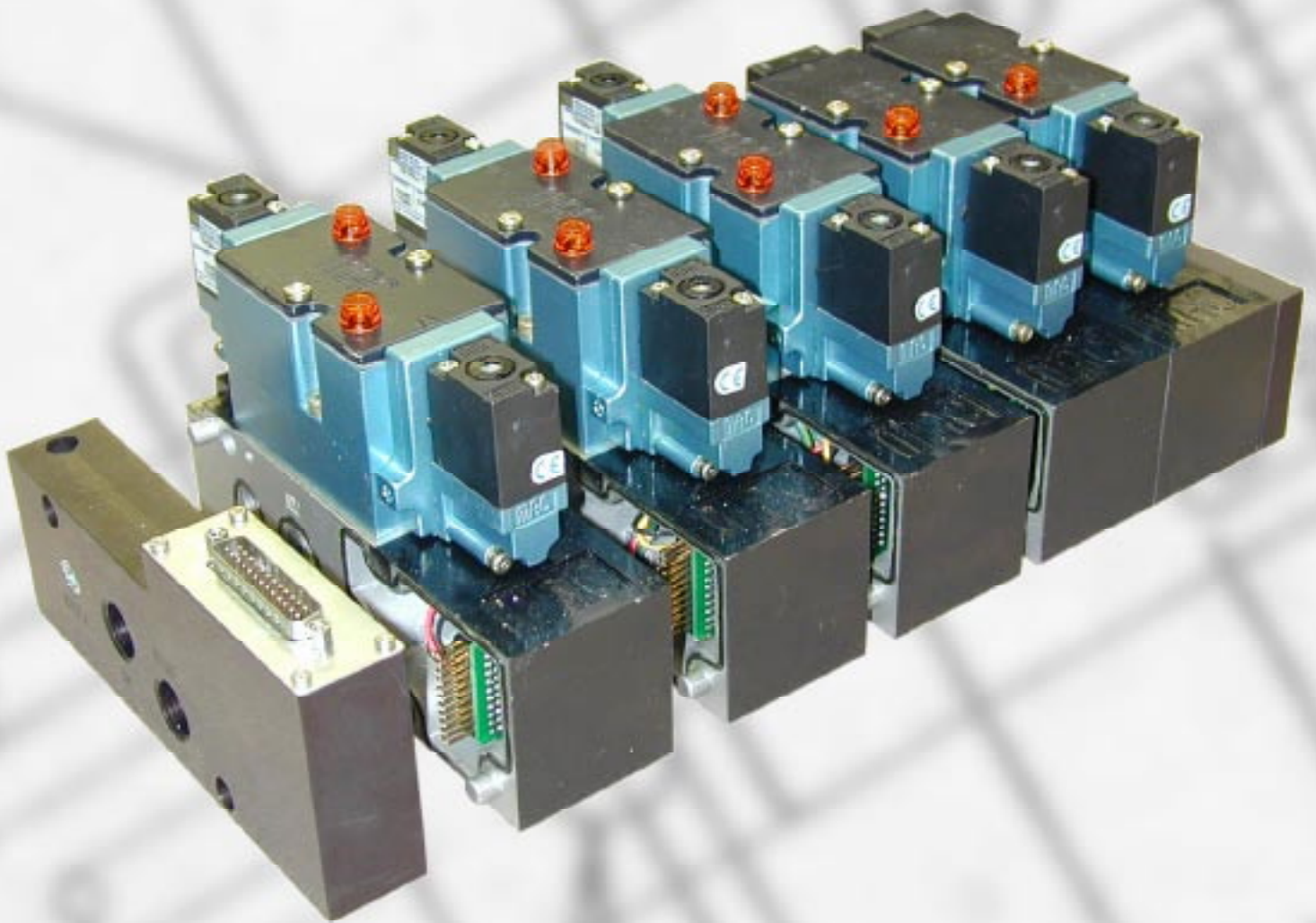
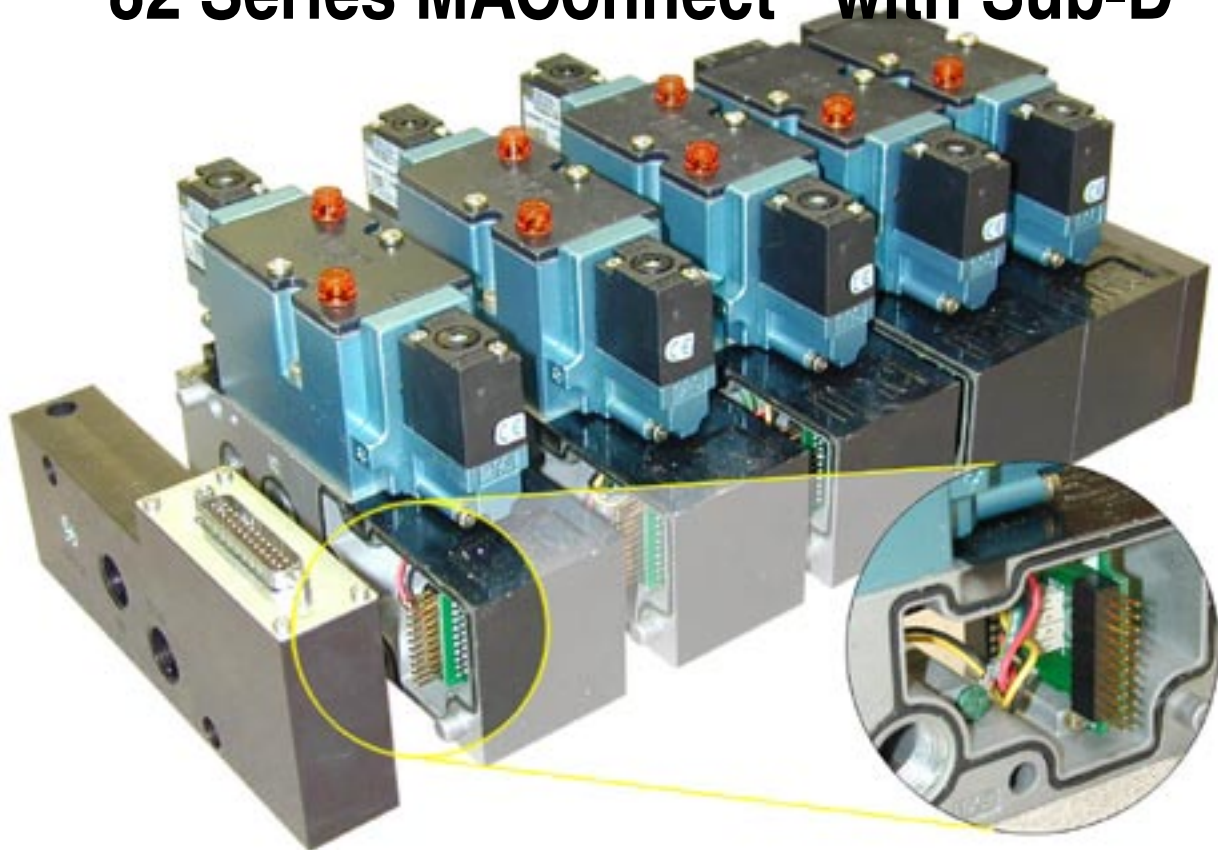


MACconnect™



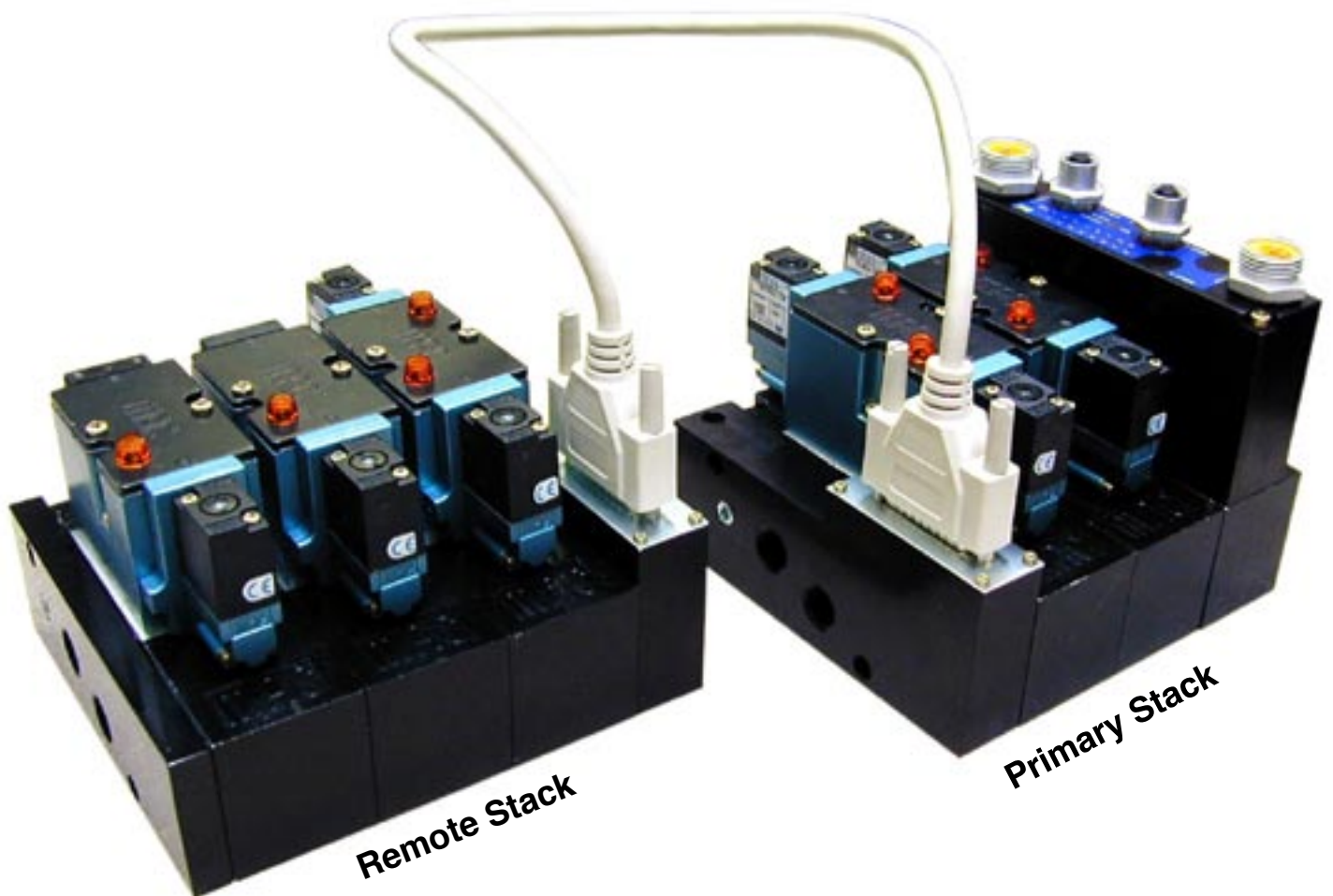
82 Series

82 Series MAConnect™ with Sub-D



- Maximum of 20 solenoids can be powered by a single multi-pin connector.
- Up to 40 solenoids can be powered by means of a second multi-pin connector station.
- Left or right end connector adapters available.
- Maximum allowable coil amperage is 250 milliamps.
- Standard AC and DC voltage options available up to 240 volts.
- Current connection types available are:
 - 9, 15, and 25 pin Sub-D connectors.
 - 10, 16, 20, and 26 pin ribbon type connectors.
 - 24 pin AMP CPC connector.
- Washdown Sub-D connectors available (9, 15 and 25 pin) - designed to meet NEMA 4 and IP65 ratings.
- Flexibility to support remotely located stacks.
- Dielectric strength to ground in excess of 2000 volts.

82 Series MAConnect™ Remote Manifolds



- Easy hookup.
- Remote stacks are compatible with Sub-D and ribbon style connectors.
- Primary and remote stacks can operate 20 solenoids in any configuration with Sub-D connectors.

Specifications

82 Series Valve

Fluids:

Compressed Air or Inert Gases

Lubrication:

Not required. If used, select a medium aniline point lubricant (between 180°F and 210°F)

Safe Operating Temperature Range:

0°F to 120°F (-18°C to 50° C)

Pressure Range:

25 to 150 PSI (Internal Pilot, Sgl. Solenoid)

10 to 150 PSI (Internal Pilot, Dbl. Solenoid)

Vacuum to 150 PSI (External Pilot)

25 to 150 PSI (3 Position, Internal/External Pilot)

Electrical:

DC 12/24 Volt 1.8w to 5.4w

AC 120/60 Inrush current 10.9 Volt-amps (.09 amps)

Holding Current 7.7 Volt-amps (.06 amps)

Maximum Coil Amperage - 250mA

Maximum Voltage - 240VAC

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

Amp CPC Connector Specifications

Receptacle: (Mounted in MACConnect™ adapter block)

- Series 1 Amp CPC Connector
- Shell size 23
- 24 Male pins (1.57mm diameter)
- Five key configuration

Recommended Plug:

- Amp part number 206837-1
- 5 key configuration
- Recommended receptacle contacts are size 16 type III+ (Accepts pin dia. 1.57mm)

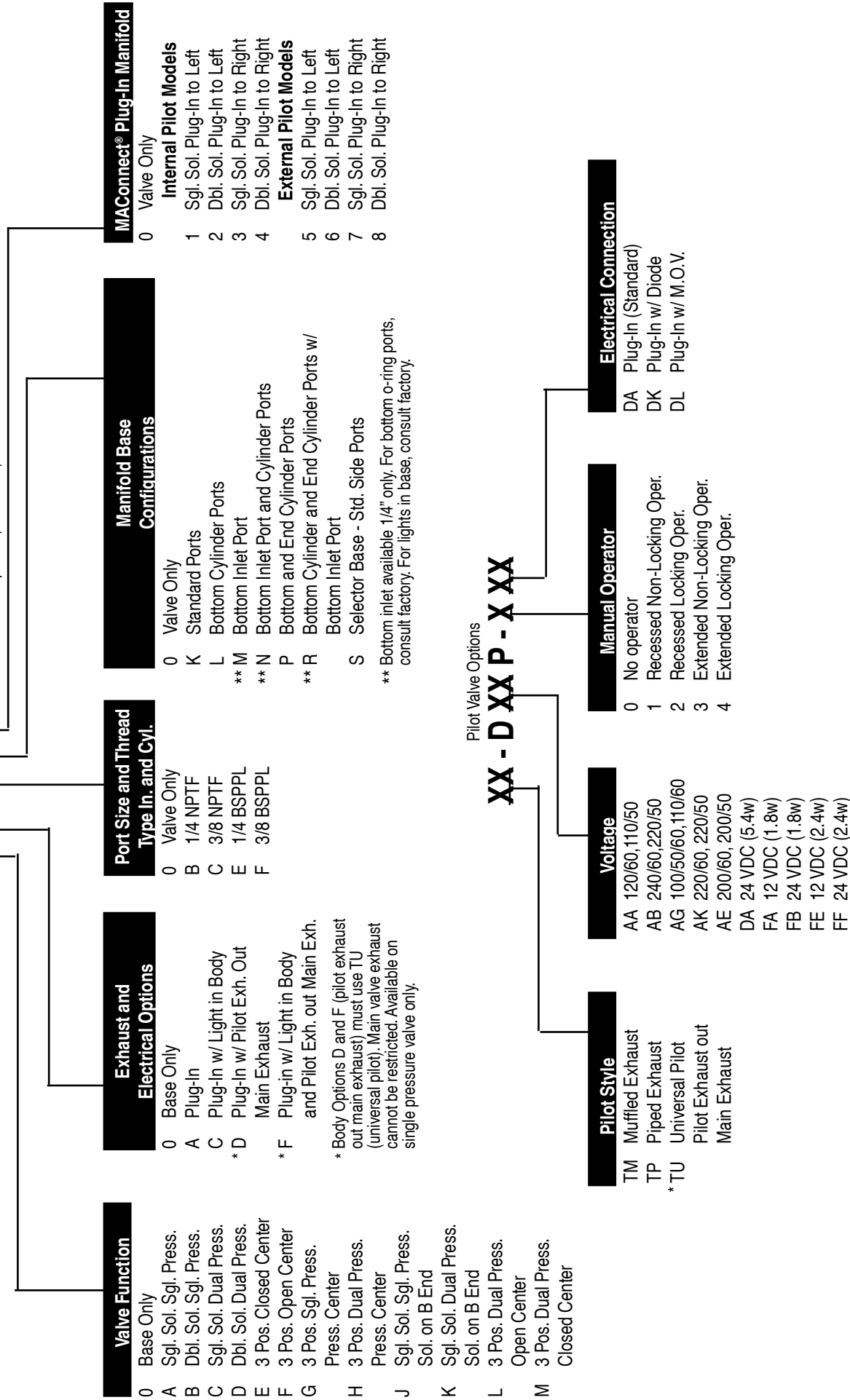
Additional information can be obtained from Amp Catalog 82021

How to Order

82 Series MACConnect™

82 A - X X - X X X - XX - D XX P - X XX

Pilot Valve Options (see below)



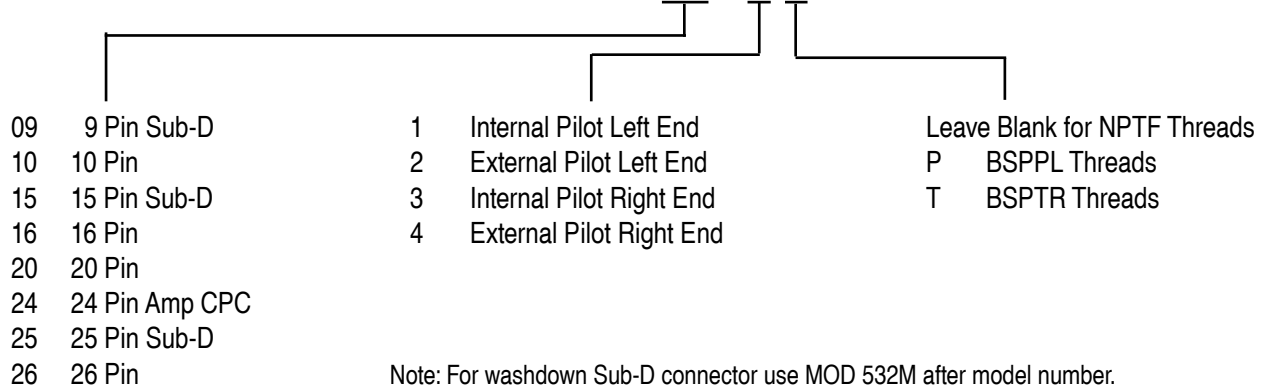
Note: For negative commons, use mod number 1705 after model number

How to Order

Adapters / End Plate Kit

MAConnect™ Adapter Assembly

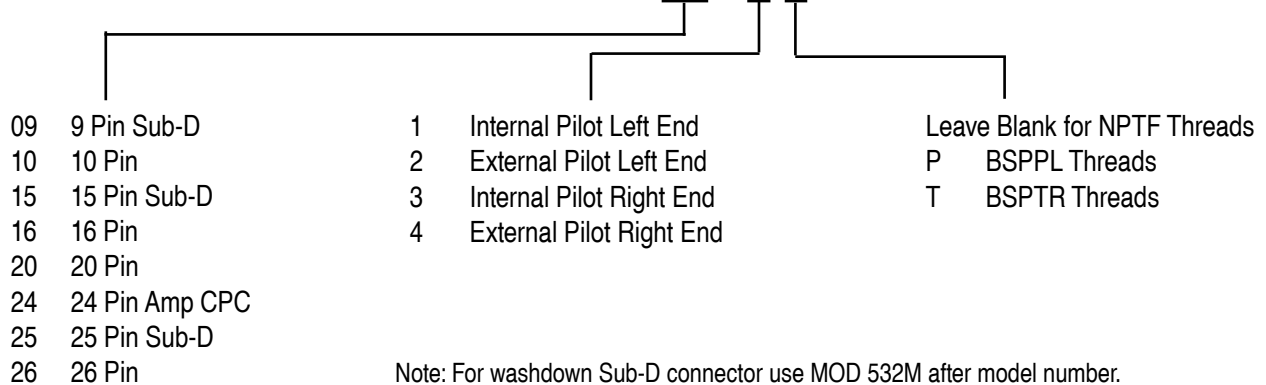
M-82010 - XX - X X



Note: For washdown Sub-D connector use MOD 532M after model number.
 Note: For Negative Commons (PNP) Use MOD 1705 After Model Number

MAConnect™ Adapter Assembly (Required For Connecting To A Remote Stack)

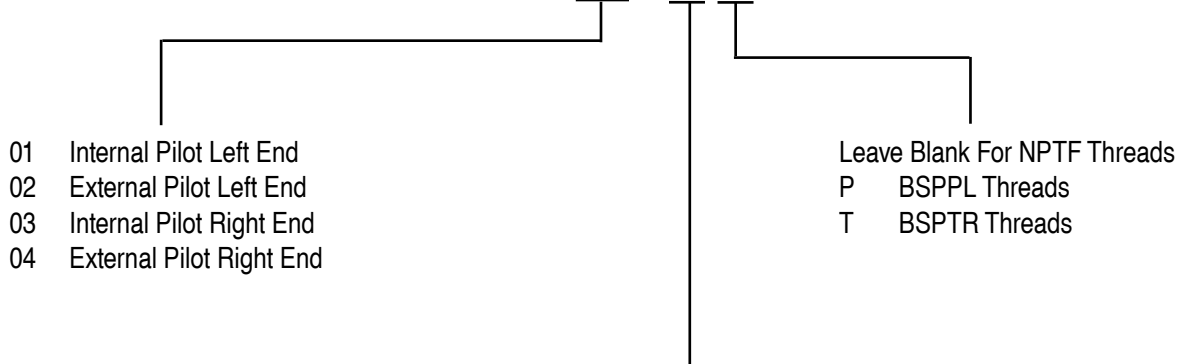
M-82011 - XX - X X



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

MAConnect™ Fastening End Plate Kit

M-82012 - XX - 01 X

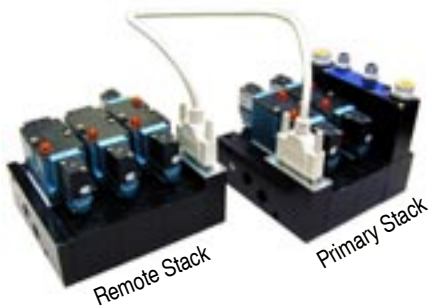


Note: "01" should be used only when the Fastening End Plate Kit is ordered separately. When the kit is ordered with an assembly this number will change to indicate the number of valves in the stack. Refer to "Examples for Ordering" page.

Examples for Ordering MAConnect™



<u>Qty</u>	<u>Description</u>
1	M-82010-25-1
3	82A-BC-CK2-TM-DDAP-1DA
2	82A-AC-CK1-TM-DDAP-1DA
1	M-82012-03-05



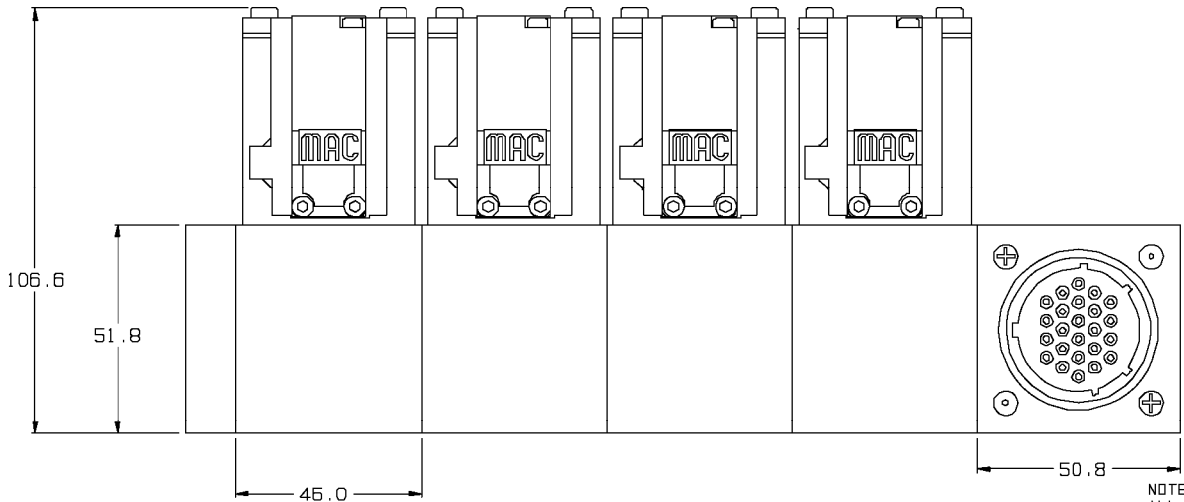
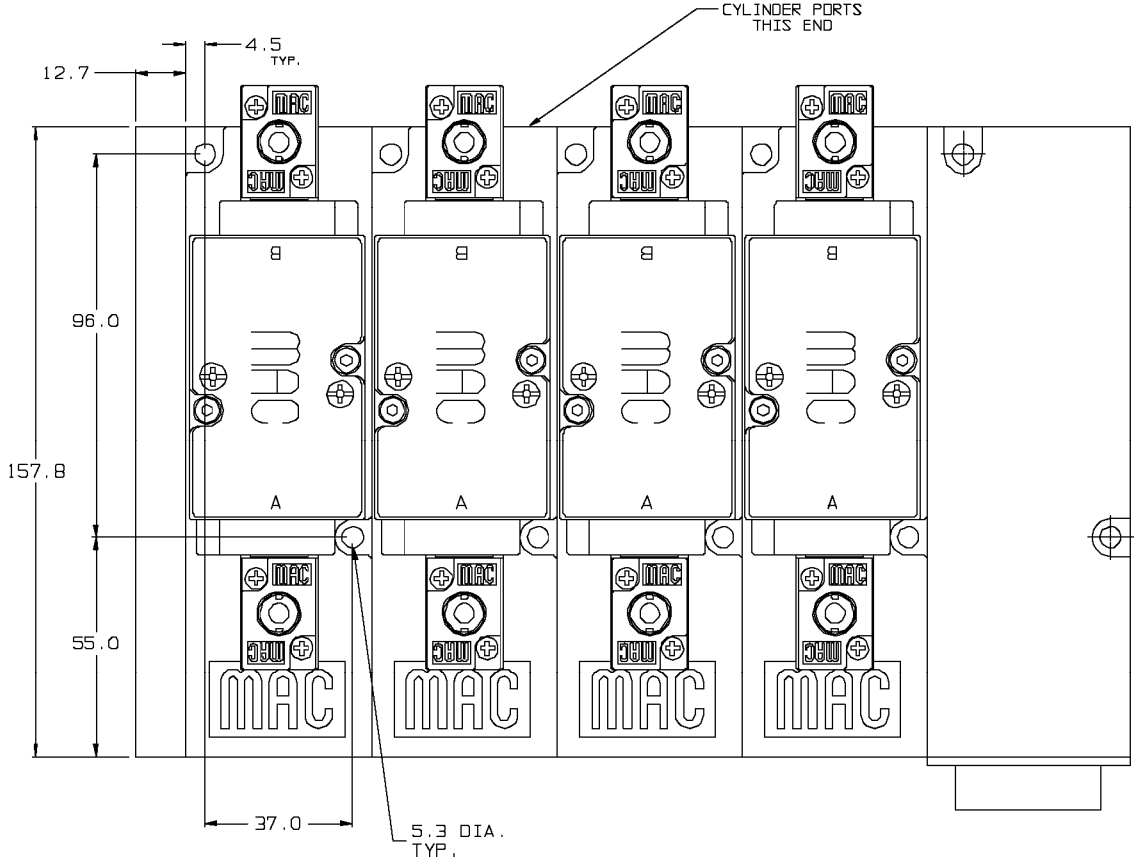
Remote Stack

<u>Qty</u>	<u>Description</u>
1	M-82012-01-03
2	82A-AC-CK3-TM-DDAP-1DA
1	82A-BC-CK4-TM-DDAP-1DA
1	M-82010-25-3

Primary Stack

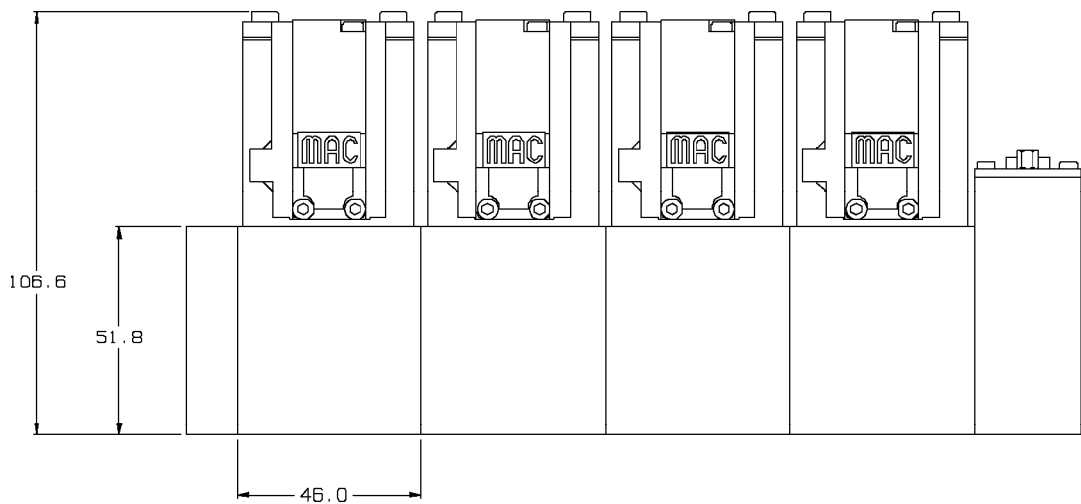
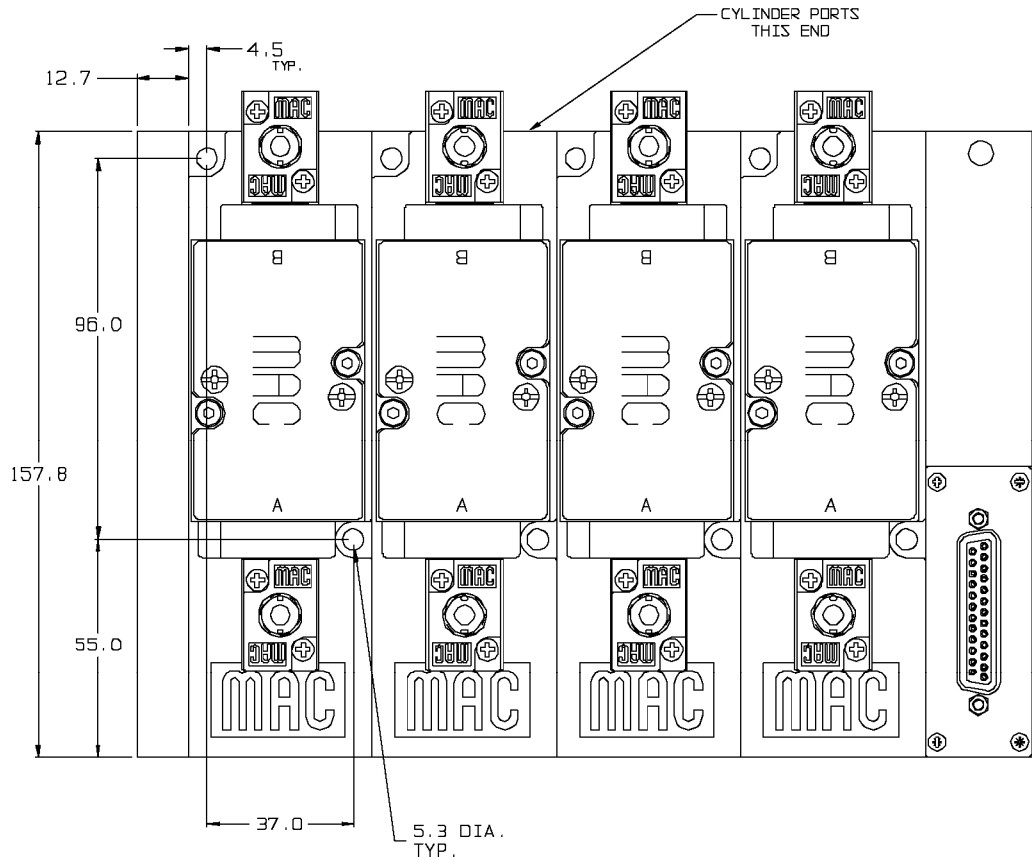
<u>Qty</u>	<u>Description</u>
1	M-82011-25-1
2	82A-BC-CK4-TM-DDAP-1DA

82 SERIES MACONNECT WITH AMP CPC CONNECTOR ON RIGHT END

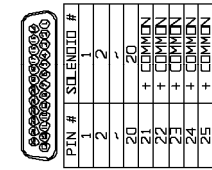


NOTE:
ALL DIMENSIONS SHOWN
ARE IN MILLIMETERS

82 SERIES MACONNECT WITH MULTI-PIN CONNECTOR ON RIGHT END

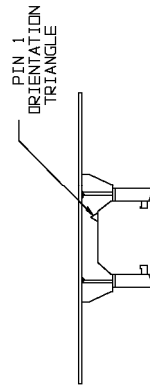


NOTE:
ALL DIMENSIONS SHOWN
ARE IN MILLIMETERS

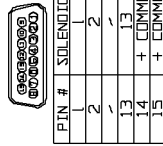


PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	2
18	2
19	2
20	2
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON
25	+ COMMON

25 PIN SUB-D

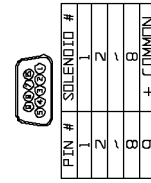
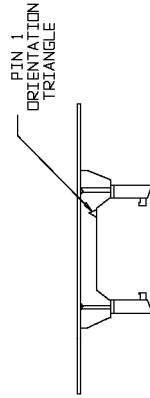


24 PIN AMP CPC



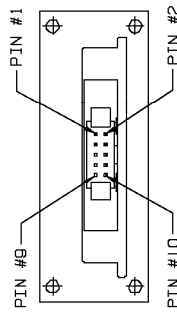
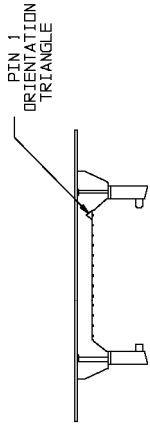
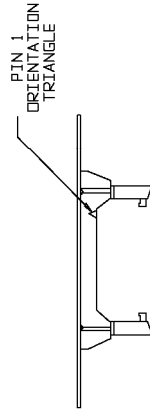
PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	+ COMMON
15	+ COMMON

15 PIN SUB-D



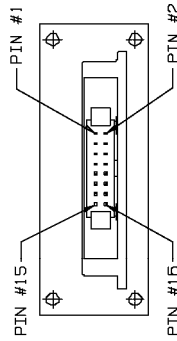
PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	+ COMMON

9 PIN SUB-D



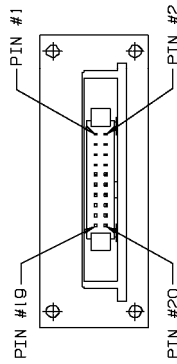
PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	+ COMMON
10	+ COMMON

10 PIN



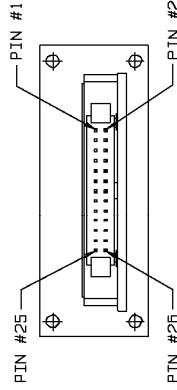
PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	+ COMMON
18	+ COMMON
19	+ COMMON
20	+ COMMON

16 PIN



PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	2
18	2
19	2
20	2
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON
25	+ COMMON
26	+ COMMON

20 PIN



PIN #	SOLENOID #
1	1
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	2
18	2
19	2
20	2
21	2
22	2
23	2
24	2
25	2
26	2
27	+ COMMON
28	+ COMMON
29	+ COMMON
30	+ COMMON
31	+ COMMON
32	+ COMMON
33	+ COMMON
34	+ COMMON
35	+ COMMON
36	+ COMMON
37	+ COMMON
38	+ COMMON
39	+ COMMON
40	+ COMMON
41	+ COMMON
42	+ COMMON
43	+ COMMON
44	+ COMMON
45	+ COMMON
46	+ COMMON
47	+ COMMON
48	+ COMMON
49	+ COMMON
50	+ COMMON
51	+ COMMON
52	+ COMMON
53	+ COMMON
54	+ COMMON
55	+ COMMON
56	+ COMMON
57	+ COMMON
58	+ COMMON
59	+ COMMON
60	+ COMMON
61	+ COMMON
62	+ COMMON
63	+ COMMON
64	+ COMMON
65	+ COMMON
66	+ COMMON
67	+ COMMON
68	+ COMMON
69	+ COMMON
70	+ COMMON
71	+ COMMON
72	+ COMMON
73	+ COMMON
74	+ COMMON
75	+ COMMON
76	+ COMMON
77	+ COMMON
78	+ COMMON
79	+ COMMON
80	+ COMMON
81	+ COMMON
82	+ COMMON
83	+ COMMON
84	+ COMMON
85	+ COMMON
86	+ COMMON
87	+ COMMON
88	+ COMMON
89	+ COMMON
90	+ COMMON
91	+ COMMON
92	+ COMMON
93	+ COMMON
94	+ COMMON
95	+ COMMON
96	+ COMMON
97	+ COMMON
98	+ COMMON
99	+ COMMON
100	+ COMMON

26 PIN

Installation and Service Precautions:

- A. Do not install or service MAC valves without first making sure both air and electrical power to the machine are off and that all air has been completely bled from the system.
- B. MAC valves should only be installed and/or serviced by qualified knowledgeable personnel who understand how the specific valve is to be pneumatically piped and electrically connected (where applicable). Flow paths through the valve are shown in the catalog and on the valve by use of ANSI or ISO type standard and graphic symbols. Do not install unless these symbols and the valve functions and operations are thoroughly understood.
- C. Before service, maintenance, repair or cleaning, consult local distributor or factory for Parts and Operation Sheet and information on proper cleaning and lubrication agents. Do not subject MAC valves' parts to any foreign substance including lubricants and cleaning agents not specifically recommended by MAC Valves, Inc.
- D. MAC valves are never to be stepped on while working on a machine. Damage to the valve, or lines to the valve (either air or electrical lines) or accidental activating of a manual operator on the valve could result in a dangerous condition.

Warning:

Under no circumstances are MAC valves to be used in any application where failure of the valve to operate as intended could jeopardize the safety of the operator or any other person.

- Do not operate outside of the pressure range listed on valve label or outside of designated temperature range.
- Air supply must be clean. Contamination of valve can affect proper operation.
- Before attempting to repair, adjust or clean valve, consult catalog, parts and operation sheet, or factory for proper maintenance procedures, lubrication, and cleaning agents. Never attempt to repair or perform other maintenance with air pressure to valve.
- If airline lubrication is used, consult catalog, parts and operation sheet, or factory for recommended lubricants.



MAC VALVES, INC.
P.O. Box 111
30569 Beck Road
Wixom, Mi. 48393-7011

Tel: 1-800-MAC VLVS
Tel: 1-248-624-7700
Fax: 1-248-624-0549
E-mail: mac@macvalves.com
WebSite: www.macvalves.com

MAC VALVES EUROPE, INC.
Rue Marie Curie, 12
B-4431 Ans (Liege)
Belgium

Tel: 32 (4) 239 68 68
Fax: 32 (4) 263 19 42
E-Mail: info@macvalves.be

MAC VALVES PACIFIC, INC.
P.O. Box 12221
Penrose, Auckland
New Zealand

Tel: 64 (9) 634-9400
Fax: 64 (9) 634-9401
E-Mail: macvalves@xtra.co.nz

MAC VALVES, INC.
5275 Ann Arbor Rd.
Dundee, Mi. 48131

Tel: 1-743-529-5099
Fax: 1-743-529-5902

