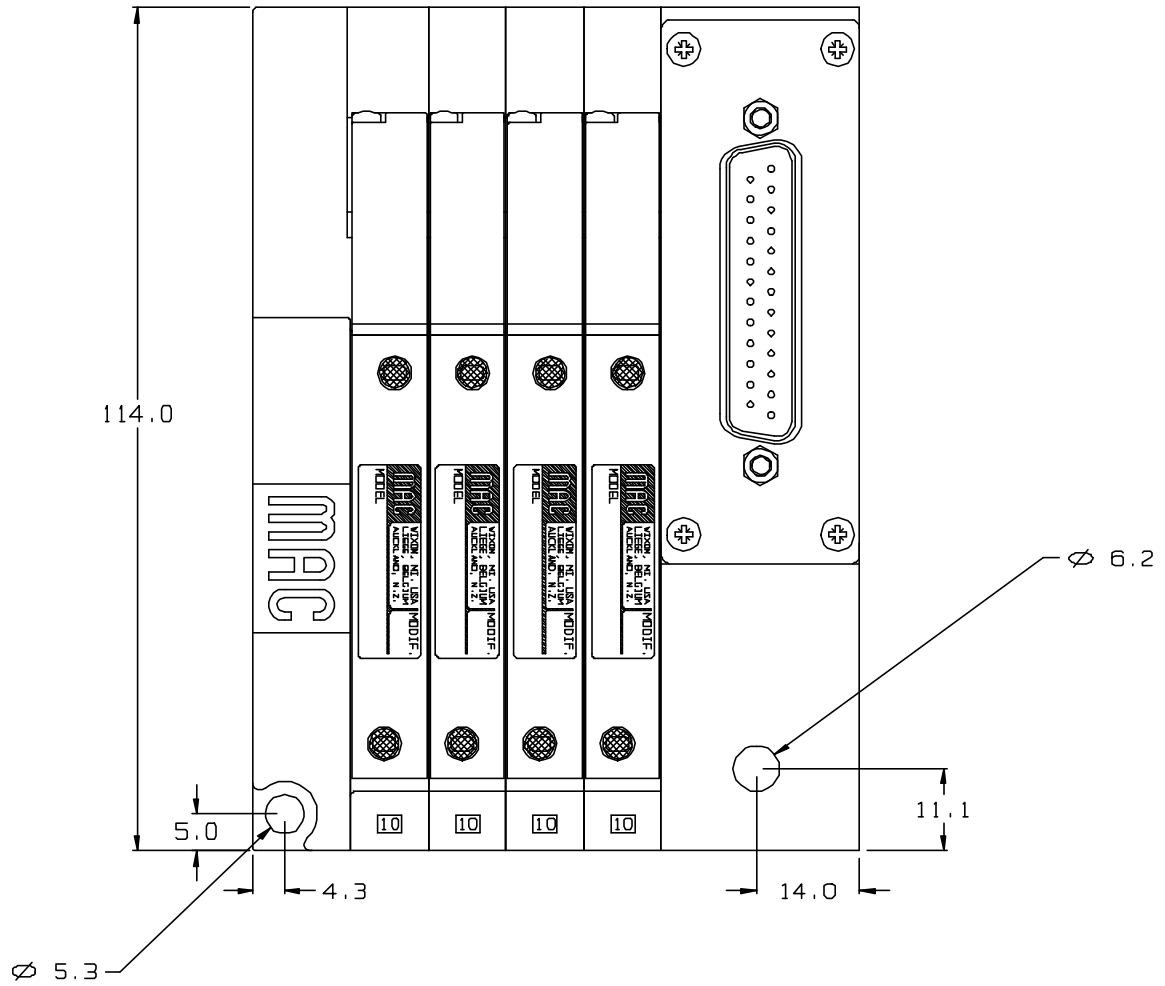
26 PIN

42 SERIES ADD-A-UNIT MANIFOLD BASE



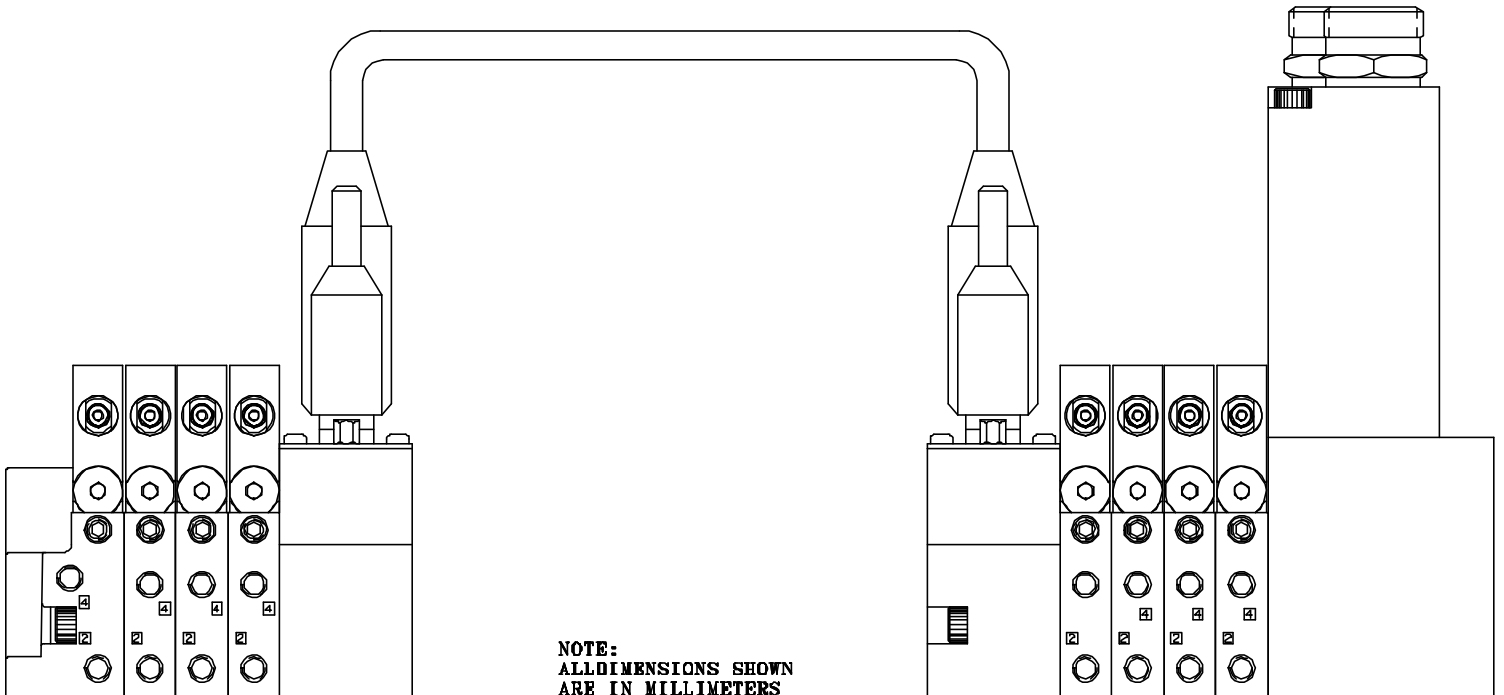
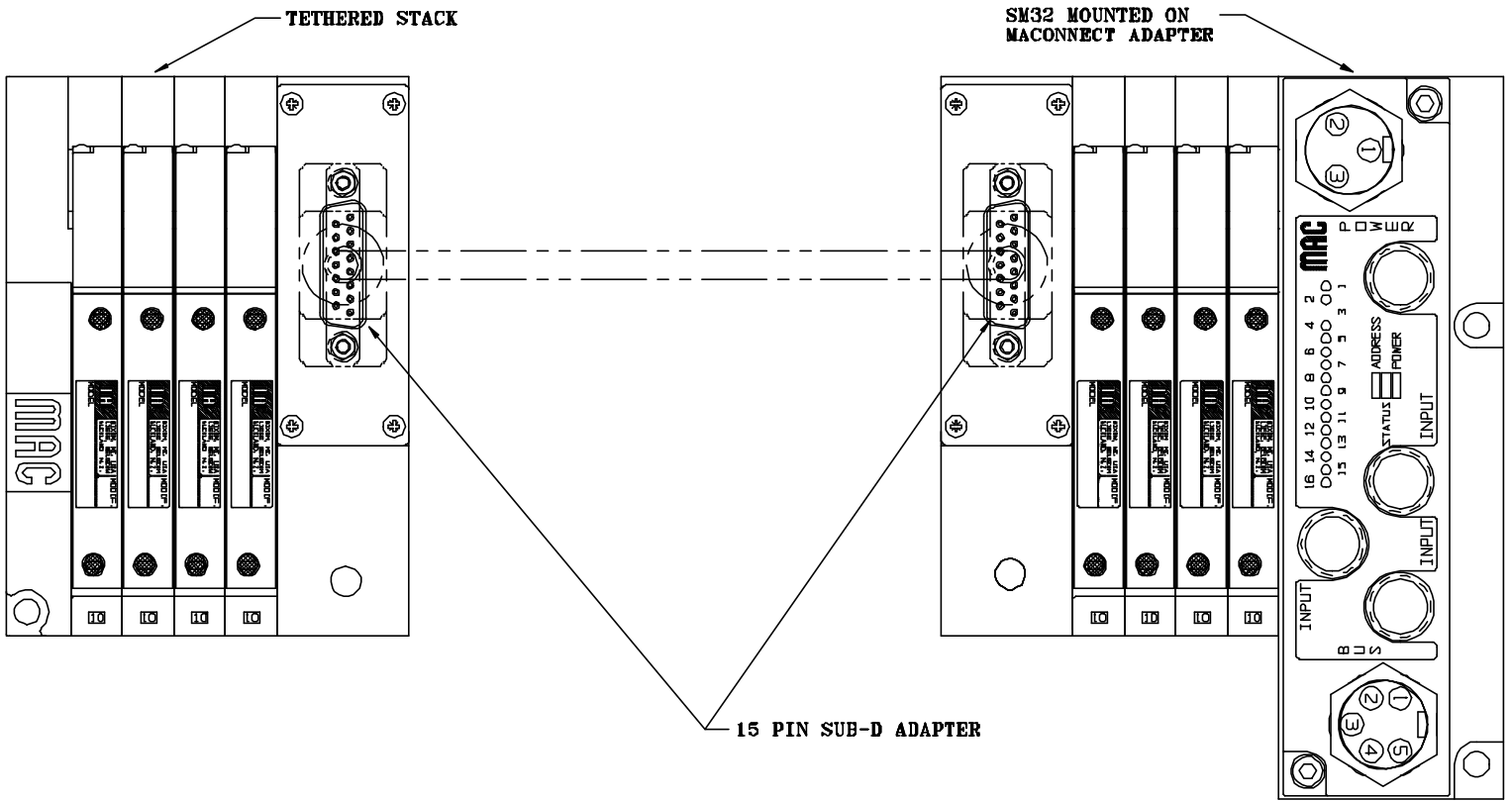
NOTE:
ALL DIMENSIONS SHOWN
ARE IN MILLIMETERS

42 SERIES MACONNECT SHOWN WITH MULTI PIN



NOTE:
ALL DIMENSIONS SHOWN
ARE IN MILLIMETERS

42 SERIES MACONNECT TETHERED TO A 42 SERIES MACONNECT STACK



NOTE:
 ALL DIMENSIONS SHOWN
 ARE IN MILLIMETERS