

Specifications

46 Series Valve (Lifting Solenoid)

Operating Data

Fluids:	Air or Inert Gas
Lubrication:	Not Required. But if used, select a medium aniline point oil (between 180°F to 210°F).
Safe Operating Temperature Range:	0° to 120°F (-18° to 50°C)
Pressure Range:	Vacuum to 120 PSI
Coils:	General Purpose Class A, Continuous duty.
Coil Leads:	#22 AWG x 18", Other lengths available
Solenoid:	Single Operator Only (Double Solenoid is not available)

Flows (Cv - Up to)

Average of All Ports

Wattage

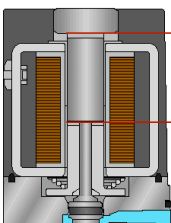
Inline (Cv)	1.8w	2.4w	5.4w
	0.20	0.20	0.30

Higher flow rates available - Consult Factory

Special Applications

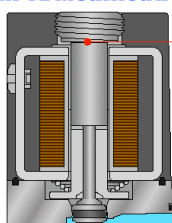
The balanced poppet design facilitates using the same valve for many functions. A valve may be used for pressure and/or vacuum or plugged for 3 Way operation.

Current Solenoid Technology



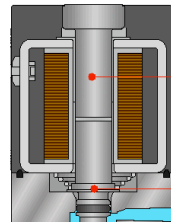
Excess Armature Movement in Solenoid

Current Solenoid Technology RPTe Modification



Dial in Screw Eliminates Excess Armature Travel

New Lifting Solenoid Technology

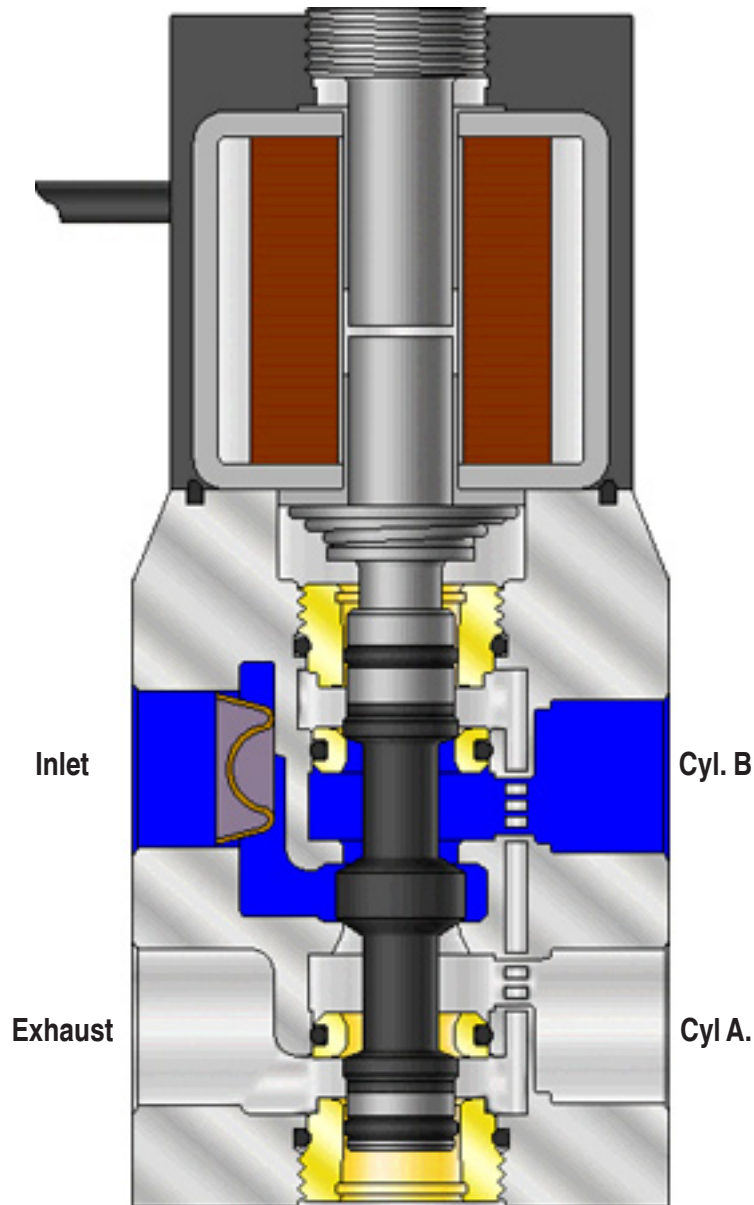


Fixed Pole Piece

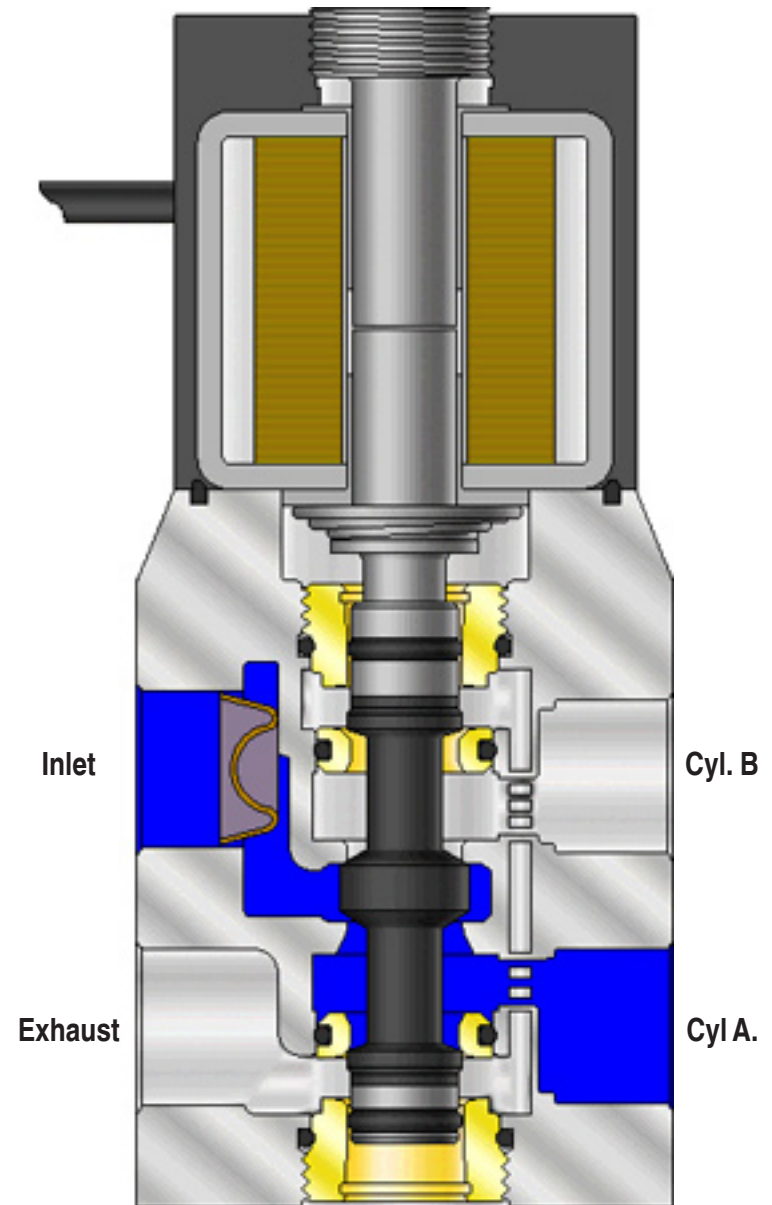
One Piece Armature Poppet Design



MAC 46 Series with Lifting Solenoid



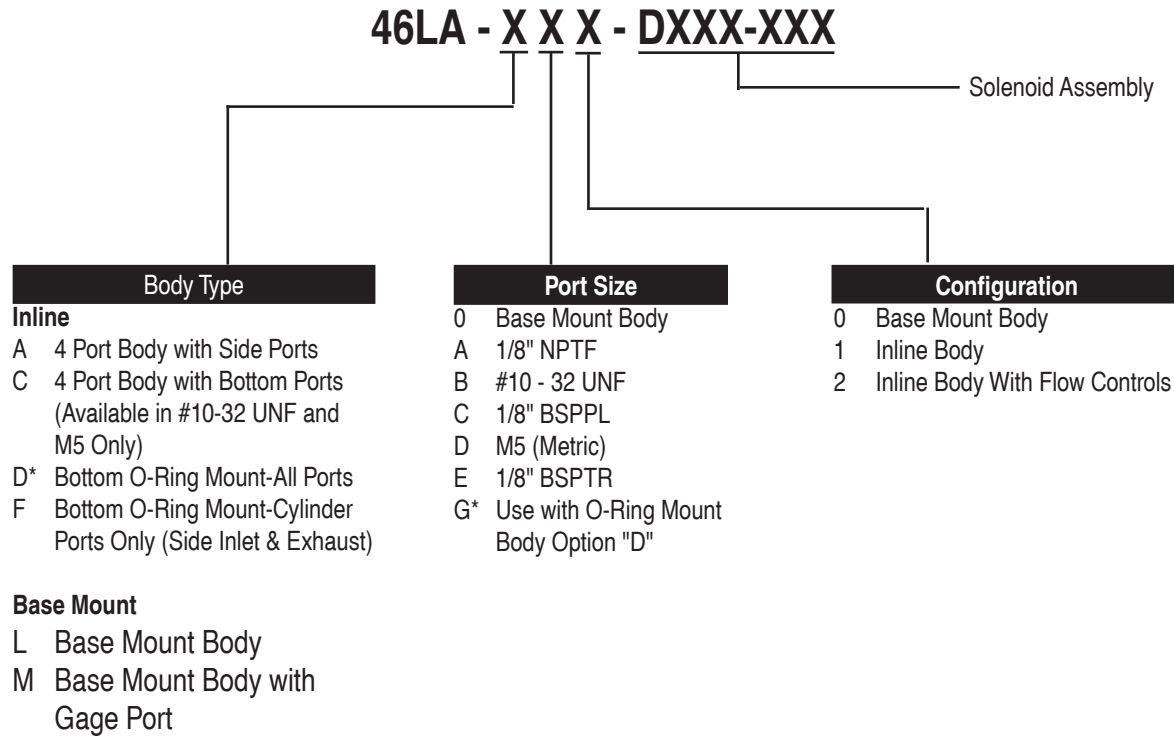
De-Energized



Energized



How to Order 46L Series (Lifting Solenoid)



Note: Base Mount Body used with
circuit bars

How to Order 46L Series Lifting Solenoid Assembly

D XX X - X XX

Voltage				Lead Wire Length		Manual Operator		Electrical Connectors	
DA	24 VDC (5.4W)	DB	12 VDC (5.4W)	0	No Lead Wire	0	No Operator	BA	Grommet (Flying Leads)
DC	12 VDC (7.5W)	DD	24 VDC (7.3W)	A	18"	1	Non-Locking	BK	Grommet with diode (Flying Leads)
DE*	12 VDC (12.7W)	DF*	24 VDC (12.7W)	B	24"		Manual Operator	BM	Plug-in (with leads)
DJ	28 VDC (5.2W)	DK	110 VDC (5.8W)	C	36"			BN	Plug-in with diode (with leads)
DL	64 VDC (6W)	DM	36 VDC (5.3W)	D	48"			CA	Conduit 1/2"
DN	6 VDC (6W)	DP	48 VDC (5.8W)	E	72"			CM	Metal conduit 1/2"
DR	90 VDC (6.6W)	DS	110 VDC (7.3W)	F	96"			CN	Metal conduit with ground 1/2"
DT	75 VDC (5.6W)	EA	12 VDC (6.0W)	J	External Plug-In			FM	Plug-in (For ECD Bar)
EB	220 VDC (4.2W)	ED	24 VDC (4.2W)	P	Plug-In			FN	Plug-in with diode (for ECD Bar)
EE	12 VDC (4.2W)	EJ	24 VDC (9.3W)					JB	Rectangular plug-in
EM	120 VDC (6.2W)	ES*	12 VDC (9.5W)					JD	Rectangular plug-on with light
ET	24 VDC (3.0W)	EW	24 VDC (8.0W)					JM	Rectangular male only
FA	12 VDC (1.8W)	FB	24 VDC (1.8W)					KA	Mini plug-in
FC	10 VDC (2.2W)	FE	12 VDC (2.4W)					KB	Mini plug-in with diode
FF	24 VDC (2.4W)	FK	48 VDC (1.9W)					KD	Mini plug-in with light
FL	18 VDC (2.4W)	GD	220 VDC (7.3W)					KE	Mini plug-in with light & diode
GE	6 VDC (9.0W)	GF	15 VDC (5.0W)					KG	Mini plug-in with LED light & diode
GG	9 VDC (9.0W)							KJ	Mini plug-in male only
								KK	Mini plug-in male only with diode
								TA	Dual tabs (.110) with receptacles
								TB	Dual tabs with diode & receptacles
								TD	Dual tabs with light & receptacles
								TE	Dual tabs with light, diode & receptacles
								TJ	Dual tabs (.110) plain
								TK	Dual tabs with diode (no receptacles)
								TM	Dual tabs with light (no receptacles)
								TN	Dual tabs with light & diode (no receptacles)
								PA	Pico
* MOD CLSF									

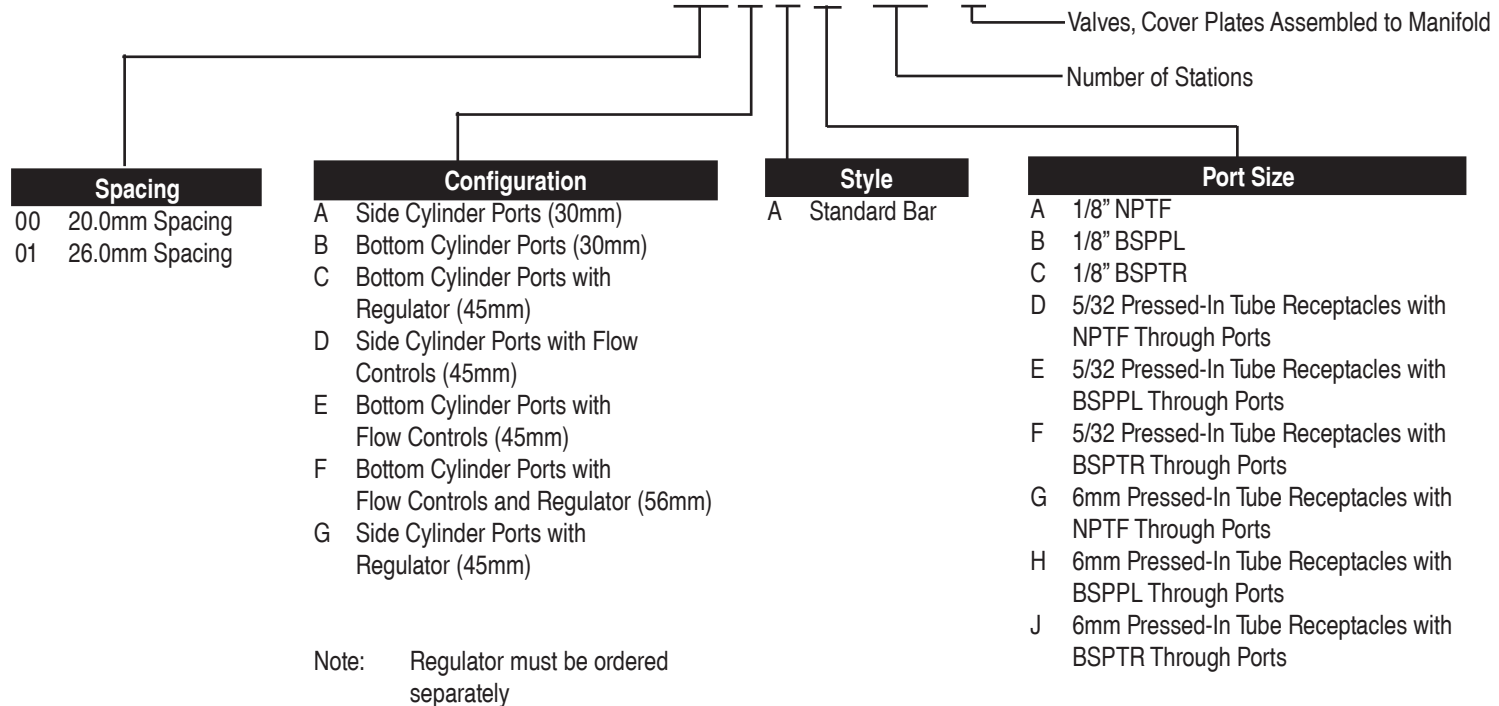
* MOD CLSF



How to Order 46L Series

EBM Circuit Bar (Non Plug-In)

EBM46LA - XX X X X - XX - 9



Note: Regulator must be ordered separately

Dimensions (XXmm) indicate Bar Profile

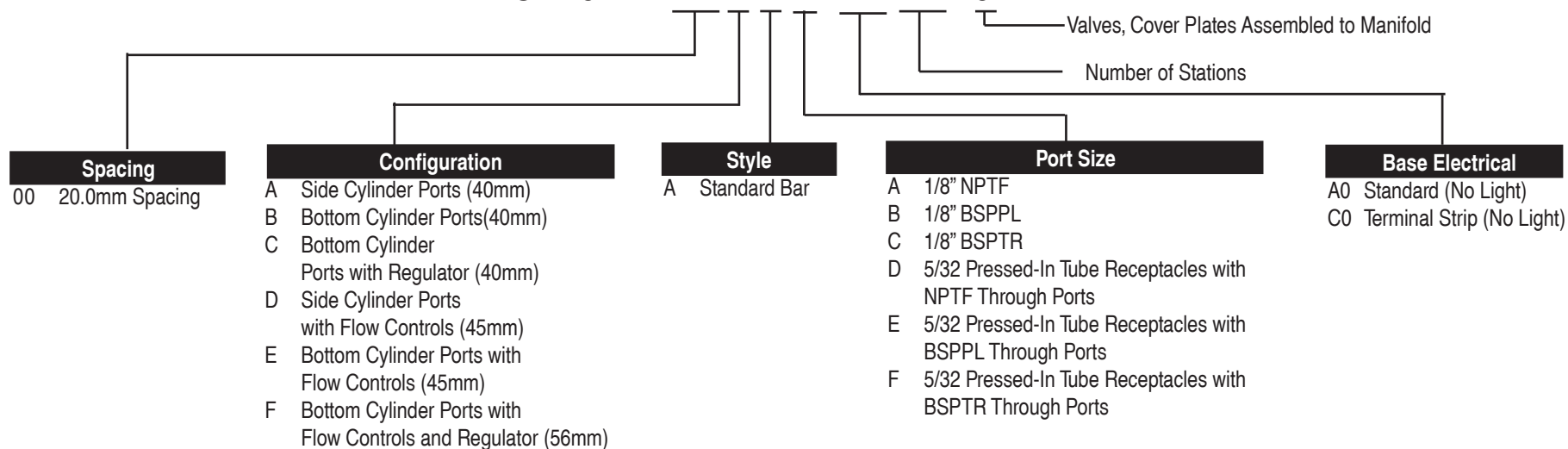
Replacement Parts and Accessories

M-46015 Valve Blanking Plate



How to Order 46L Series ECD Circuit Bar (Plug-In)

ECD46LA - XX X X X - XX XX - 9



Note: Regulator must be ordered separately

Dimensions (XXmm) indicate Bar Profile

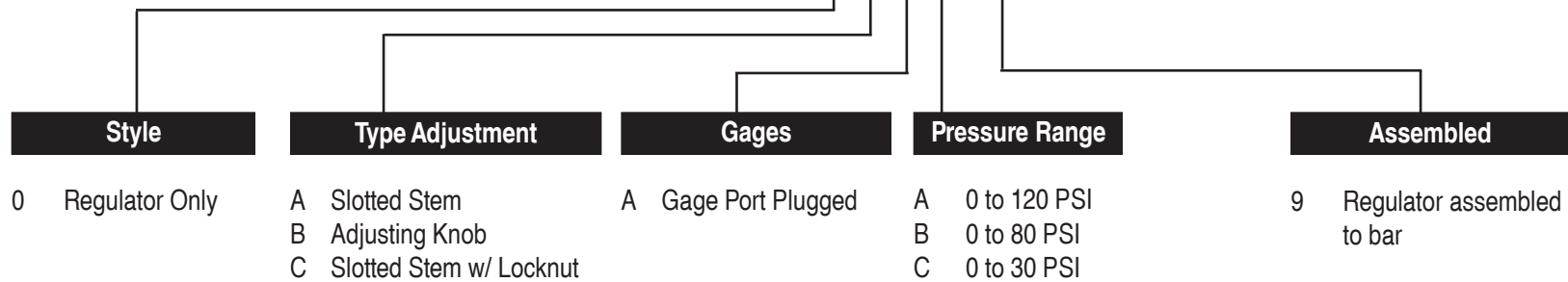
Replacement Parts and Accessories

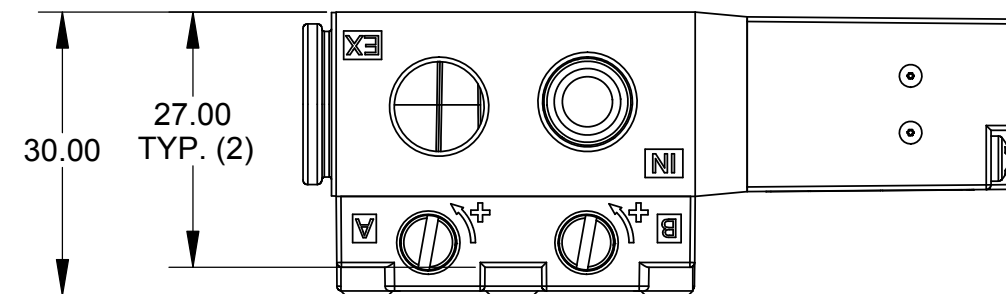
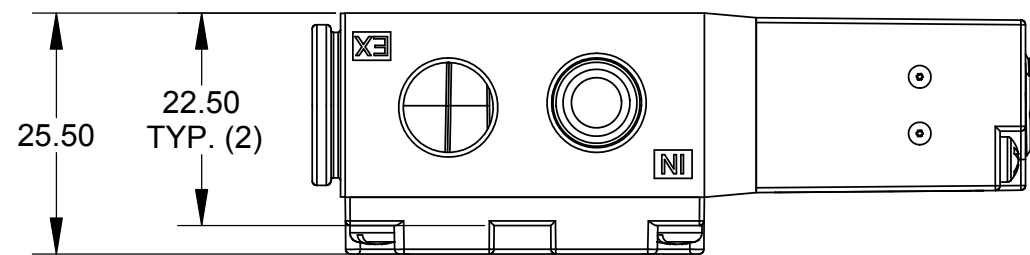
63299 Wire Connector Protector
M-46015 Valve Blanking Plate



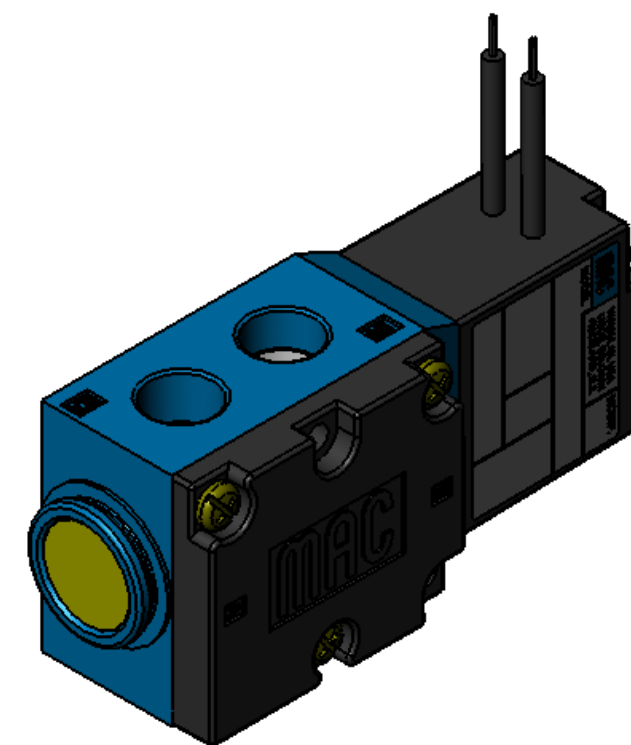
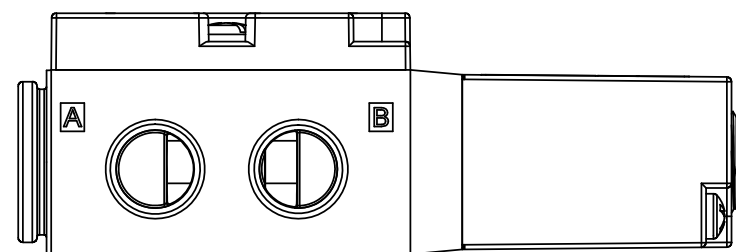
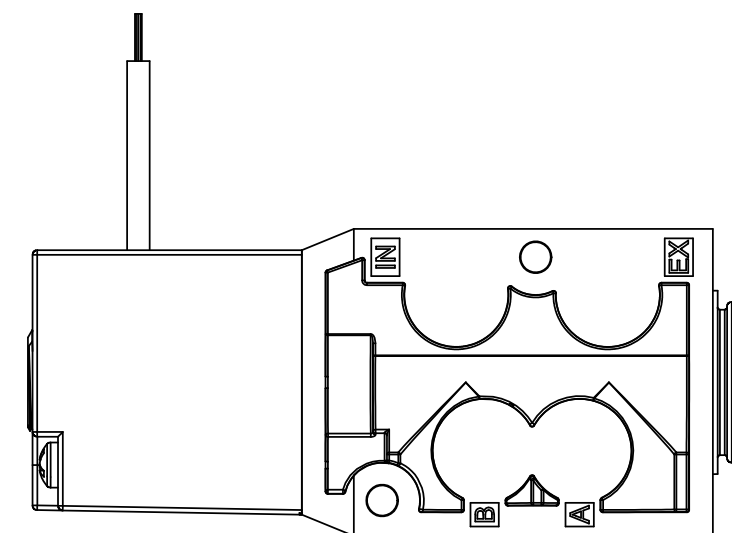
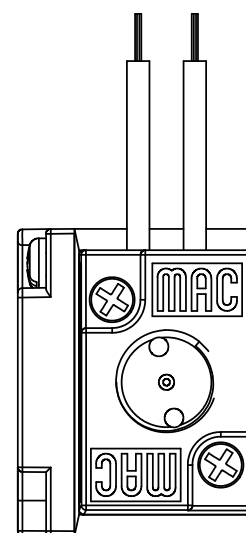
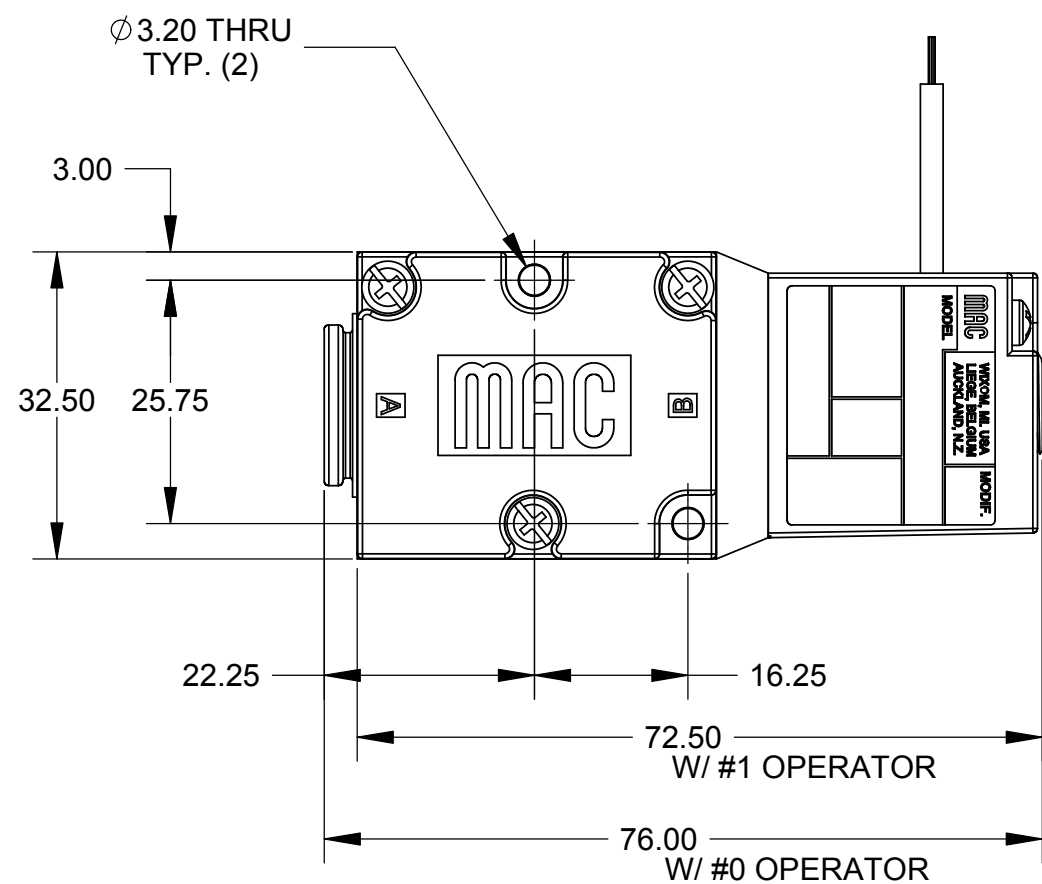
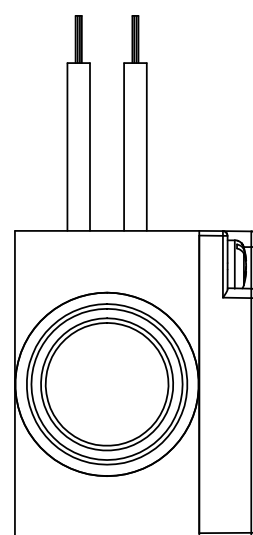
How to Order 46 Series Regulator

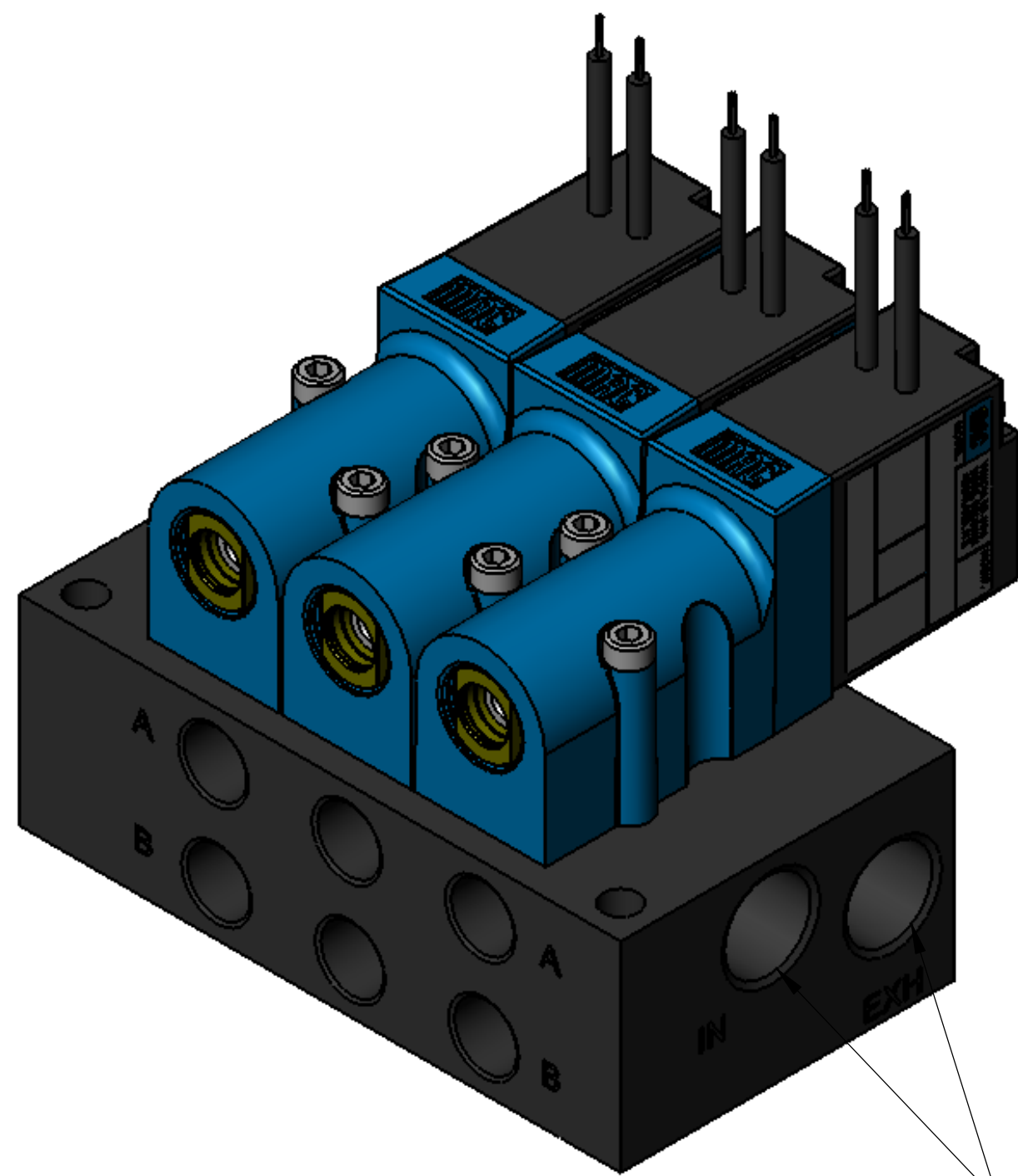
PR46A - X X X X - X





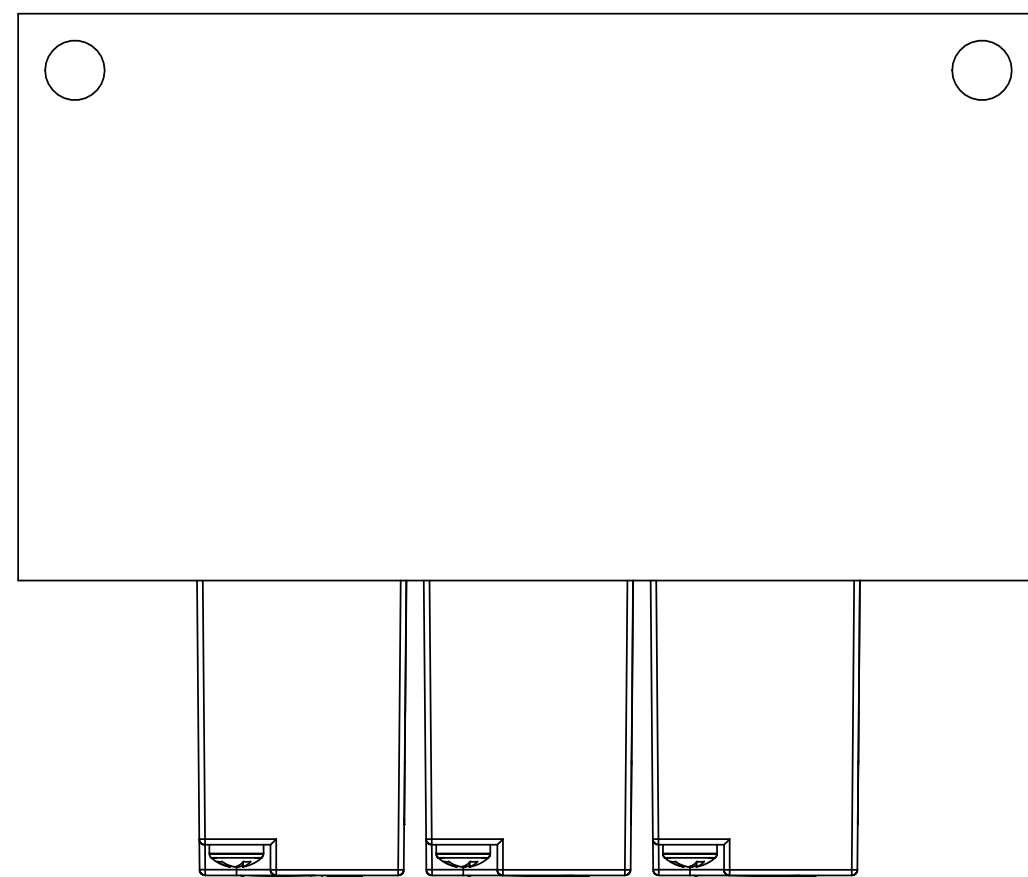
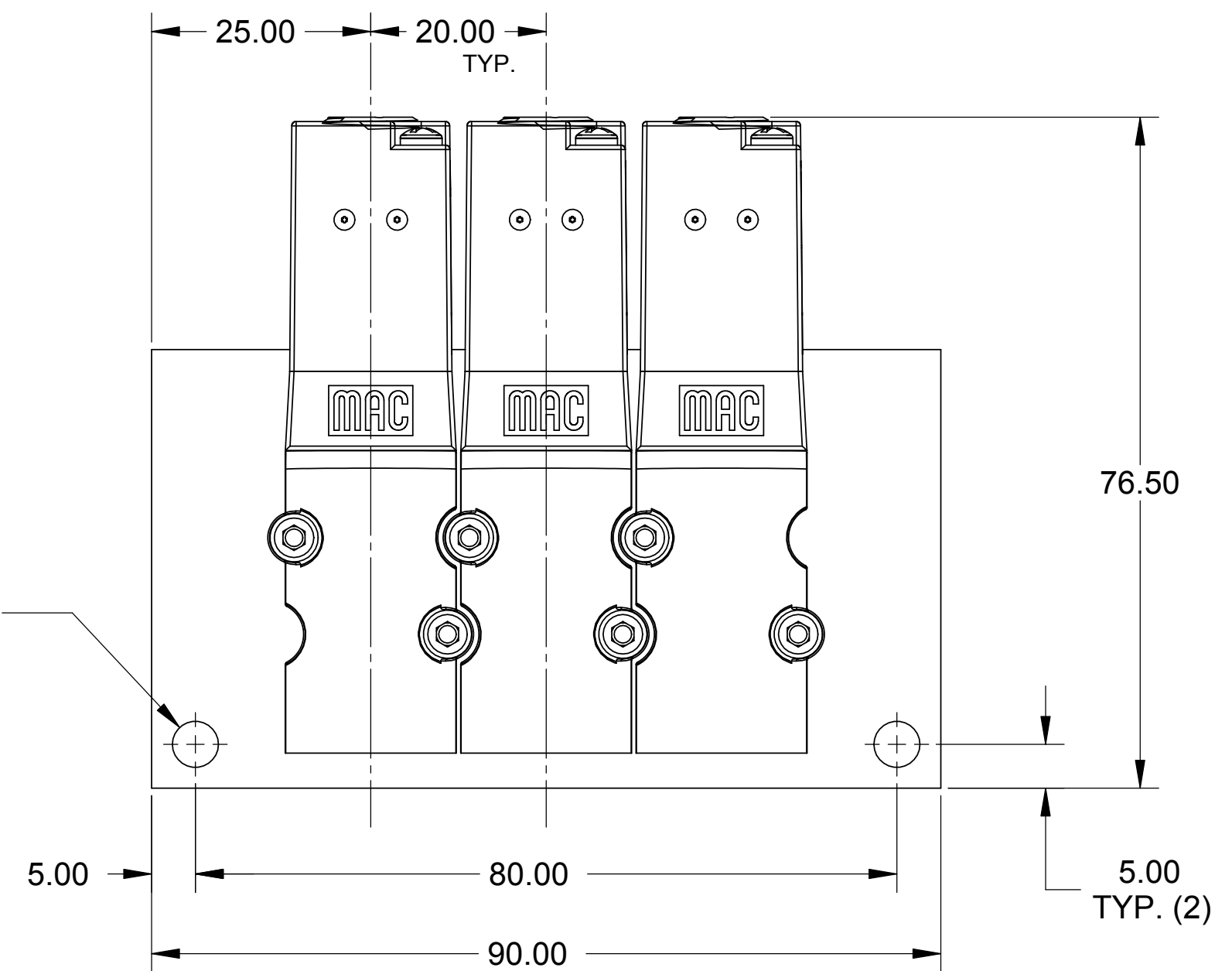
SHOWN WITH FLOW CONTROLS



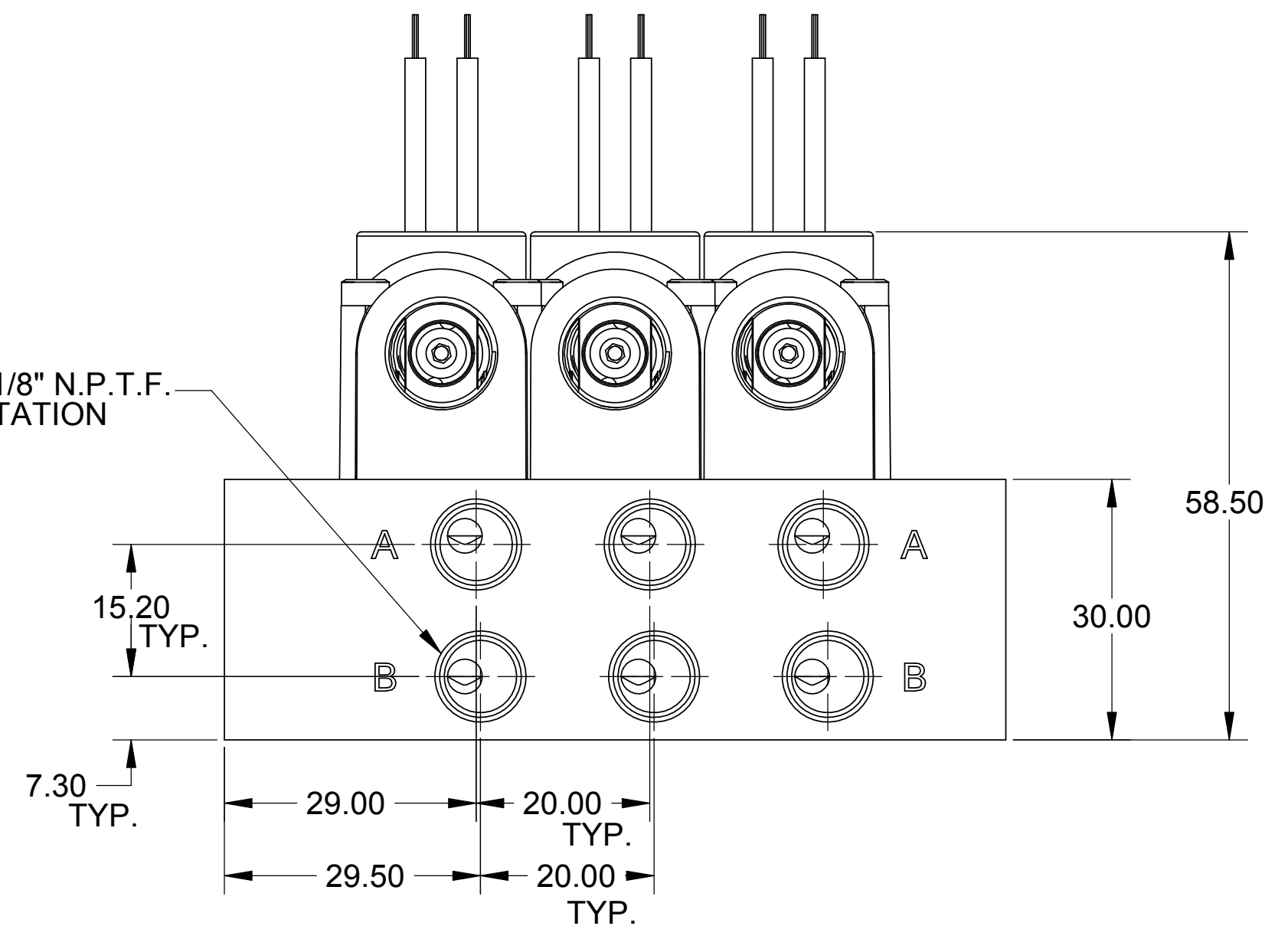


1/4" - 18 N.P.T.F TAP TO GAGE
TYP. (2) BOTH ENDS

Ø 5.25 THRU
TYP. (2)



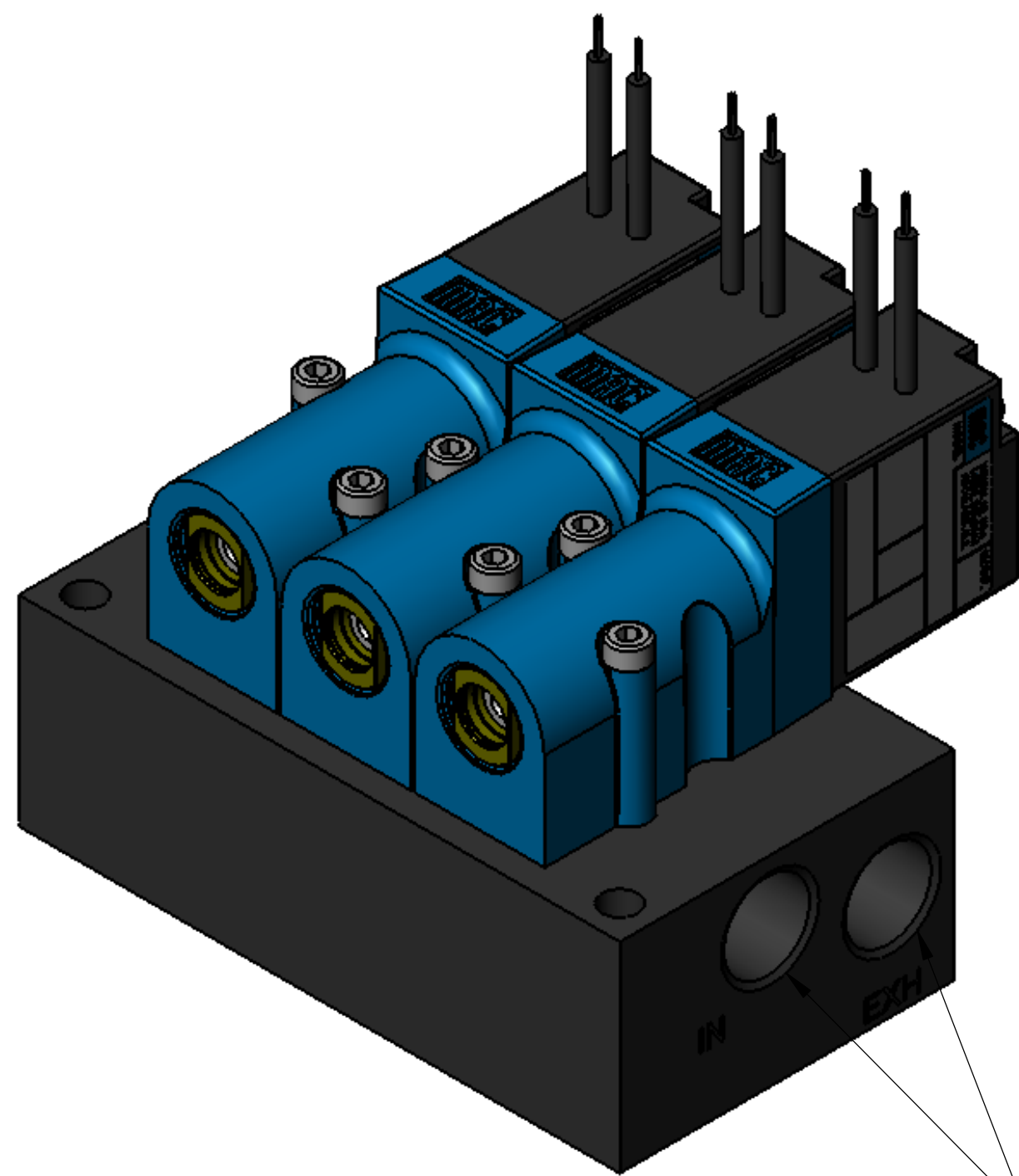
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



EBM46LA-00AAA-XX

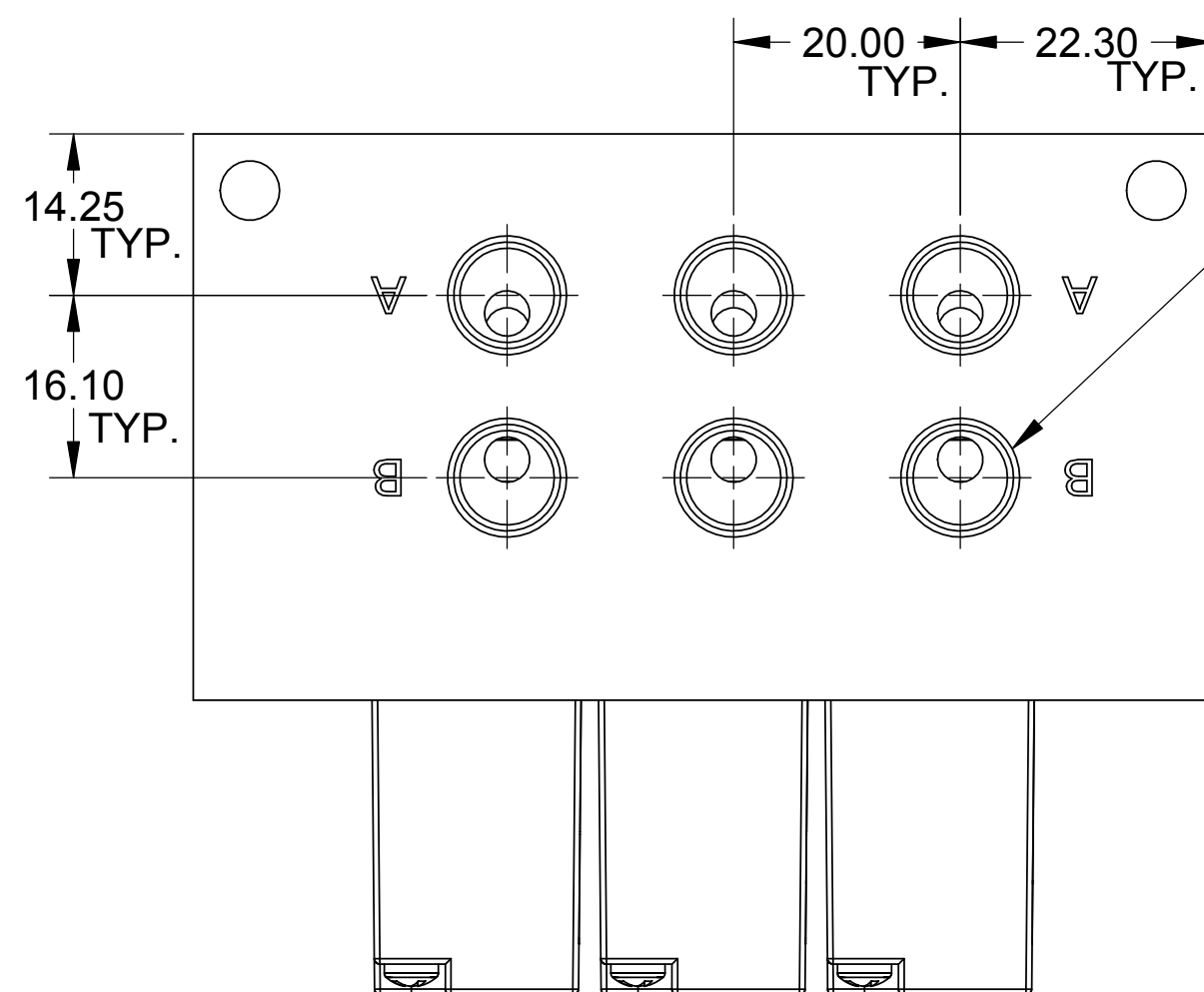
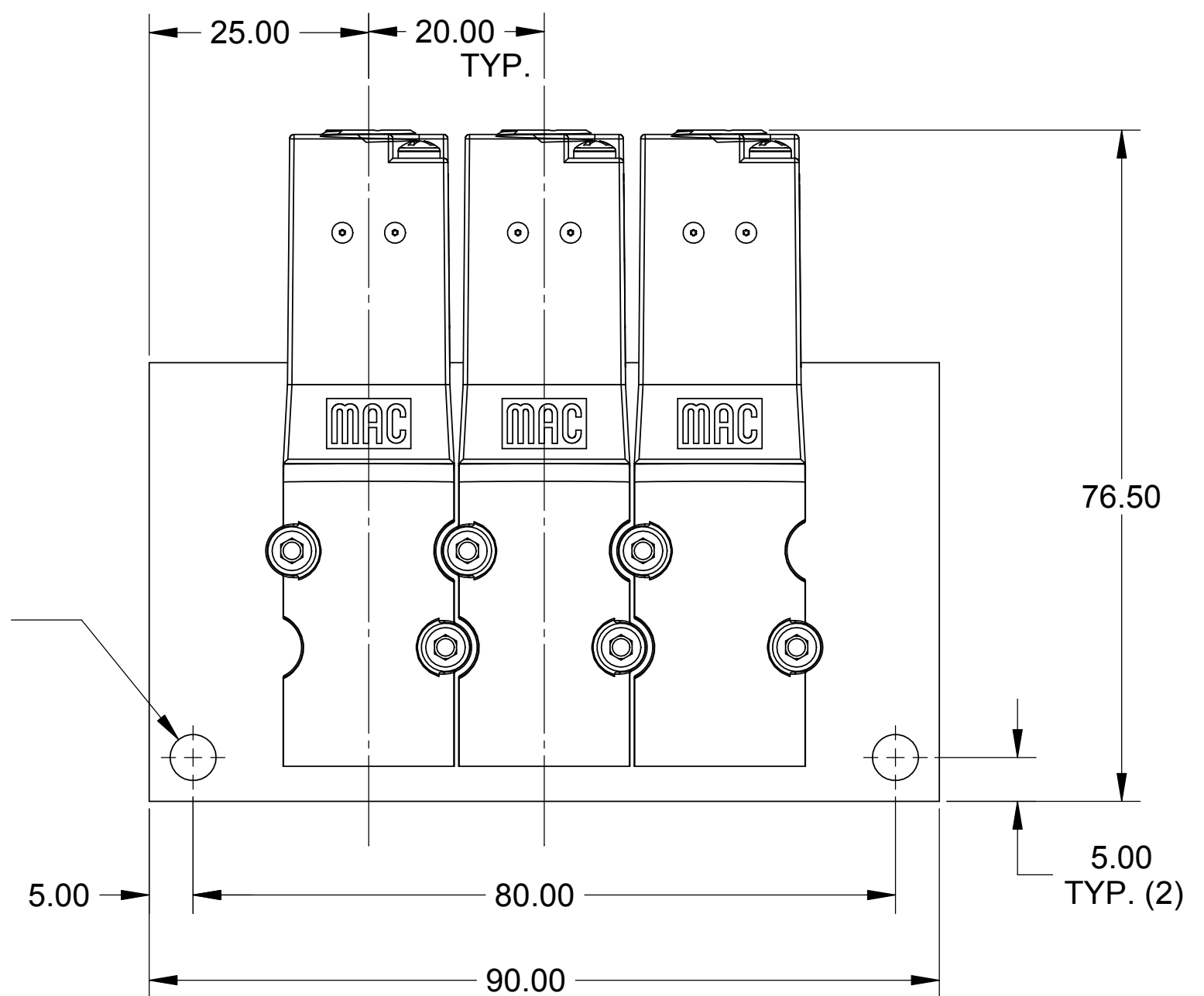
*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

*SHOWN W/ #1 OPERATOR

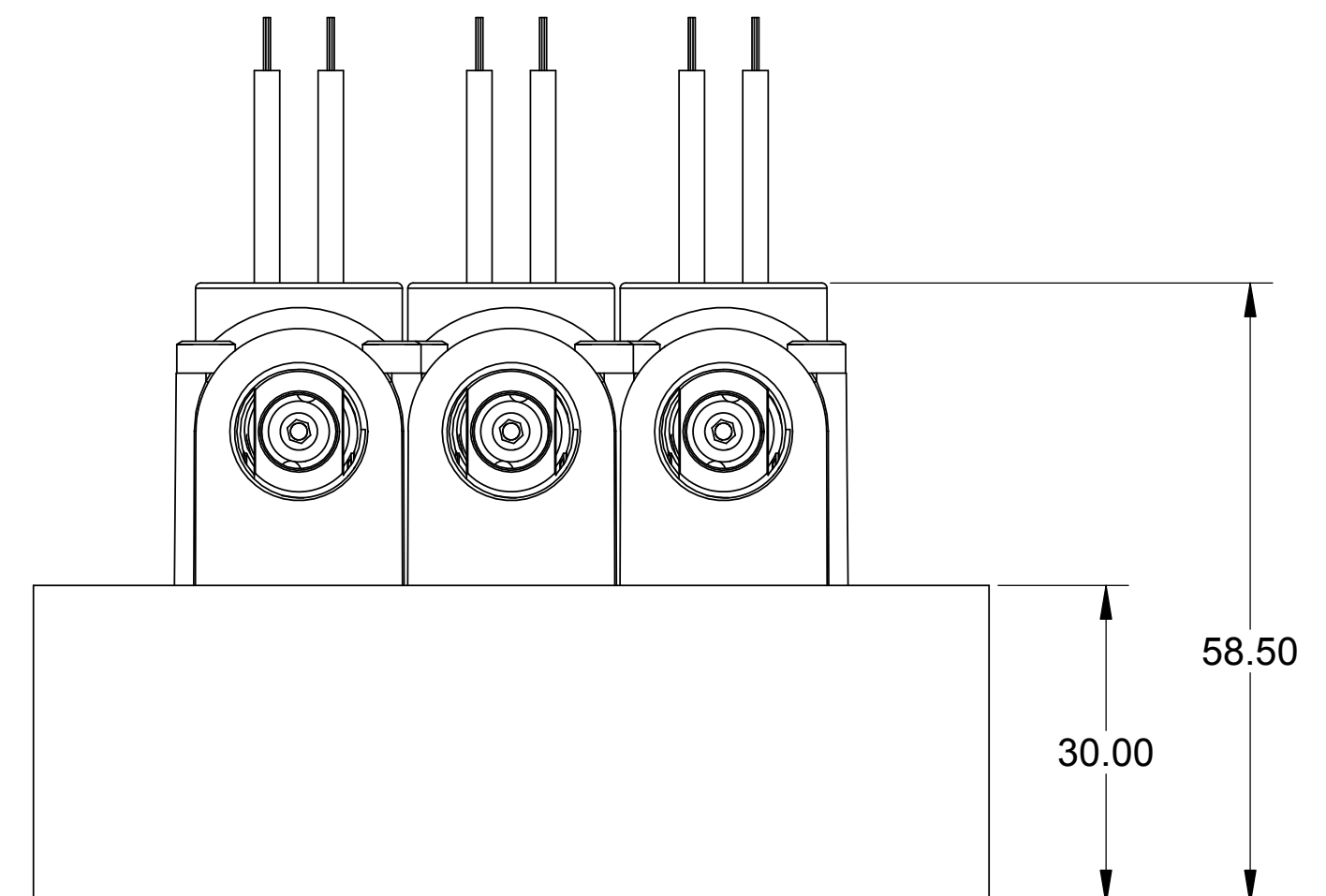


1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

5.25 THRU
TYP. (2)



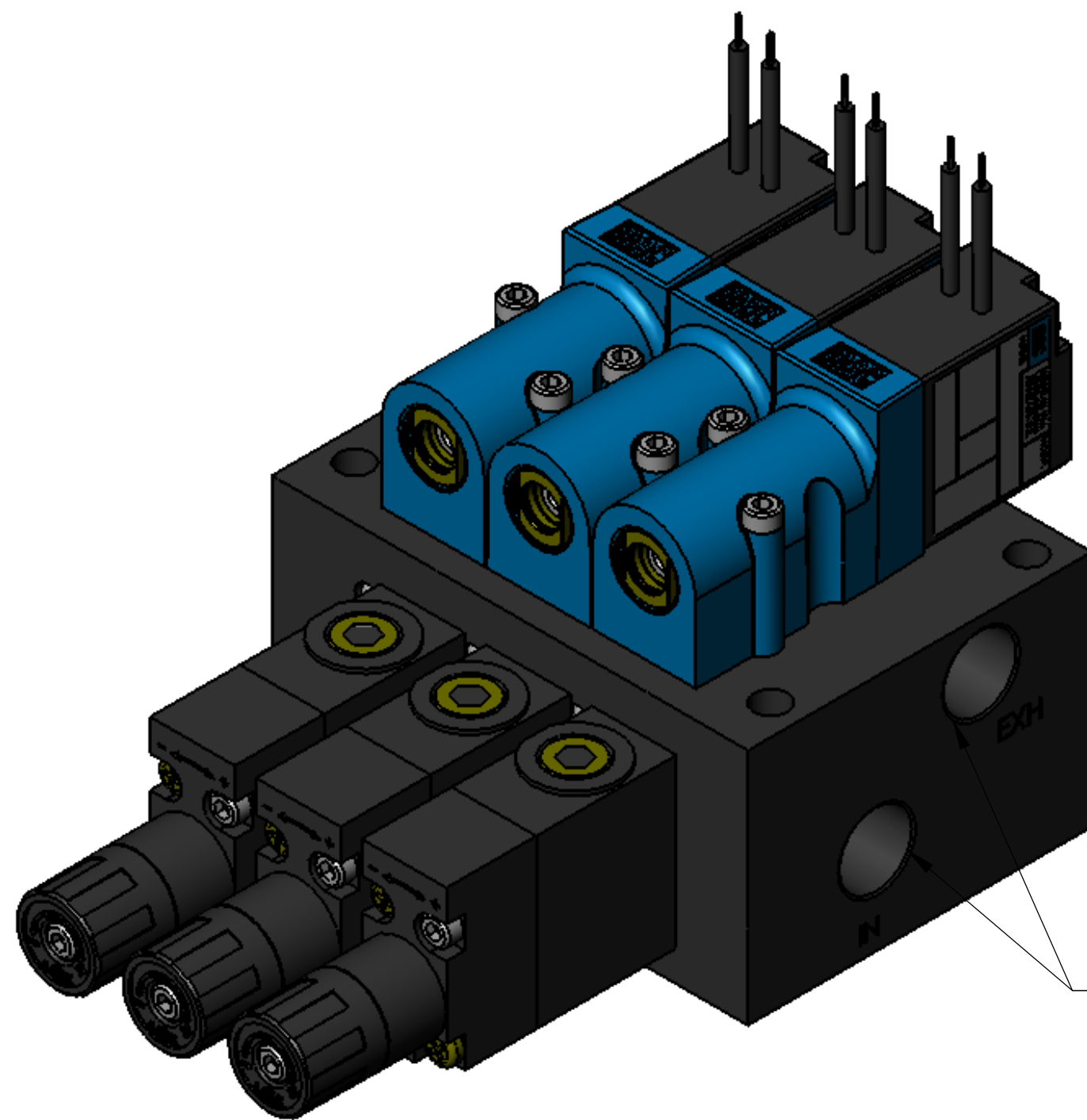
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



EBM46LA-00BAA-XX

* 26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

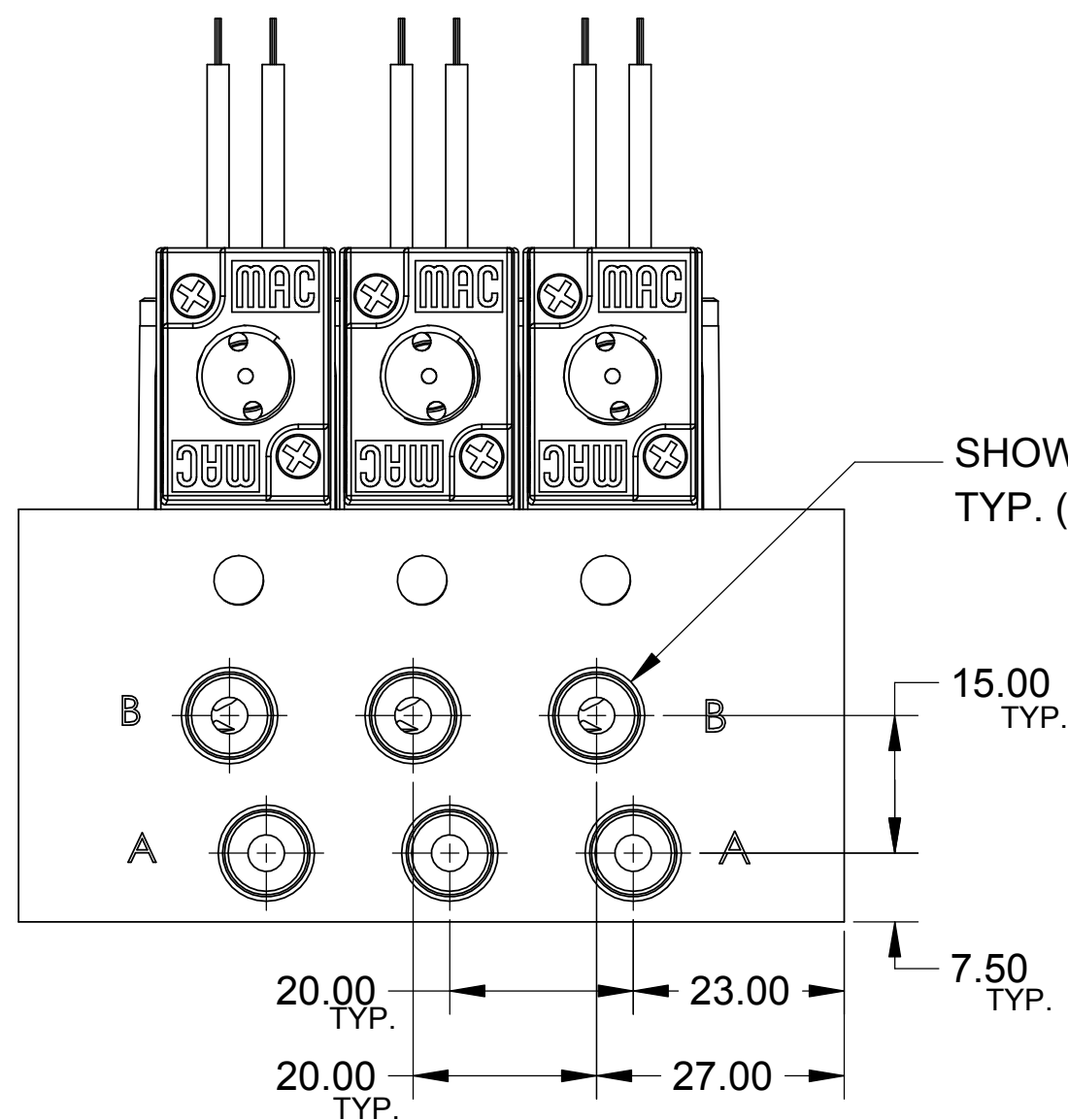
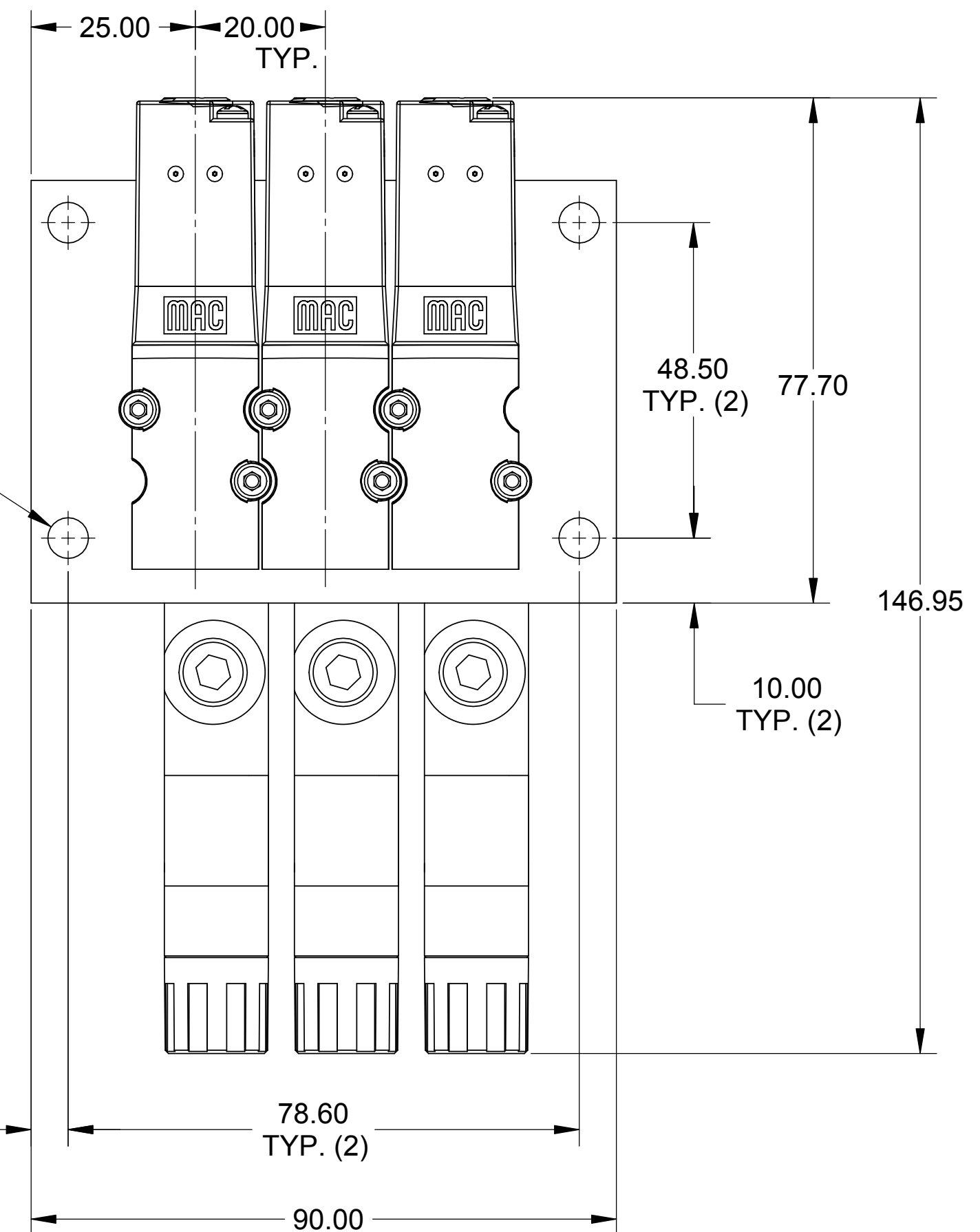
* SHOWN W/ #1 OPERATOR



1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

6.25 THRU
TYP. (4)

5.70
TYP. (2)



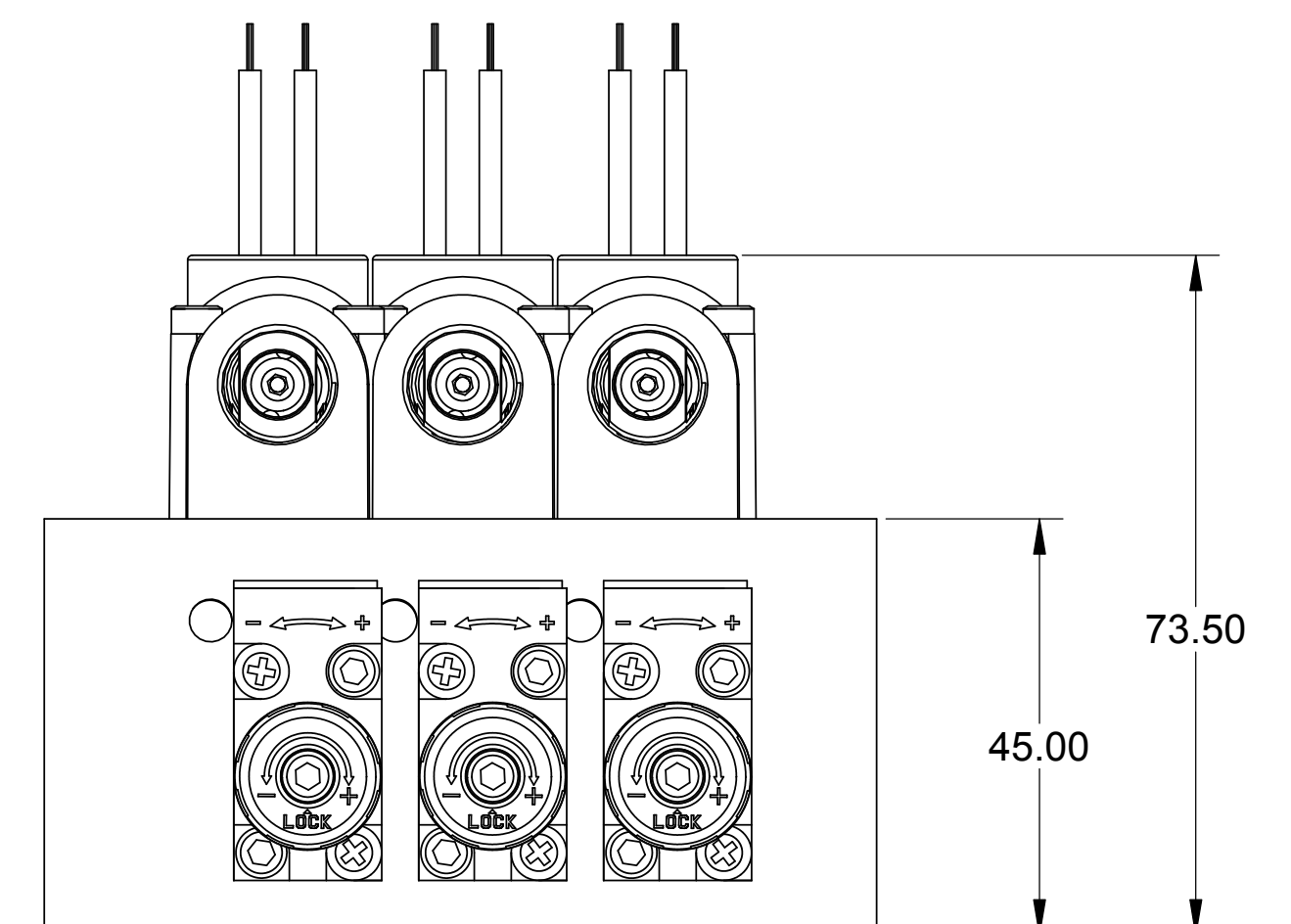
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TYP. (2) PER STATION

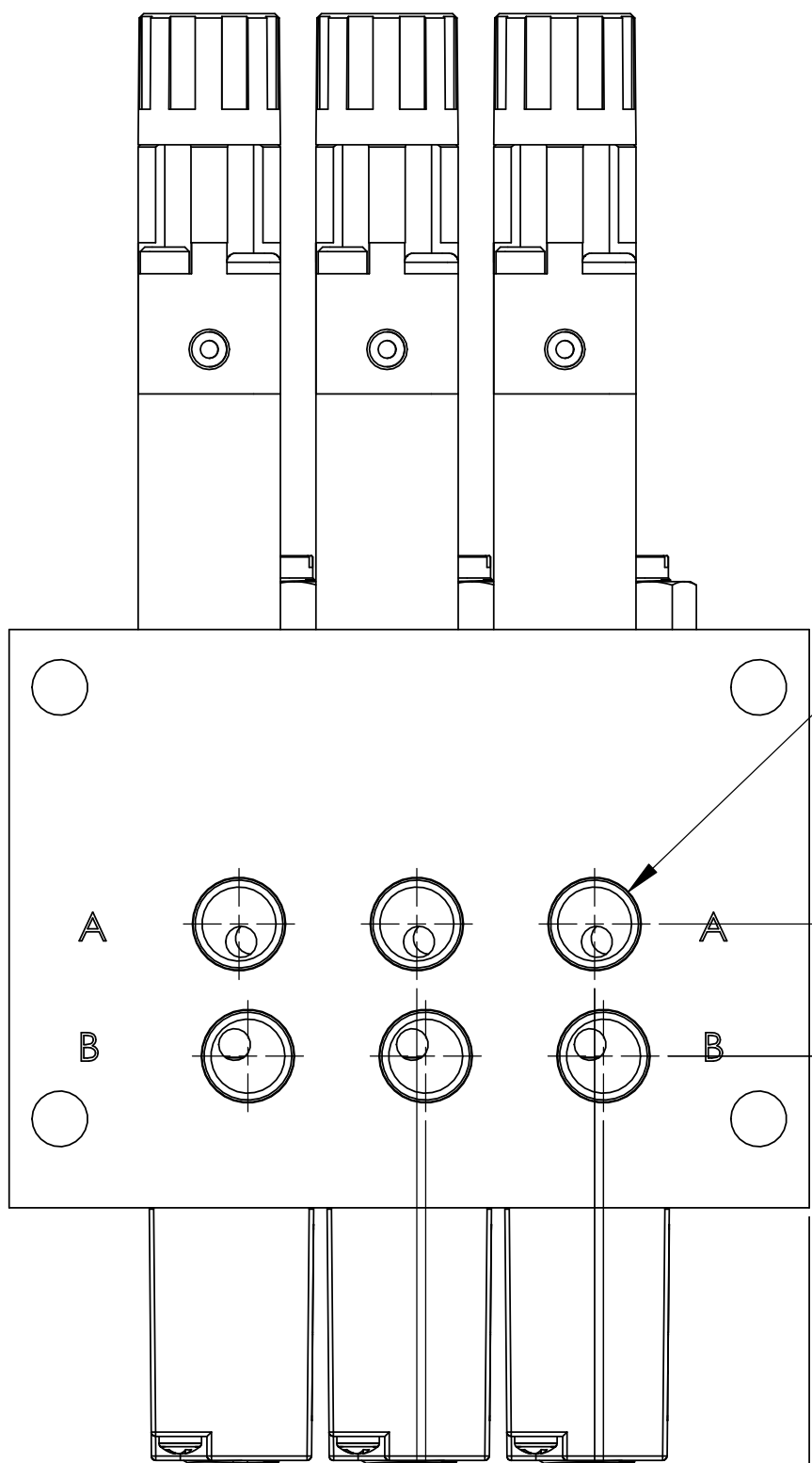
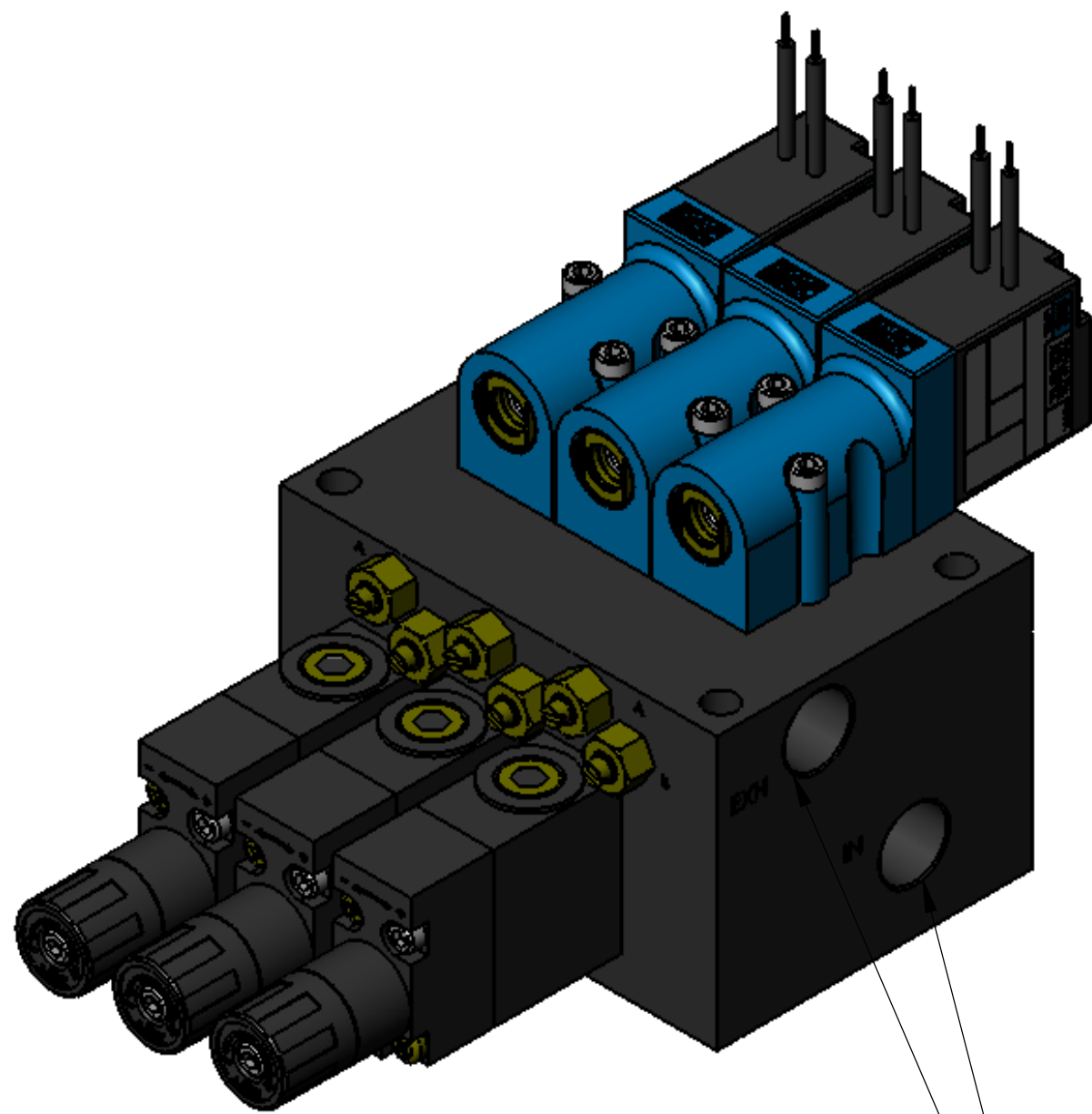
EBM46LA-00GAA-XX

*SHOWN WITH PR46A-0BAA

*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

*SHOWN W/ #1 OPERATOR





1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION

14.85
TYP.

17.05
TYP.

20.00
TYP.

23.15

20.00
TYP.

24.15

EBM46LA-00FAA-XX

*SHOWN WITH PR46A-0BAA

*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

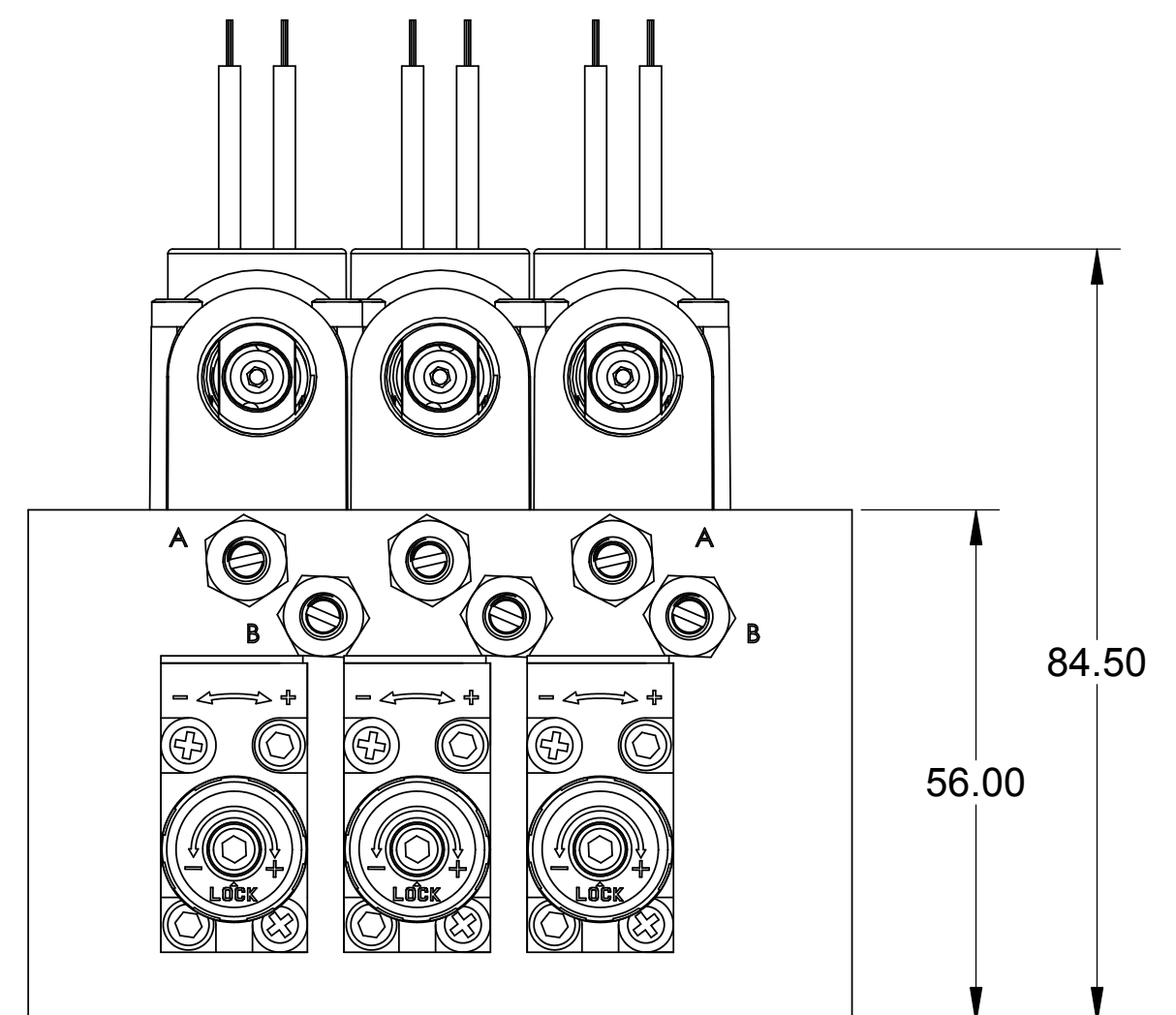
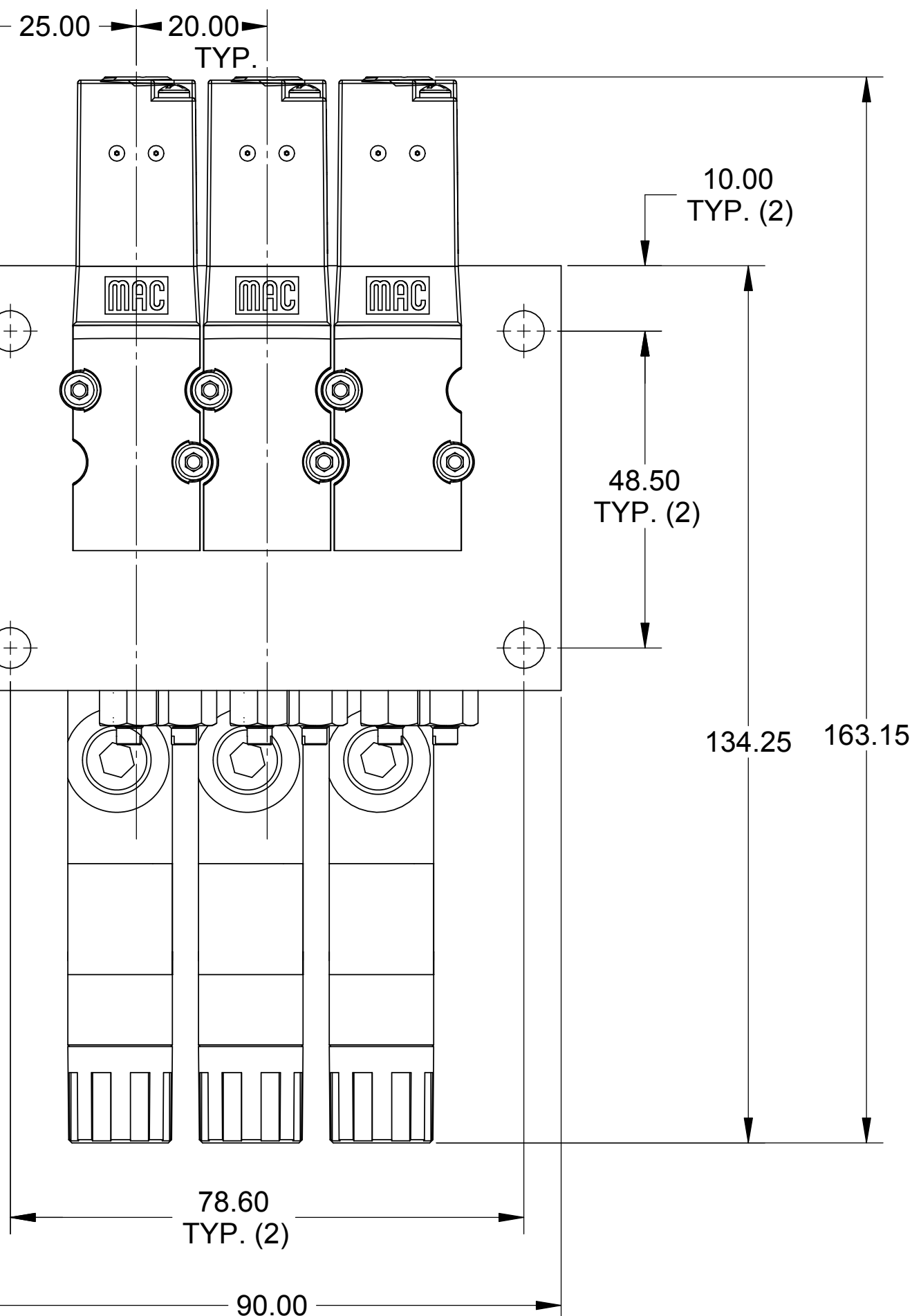
*SHOWN W/ #1 OPERATOR

6.25 THRU
TYP. (4)

5.70
TYP. (2)

78.60
TYP. (2)

90.00



84.50

56.00

134.25

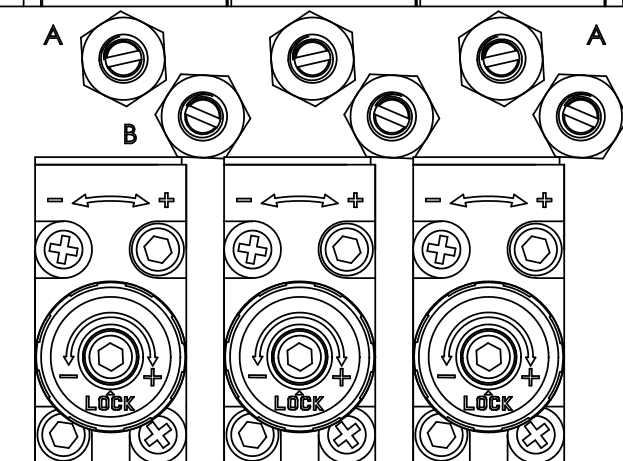
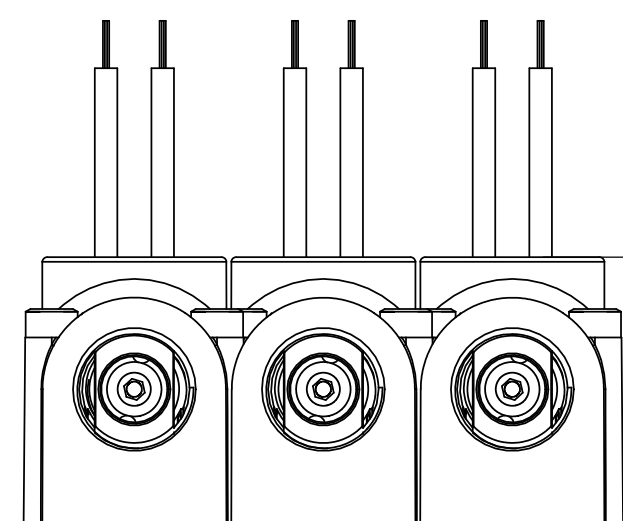
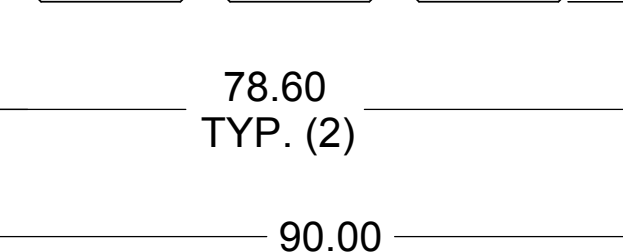
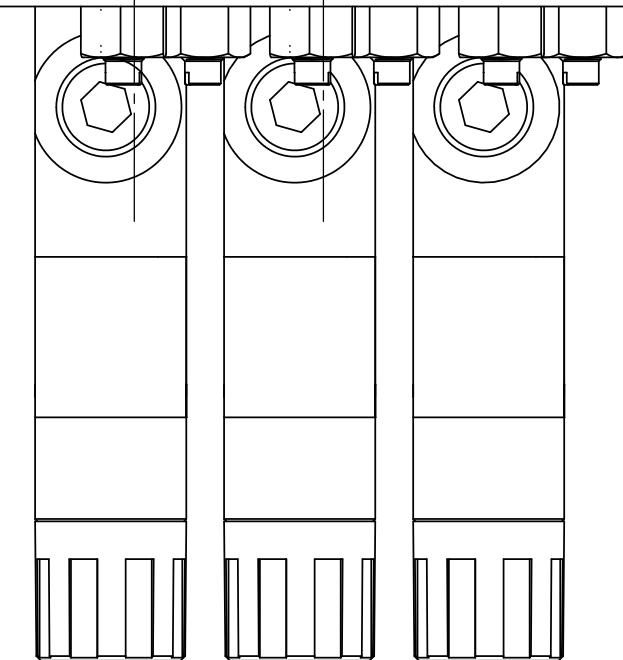
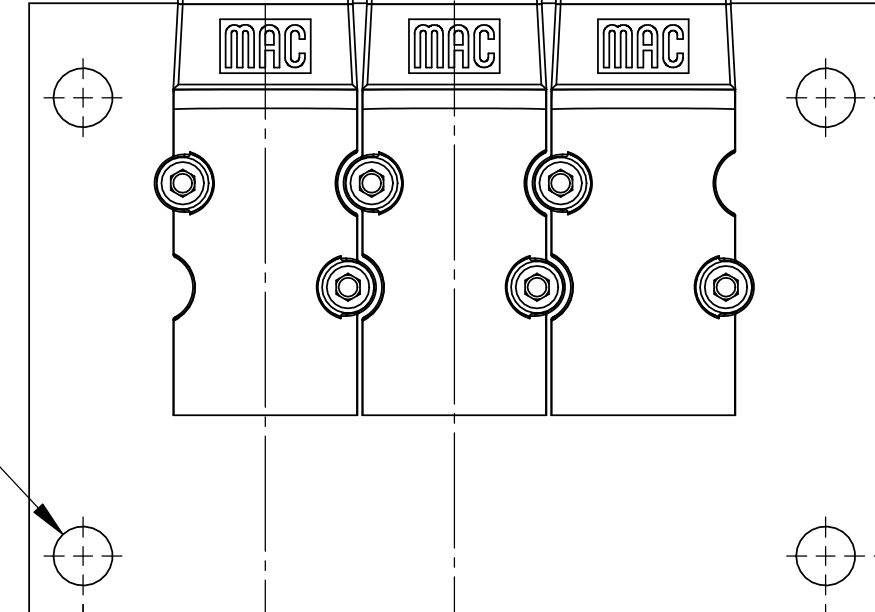
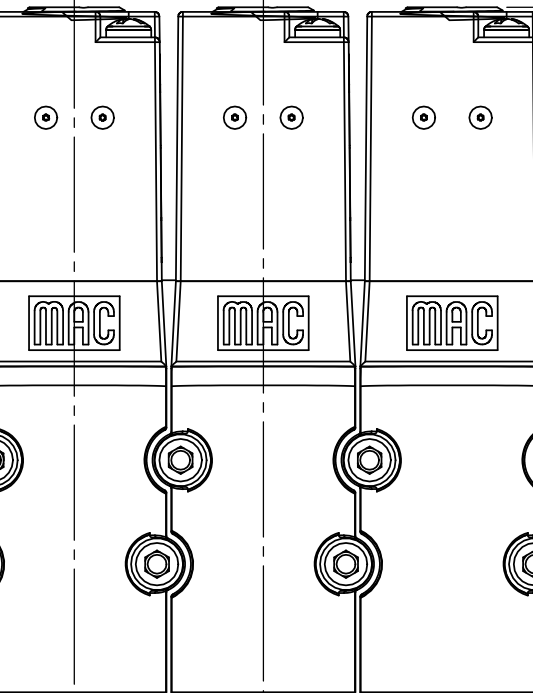
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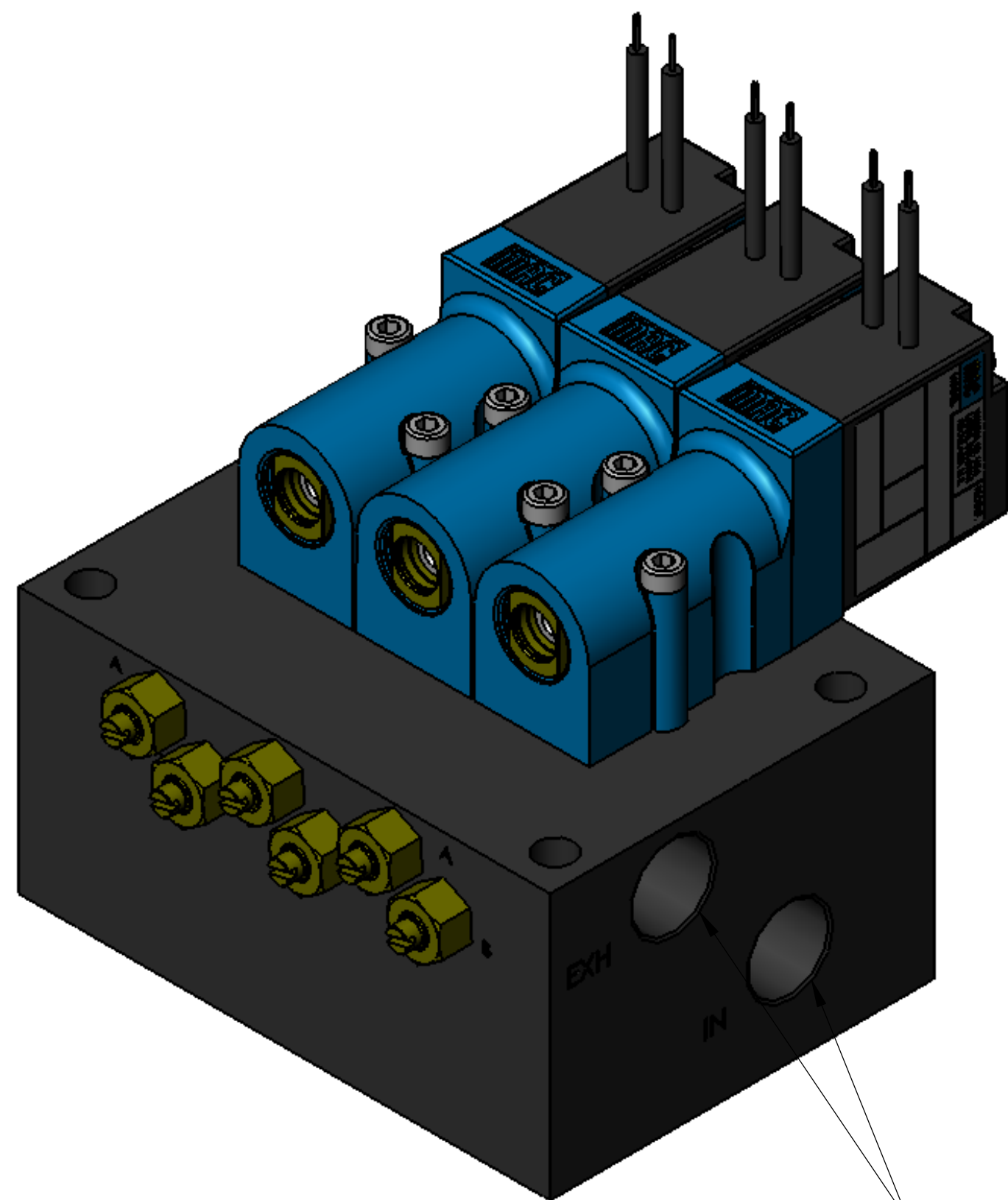
10.00
TYP. (2)

48.50
TYP. (2)

25.00

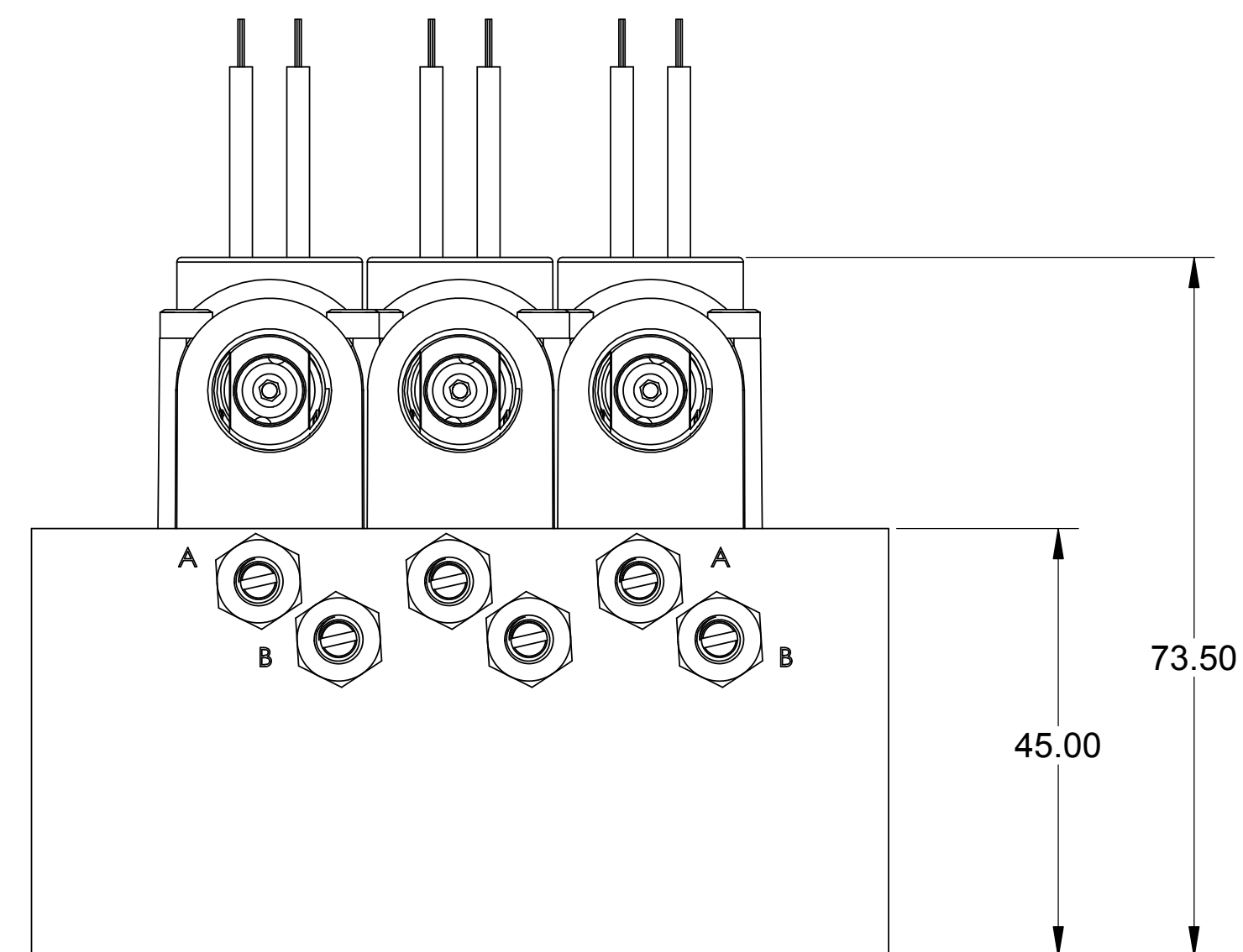
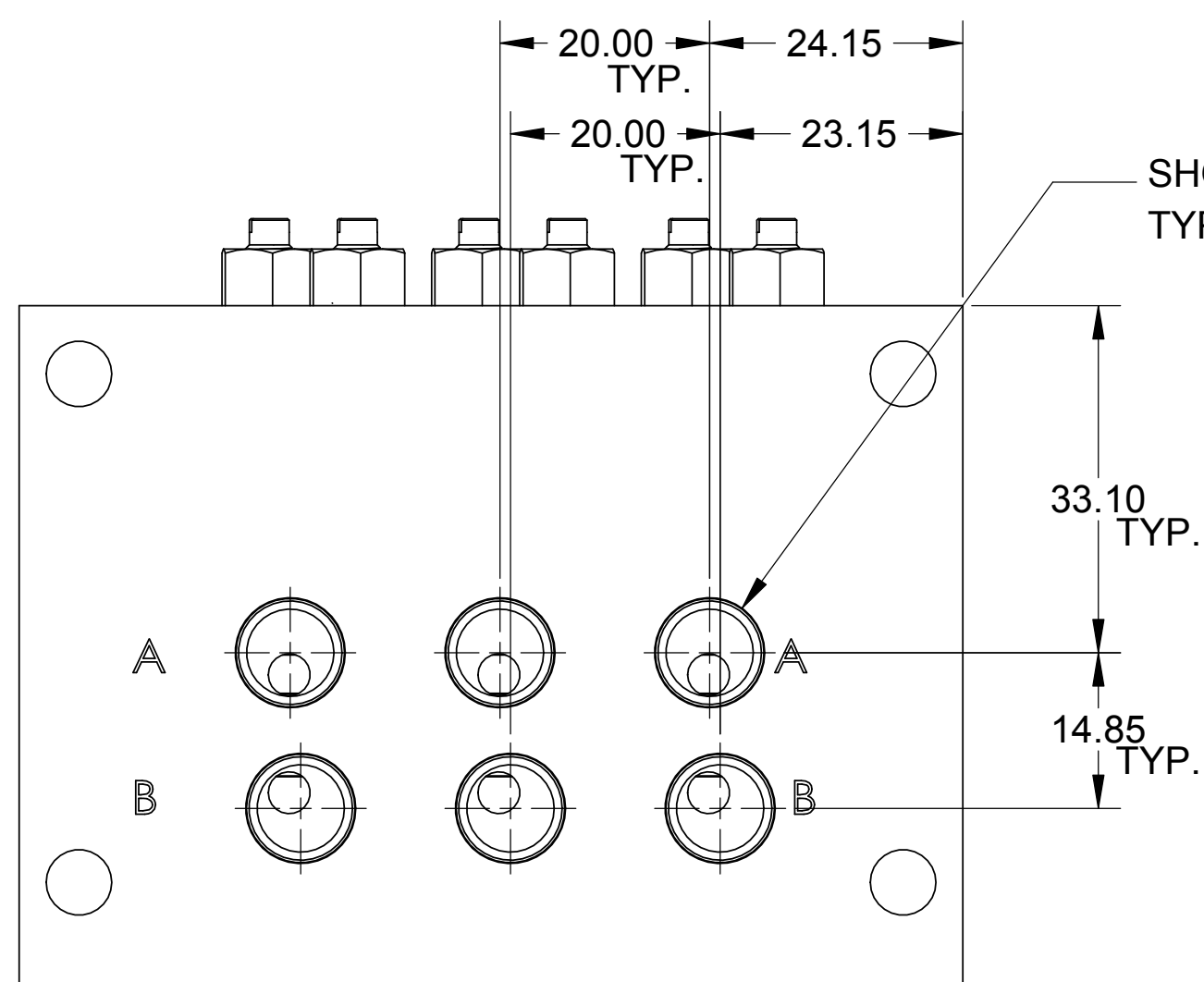
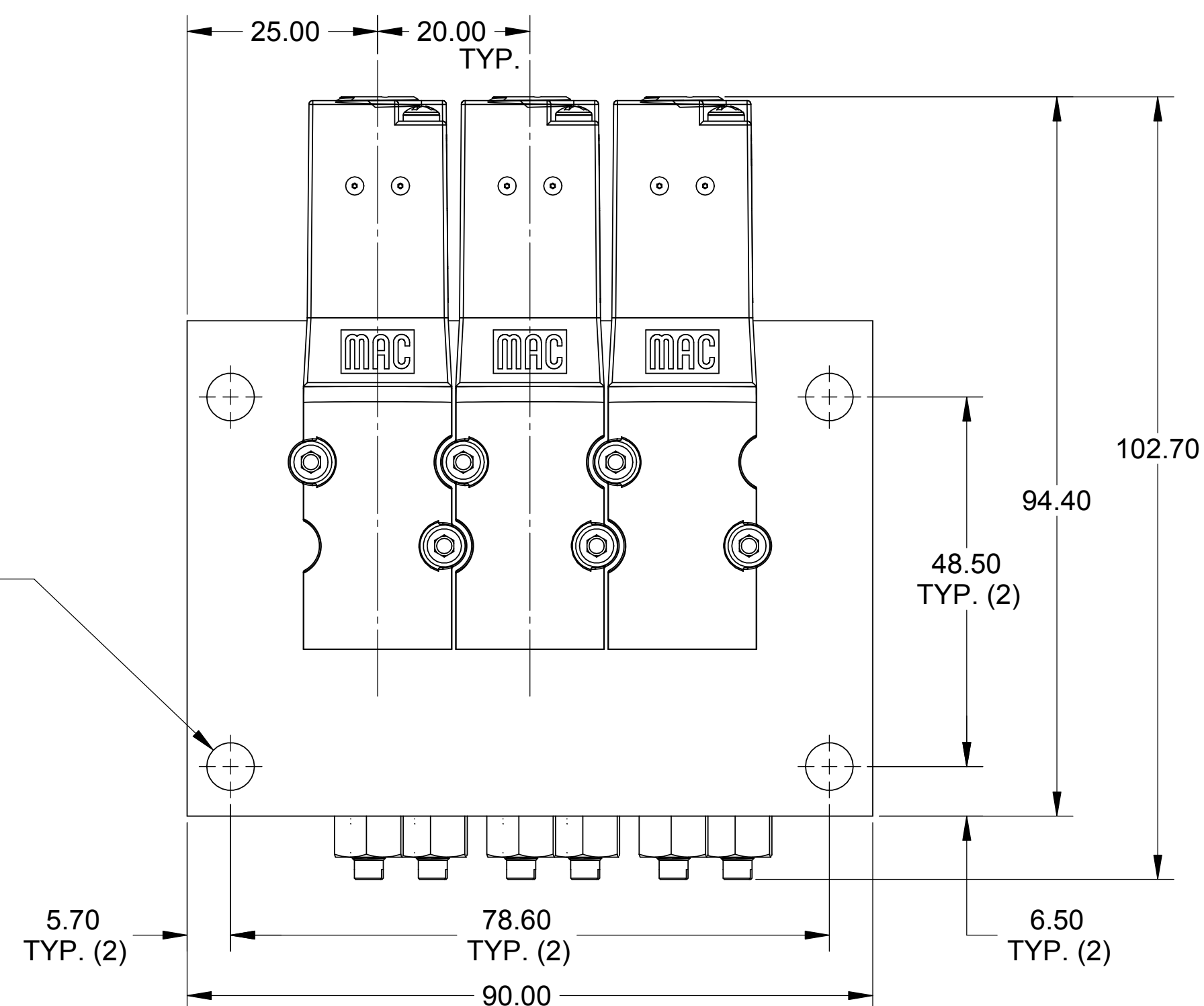
20.00
TYP.





6.25 THRU
TYP. (4)

1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS



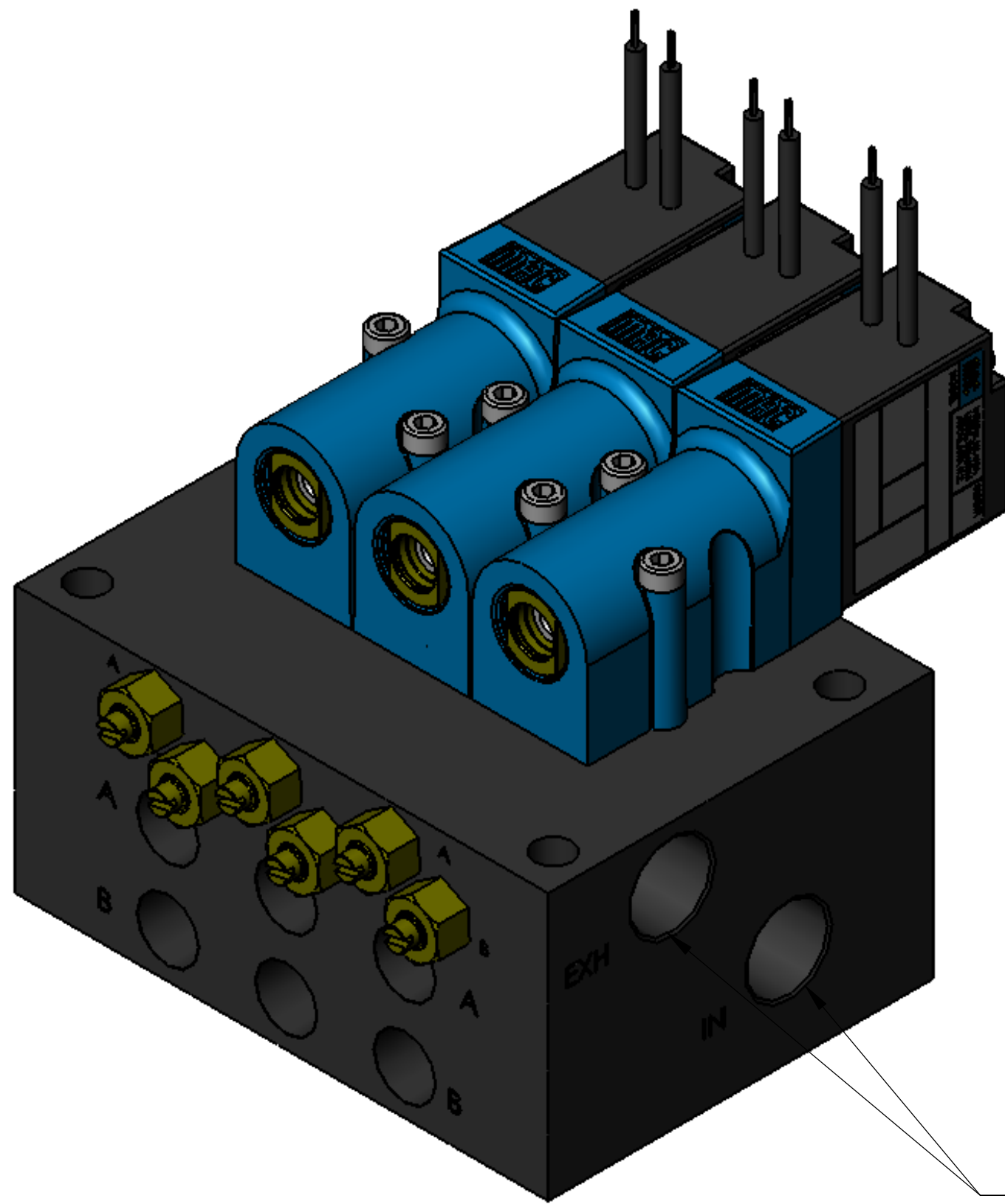
EBM46LA-00EAA-XX

*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

*SHOWN W/ #1 OPERATOR



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1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

6.25 THRU
TYP. (4)

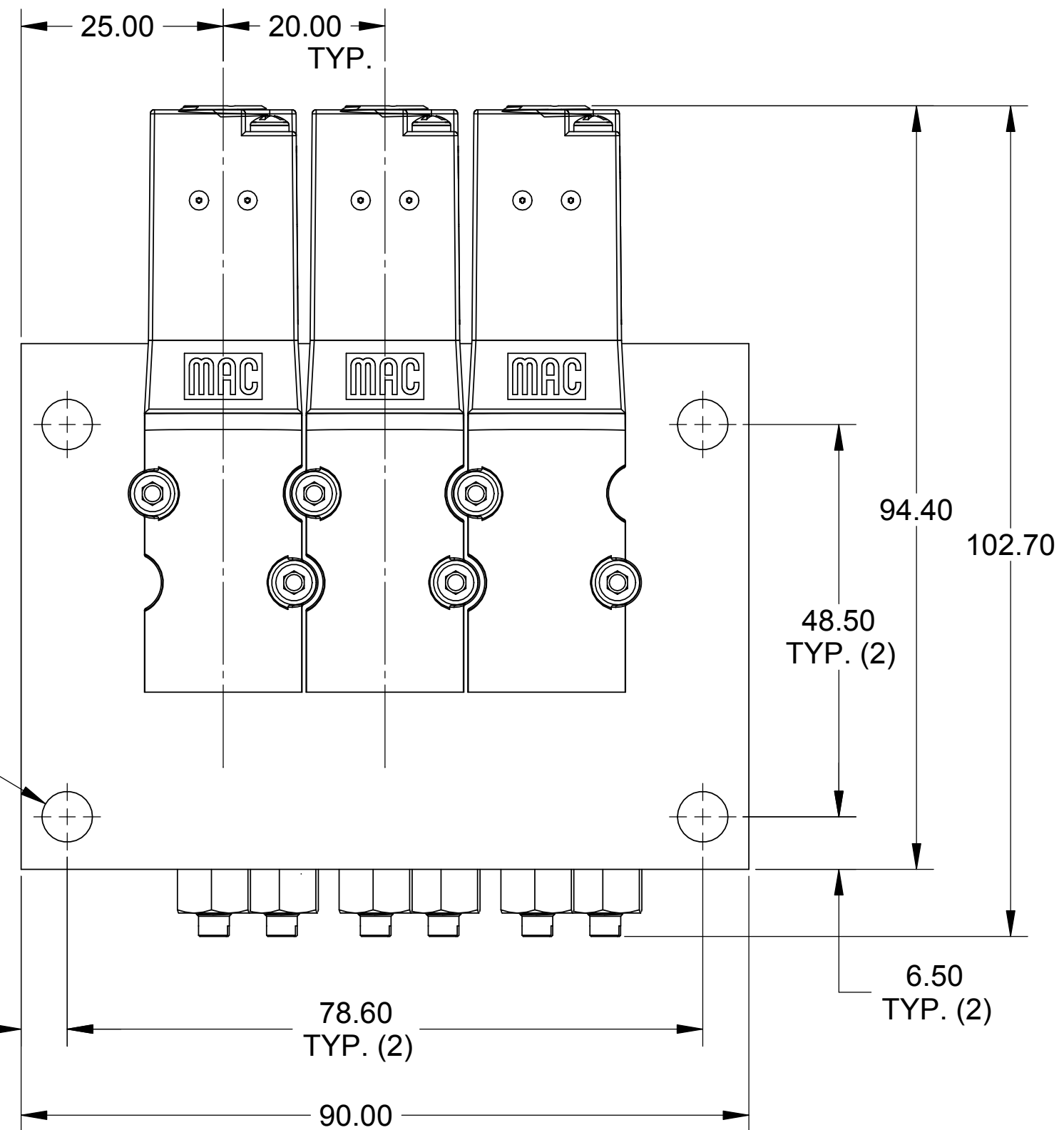
5.70
TYP. (2)

78.60
TYP. (2)

6.50
TYP. (2)

94.40
102.70

48.50
TYP. (2)



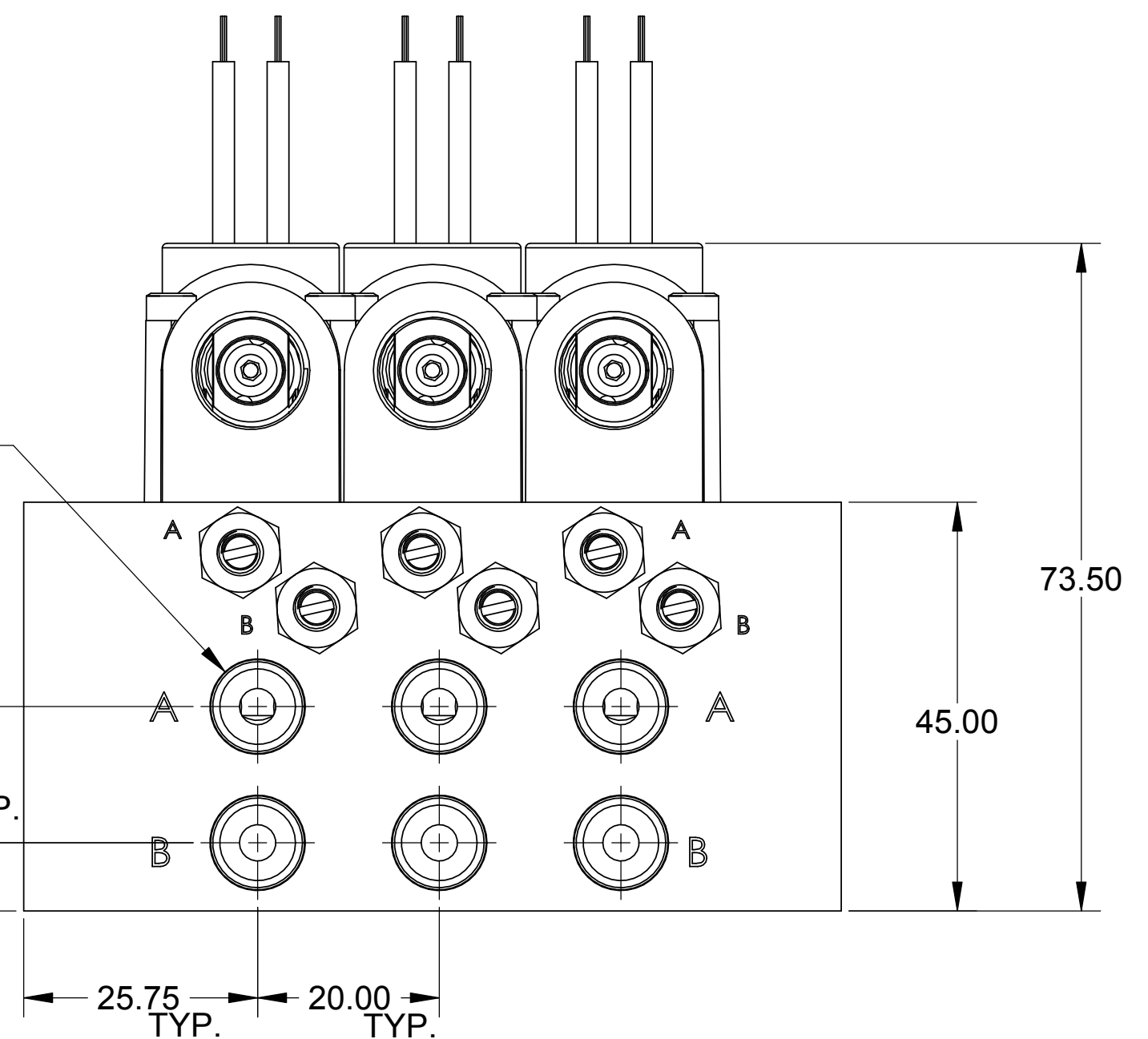
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION

7.50
TYP.

15.00
TYP.

73.50

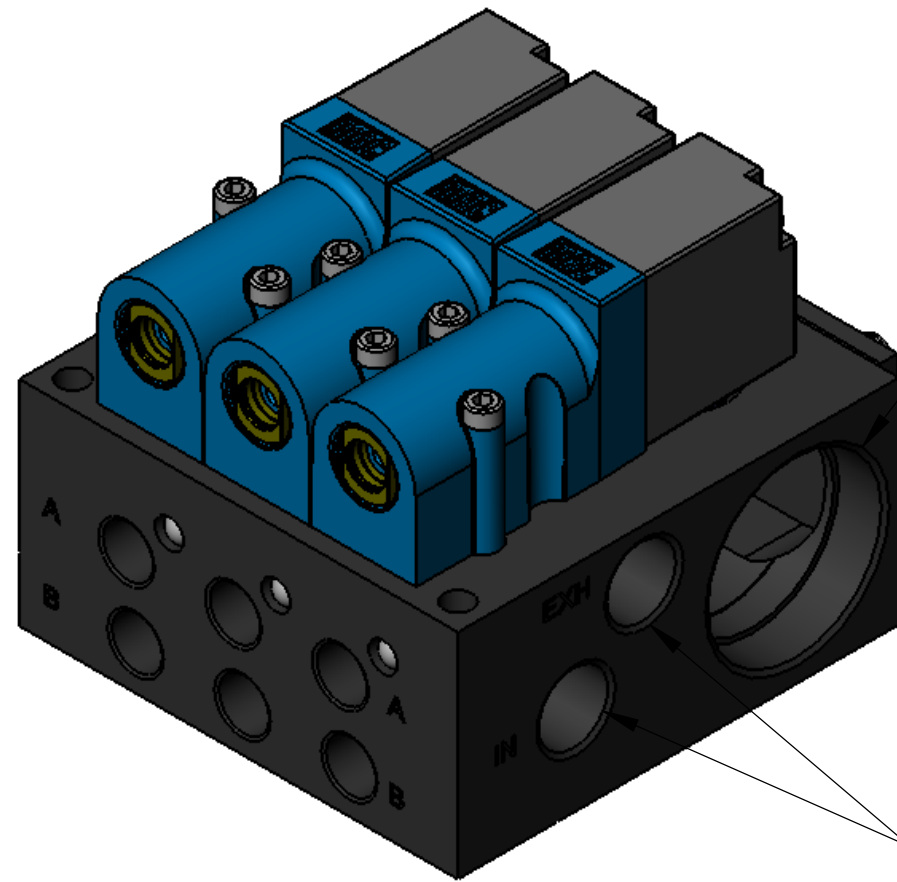
45.00



EBM46LA-00DAA-XX

*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

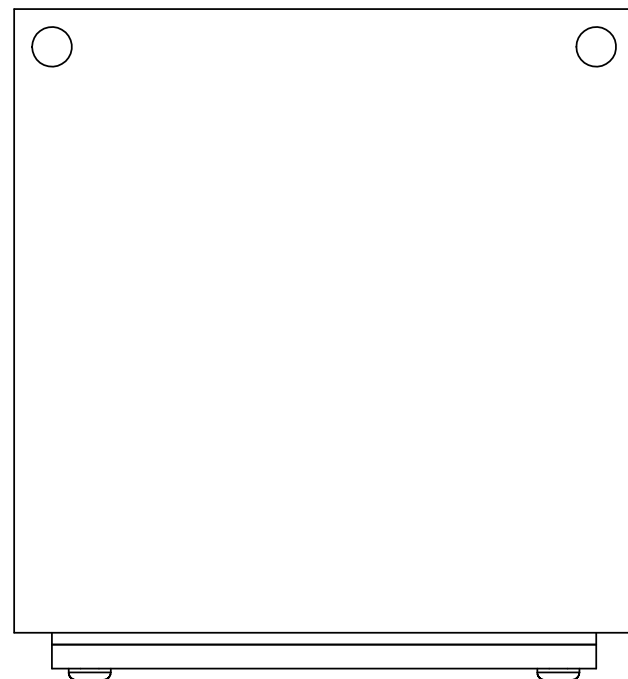
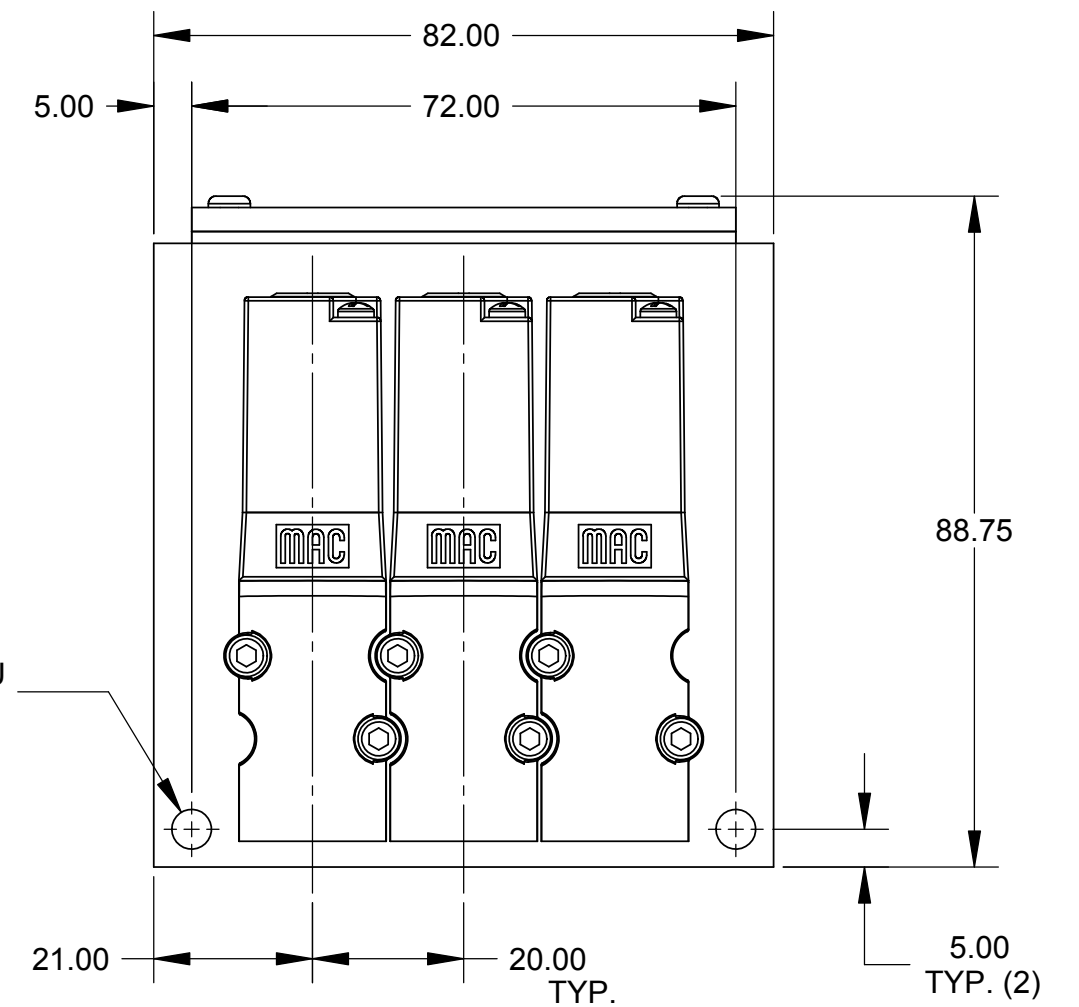
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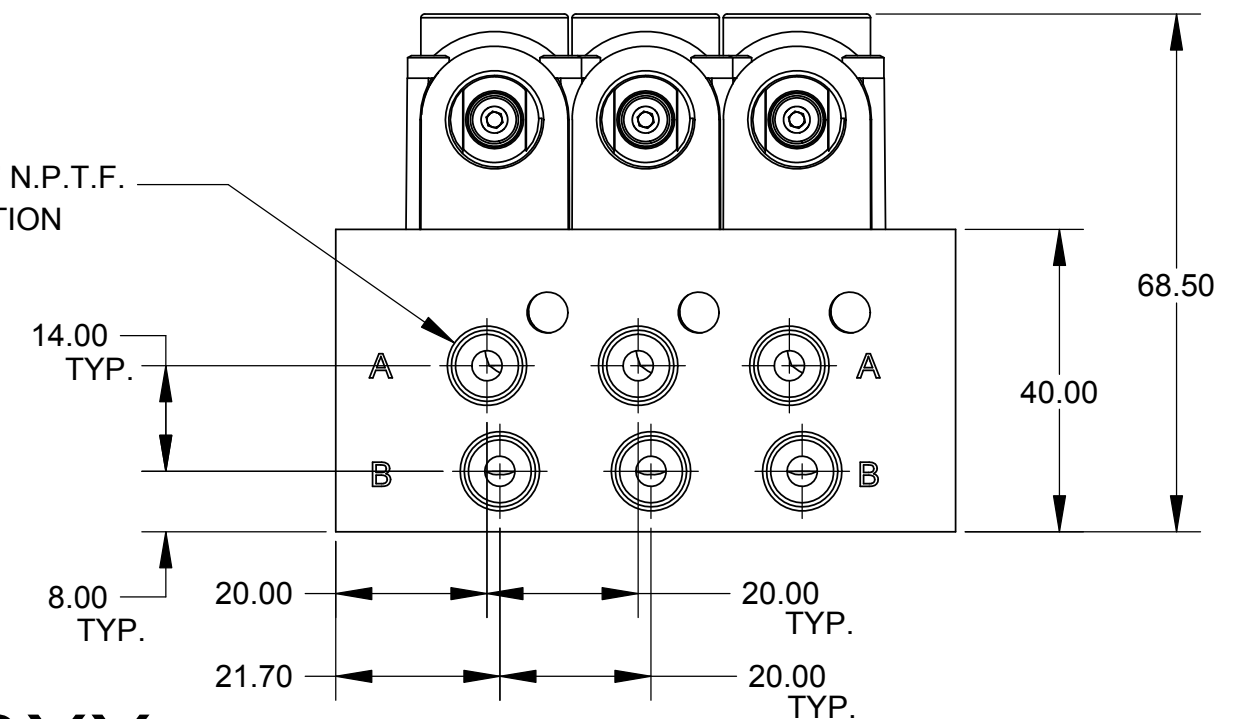
1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

Ø 5.25 THRU
TYP. (2)



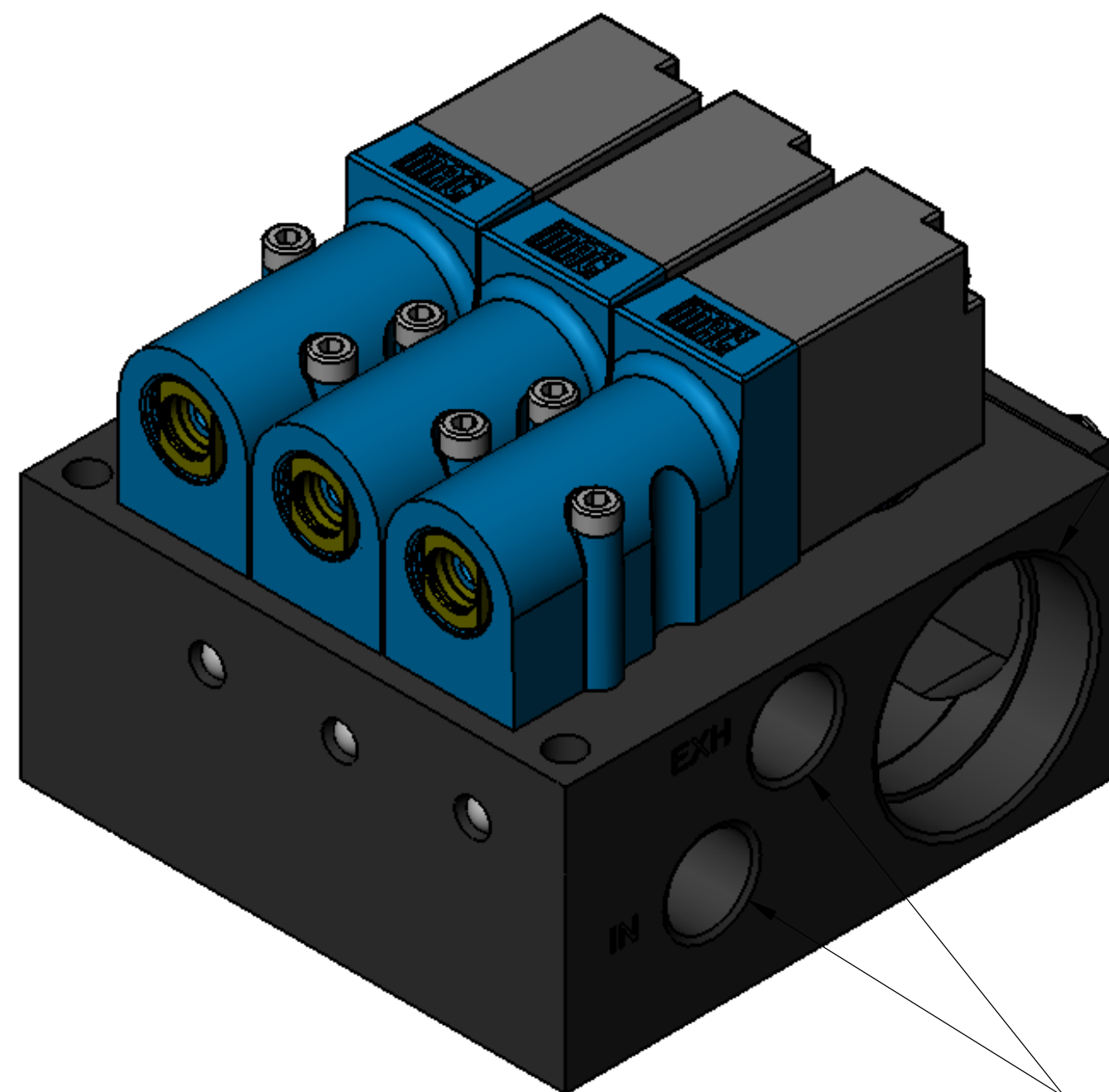
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



ECD46LA-00AAA-A0XX

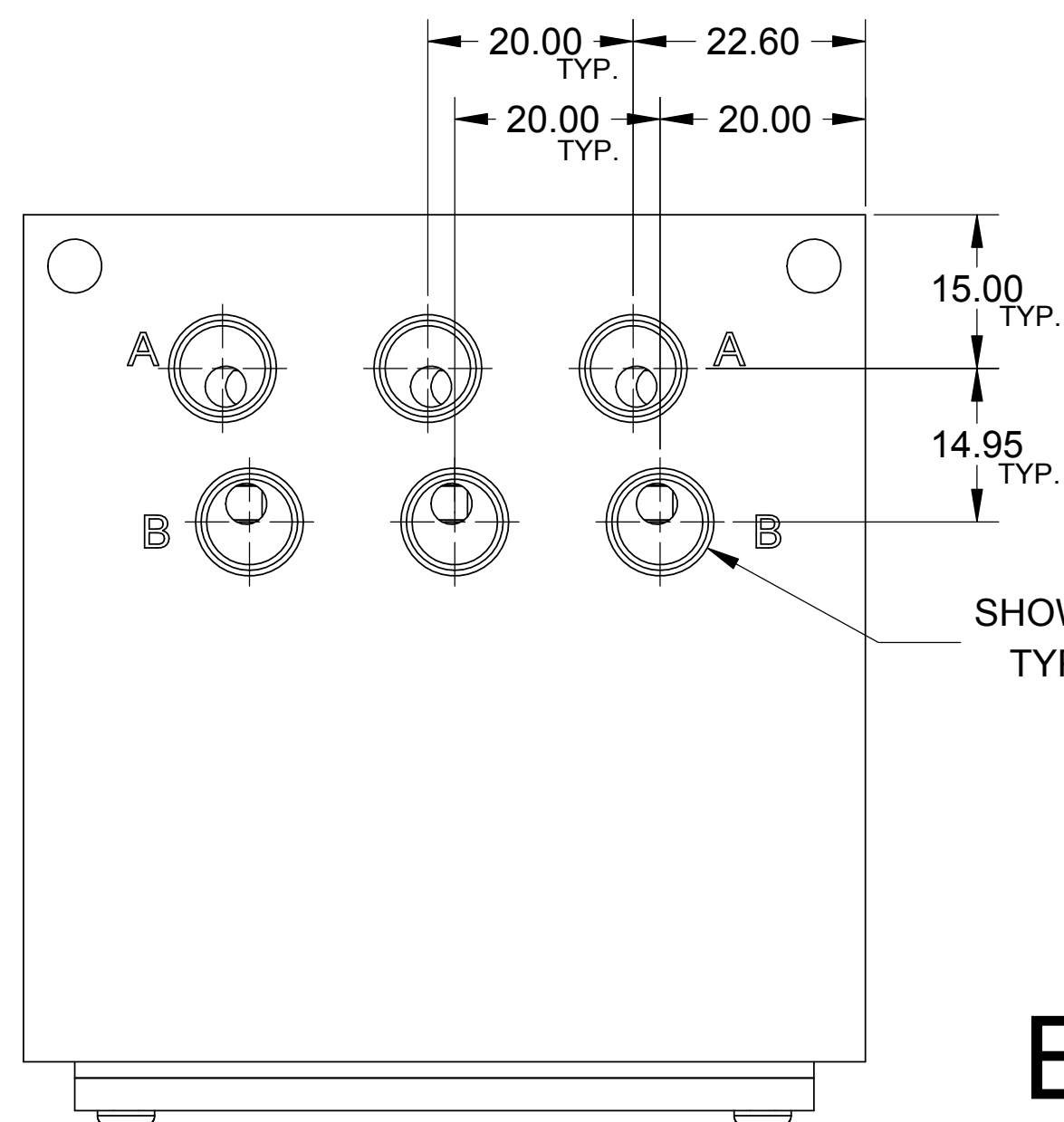
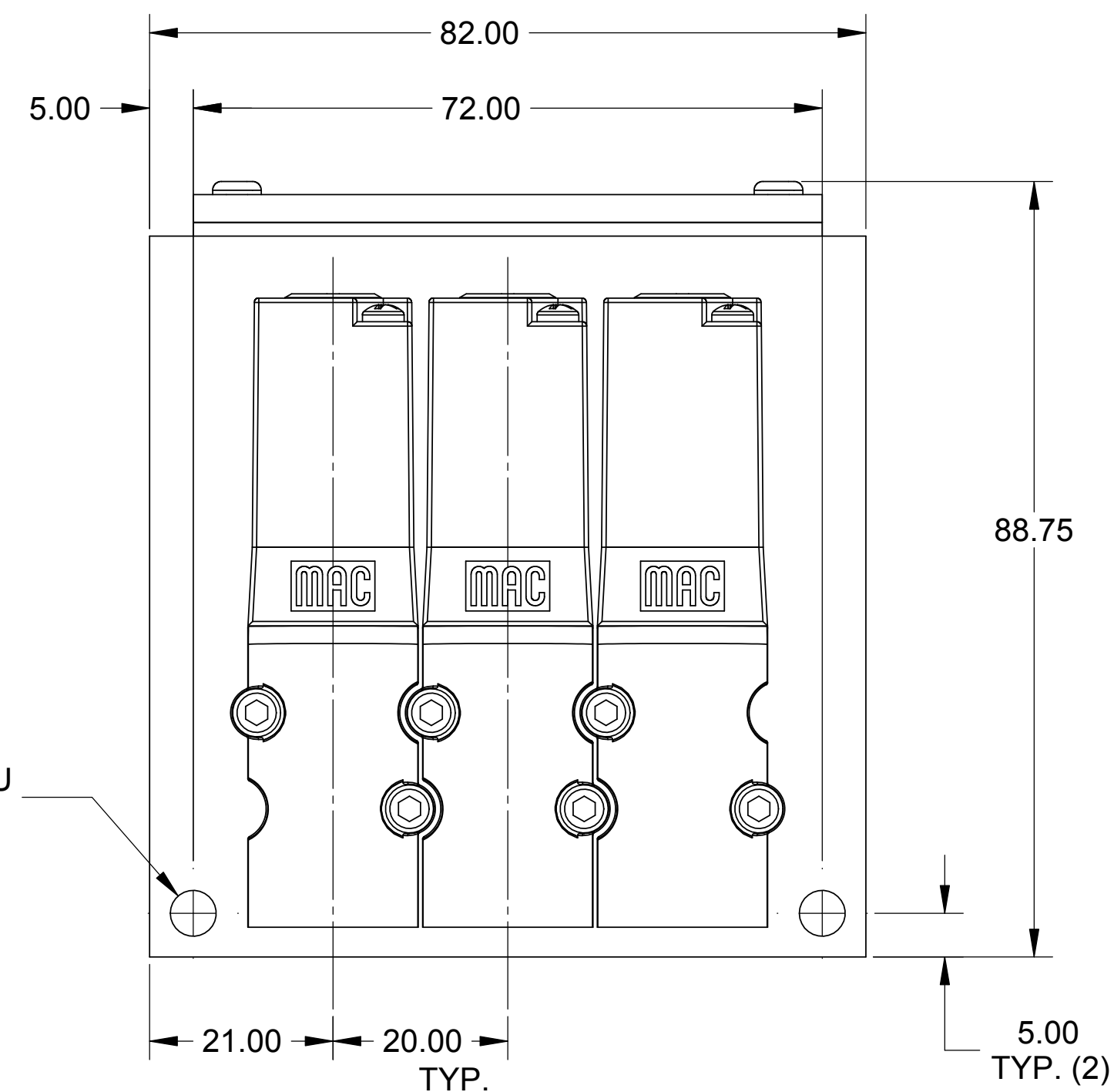
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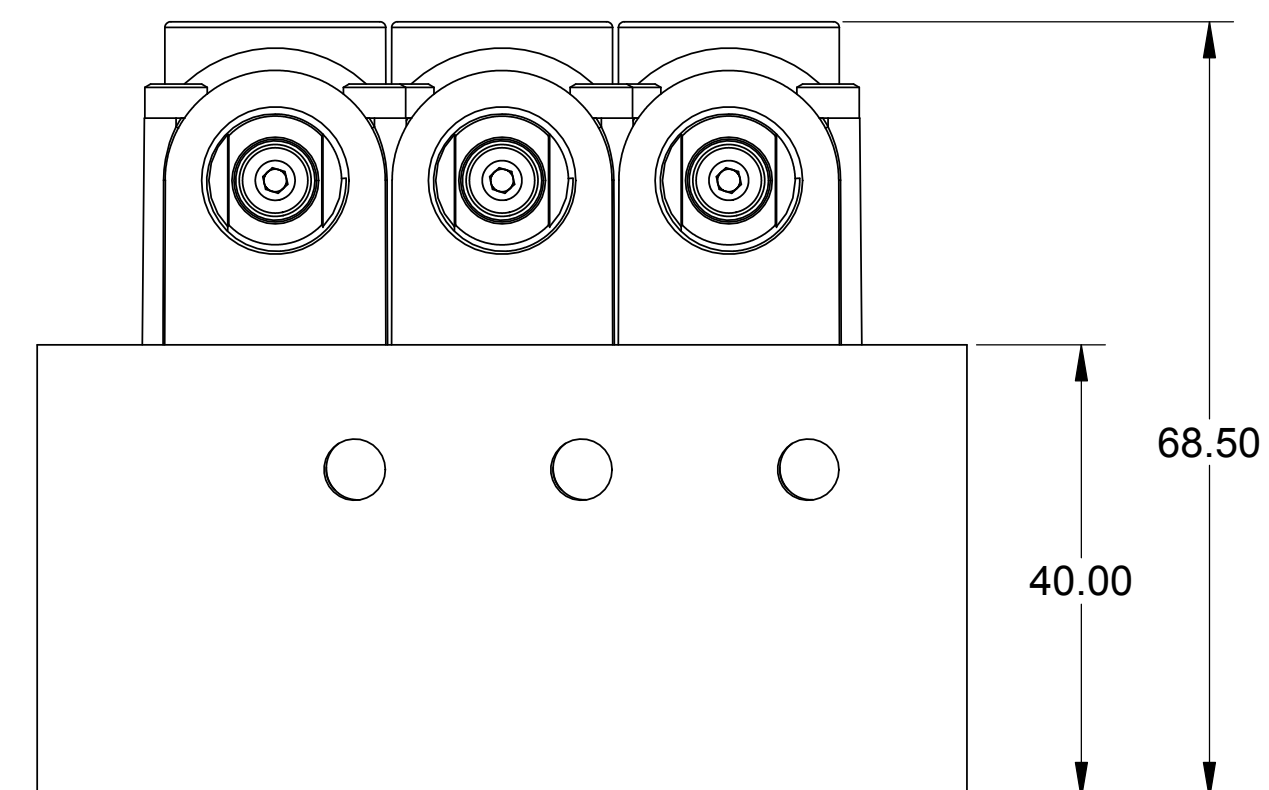


1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

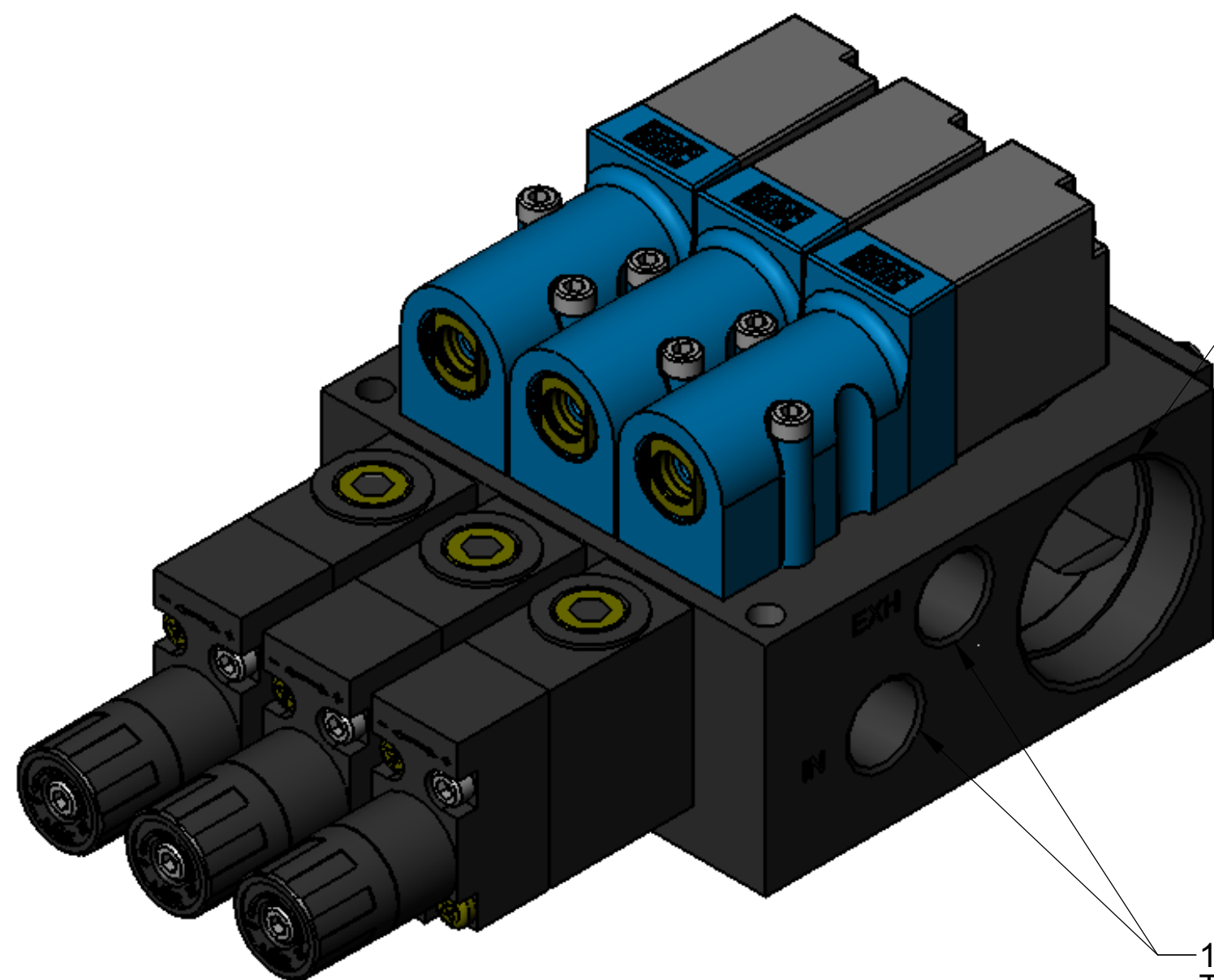


SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



ECD46LA-00BAA-A0XX

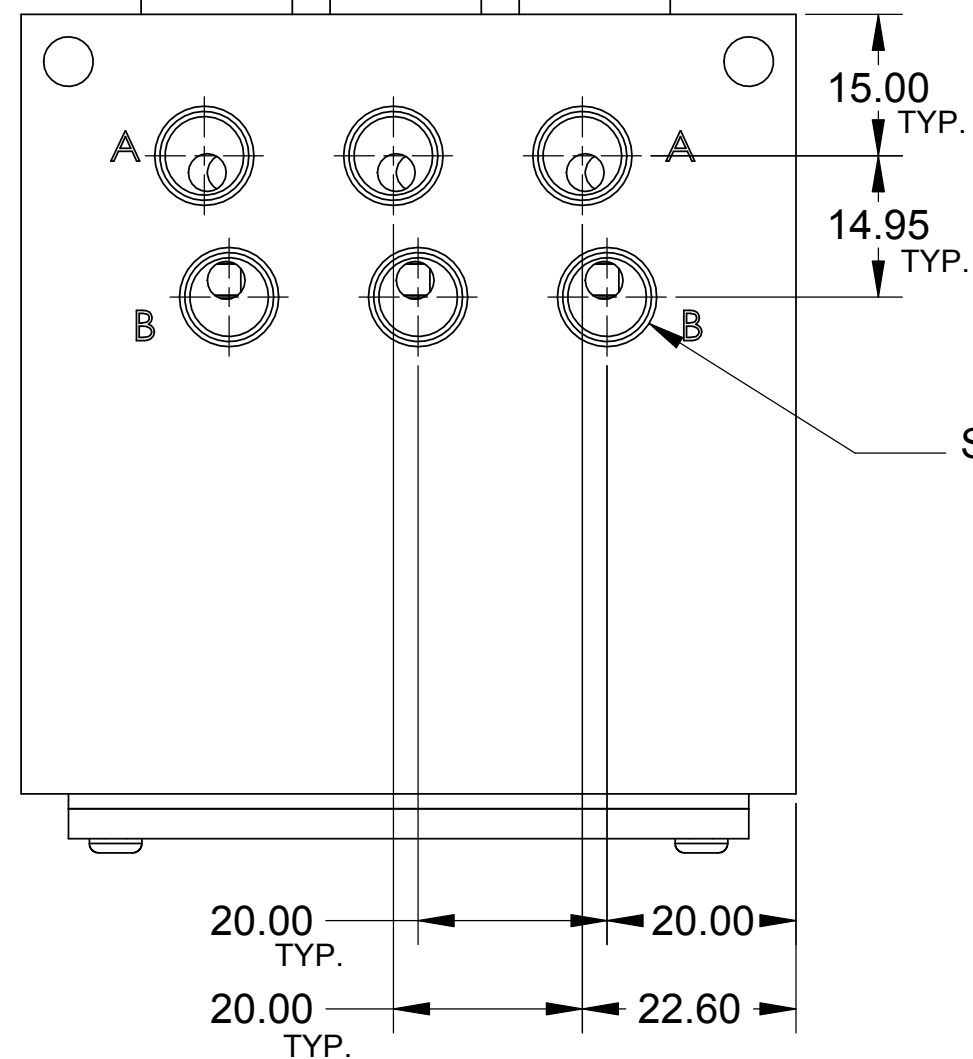
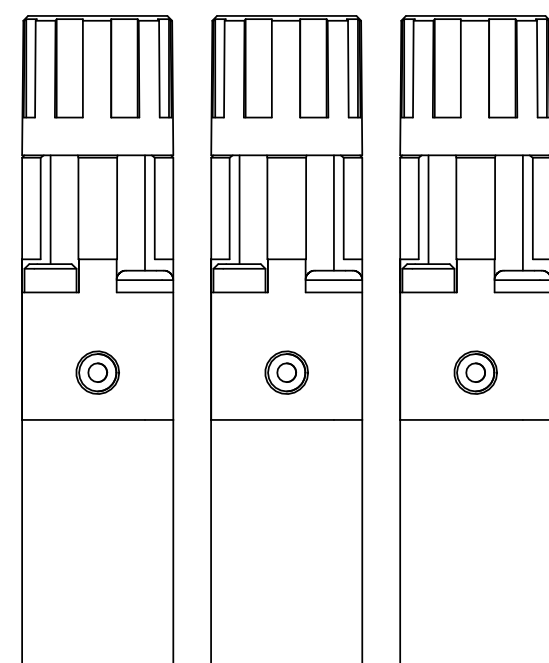
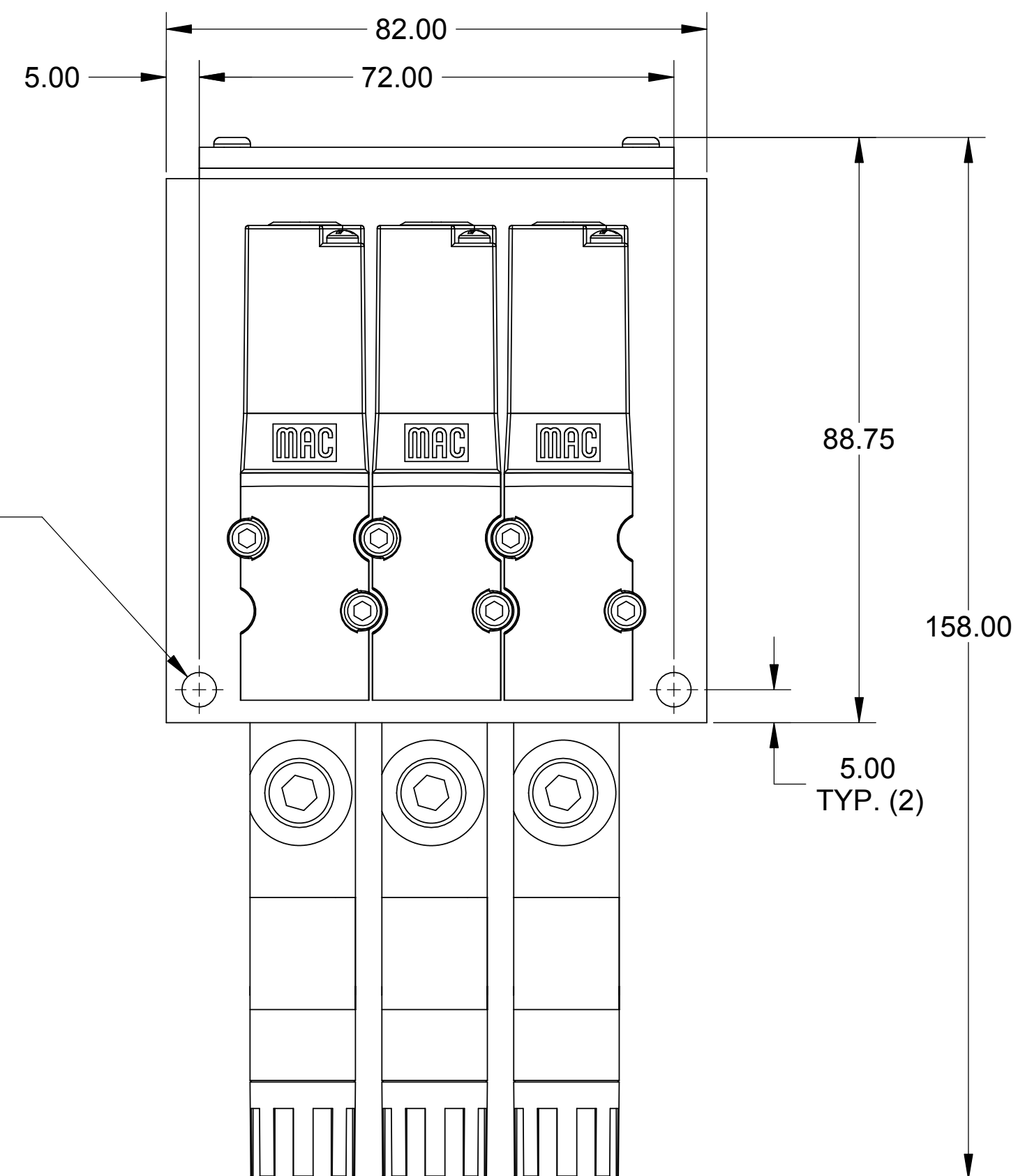
*SHOWN W/ #1 OPERATOR



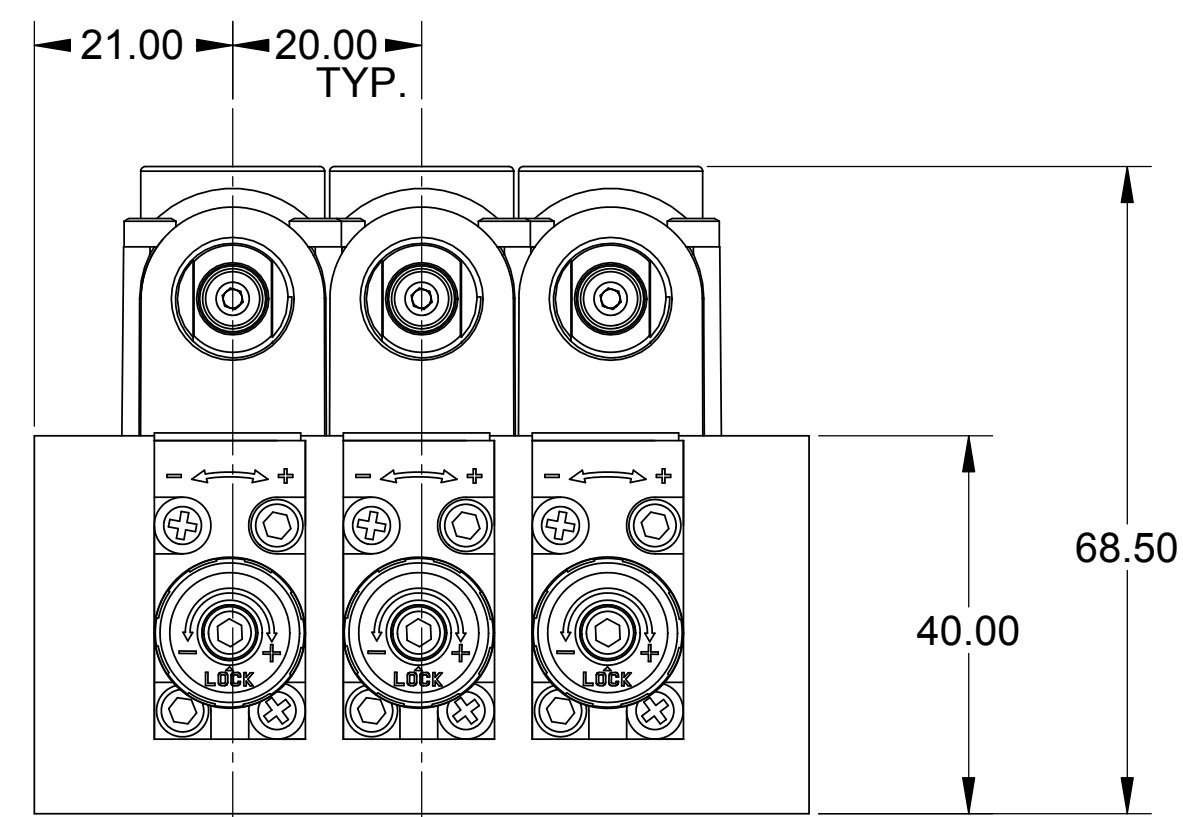
1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

Ø 5.25 THRU
TYP. (2)



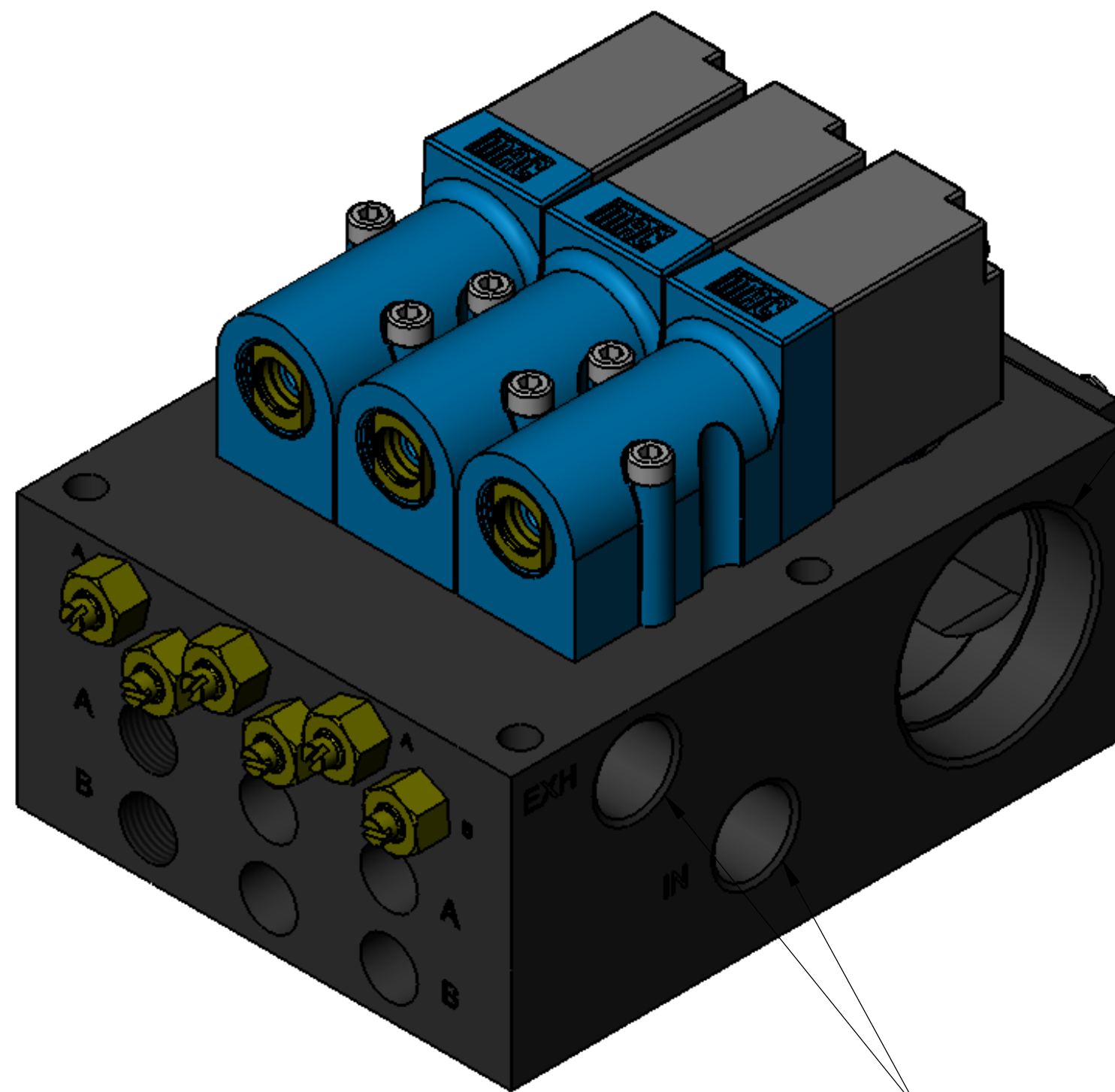
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



ECD46LA-00CAA-A0XX

*SHOWN WITH PR46A-0BAA

*SHOWN W/ #1 OPERATOR



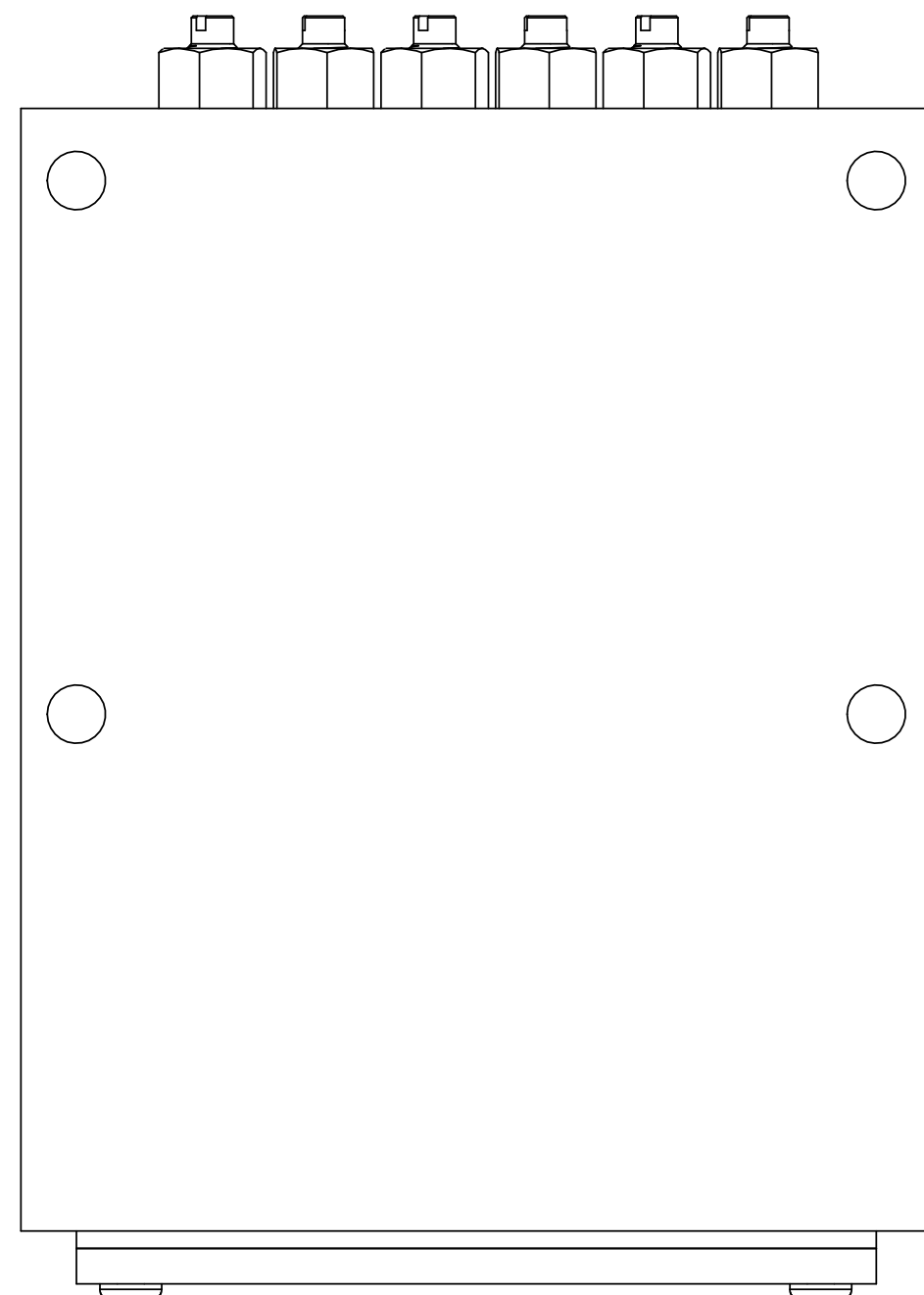
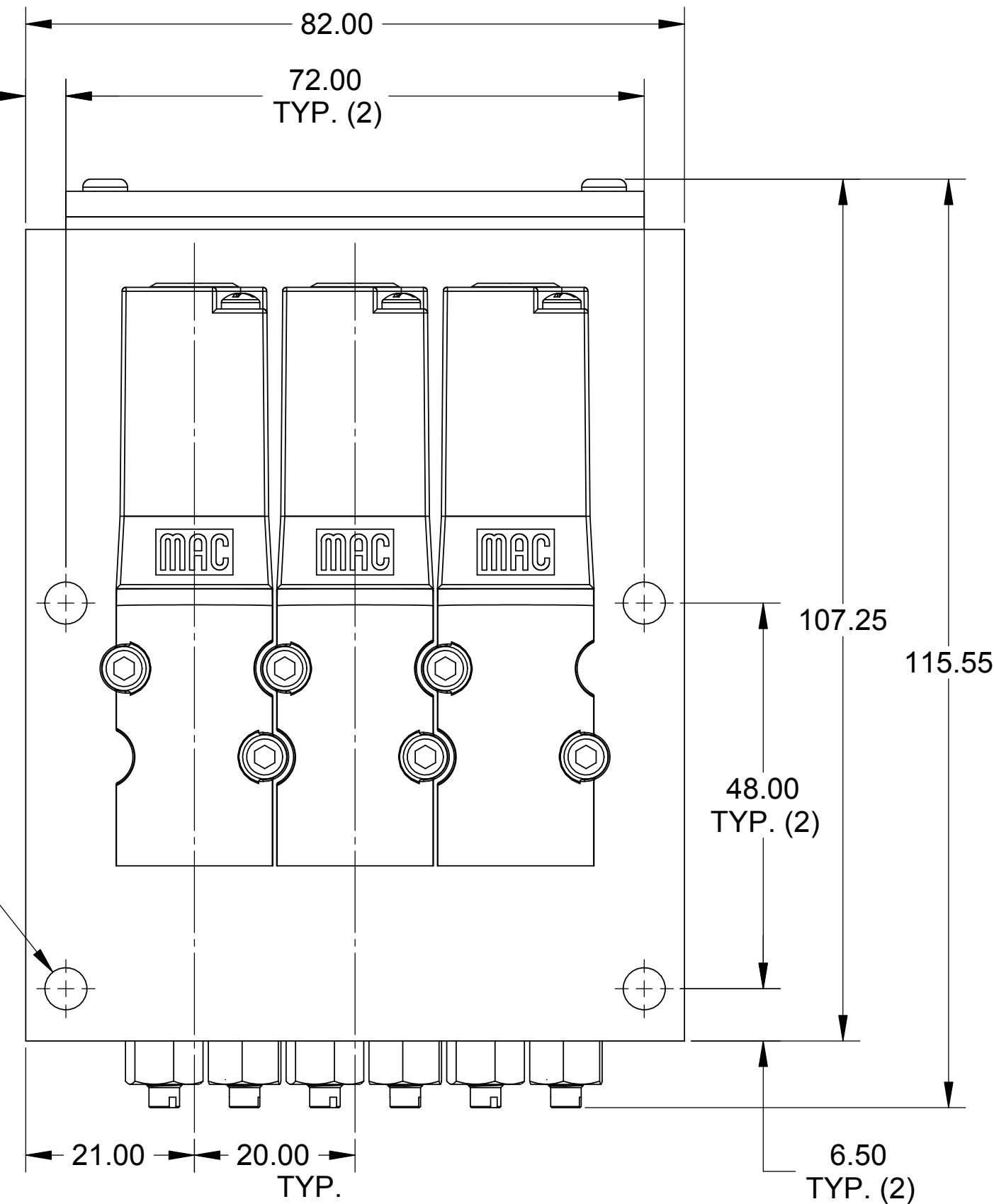
1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

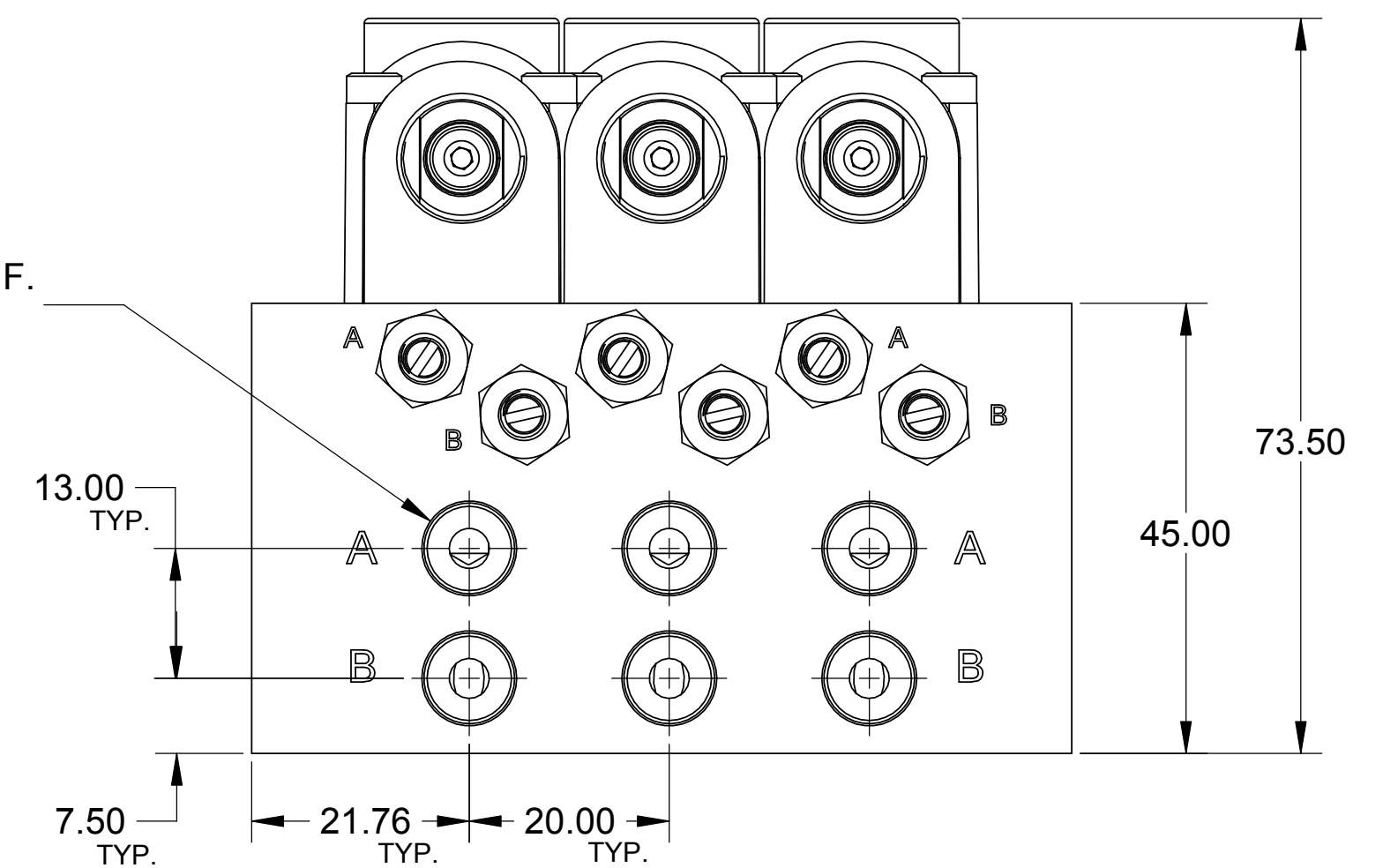
5.00
TYP. (2)

82.00
72.00
TYP. (2)

Ø 5.25 THRU
TYP. (4)

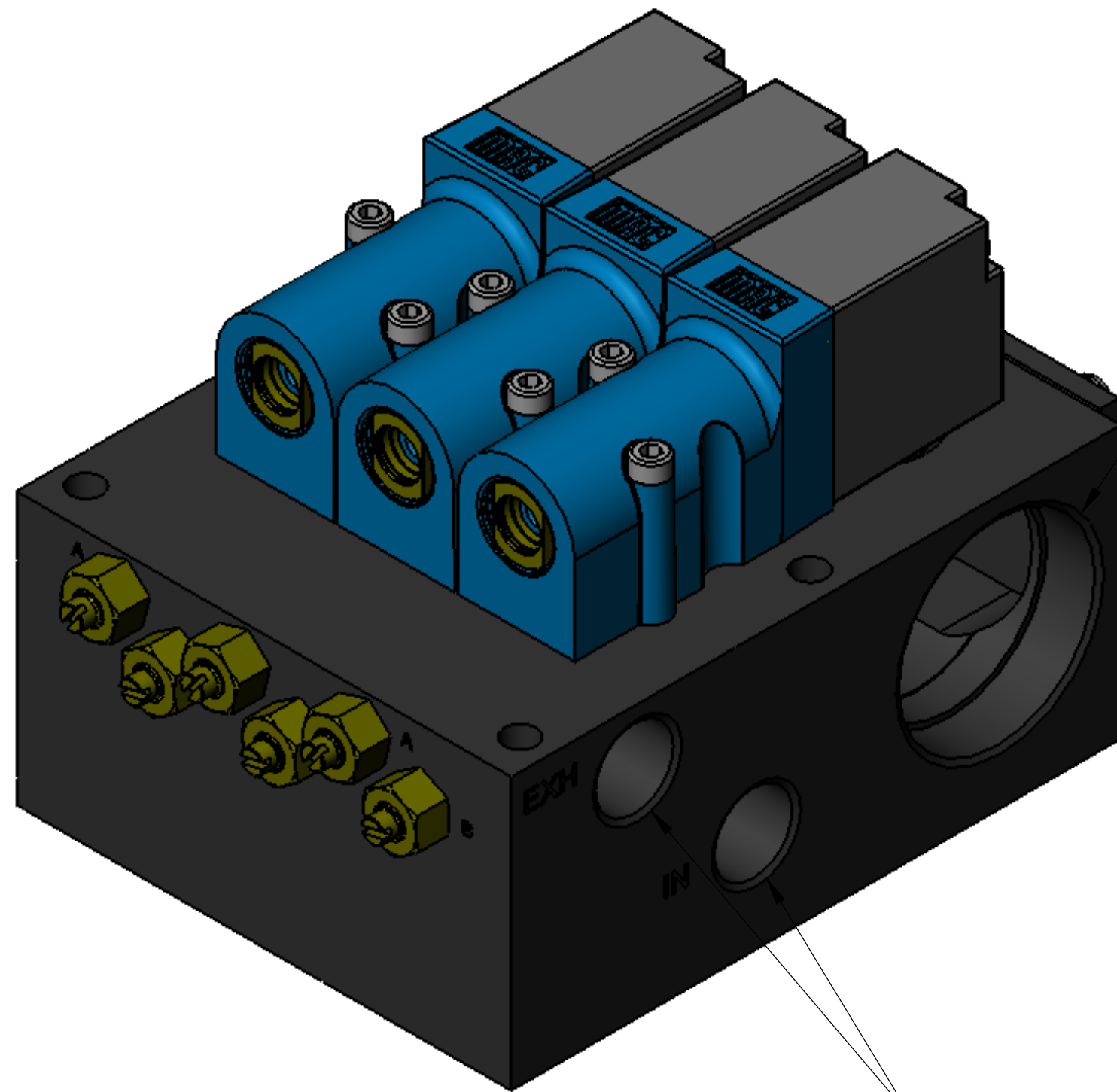


SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



ECD46LA-00DAA-A0XX

*SHOWN W/ #1 OPERATOR



1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

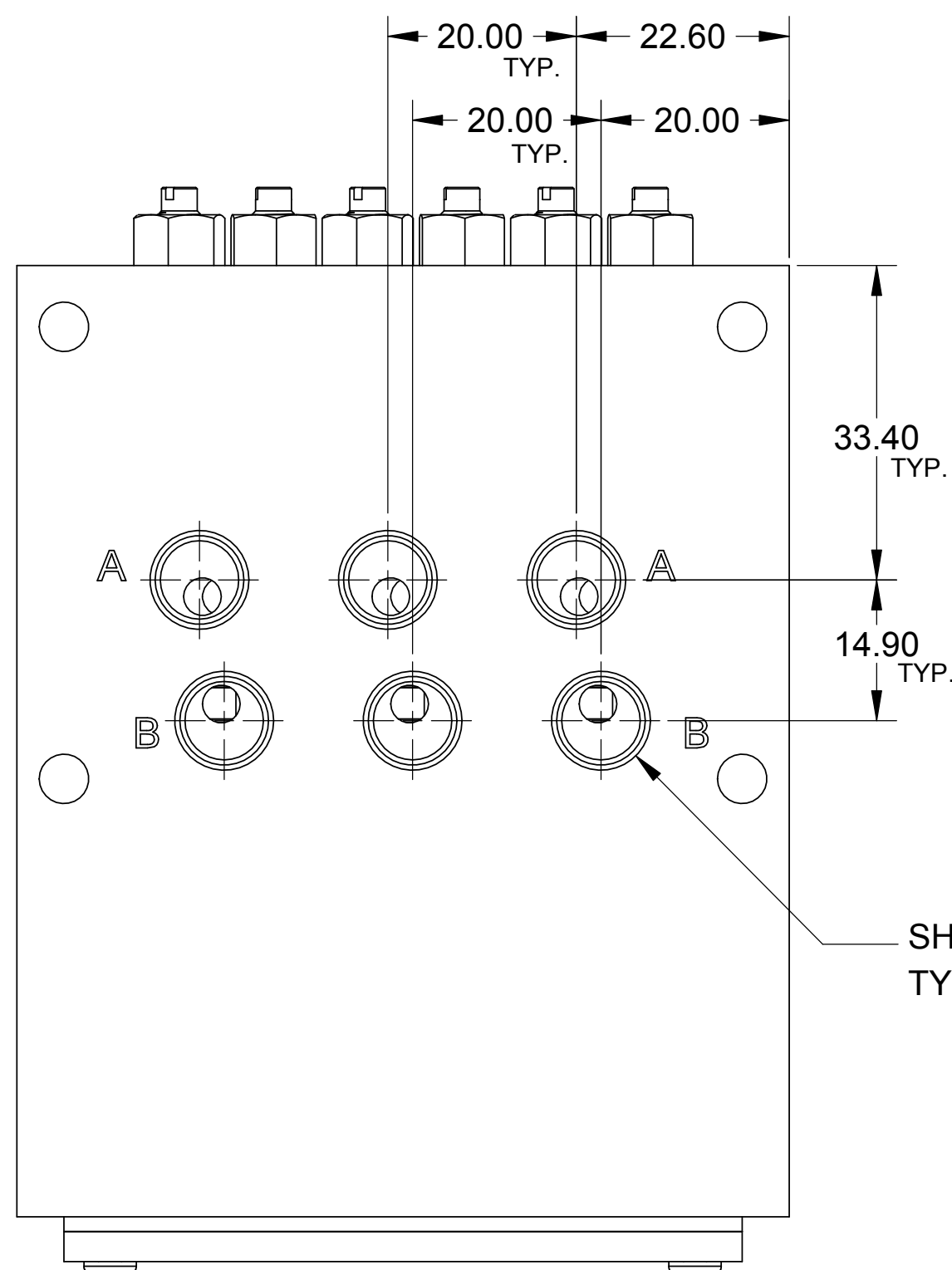
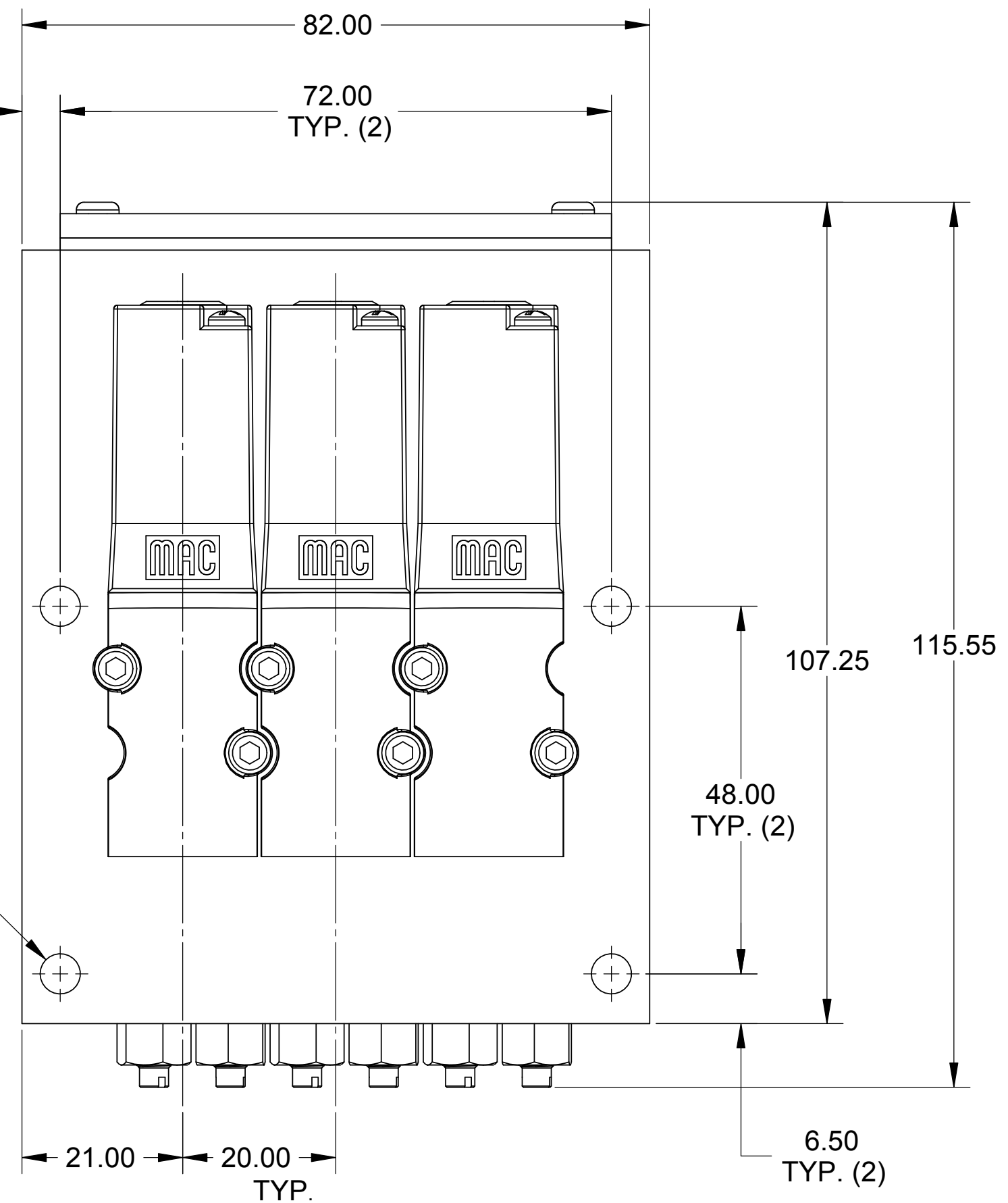
1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

Ø 5.25 THRU
TYP. (4)

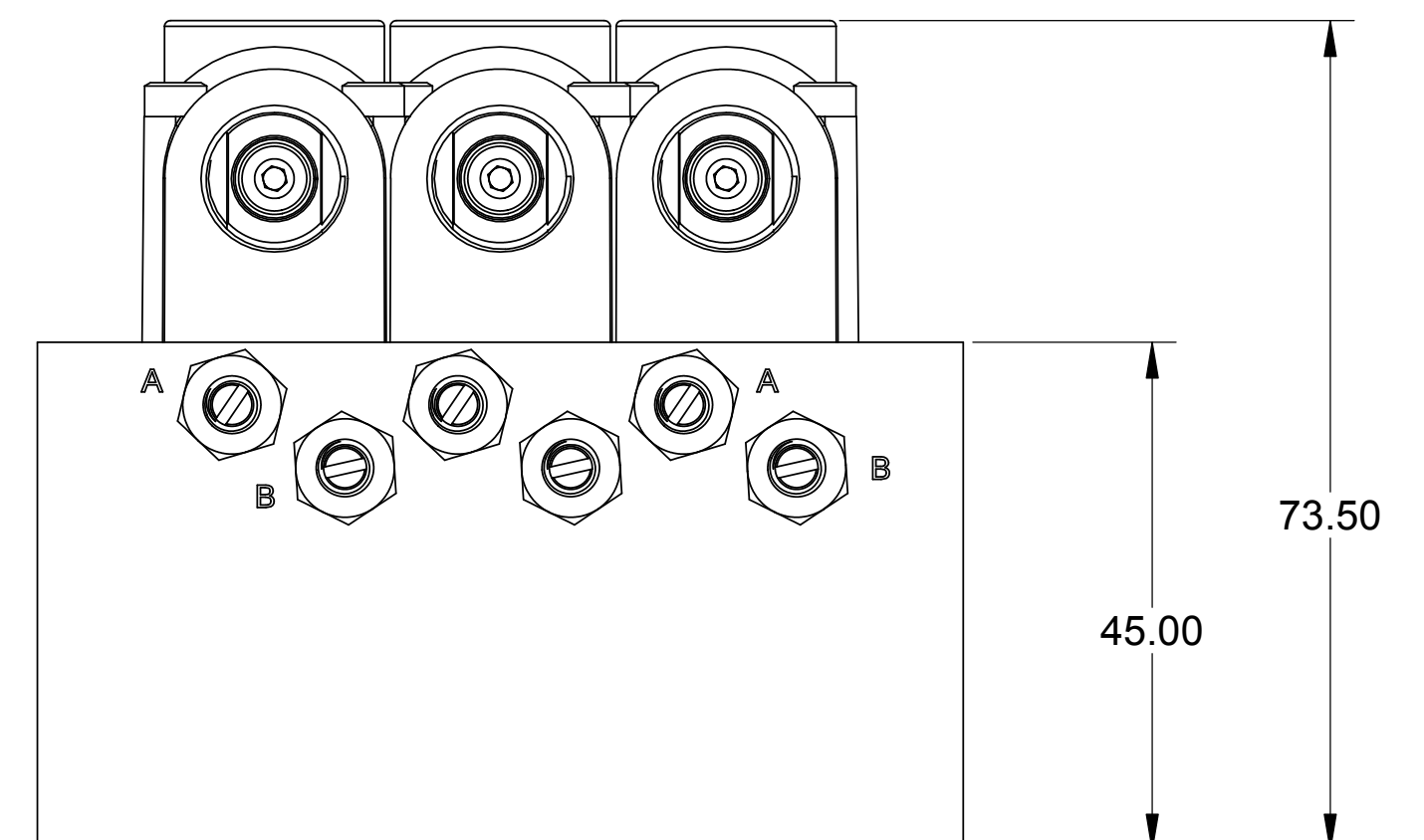
5.00
TYP. (2)

72.00
TYP. (2)

82.00



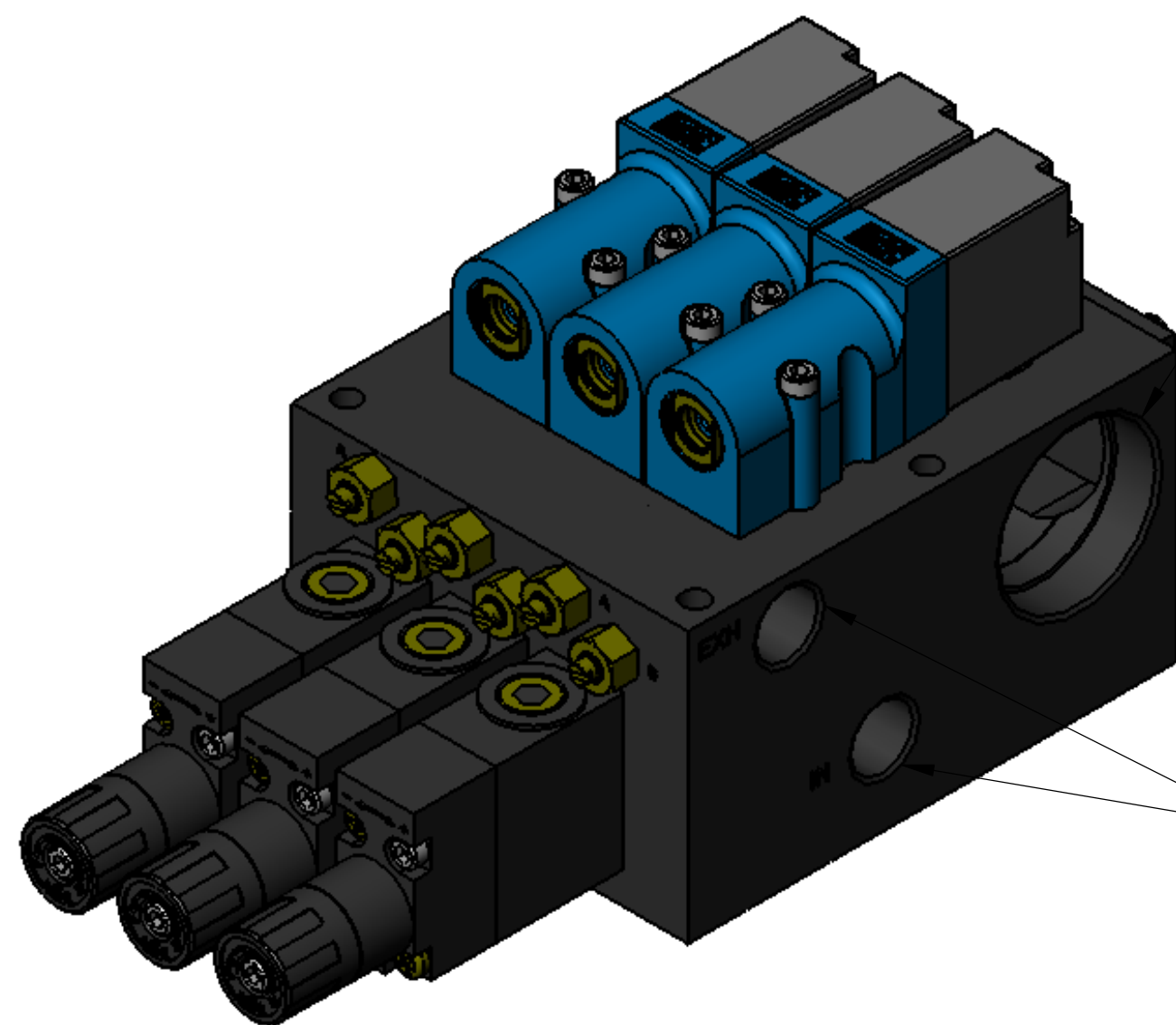
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



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*SHOWN W/ #1 OPERATOR



1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

1/4" - 18 N.P.T.F. TAP TO GAGE
TYP. (2) BOTH ENDS

5.00
TYP. (2)

82.00

72.00
TYP. (2)

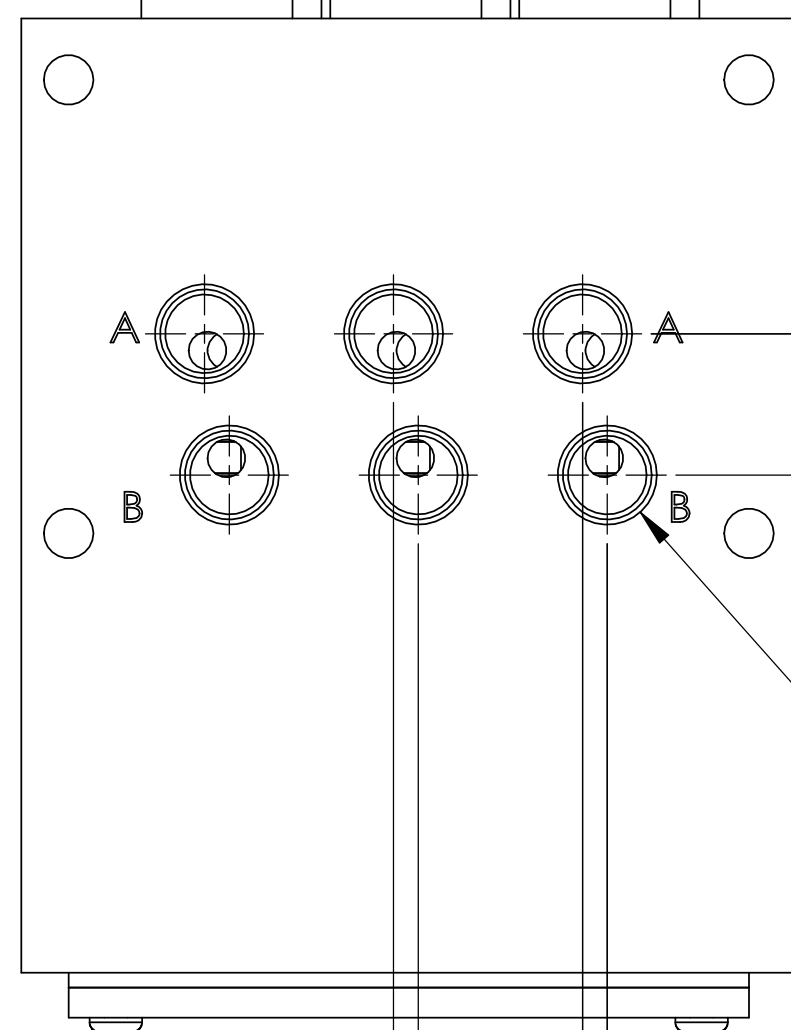
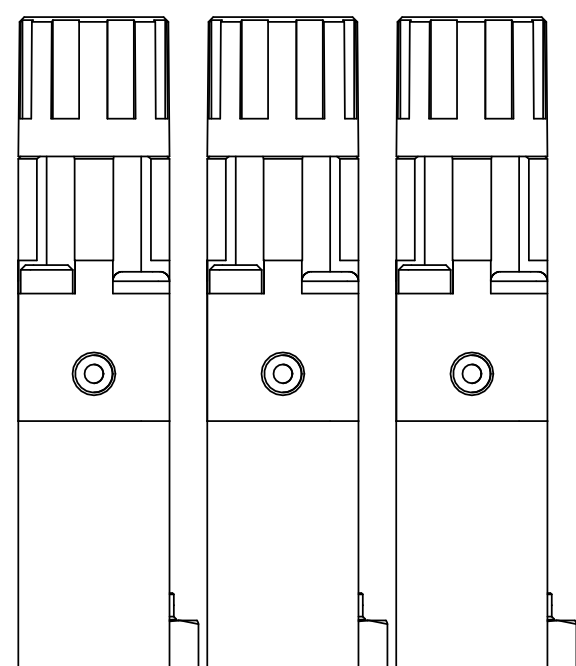
Ø 5.25 THRU
TYP. (4)

107.25

48.00
TYP. (2)

176.50

6.50
TYP. (2)



33.40
TYP.

14.90
TYP.

SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION

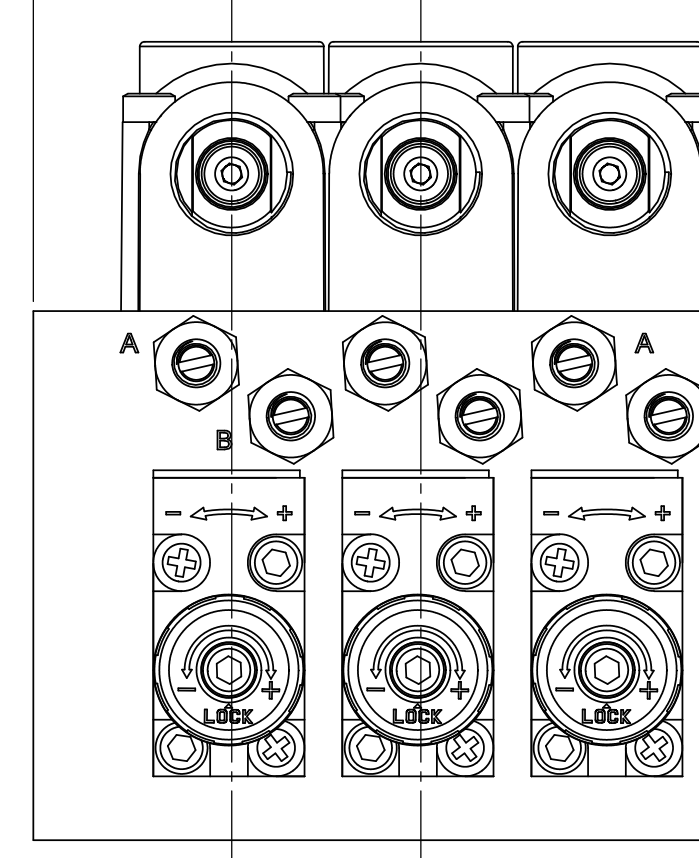
20.00
TYP.

20.00
TYP.

20.00

22.60

21.00 20.00
TYP.



84.50

56.00

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*SHOWN WITH PR46A-0BAA

*SHOWN W/ #1 OPERATOR



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