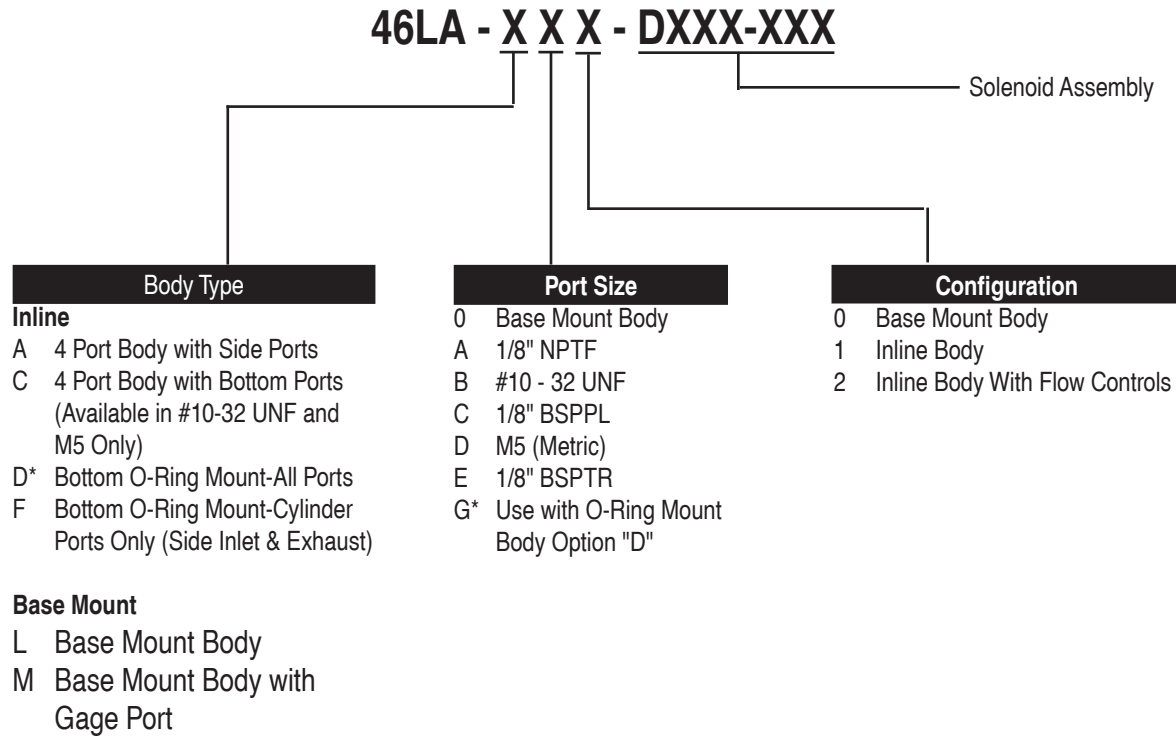


How to Order 46L Series (Lifting Solenoid)



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)	Notes : Use "J" with J, K, T, & P Connectors Use "P" with FM & FN Connectors				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

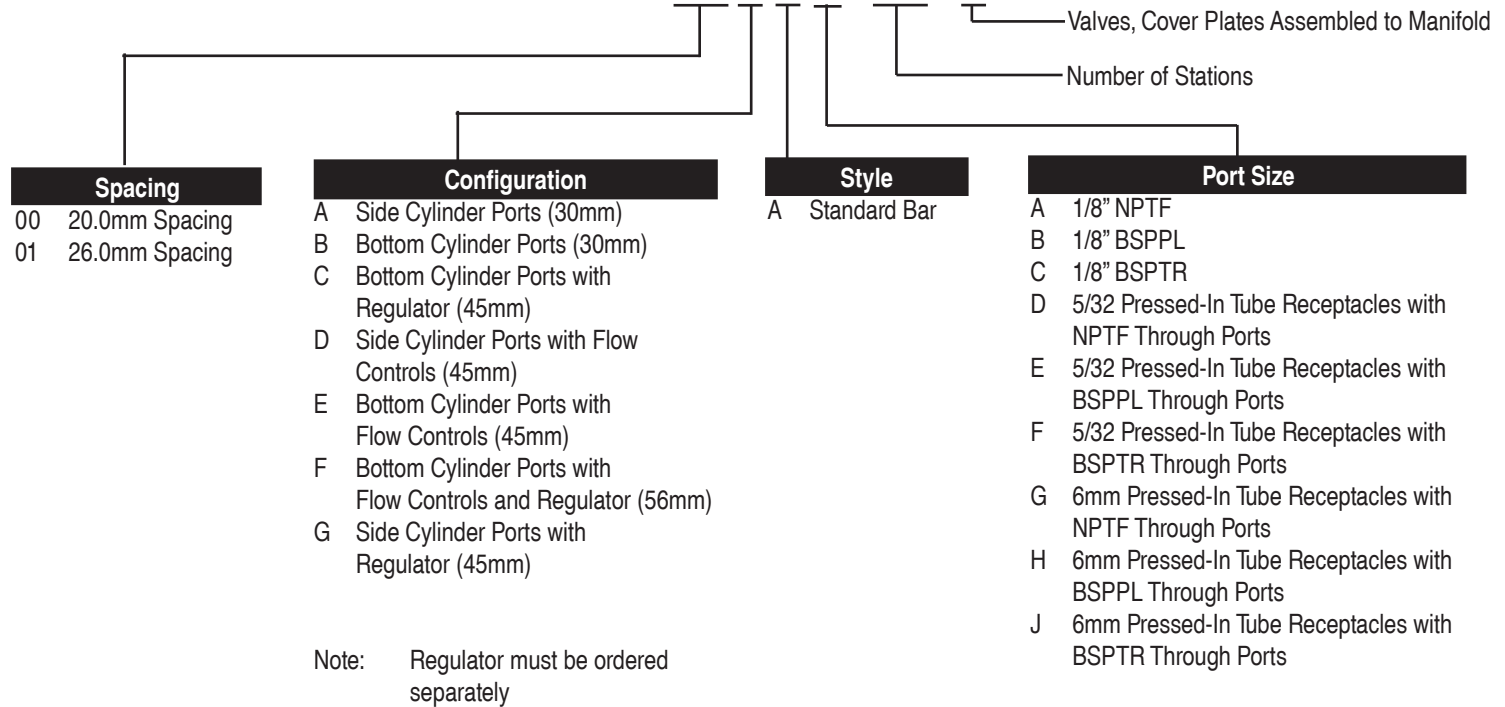
* MOD CLSF

* 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

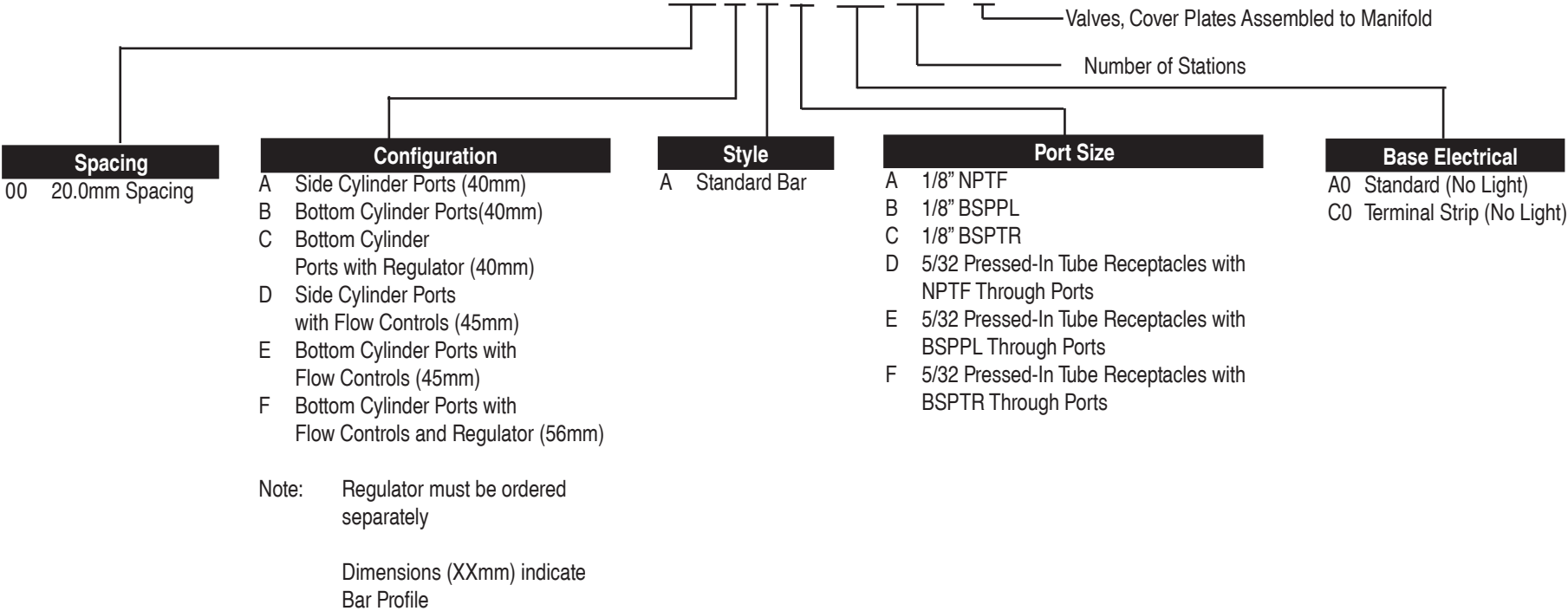
Replacement Parts and Accessories

M-46015 Valve Blanking Plate

How to Order 46L Series

ECD Circuit Bar (Plug-In)

ECD46LA - XX X X X - XX XX - 9

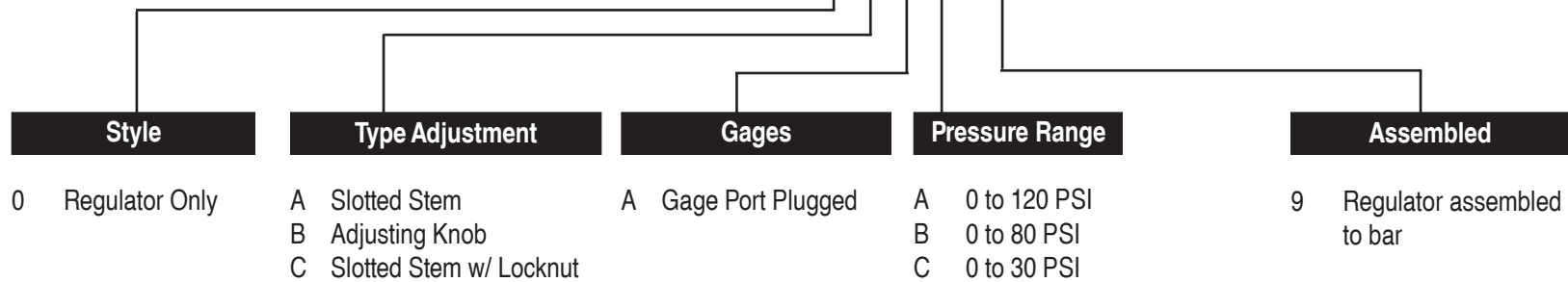


Replacement Parts and Accessories

- 63299 Wire Connector Protector
- M-46015 Valve Blanking Plate

How to Order 46 Series Regulator

PR46A - X X X X - X



46L Series (Lifting Solenoid)

46LA - X X X - D XX X - X XX
 T T T T T T T T
 1 2 3 4 5 6 7 8

1 Body Type

Inline

A	4 Port Body with Side Ports	18.35
C	4 Port Body with Bottom Ports (Available in #10-32 UNF and M5 Only)	22.75
D	Bottom O-Ring Mount-All Ports	22.75
F	Bottom O-Ring Mount-Cylinder Ports Only (Side Inlet & Exhaust)	22.95

Base Mount

L*	Base Mount Body	18.35
M*	Base Mount Body with Gage Port	20.95

* For use with circuit bars

2 Port Size & Thread Type

0	Base Mount Body	N/C
A	1/8" NPTF	N/C
B	#10 - 32 UNF	N/C
C	1/8" BSPPL	N/C
D	M5 (Metric)	N/C
E	1/8" BSPTR	N/C
G*	Use with O-Ring Mount Body Option "D"	N/C

3 Configuration

Base Mount

0	Base Mount Body	N/C
1	Inline Body No Flow Controls	N/C
2	Inline Body With Flow Controls	5.50

4 Solenoid Operator

D	Solenoid	10.65
---	----------------	-------

5 Voltage

DA	24 VDC (5.4W)	N/C	DB	12 VDC (5.4W)	N/C
DC	12 VDC (7.5W)	N/C	DD	24 VDC (7.3W)	N/C
DE	12 VDC (12.7W) (MOD CLSF only)	3.15	DF	24 VDC (12.7W) (MOD CLSF only)	3.15
DJ	28 VDC (5.2W)	N/C	DK	110 VDC (5.8W)	3.15
DL	64 VDC (6W)	N/C	DM	36 VDC (5.3W)	N/C
DN	6 VDC (6W)	N/C	DP	48 VDC (5.8W)	N/C
DR	90 VDC (6.6W)	3.15	DS	110 VDC (7.3W)	3.15
DT	75 VDC (5.6W)	3.15	EA	12 VDC (6.0W)	N/C
EB	220 VDC (4.2W)	6.00	ED	24 VDC (4.2W)	N/C
EE	12 VDC (4.2W)	N/C	EJ	24 VDC (9.3W)	3.15
EM	120 VDC (6.2W)	N/C	ES	12 VDC (9.5W) (MOD CLSF only)	3.15
ET	24 VDC (3.0W)	N/C	EW	24 VDC (8.0W)	N/C
FA	12 VDC (1.8W)	2.10	FB	24 VDC (1.8W)	2.10
FC	10 VDC (2.2W)	N/C	FE	12 VDC (2.4W)	N/C
FF	24 VDC (2.4W)	N/C	FK	48 VDC (1.9W)	3.90
FL	18 VDC (2.4W)	N/C	GD	220 VDC (7.3W)	N/C
GE	6 VDC (9.0W)	3.15	GF	15 VDC (5.0W)	3.15
GG	9 VDC (9.0W)	N/C			

6 Lead Wire Length

A	18" coil leads	N/C	B	24" coil leads	80
C	36" coil leads	1.05	D	48" coil leads	1.30
E	72" coil leads	2.35	F	96" coil leads	3.40
J	External plug-in lead	N/C			

7 Manual Operator

0	No operator	N/C
1	Non-locking manual operator	N/C

8 Electrical Connector

BA	Grommet	N/C
BK	Grommet with diode	5.20
BM**	Plug-in (with leads)	3.90
BN**	Plug-in with diode (with leads)	8.85
BP**	Plug-in with M.O.V. (with leads)	9.35
CA	Conduit 1/2"	2.35
CM	Metal conduit 1/2"	4.15
CN	Metal conduit with ground 1/2"	4.70
FM	Plug-in (For ECD & ECE Bar)	5.75
FN	Plug-in with diode (for ECD & ECE bar)	8.30
JB	Rectangular plug-in	4.70
JD	Rectangular plug-on with light	9.65
JM	Rectangular male only	3.15
KA	Mini plug-in	4.70
KB	Mini plug-in with diode	6.75
KD	Mini plug-in with light	8.30
KE	Mini plug-in with light & diode	10.65
KG	Mini plug-in with LED light & diode	10.65
KJ	Mini plug-in male only	3.15
KK	Mini plug-in male only with diode	7.30
TA	Dual tabs (.110) with receptacles	3.15
TB	Dual tabs with diode & receptacles	4.70
TD	Dual tabs with light & receptacles	6.25
TE	Dual tabs with light, diode & receptacles	7.80
TJ	Dual tabs (.110) plain	2.60
TK	Dual tabs with diode (no receptacles)	4.15
TM	Dual tabs with light (no receptacles)	5.75
TN	Dual tabs with light & diode (no receptacles)	7.30
PA	Pico	6.50

46 Lifting Series Circuit Bar Non Plug-In

EBM46LA - X X X X X - XX - 9

1
2
3
4
5

Valves and cover plates
assembled to bar

1 Spacing			30mm	45mm	56mm
00	20.0mm Spacing	(2) Station Base Price.....	19.15	20.65	21.05
		Each Middle Station.....	7.25	8.00	8.75
01	26.0mm Spacing	(2) Station Base Price.....	20.25	21.75	23.25
		Each Middle Station.....	7.55	8.30	9.05
2 Configuration			Per Station		
A	Side Cylinder Ports	N/C	-	-	-
B	Bottom Cylinder Ports	N/C	-	-	-
C	Bottom Cylinder Ports with Regulator	-	2.85	-	-
D	Side Cylinder Ports with Flow Controls	-	8.60	-	-
E	Bottom Cylinder Ports with Flow Controls	-	8.60	-	-
F	Bottom Cylinder Ports with Flow Controls and Regulator	-	-	-	11.20
G	Side Cylinder Ports w/ Regulator	-	2.85	-	-
3 Style			Per Station		
A	Standard	N/C	N/C	N/C	N/C
4 Port Size & Thread Type			Per Station		
A	1/8" NPTF.....	N/C	N/C	N/C	N/C
B	1/8" BSPPL.....	N/C	N/C	N/C	N/C
C	1/8" BSPTR.....	N/C	N/C	N/C	N/C
D	5/32 Pressed-In Tube Receptacles with NPTF Through Ports	3.40	3.40	3.40	3.40
E	5/32 Pressed-In Tube Receptacles with BSPPL Through Ports	3.40	3.40	3.40	3.40
F	5/32 Pressed-In Tube Receptacles with BSPTR Through Ports	3.40	3.40	3.40	3.40
G	6mm Pressed-In Tube Receptacles with NPTF Through Ports	3.40	3.40	3.40	3.40
H	6mm Pressed-In Tube Receptacles with BSPPL Through Ports	3.40	3.40	3.40	3.40
J	6mm Pressed-In Tube Receptacles with BSPTR Through Ports	3.40	3.40	3.40	3.40
5 Stations					
	Number of Stations (01, 02, 03, etc.)	N/C	N/C	N/C	N/C

Accessories

M - 46015 Blank Station Cover Plate 10.55

Note: Regulator must be ordered separately.

Valves or Plates Assembled to Bar – 2.85 per Bar plus .80 per Station

46 Lifting Series ECD Plug-In Circuit Bar

ECD46LA - X X X X X - X X - X X - 9

1
2
3
4
5
6

Valves and cover plates
assembled to bar

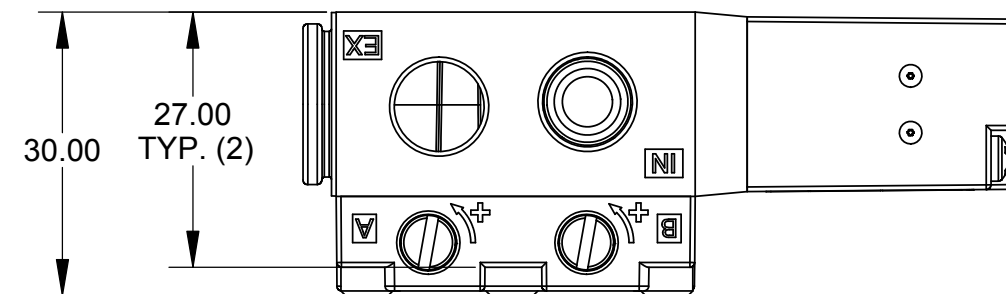
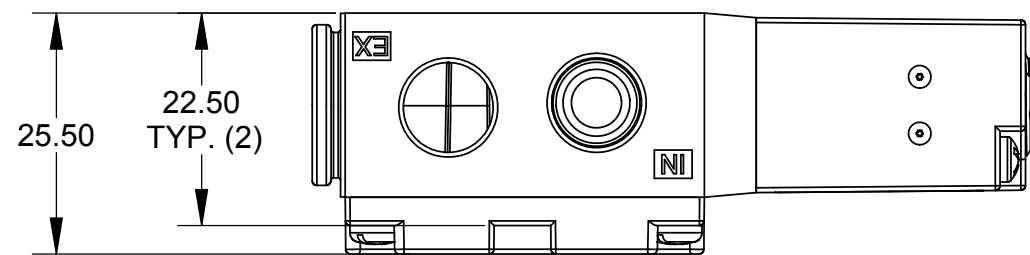
1 Spacing		40mm	45mm	56mm	
00	20.0mm Spacing	(2) Station Base Price.....	35.90	36.40	37.90
		Each Middle Station.....	14.55	14.80	15.55
2 Configuration		Per Station			
A	Side Cylinder Ports	N/C	-	-	
B	Bottom Cylinder Ports	N/C	-	-	
C	Bottom Cylinder Ports with Regulator	2.35	-	-	
D	Side Cylinder Ports with Flow Controls	-	13.00	-	
E	Bottom Cylinder Ports with Flow Controls.....	-	13.00	-	
F	Bottom Cylinder Ports with Flow Controls and Regulator	-	-	15.10	
3 Style		Per Station			
A	Standard	N/C	N/C	N/C	
4 Port Size & Thread Type		Per Station			
A	1/8" NPTF.....	N/C	N/C	N/C	
B	1/8" BSPPL.....	N/C	N/C	N/C	
C	1/8" BSPTR	N/C	N/C	N/C	
D	5/32 Pressed-In Tube Receptacles with NPTF Through Ports	3.40	3.40	3.40	
E	5/32 Pressed-In Tube Receptacles with BSPPL Through Ports	3.40	3.40	3.40	
F	5/32 Pressed-In Tube Receptacles with BSPTR Through Ports.....	3.40	3.40	3.40	
5 Base Electrical		Per Station			
A0	Standard (No light).....	N/C	N/C	N/C	
C0	Terminal Strip (No light).....	3.65	3.65	3.65	
6 Stations		Per Station			
	Number of Stations (01, 02, 03, etc.)	N/C	N/C	N/C	

Accessories

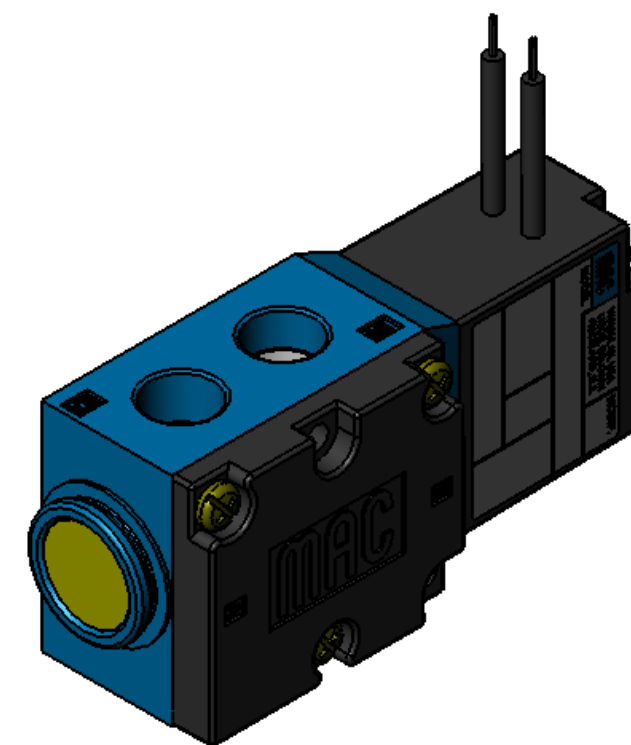
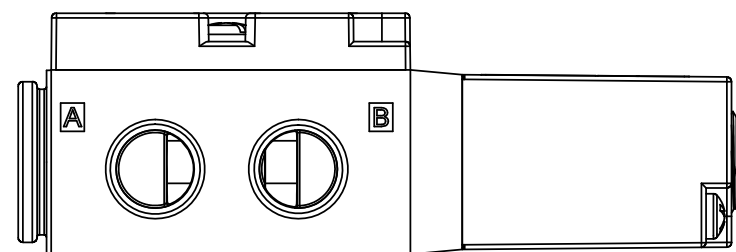
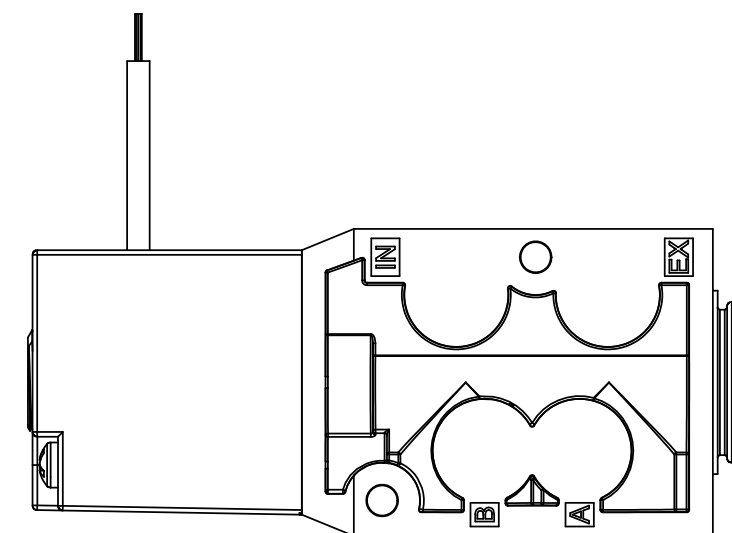
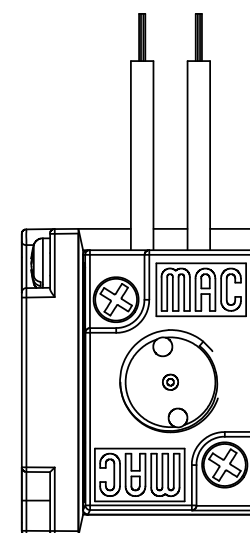
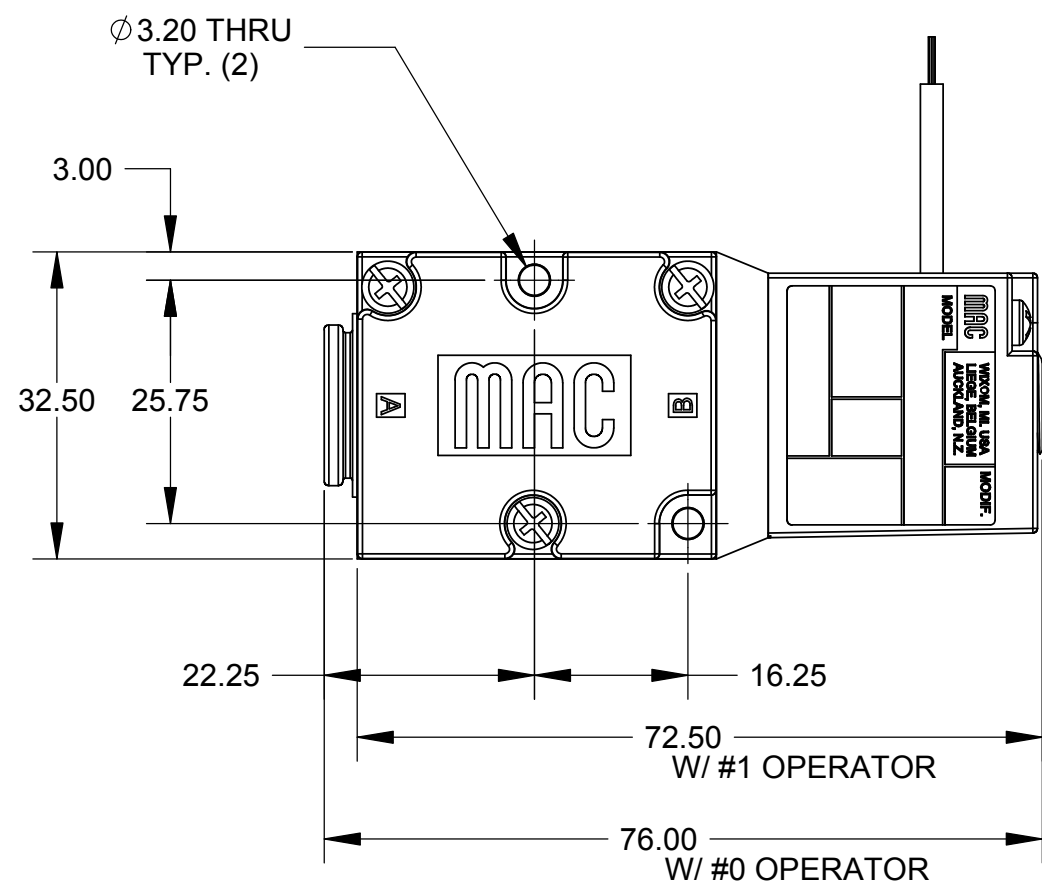
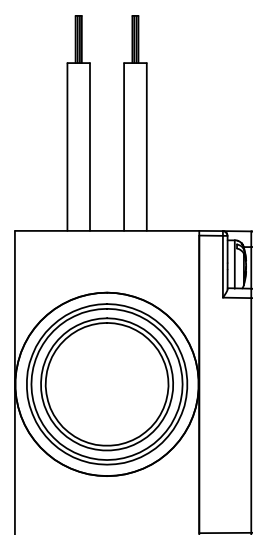
63299	Wire Connector Protector	5.50
M-46015	Valve Blanking Plate	10.65

Note: Regulator must be ordered separately

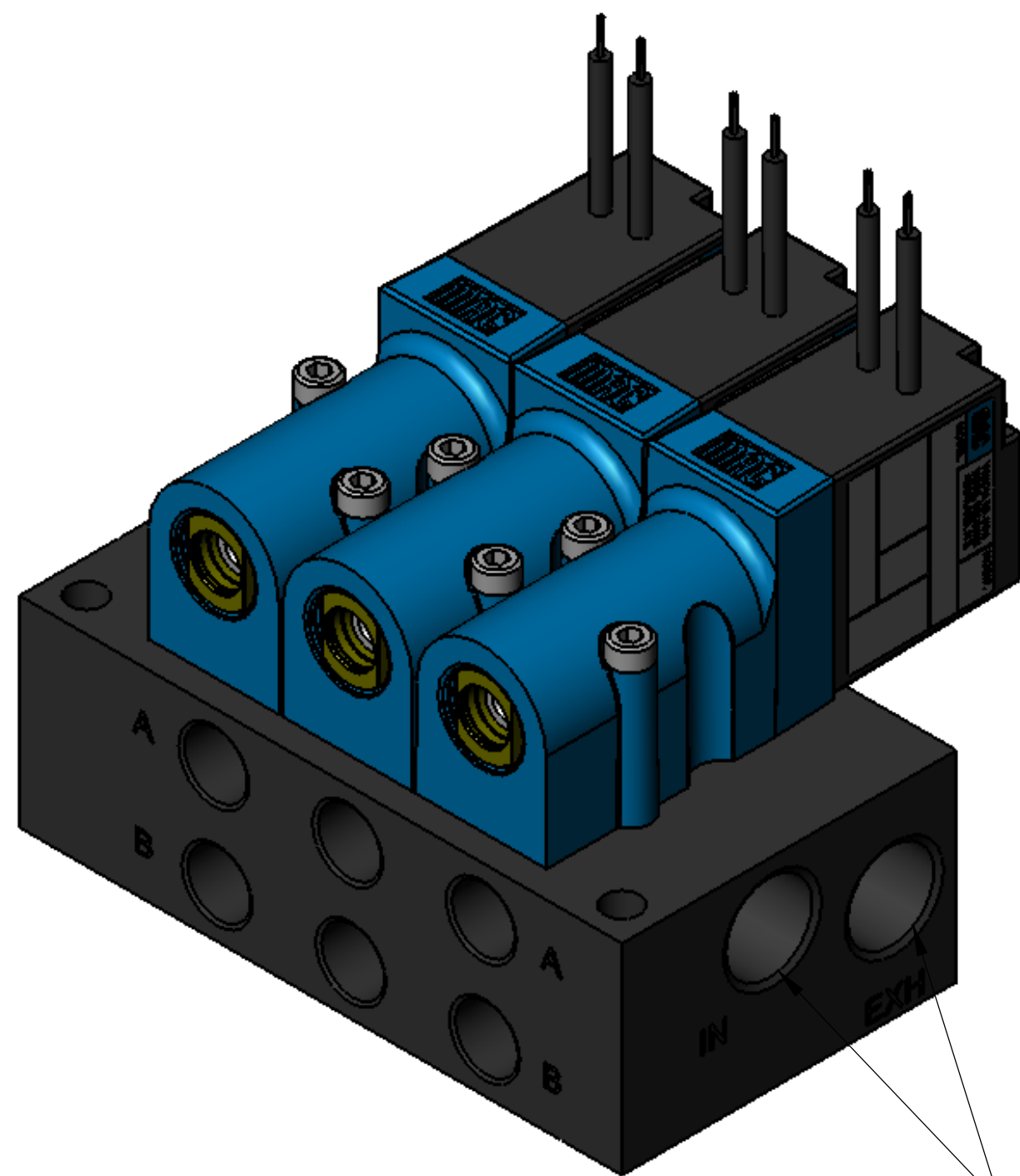
Valves or Plates Assembled to Bar – 2.85 per Bar plus 1.30 per Station



SHOWN WITH FLOW CONTROLS

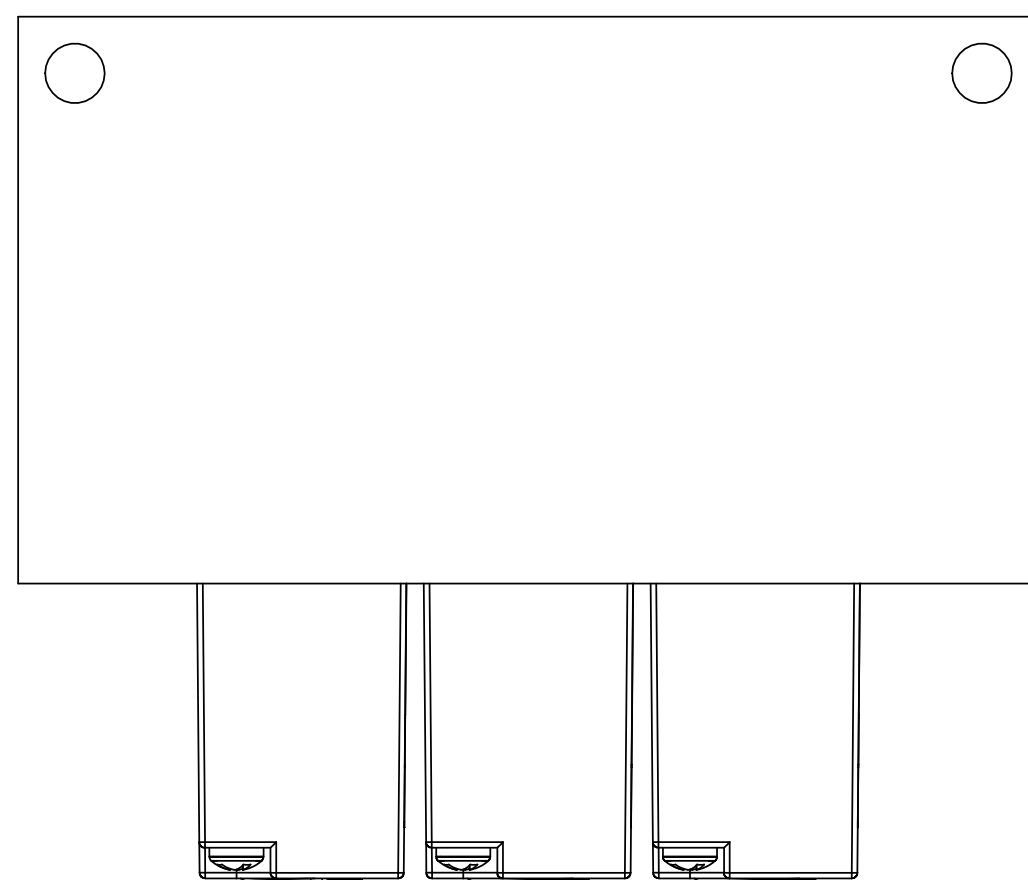
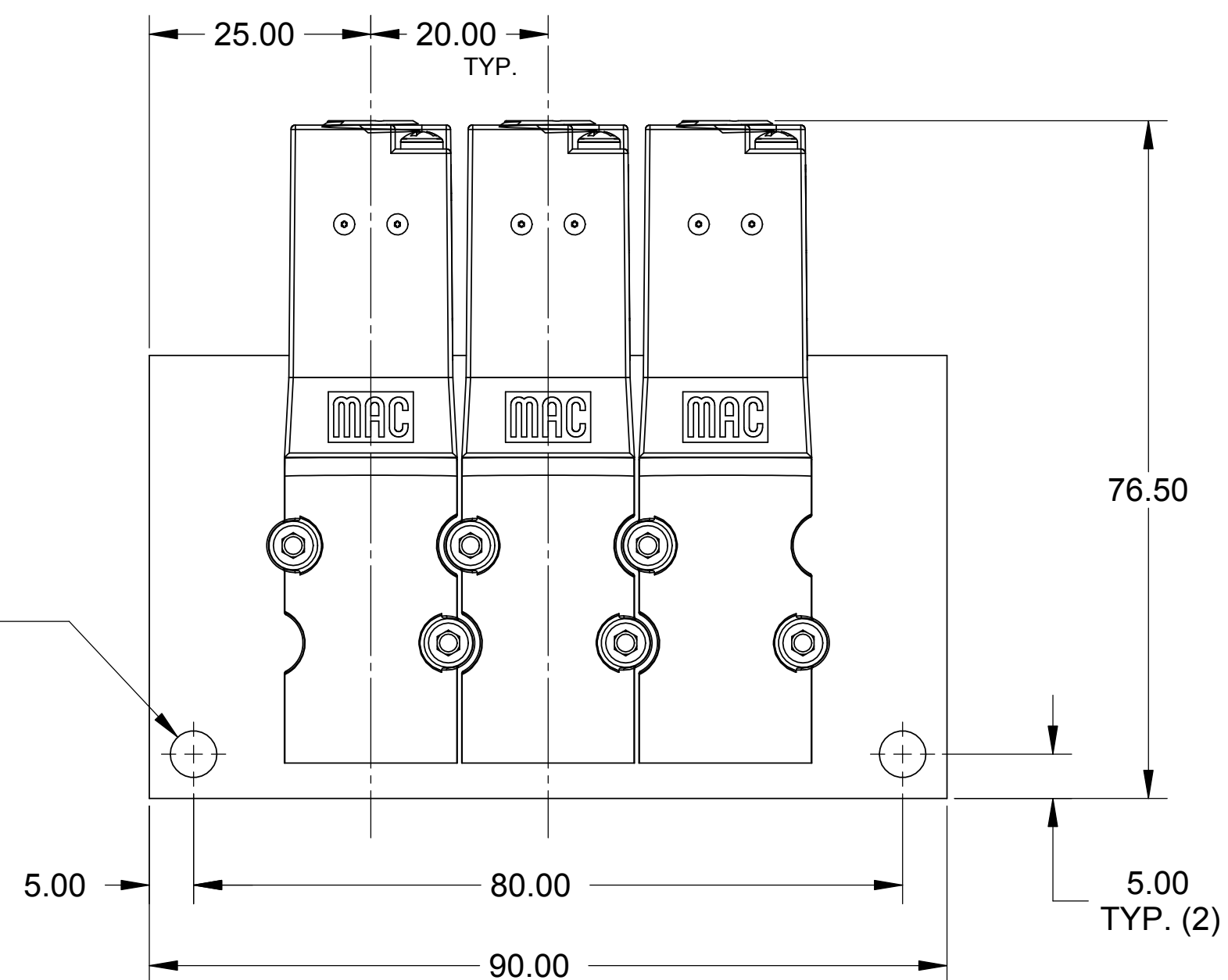


46L INLINE VALVE

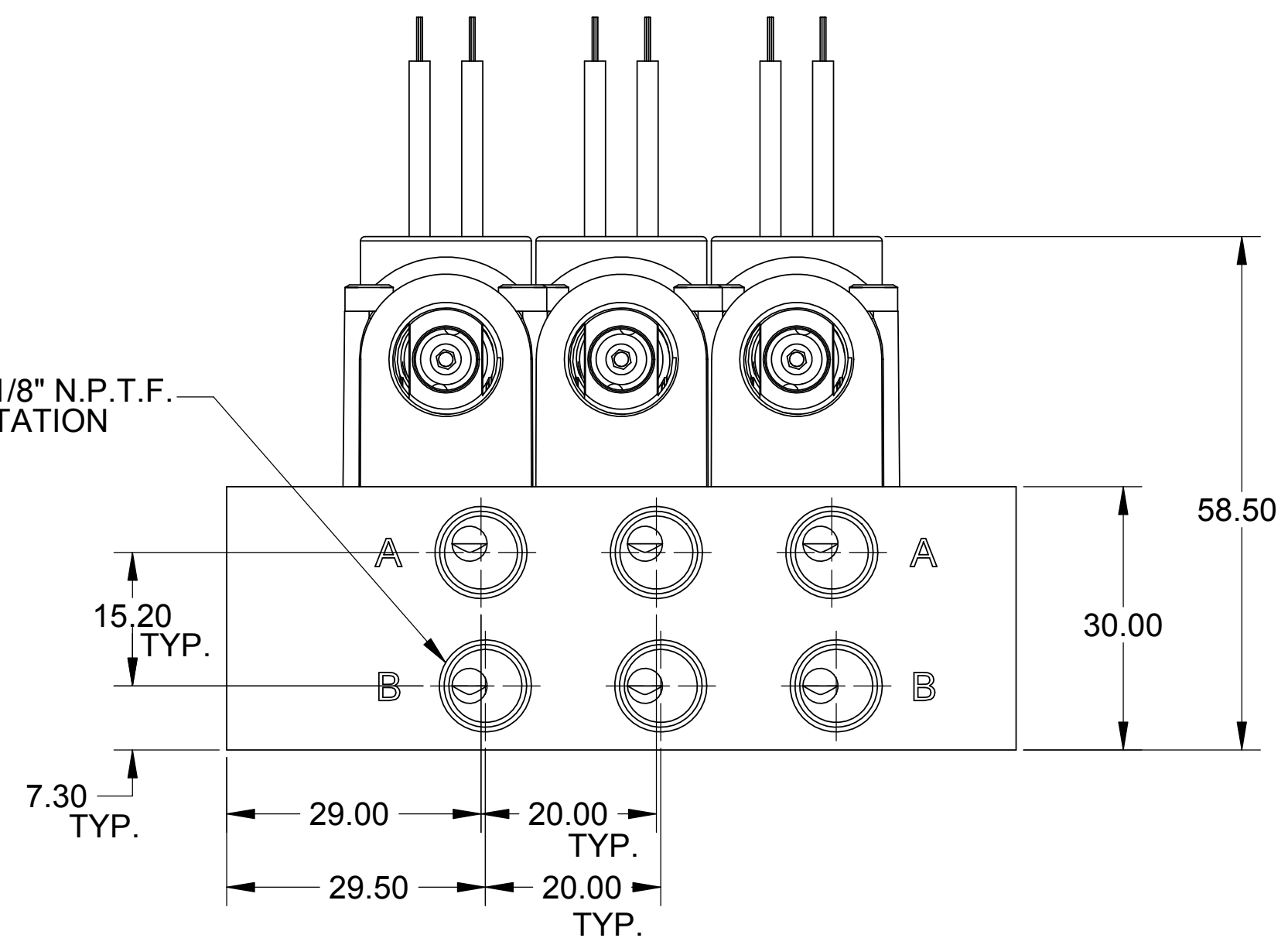


1/4" - 18 N.P.T.F TAP TO GAGE
TYP. (2) BOTH ENDS

Ø 5.25 THRU
TYP. (2)



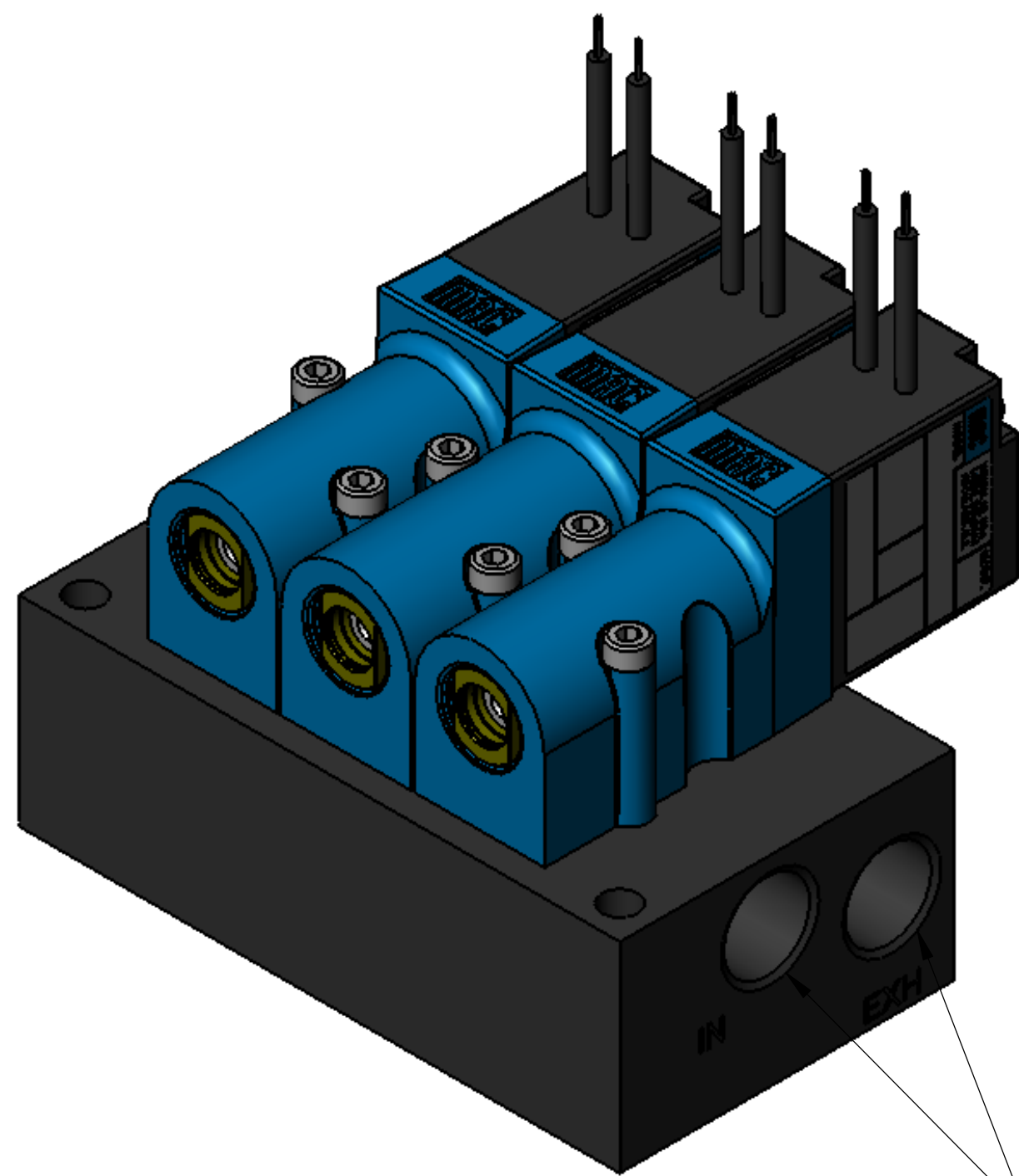
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



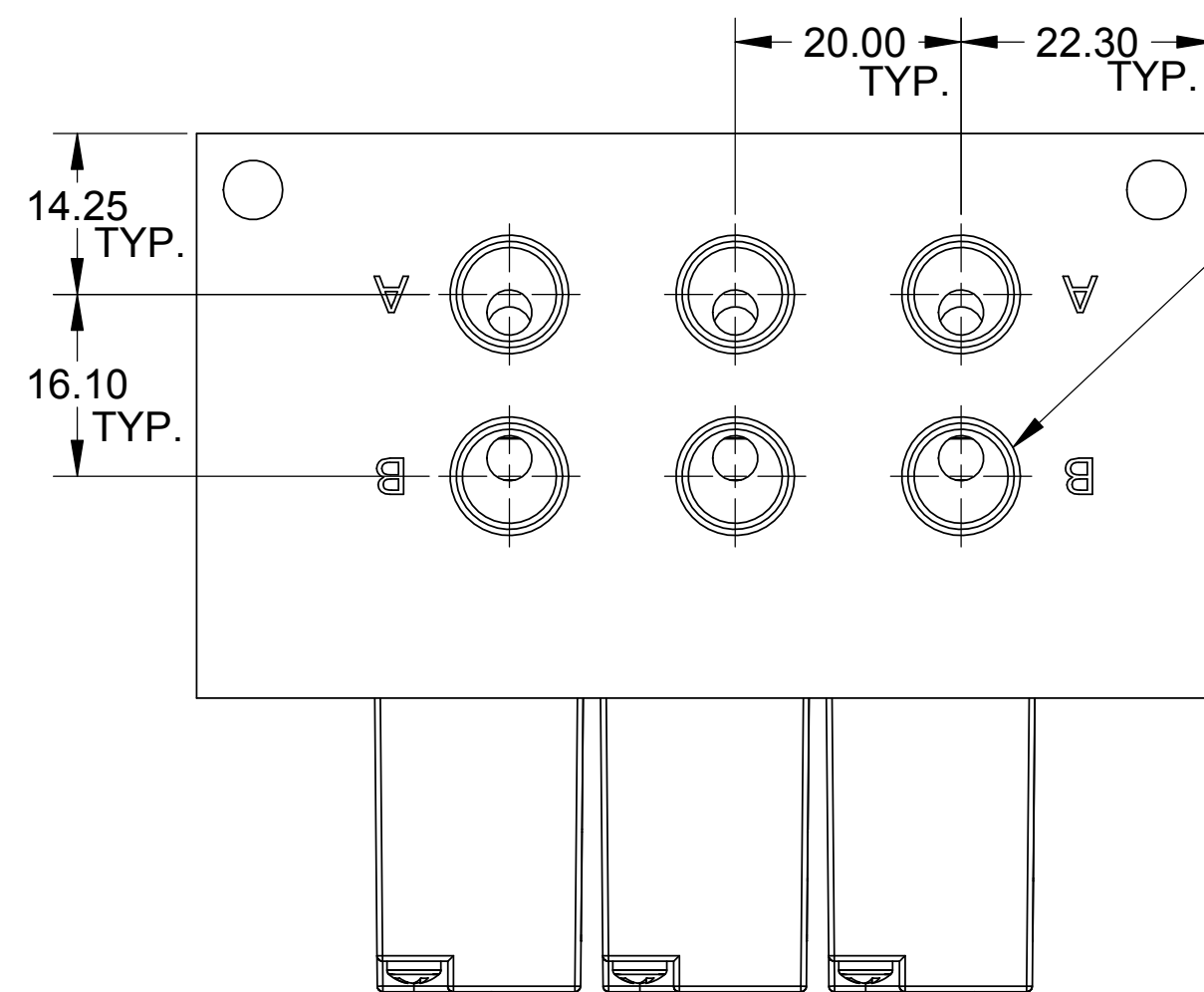
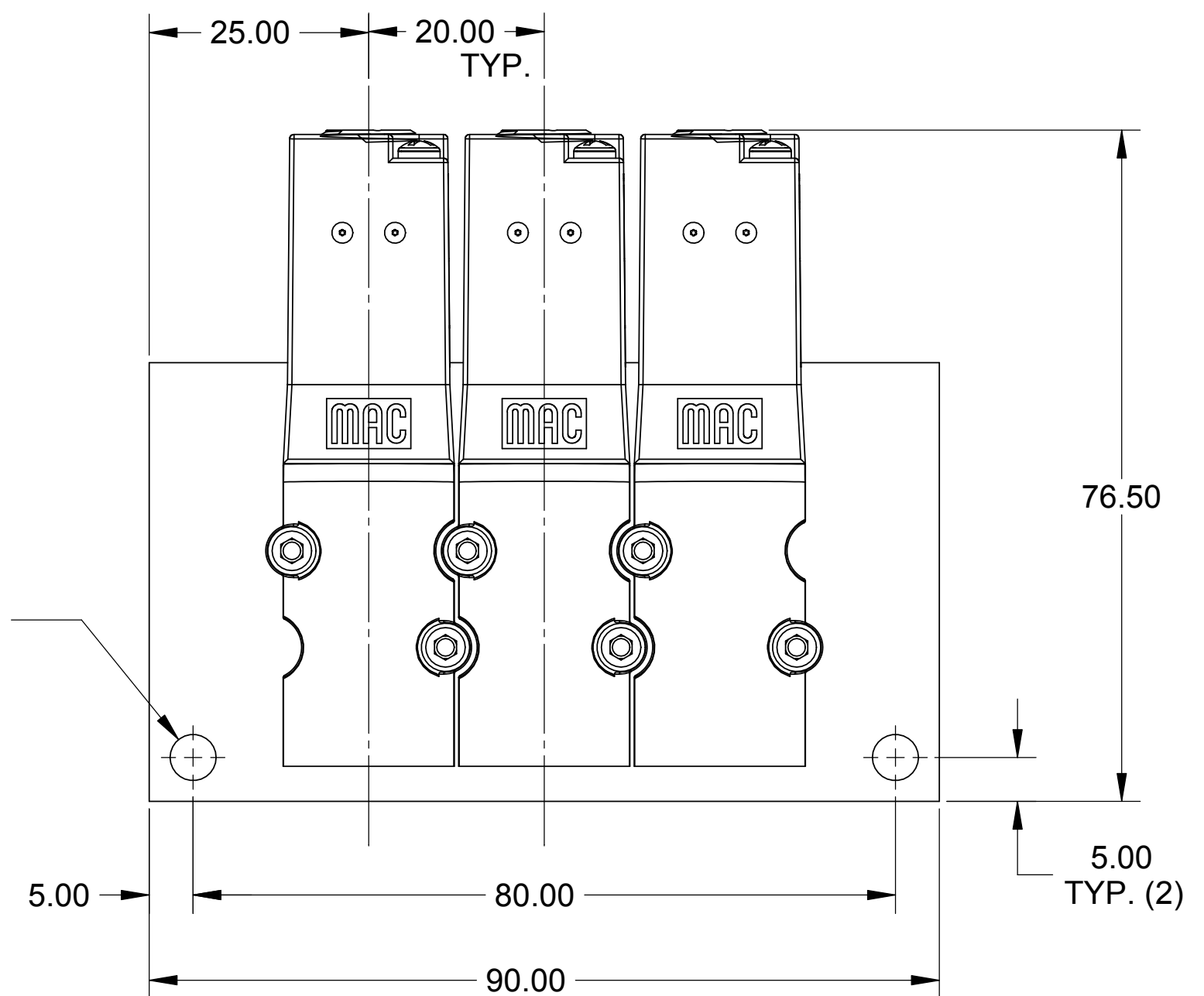
EBM46LA-00AAA-XX

*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

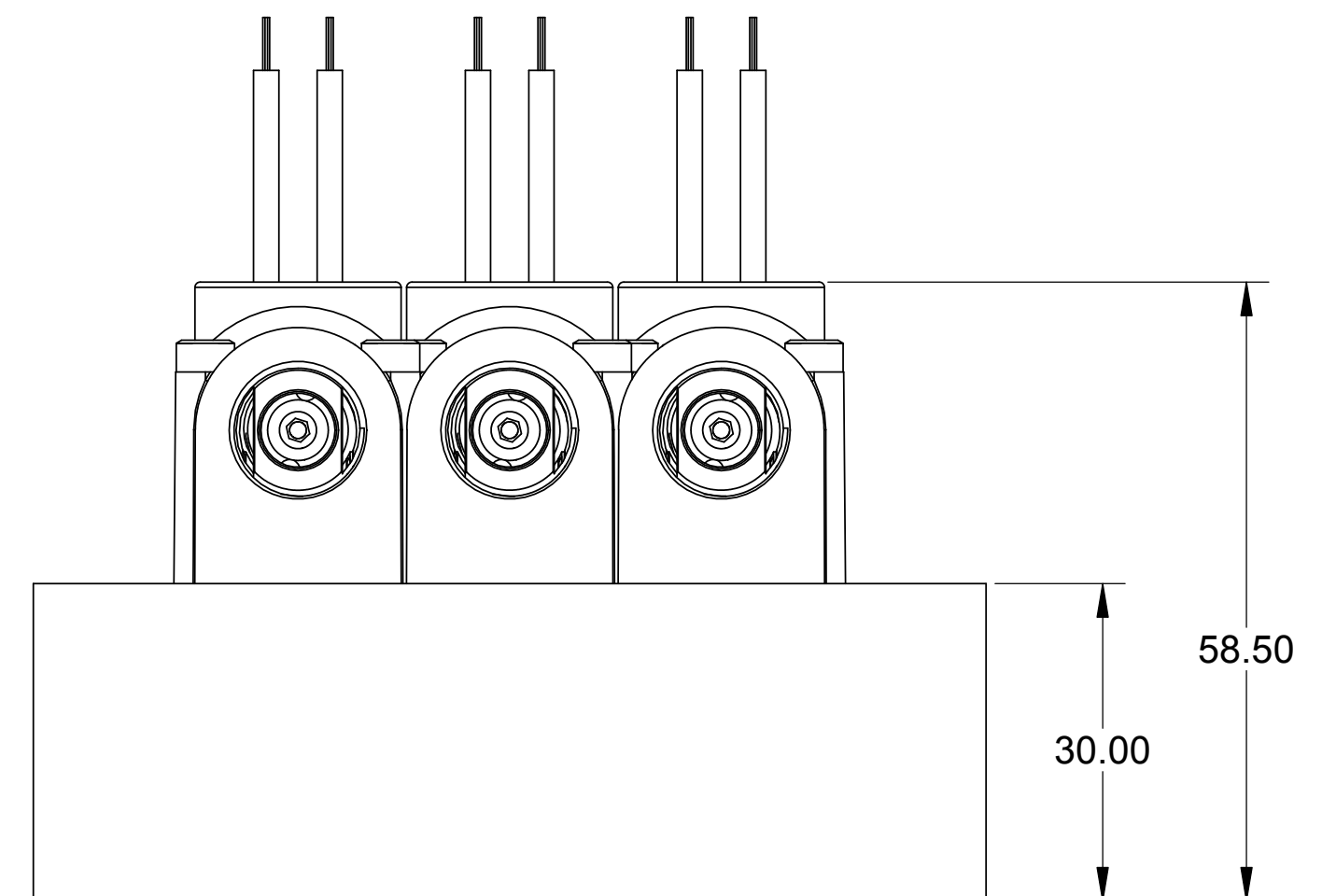
*SHOWN W/ #1 OPERATOR



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



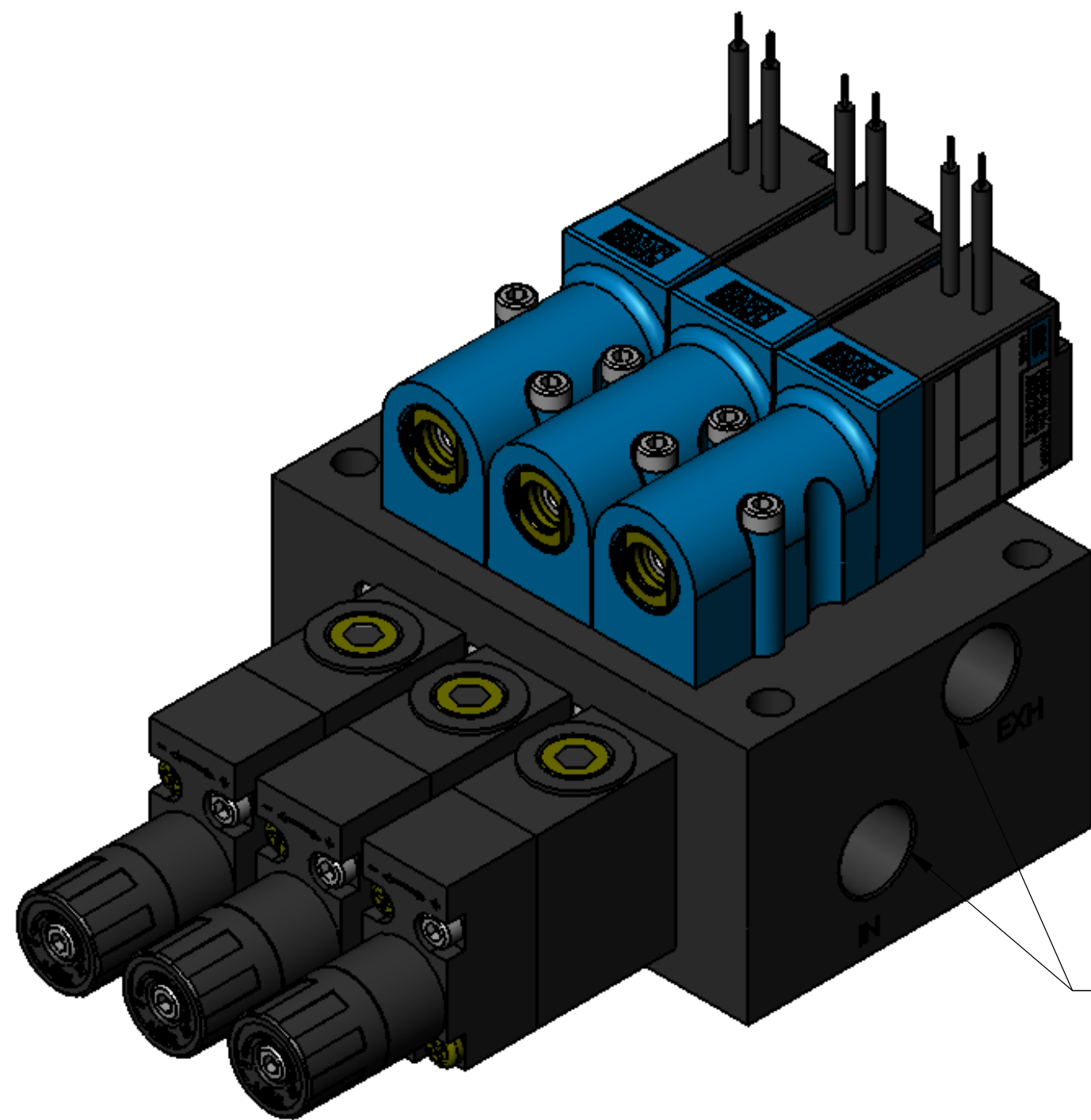
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



EBM46LA-00BAA-XX

* 26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

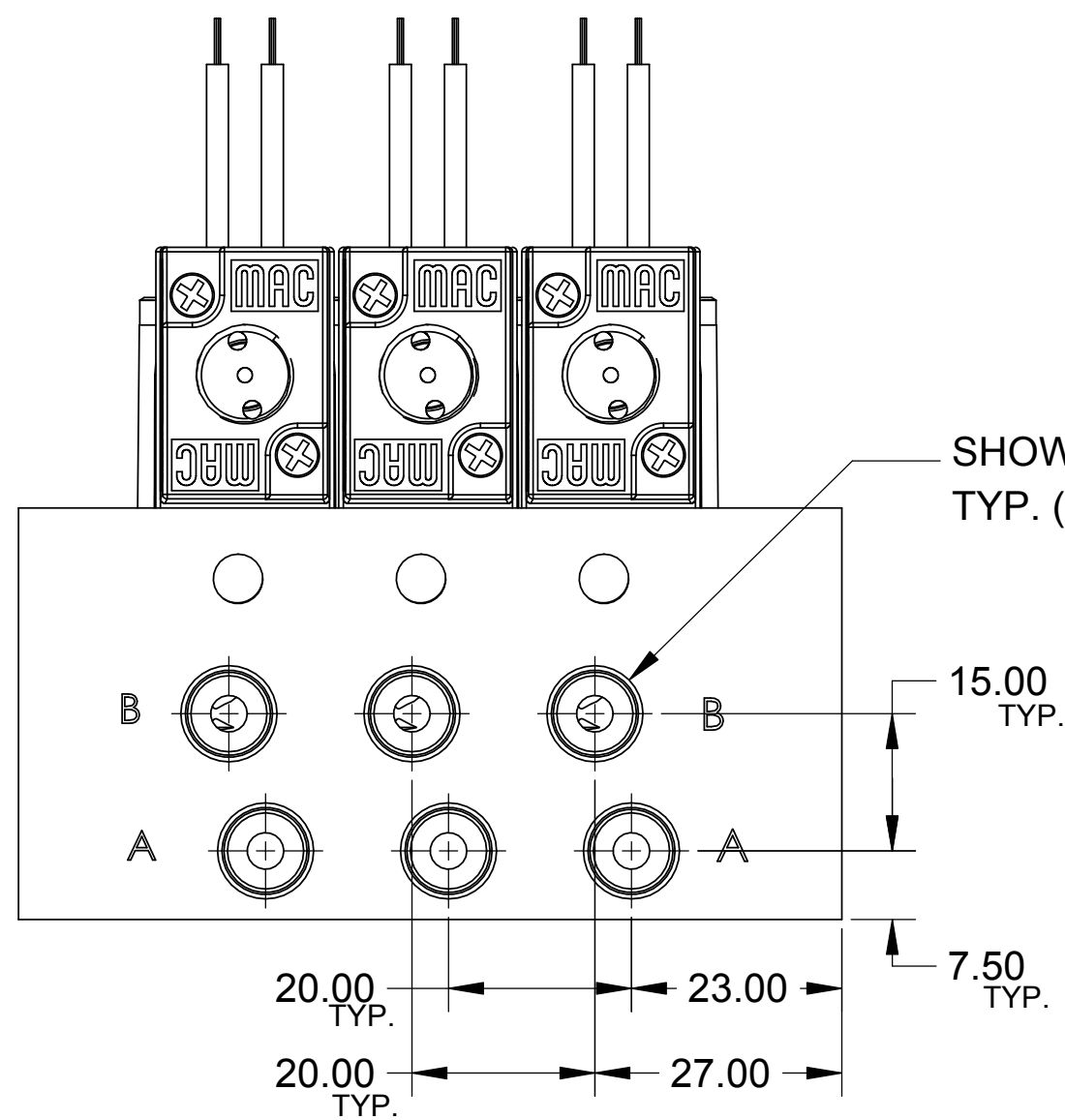
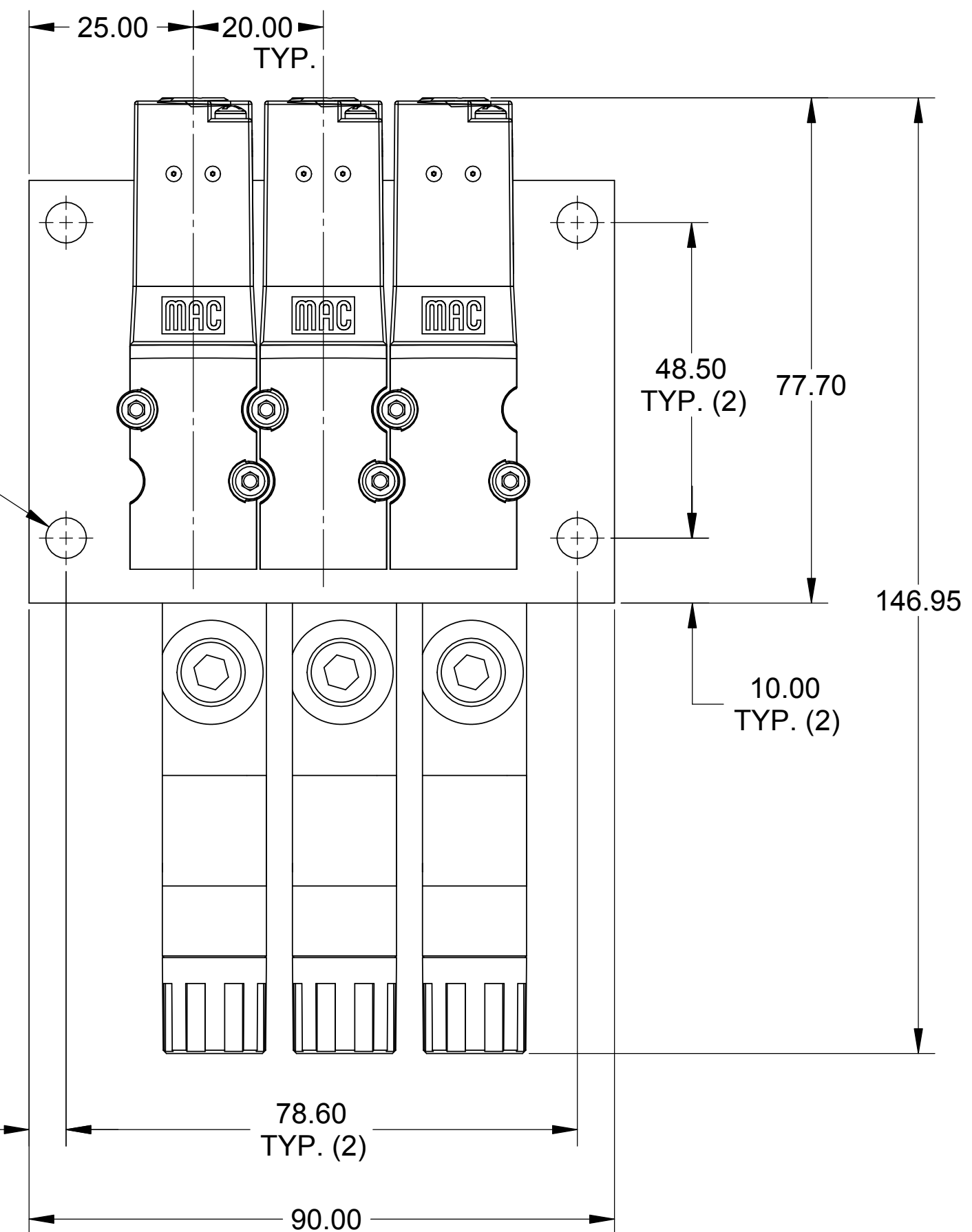
* SHOWN W/ #1 OPERATOR



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

6.25 THRU
TYP. (4)

5.70
TYP. (2)



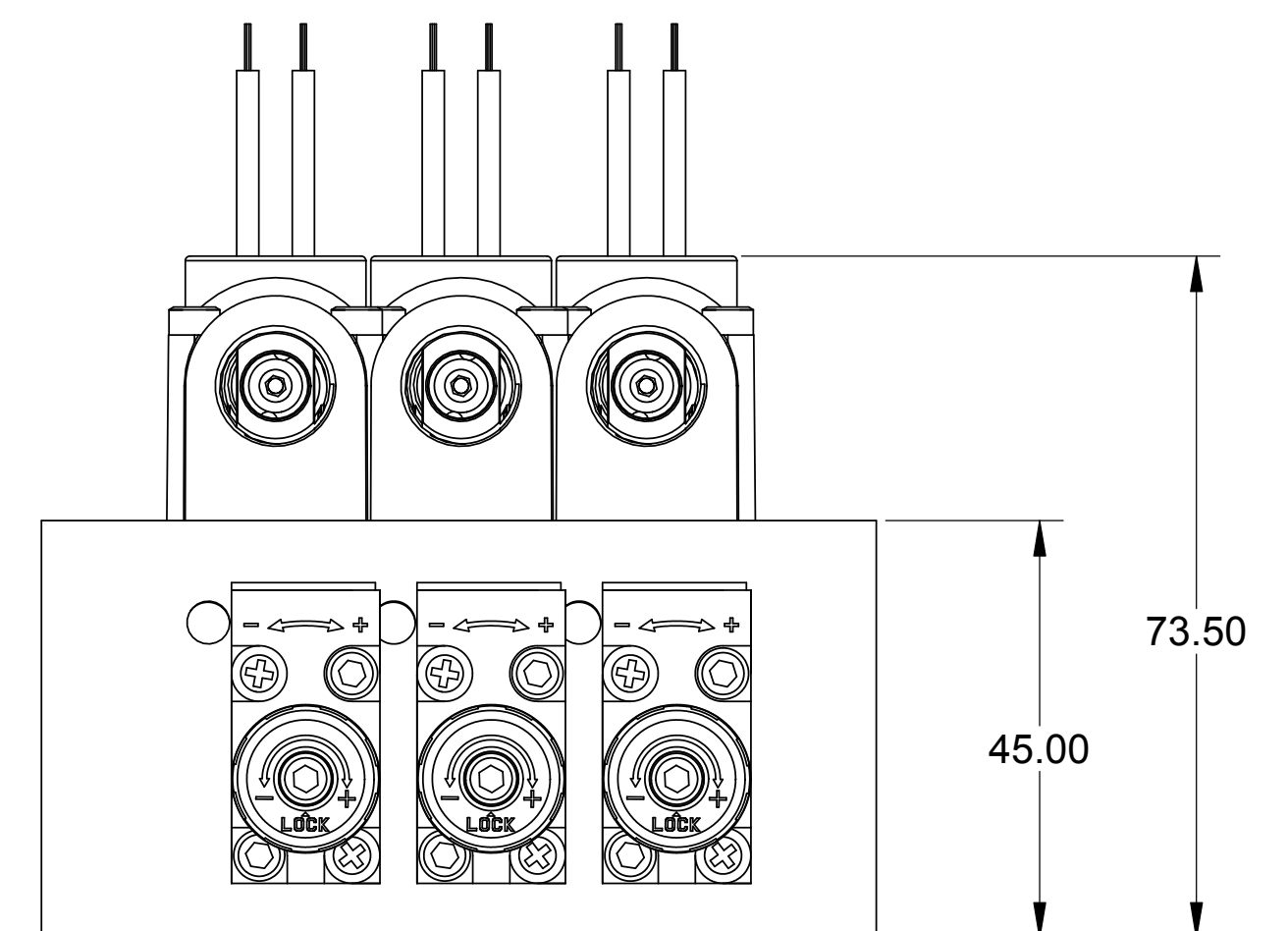
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TYP. (2) PER STATION

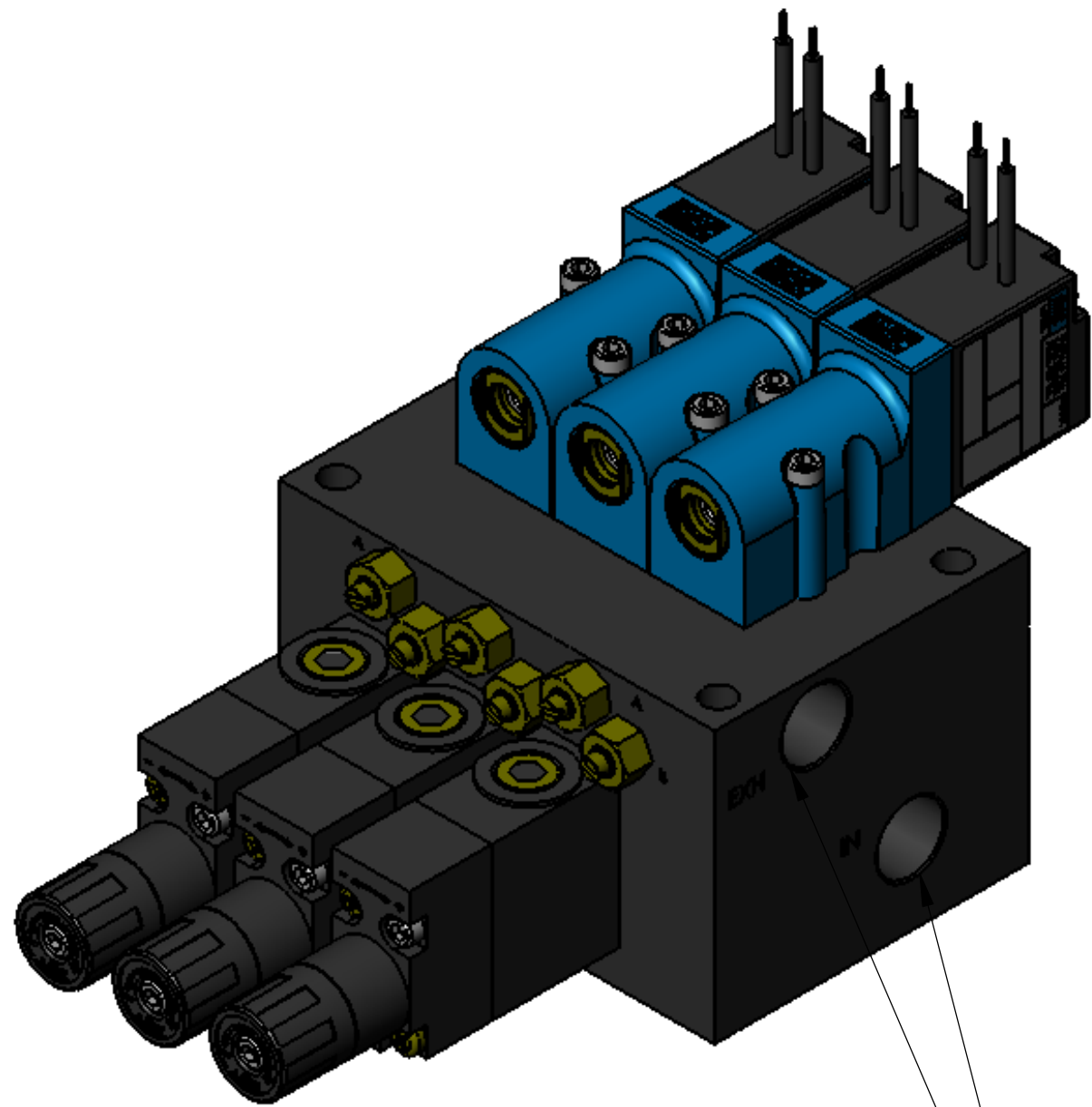
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*SHOWN WITH PR46A-0BAA

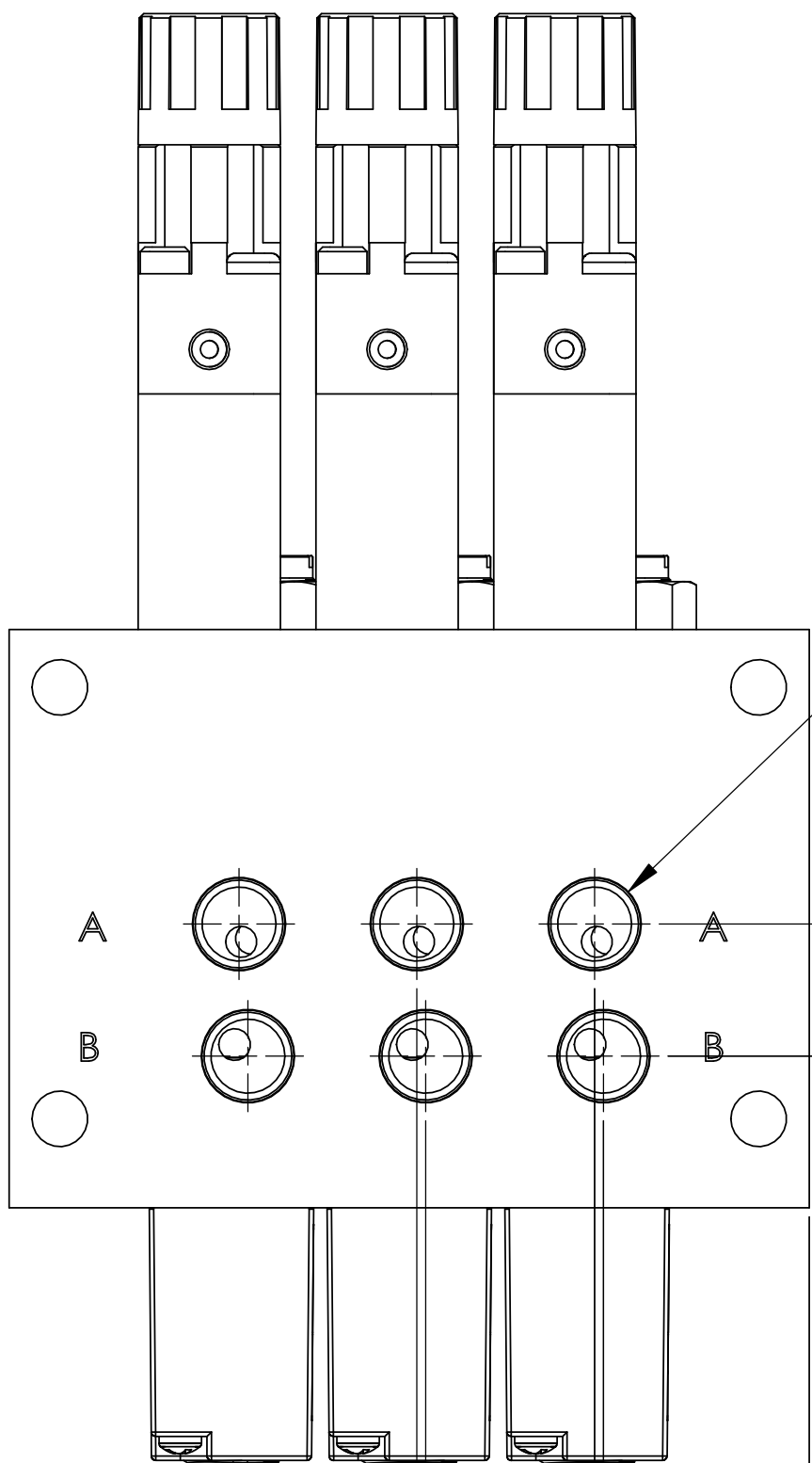
*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

*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

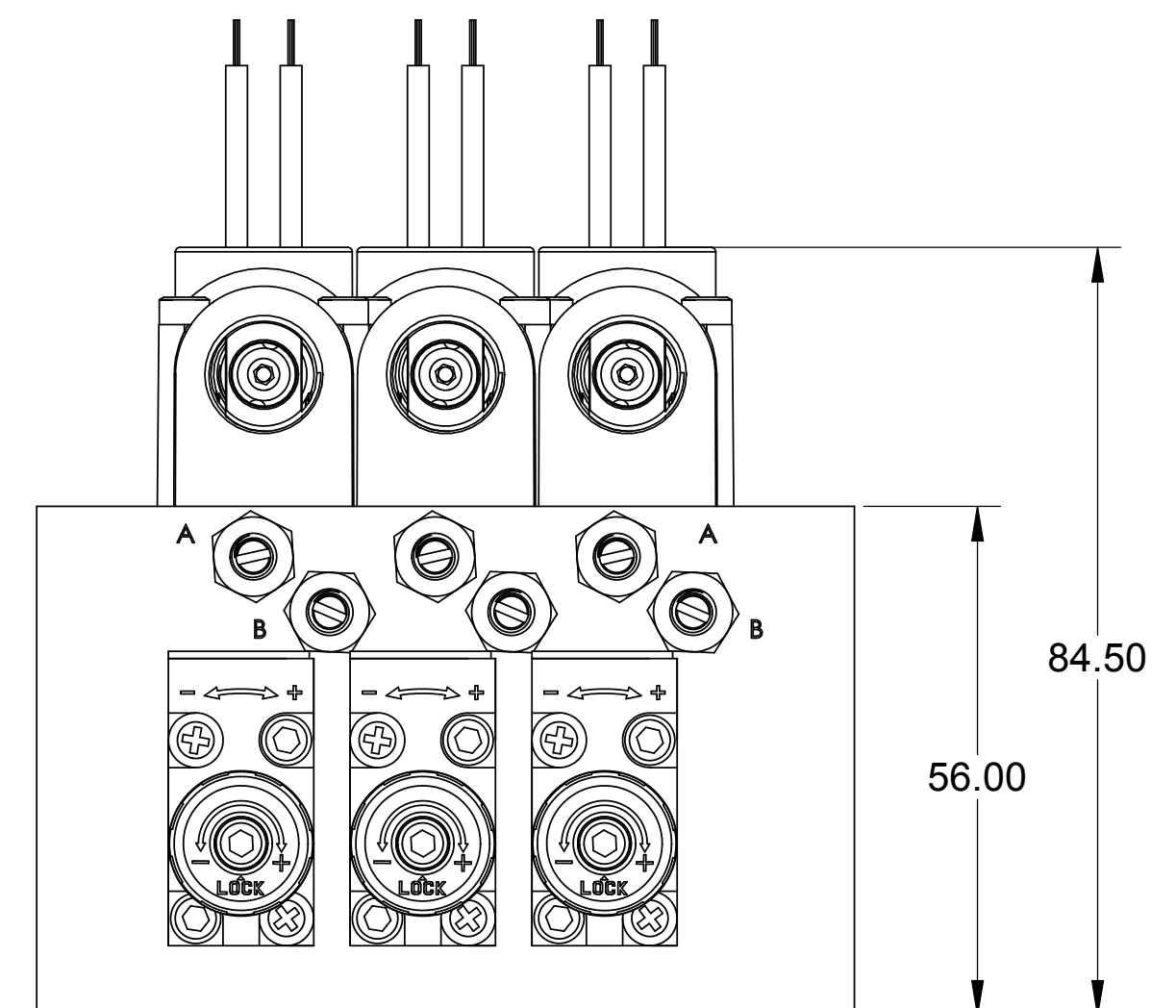
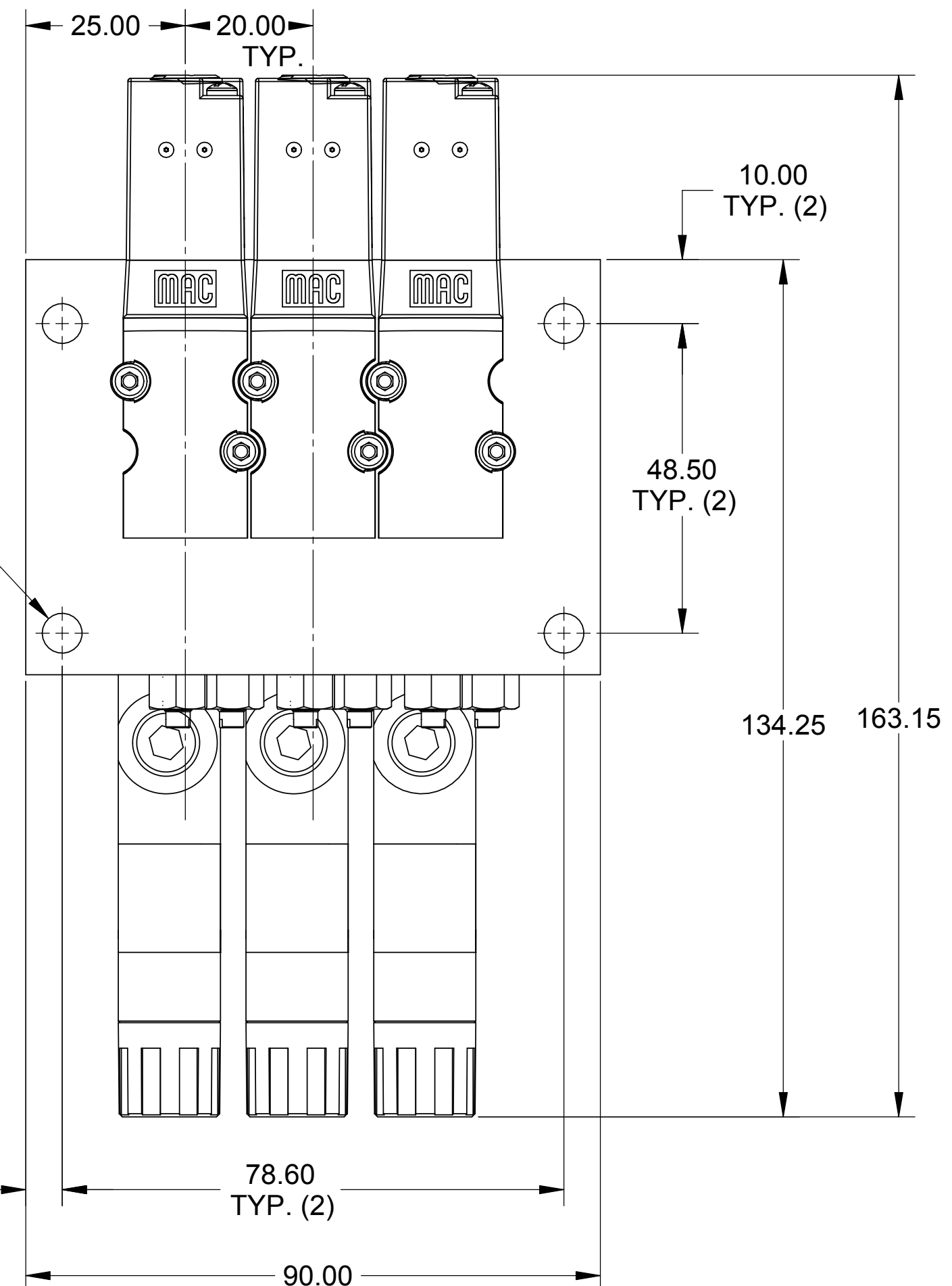
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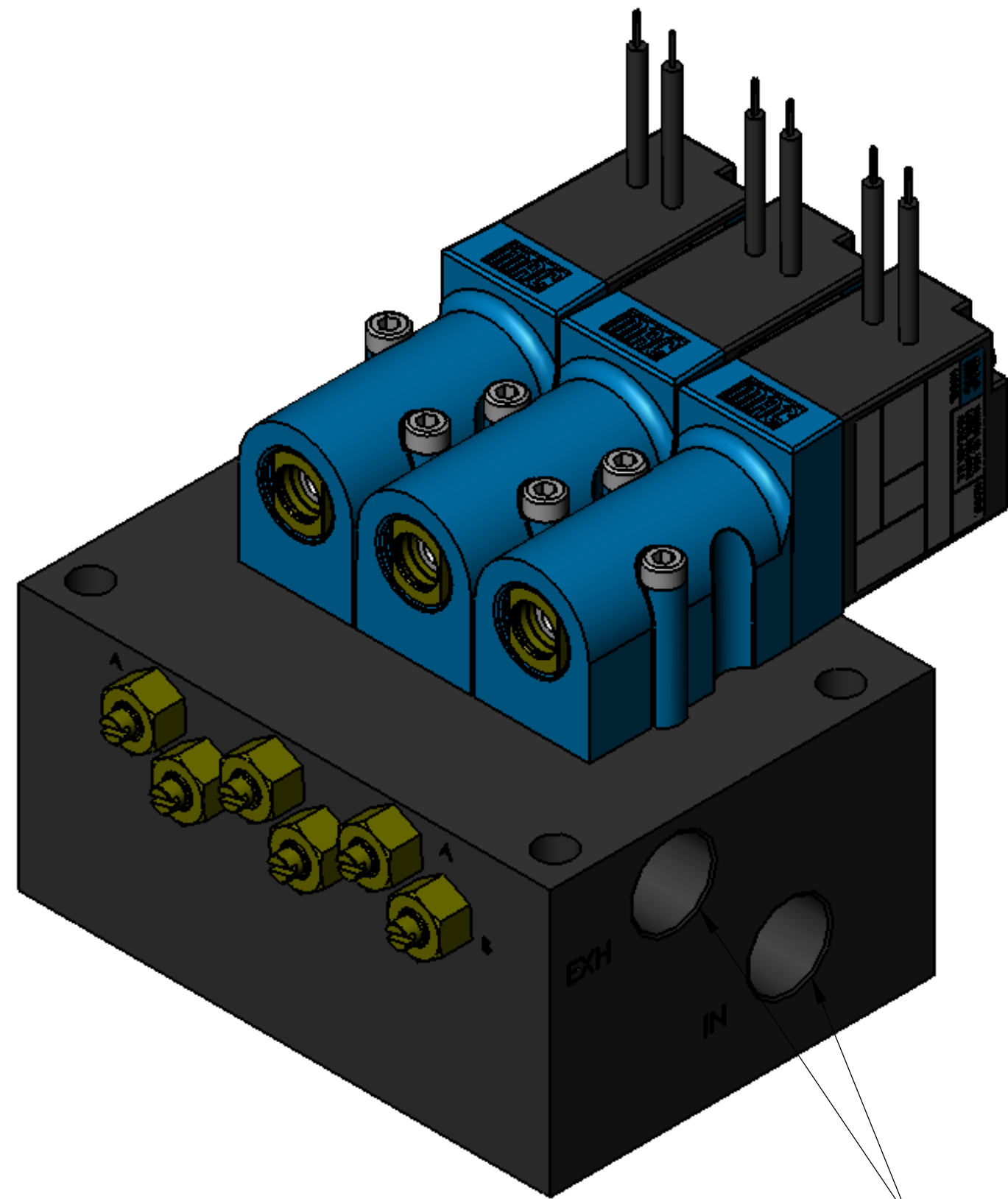
*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

*SHOWN W/ #1 OPERATOR

6.25 THRU
TYP. (4)

5.70
TYP. (2)





6.25 THRU
TYP. (4)

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

5.70
TYP. (2)

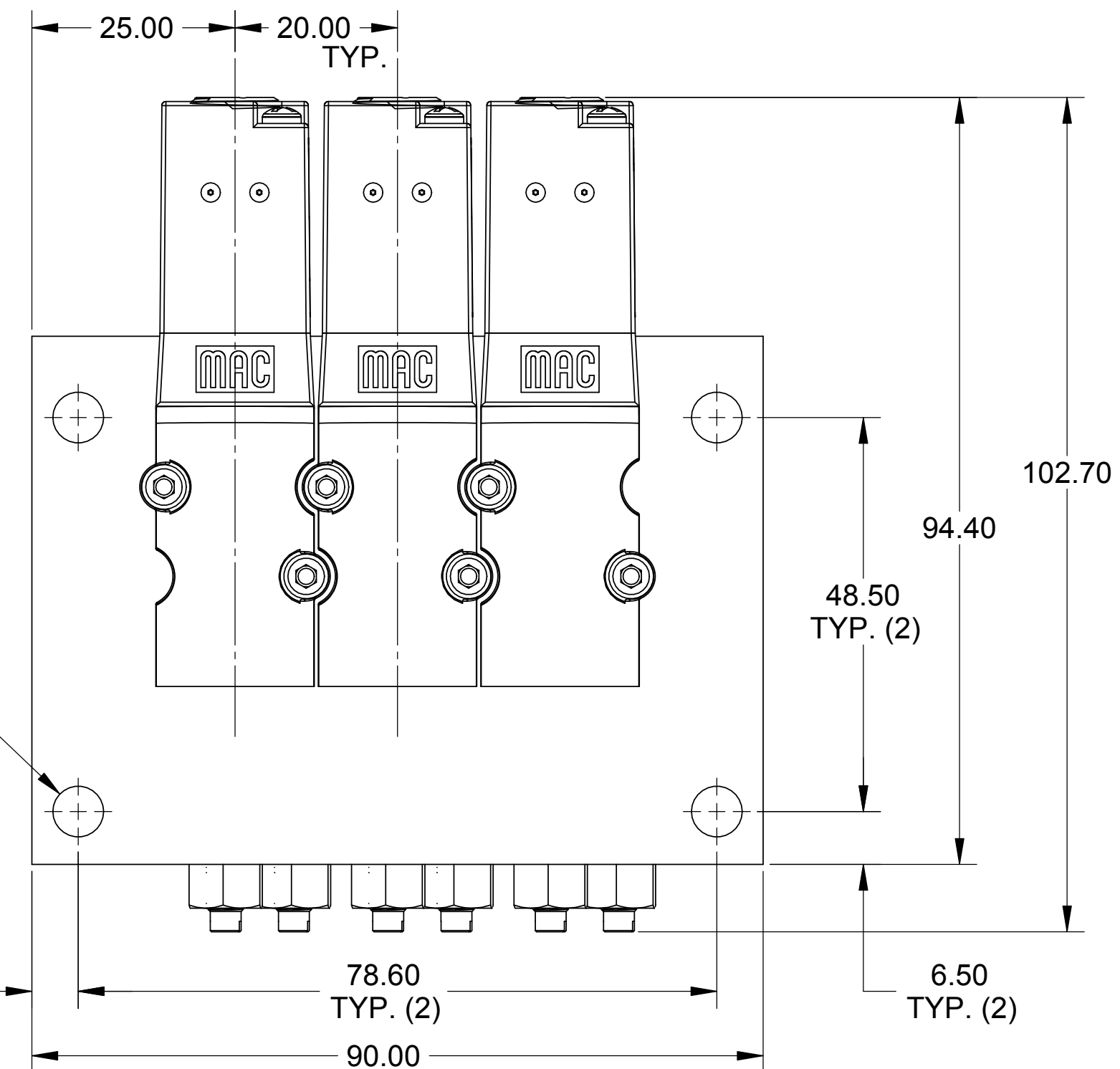
78.60
TYP. (2)

6.50
TYP. (2)

102.70

94.40

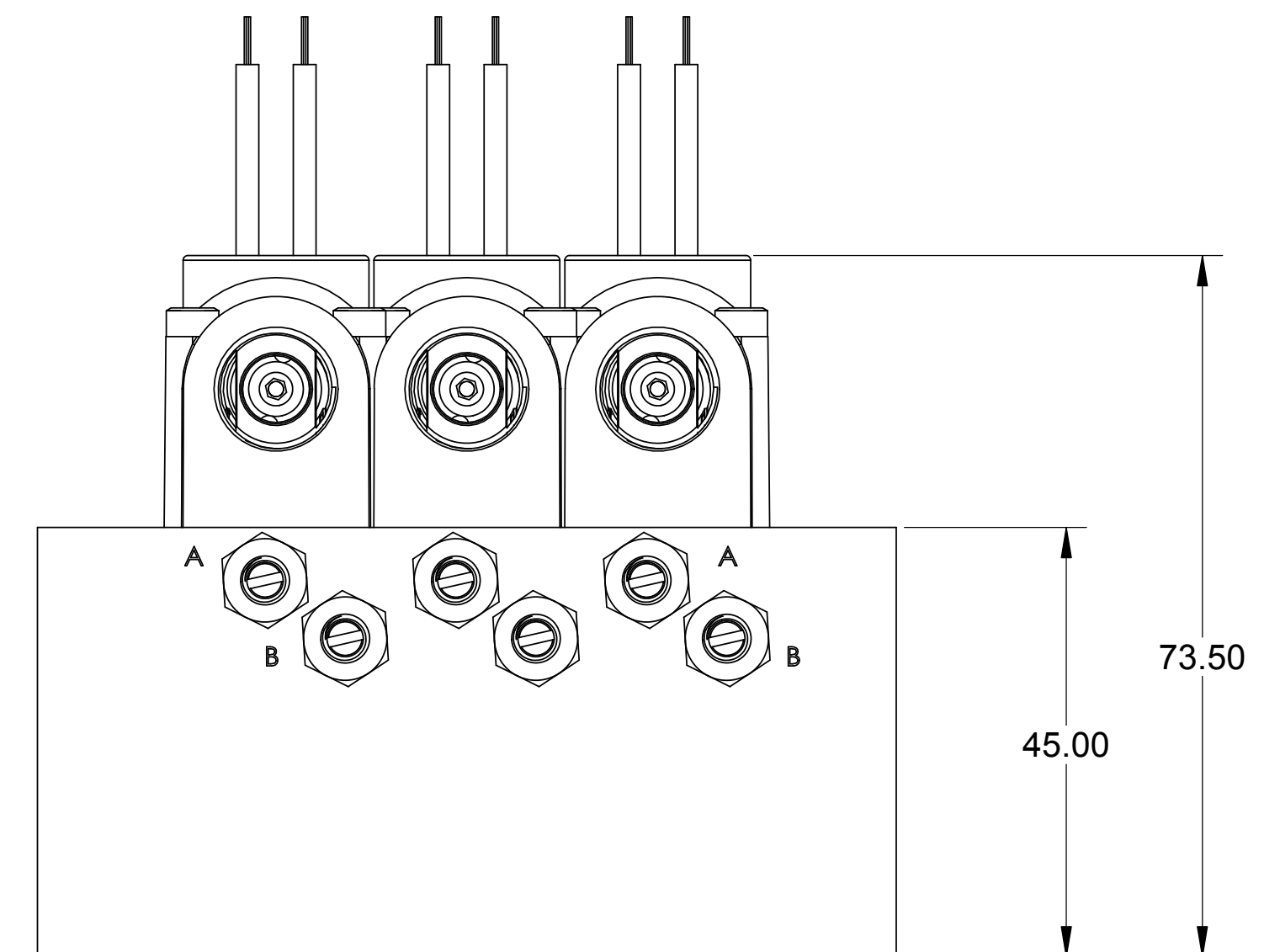
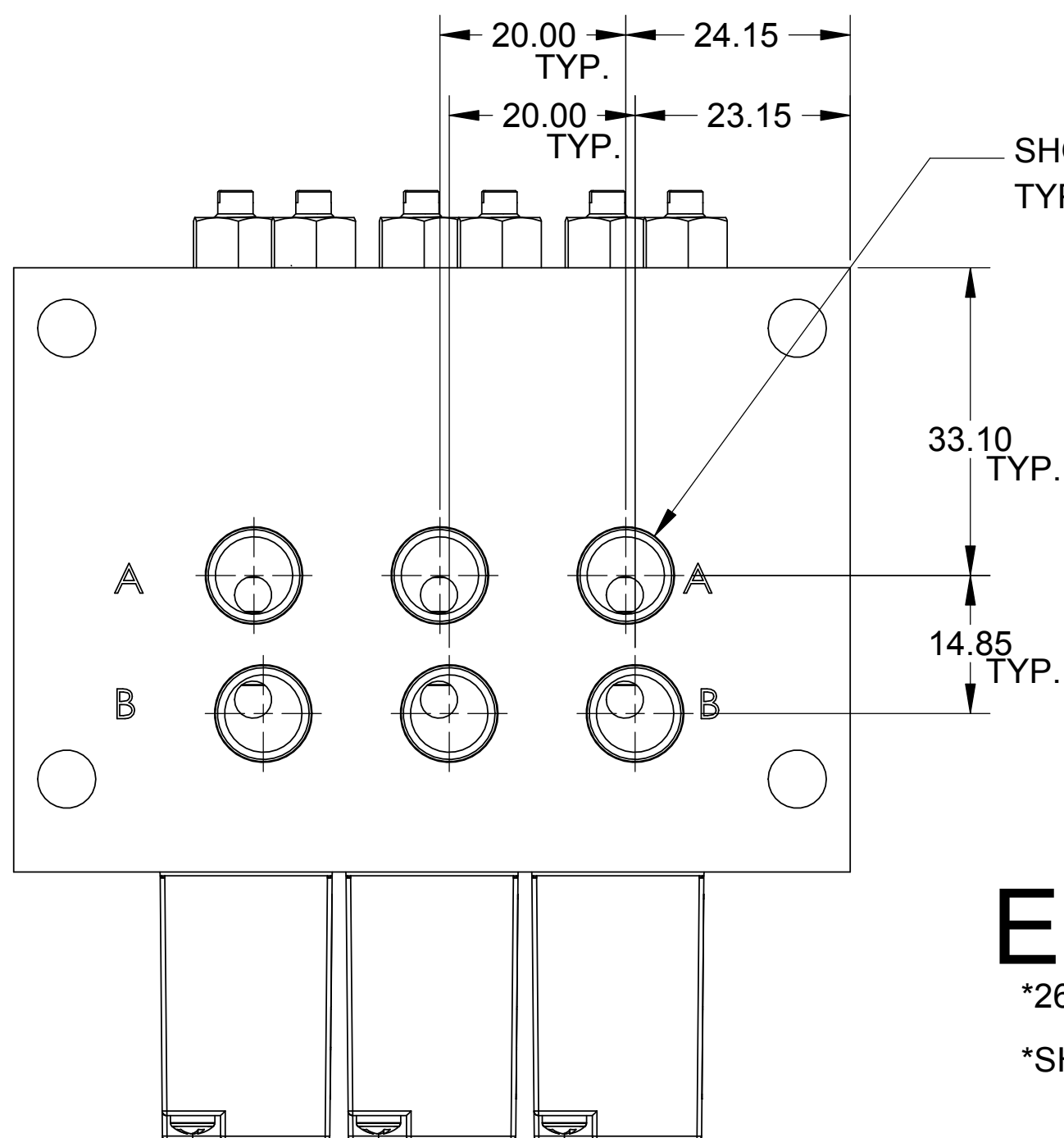
48.50
TYP. (2)



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

33.10
TYP.

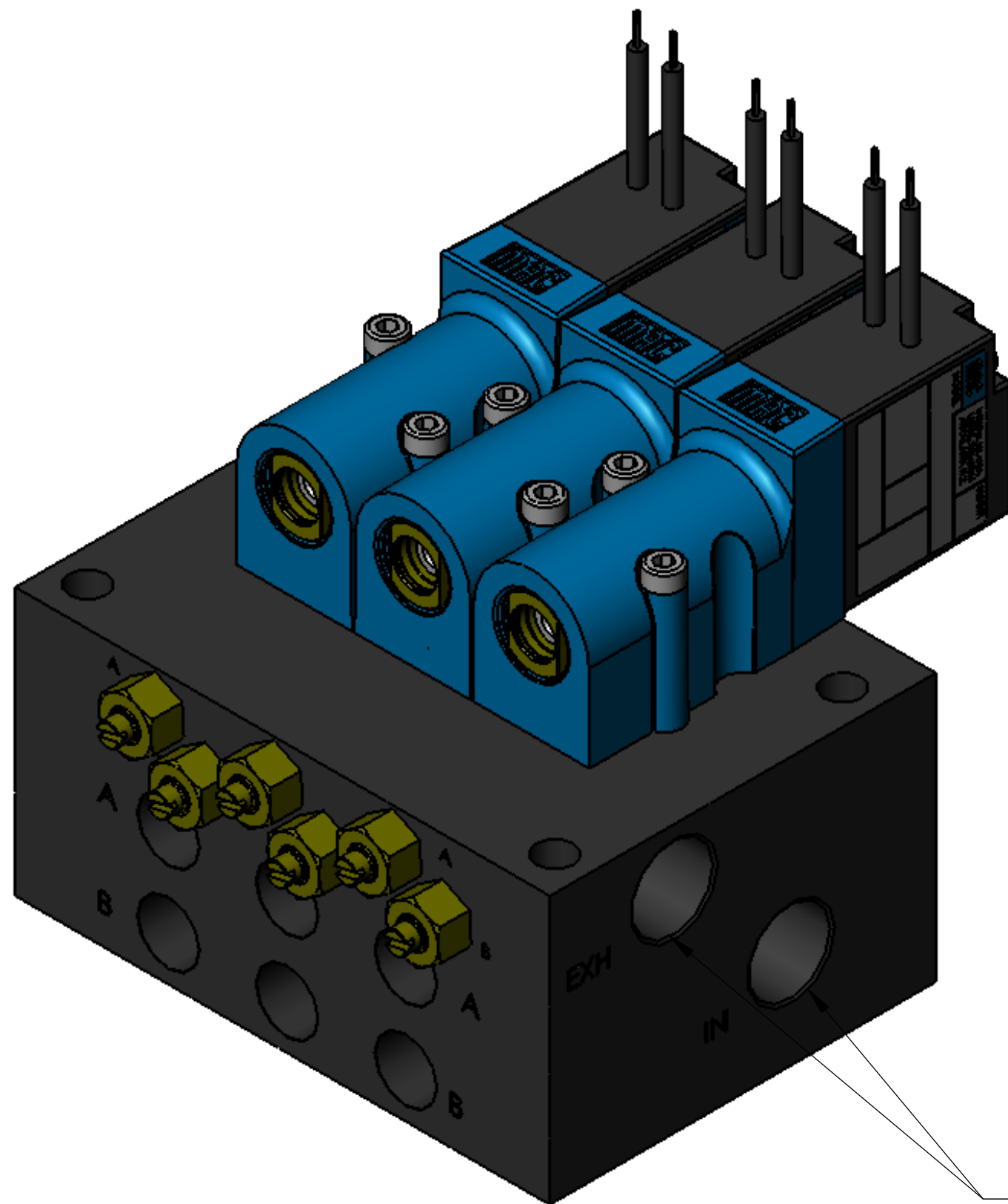
14.85
TYP.



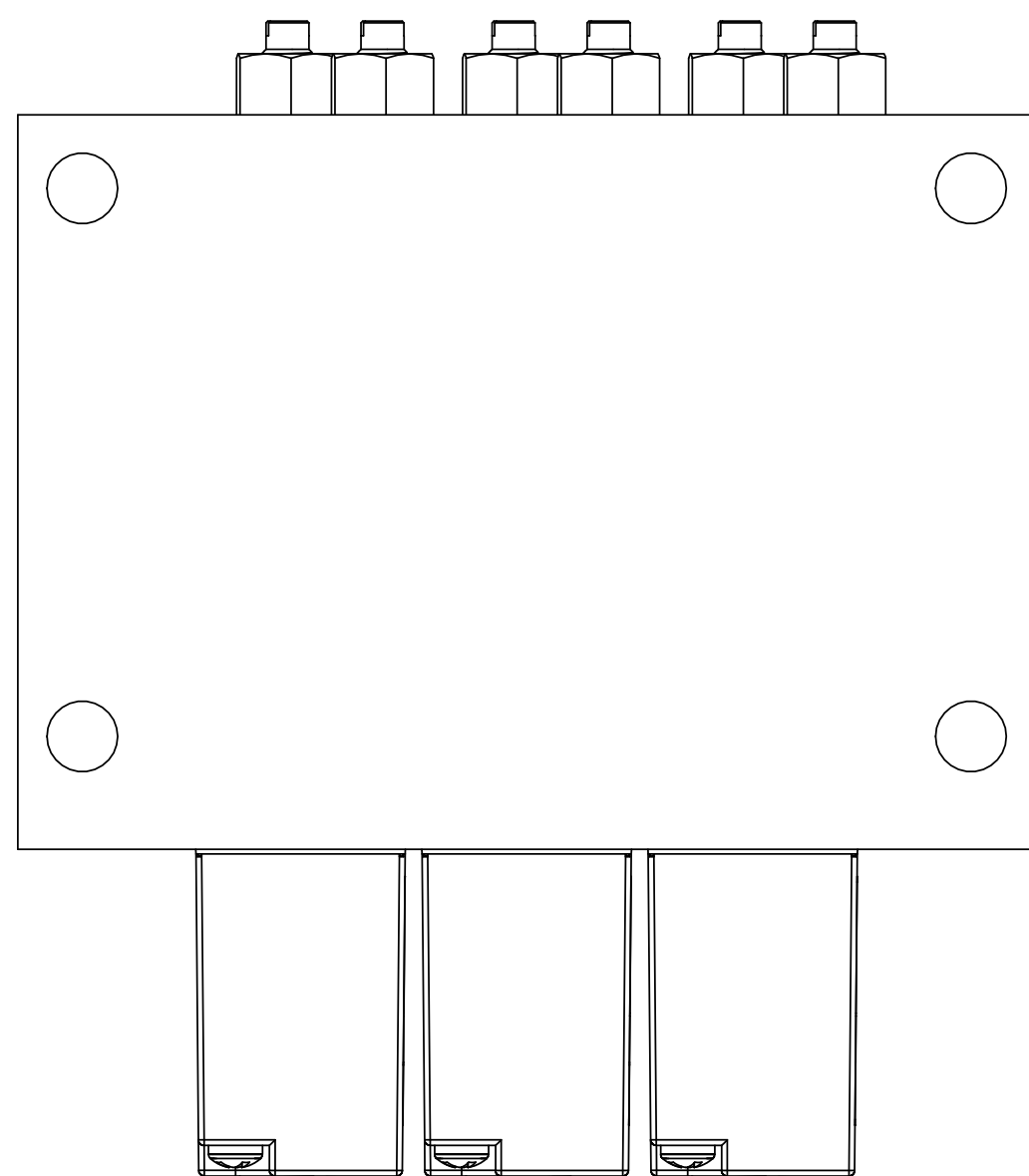
EBM46LA-00EAA-XX

*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)

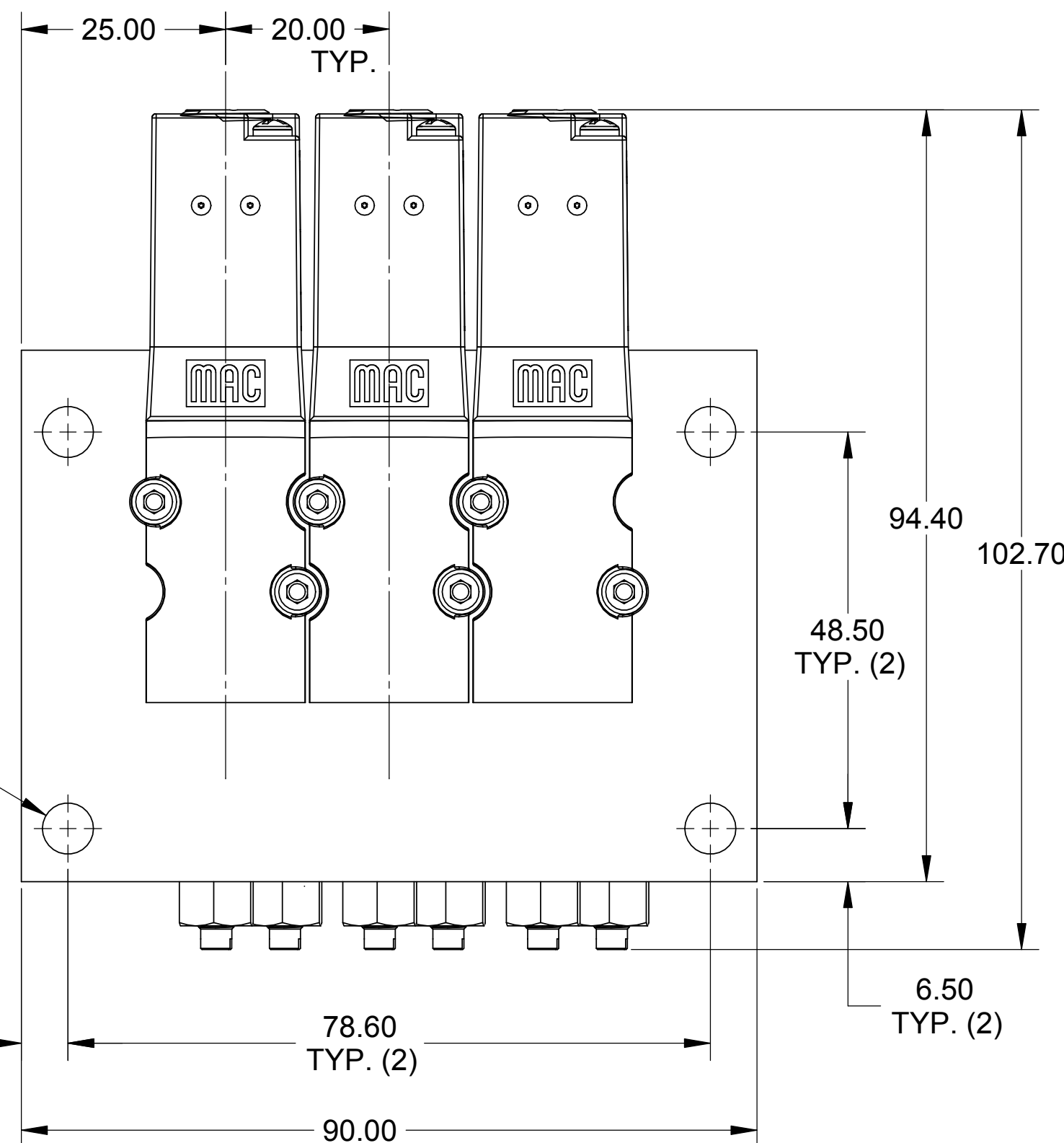
78.60
TYP. (2)

6.50
TYP. (2)

48.50
TYP. (2)

94.40

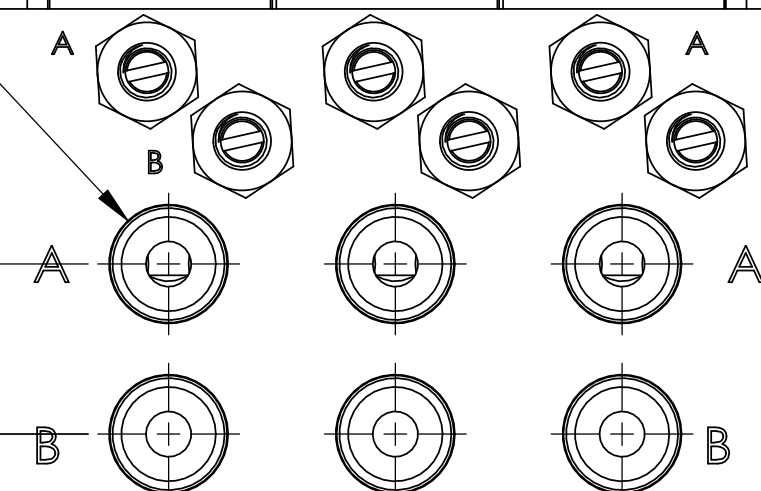
102.70



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

7.50
TYP.

15.00
TYP.



73.50

45.00

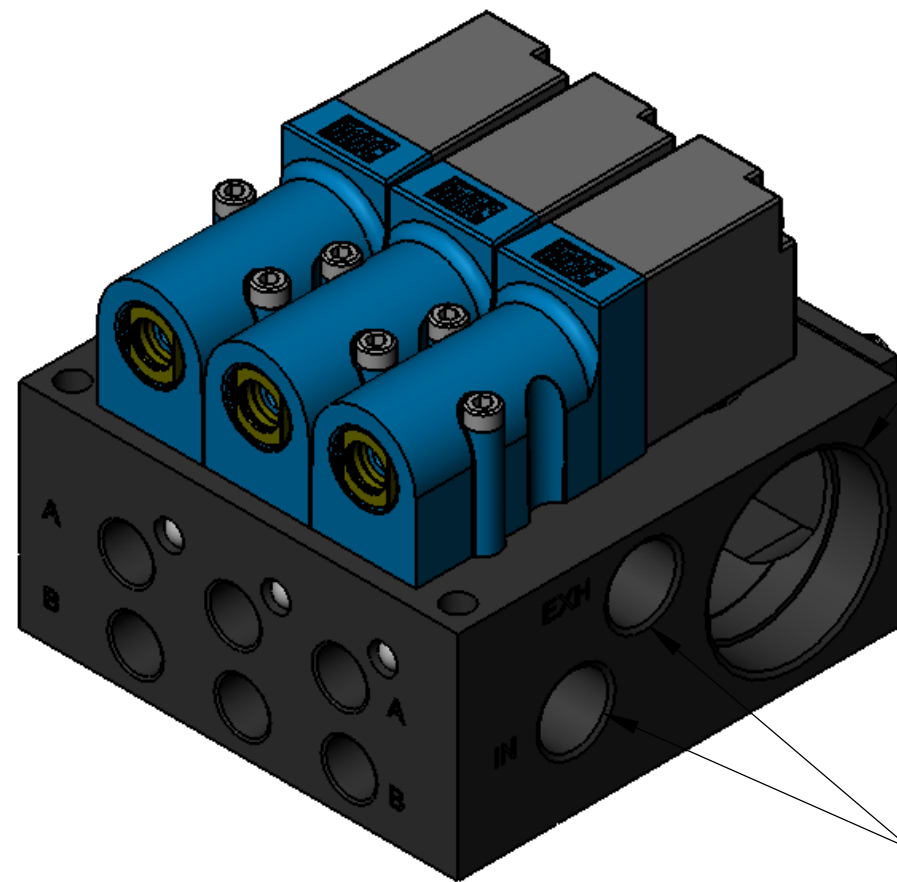
25.75
TYP.

20.00
TYP.

EBM46LA-00DAA-XX

*26mm SPACING AVAILABLE FOR RECTANGULAR CONNECTORS

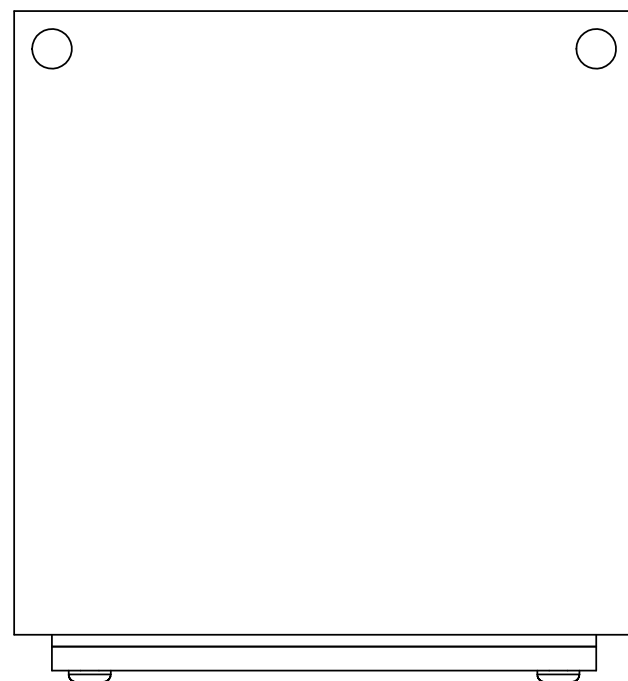
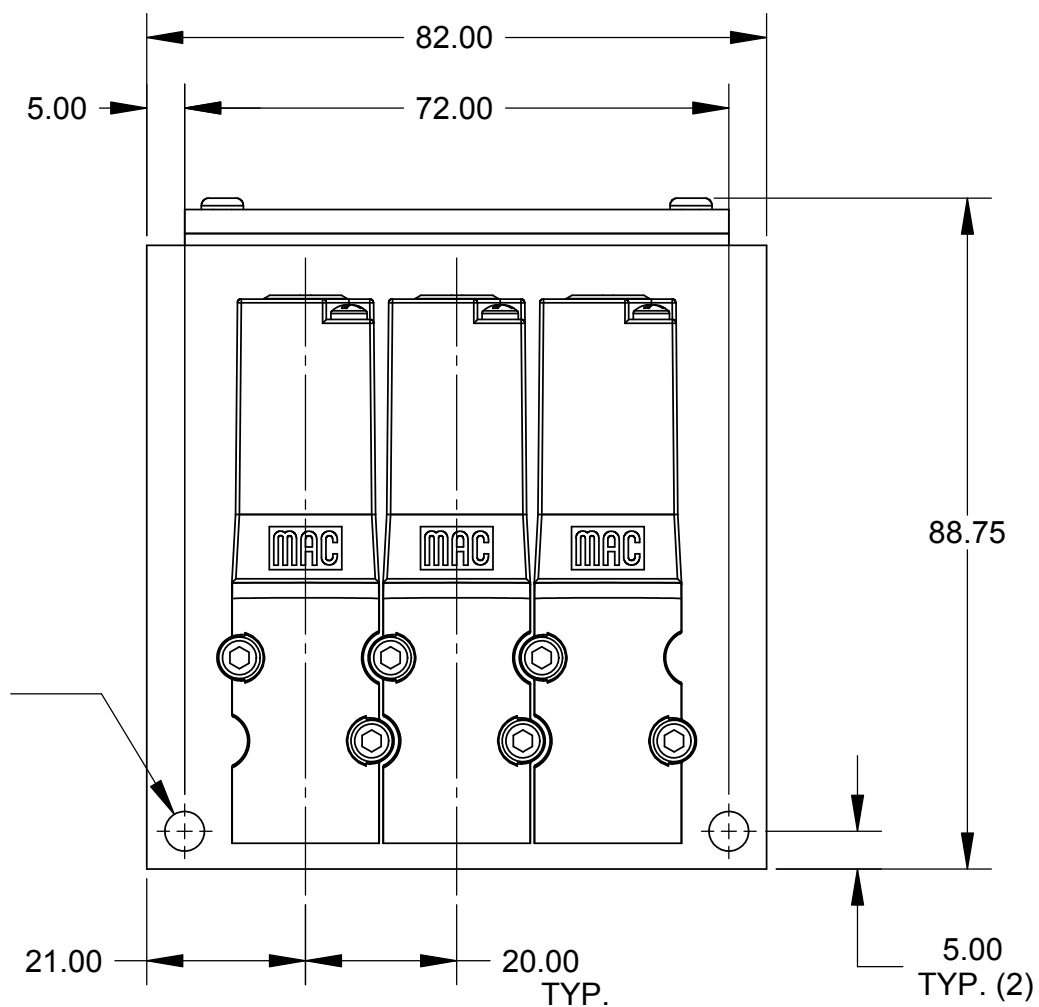
*SHOWN W/ #1 OPERATOR



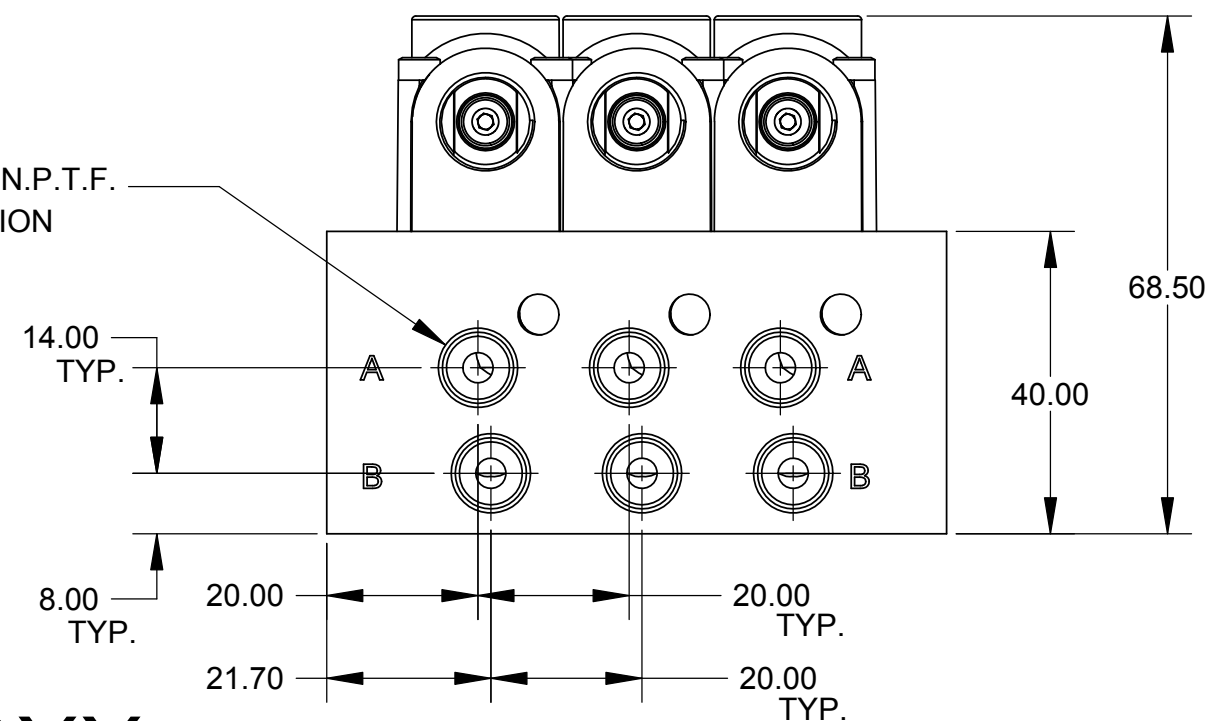
1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

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

Ø 5.25 THRU
TYP. (2)

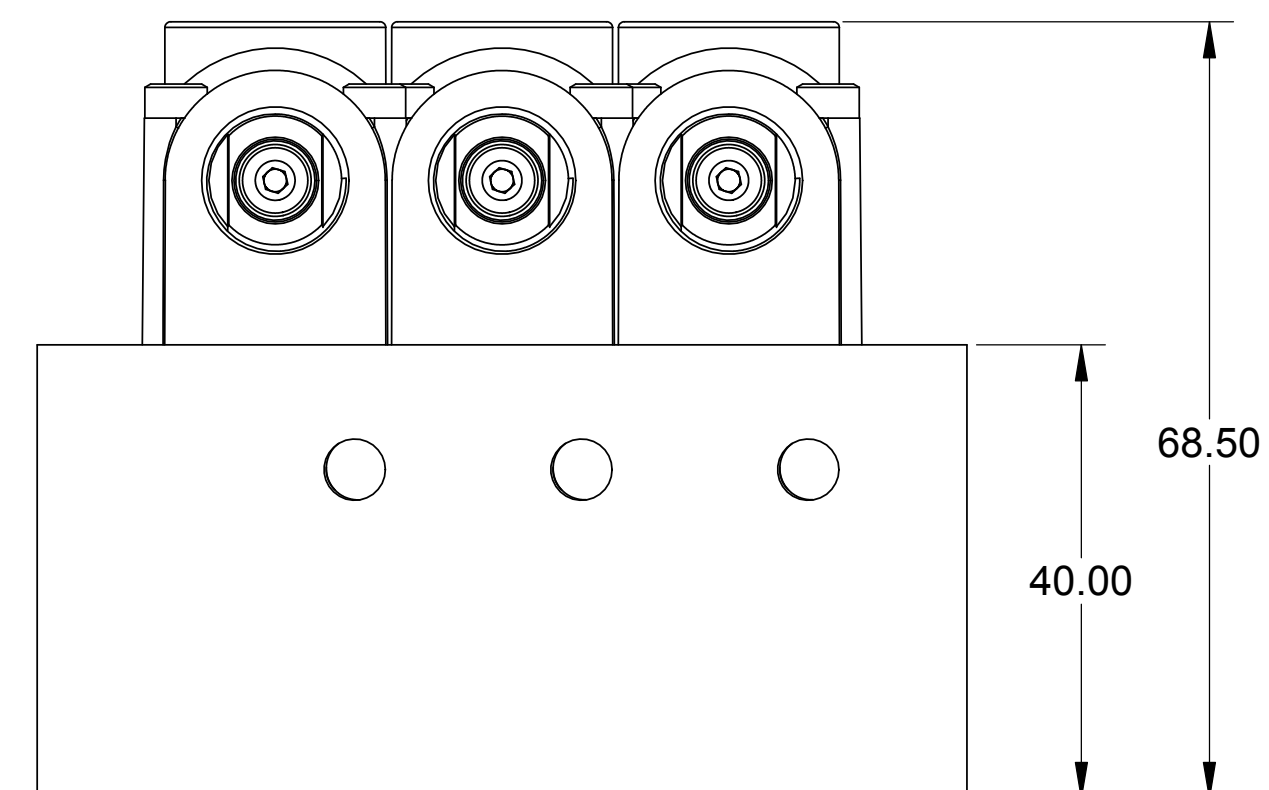
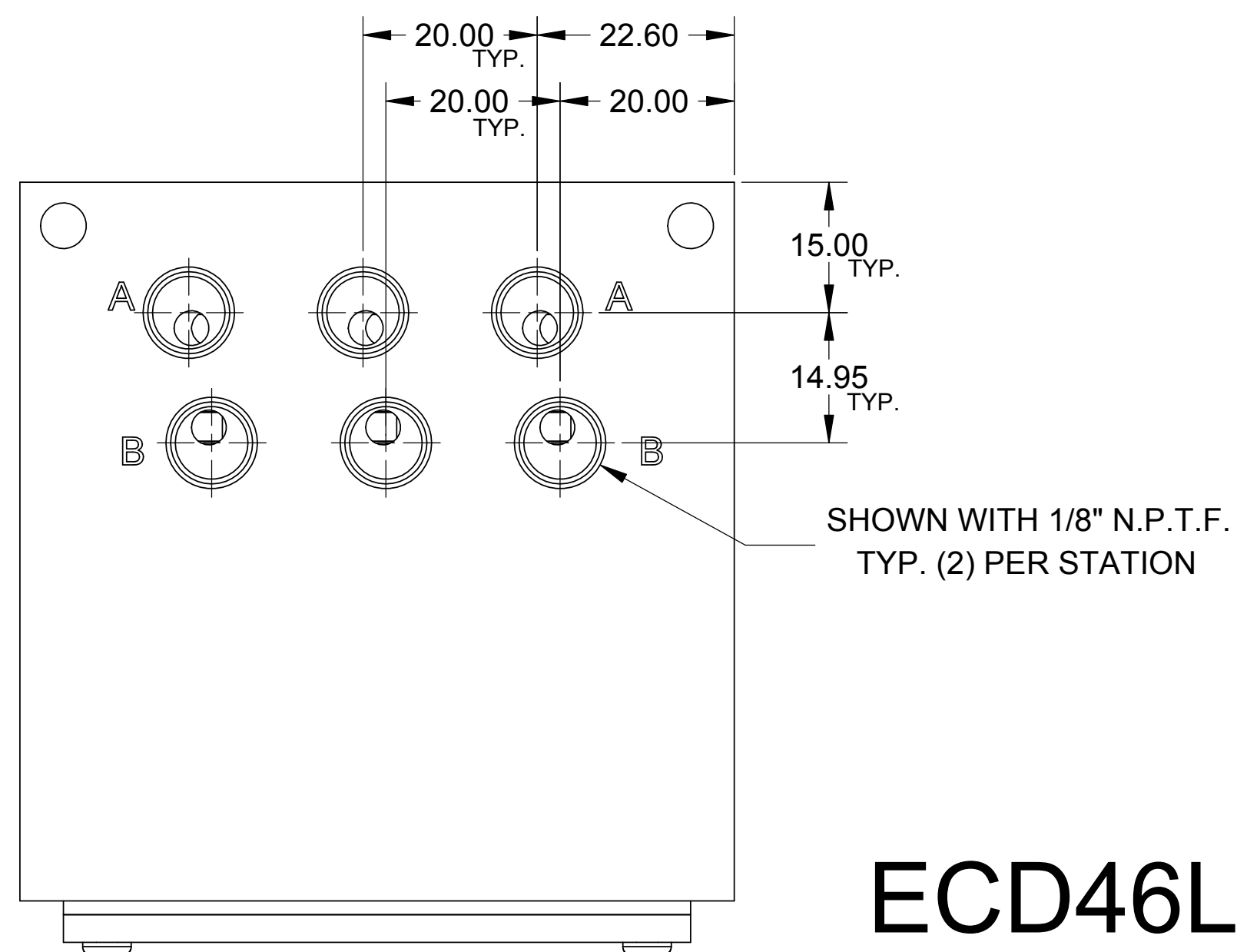
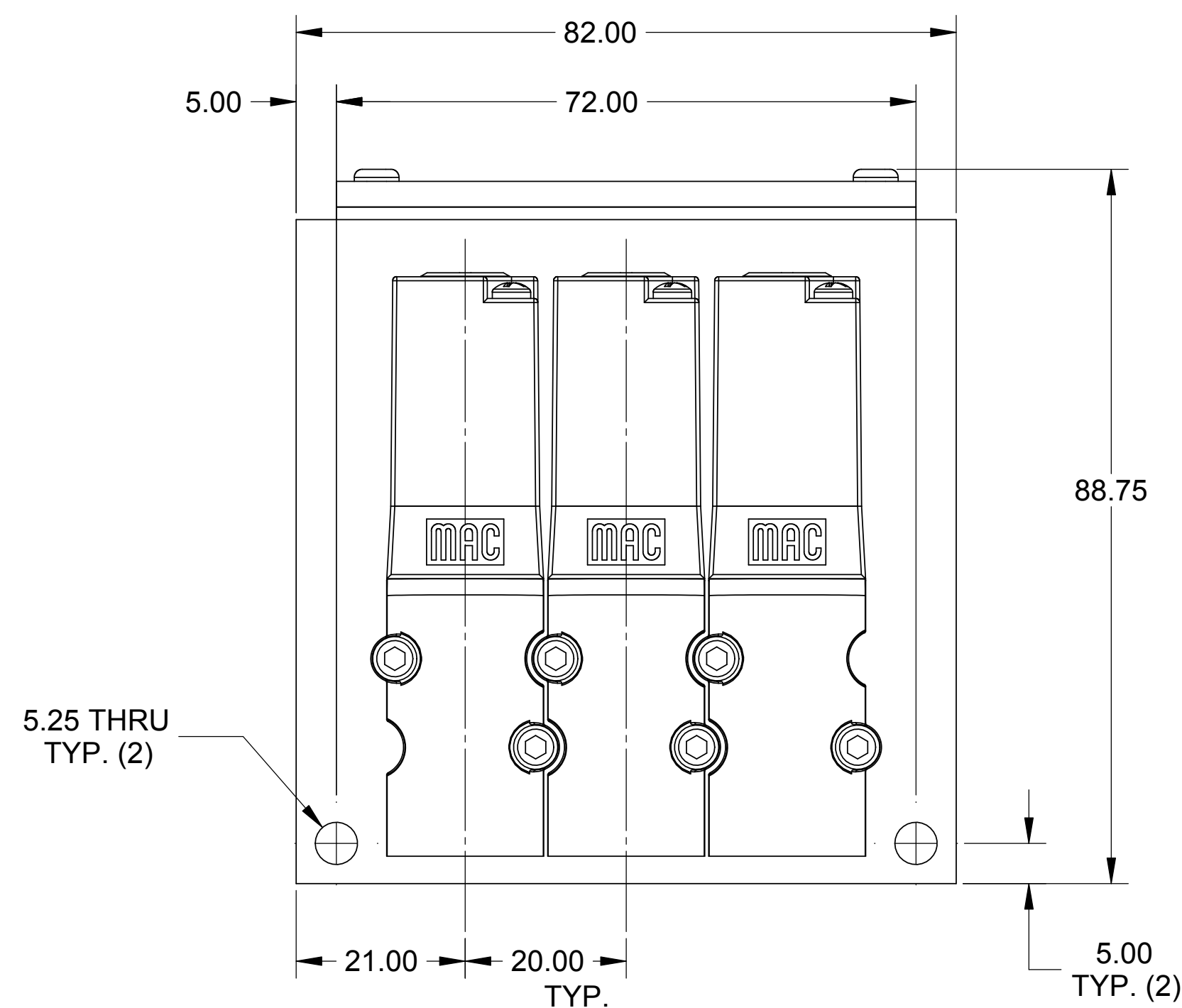
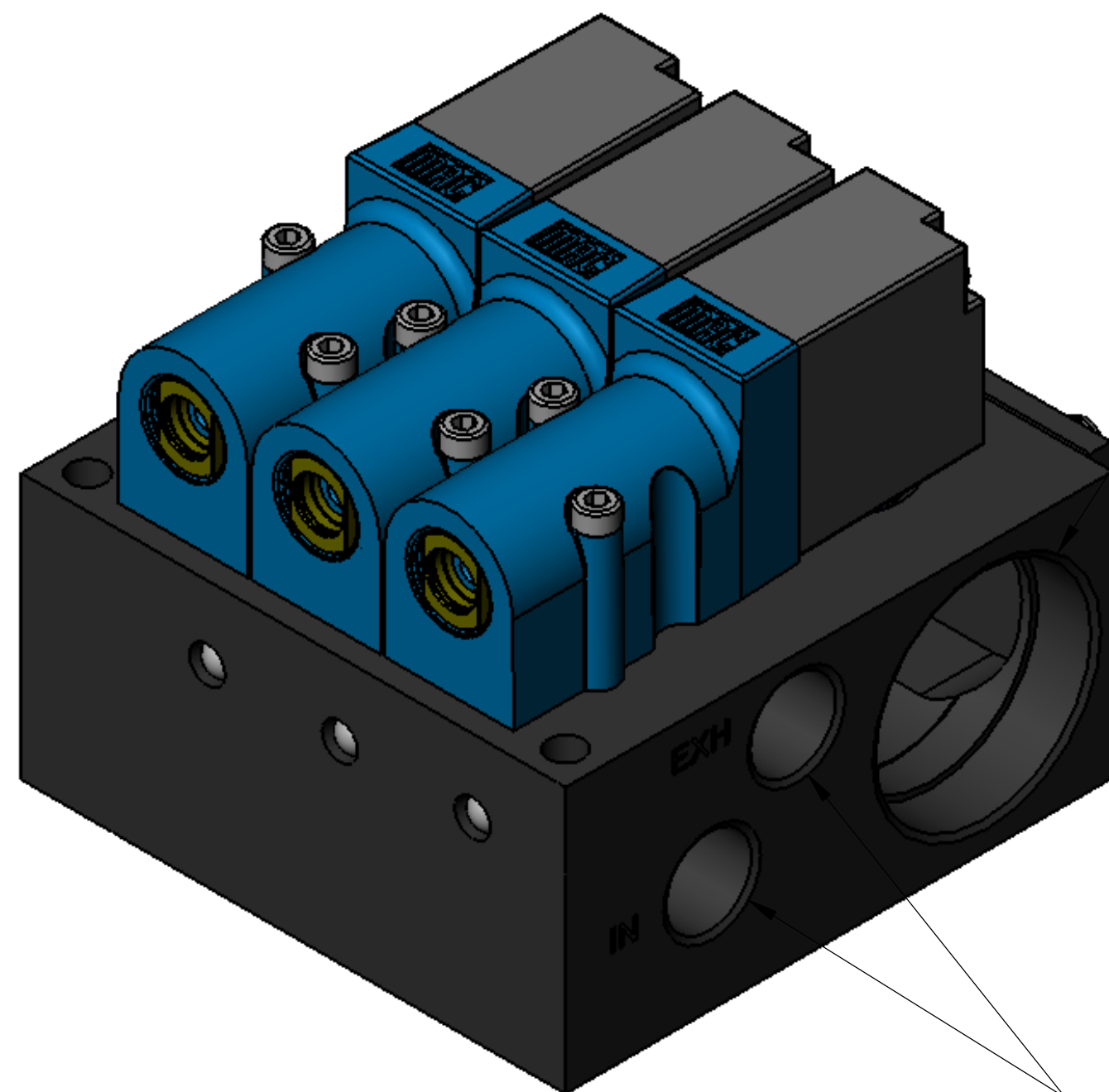


SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



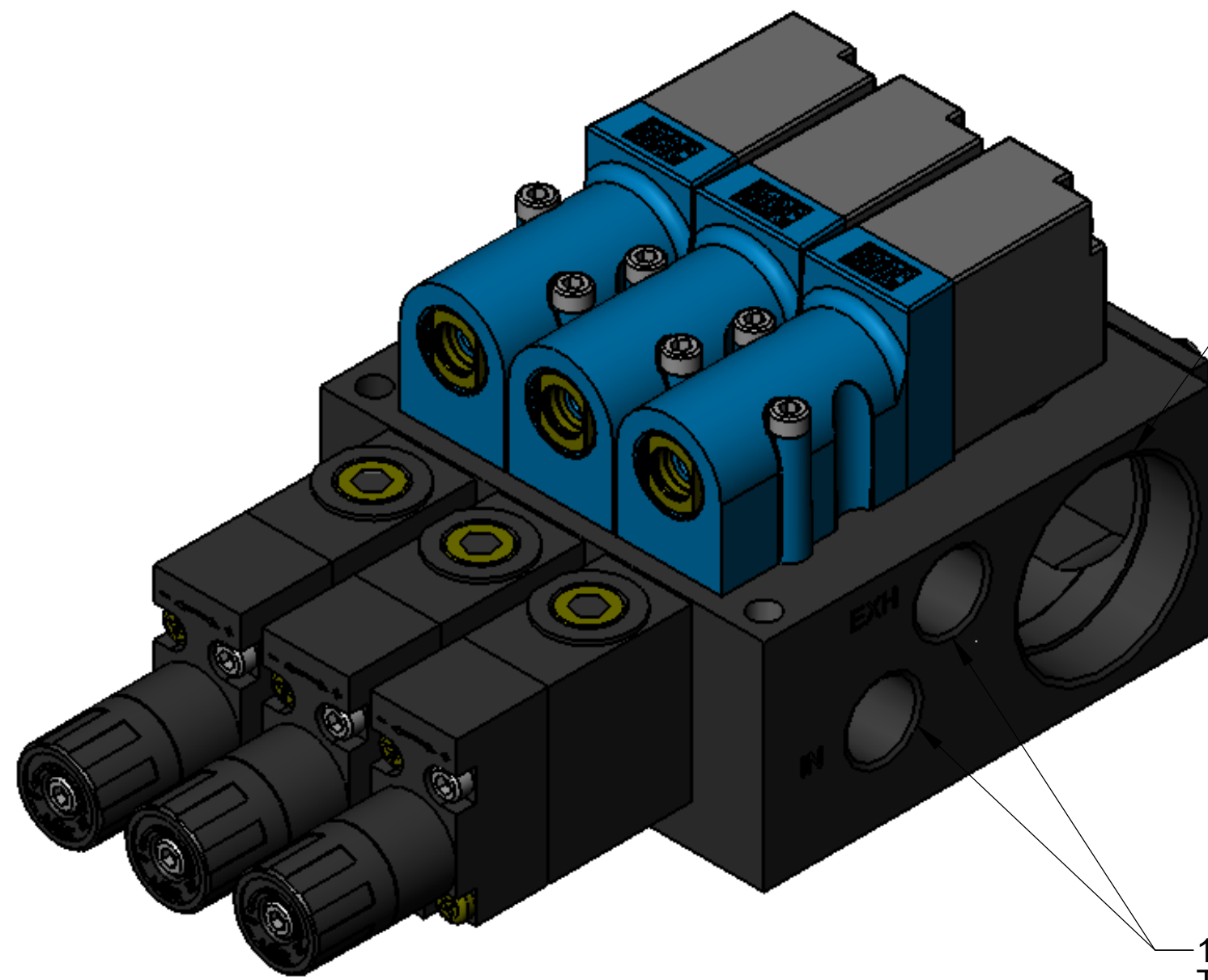
ECD46LA-00AAA-A0XX

*SHOWN W/ #1 OPERATOR



ECD46LA-00BAA-A0XX

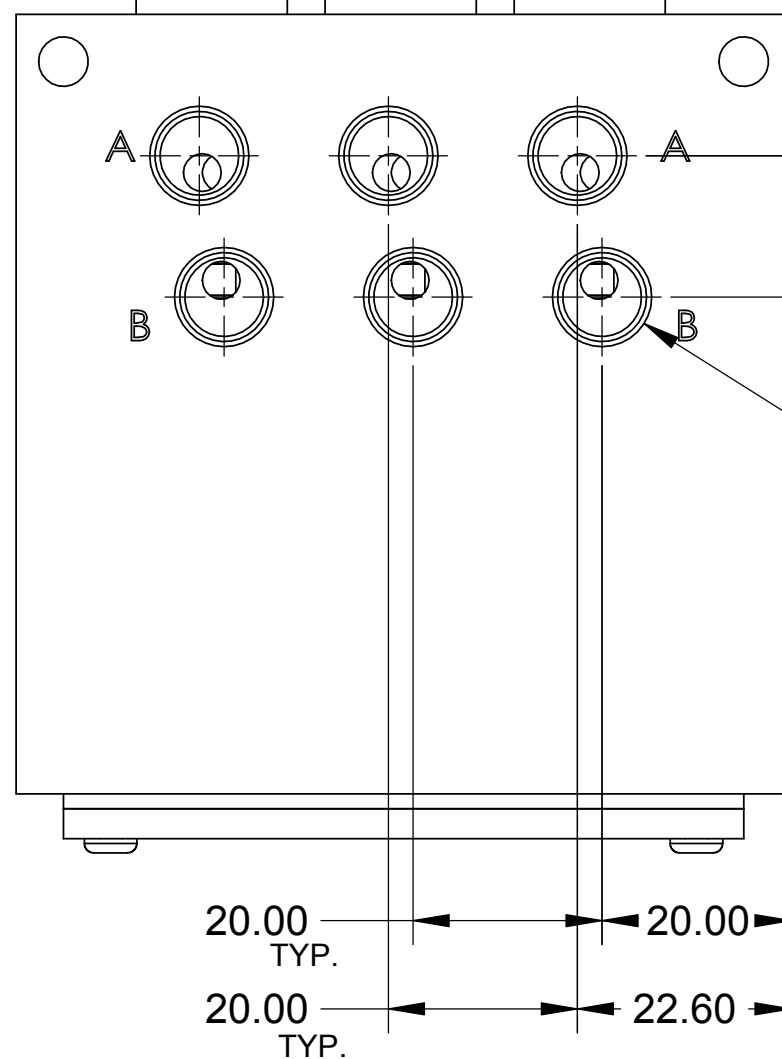
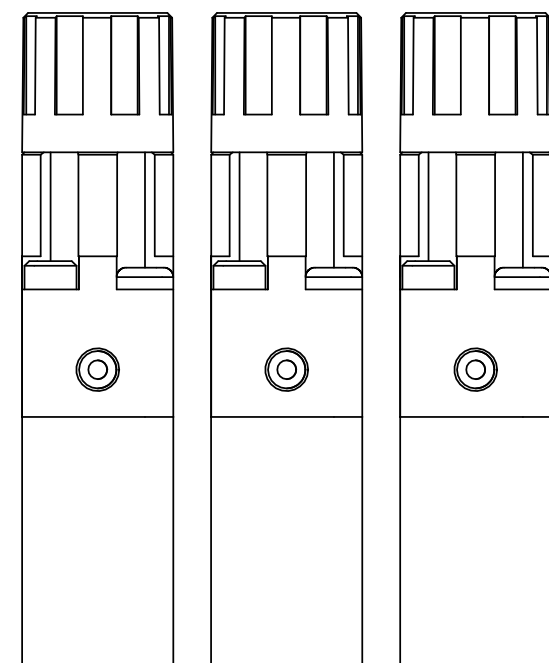
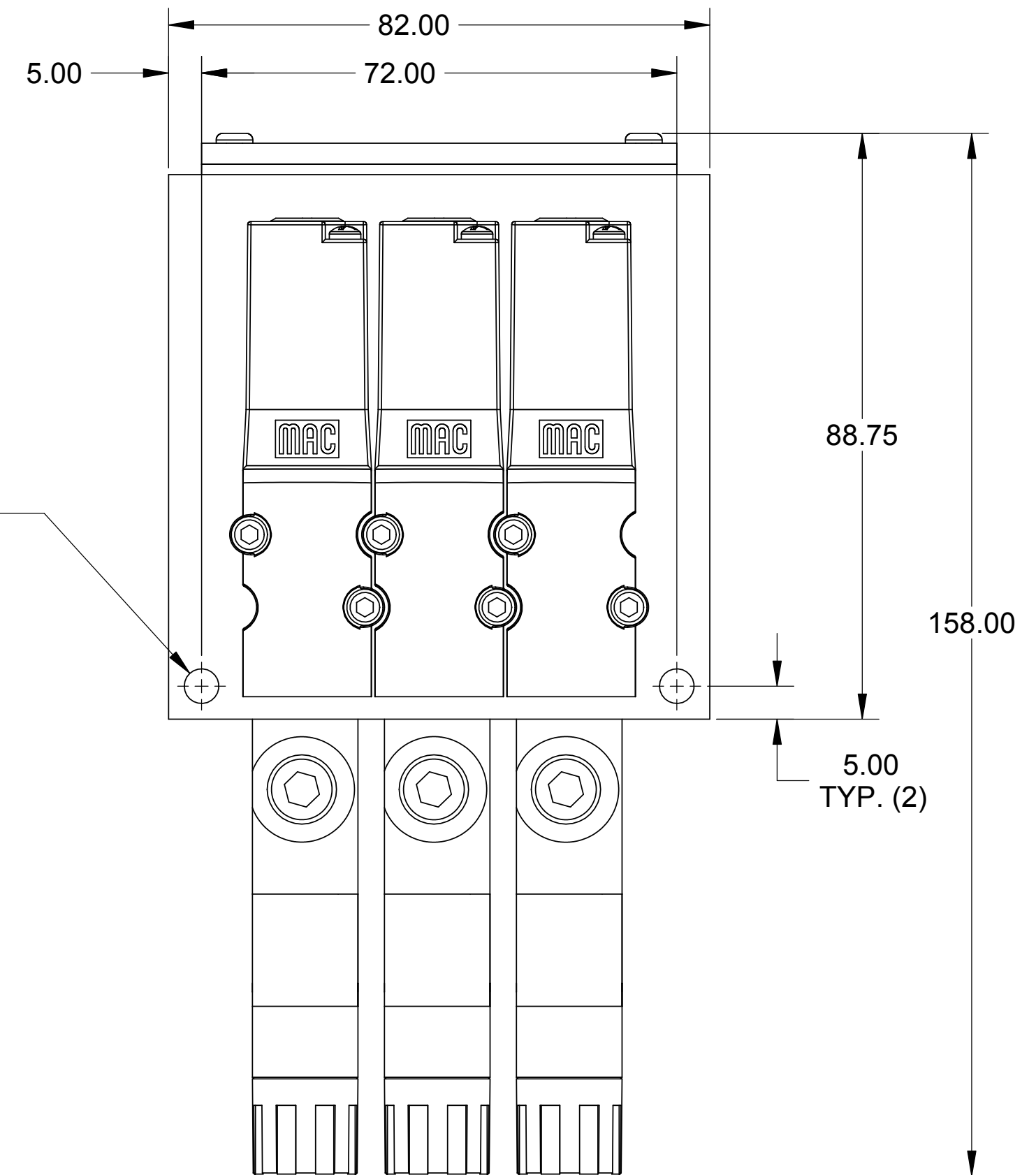
*SHOWN W/ #1 OPERATOR



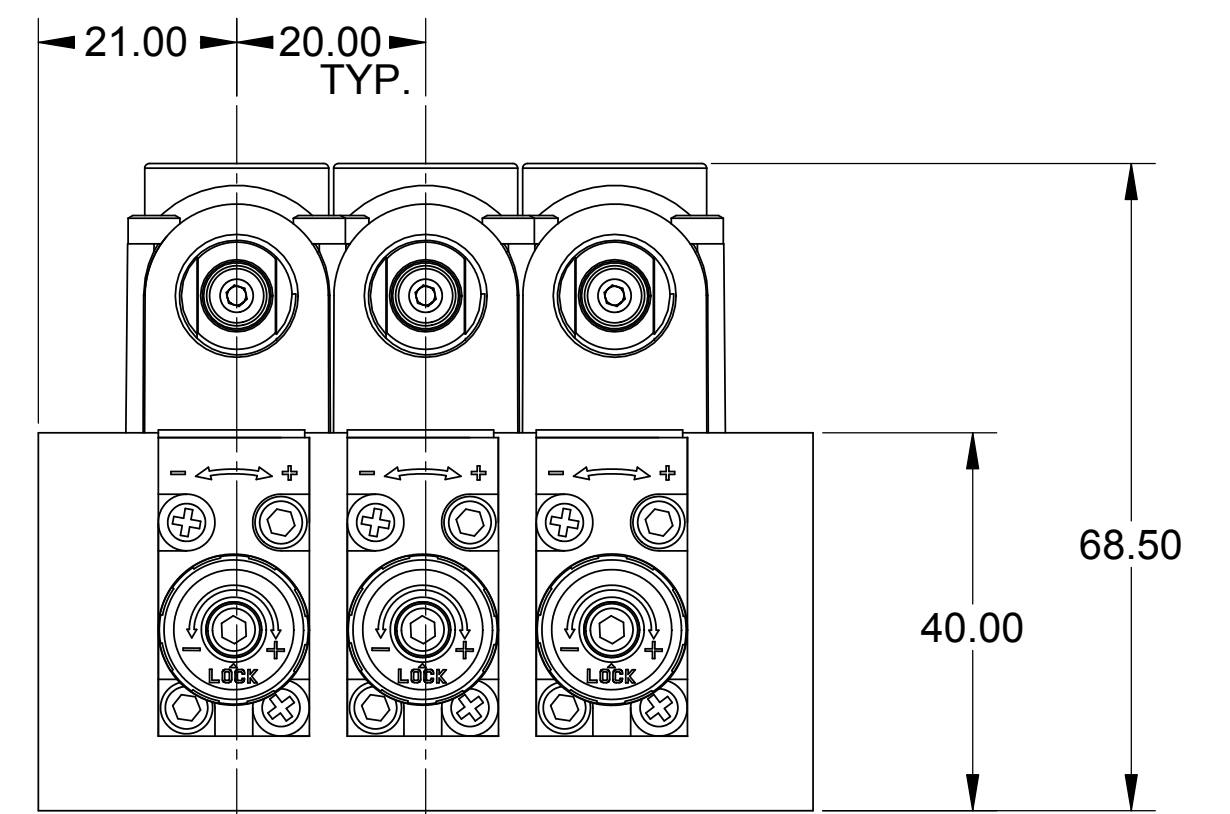
1" - 11 1/2 N.P.S.M. TAP
8.5 FULL THREAD DEPTH
TYP. BOTH ENDS

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

Ø 5.25 THRU
TYP. (2)



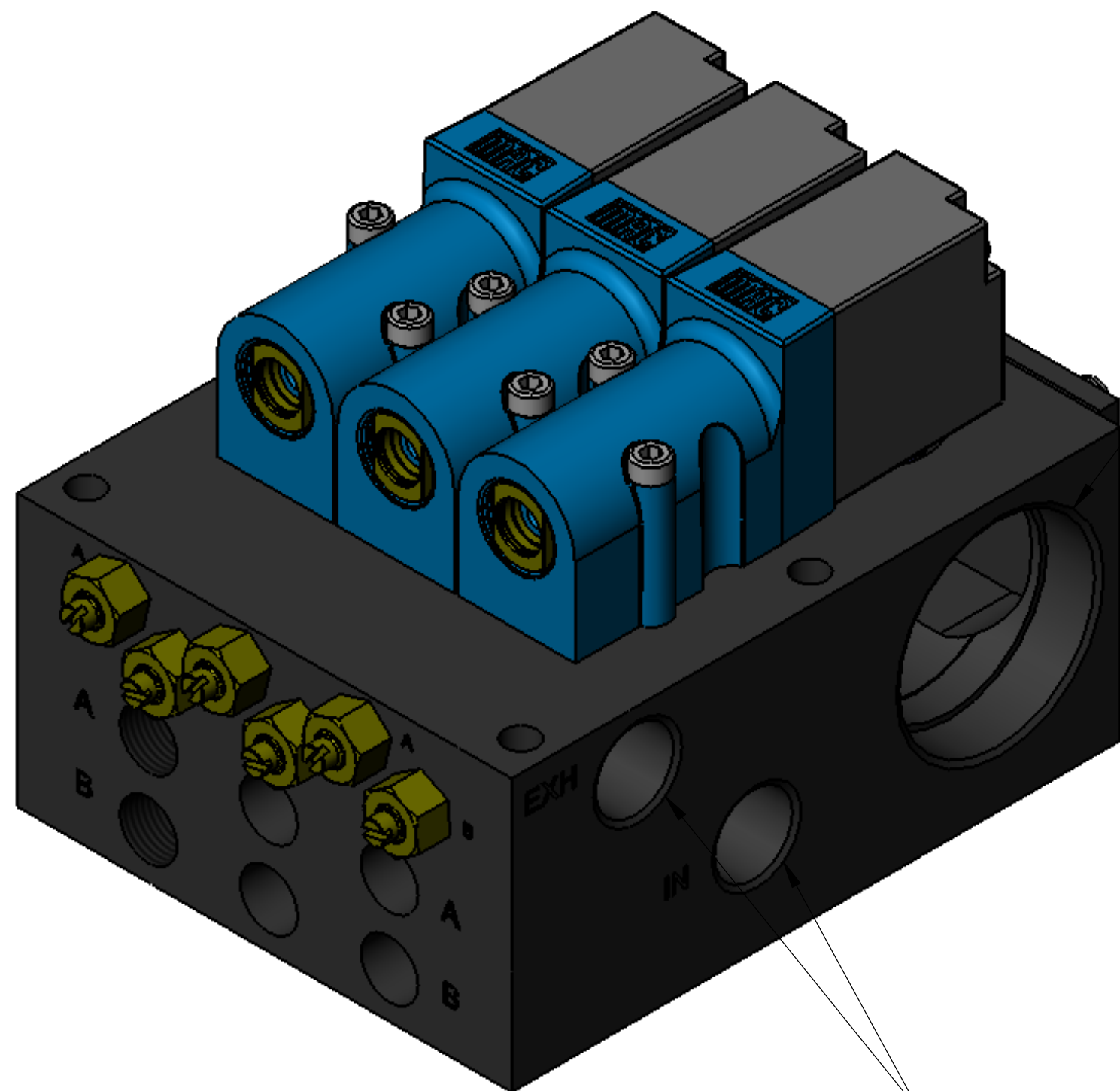
SHOWN WITH 1/8" N.P.T.F.
TYP. (2) PER STATION



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)

107.25

115.55

48.00
TYP. (2)

6.50
TYP. (2)

Ø 5.25 THRU
TYP. (4)

21.00 20.00
TYP.

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

13.00
TYP.

73.50

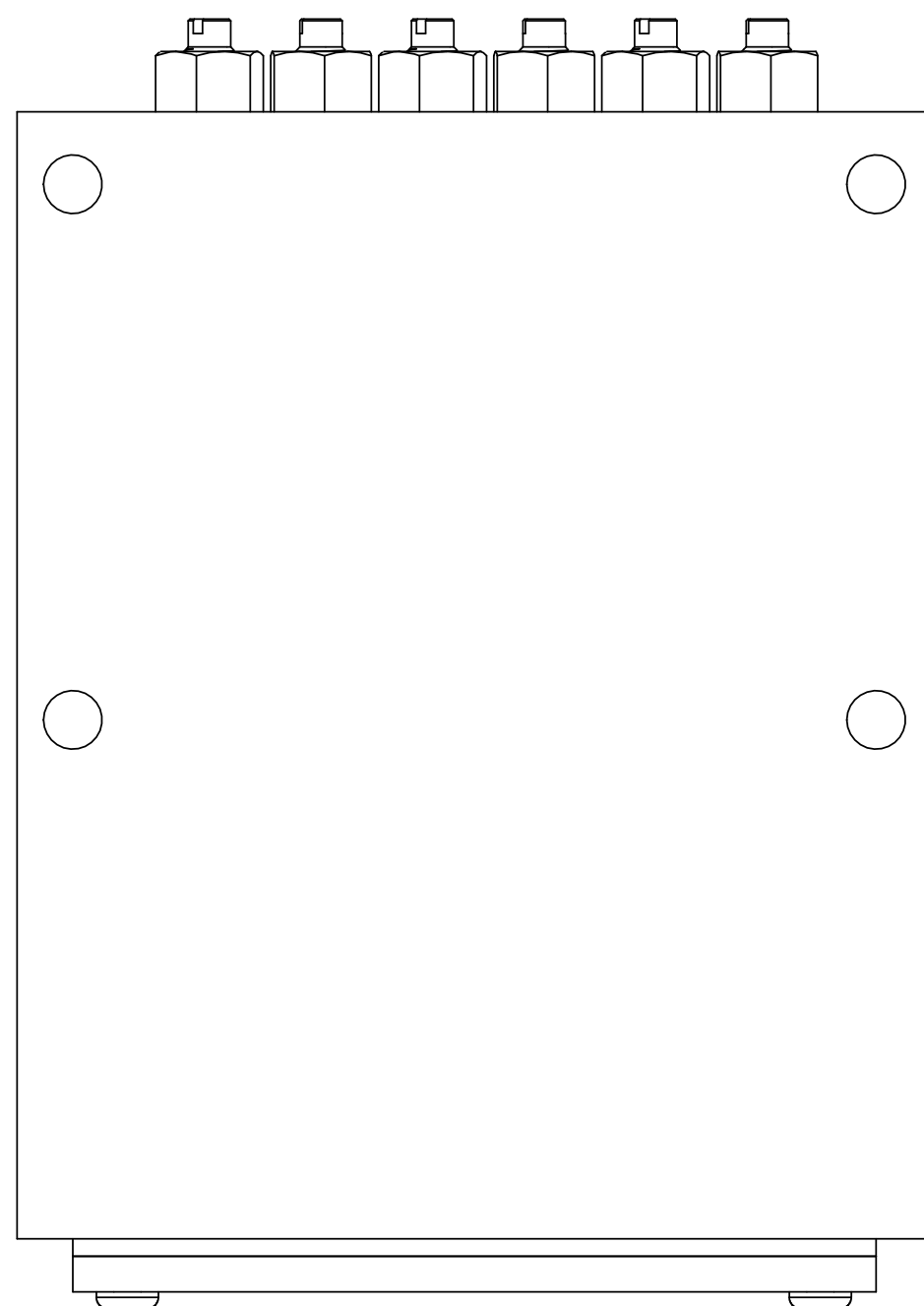
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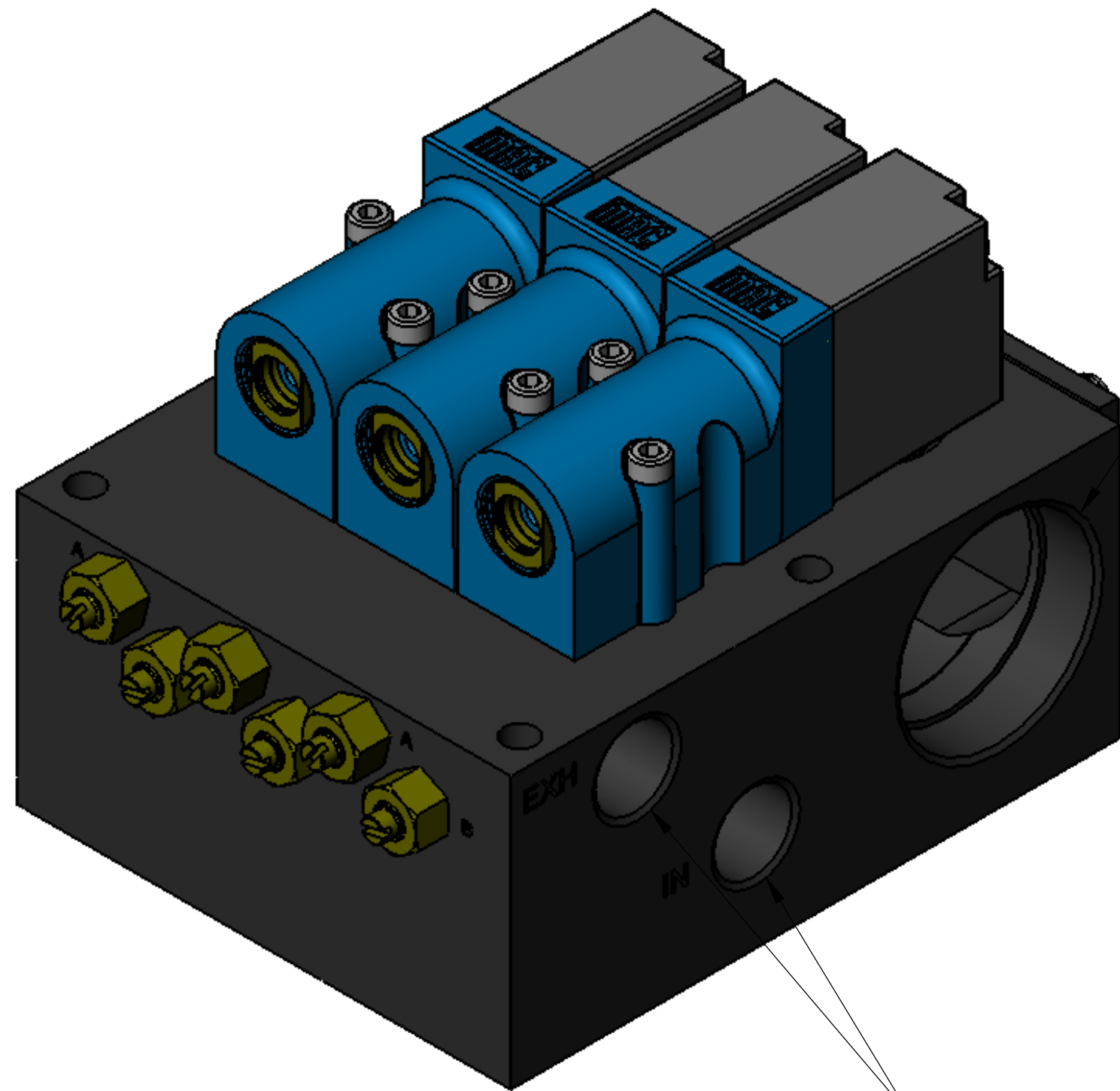
7.50
TYP.

21.76 20.00
TYP.

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

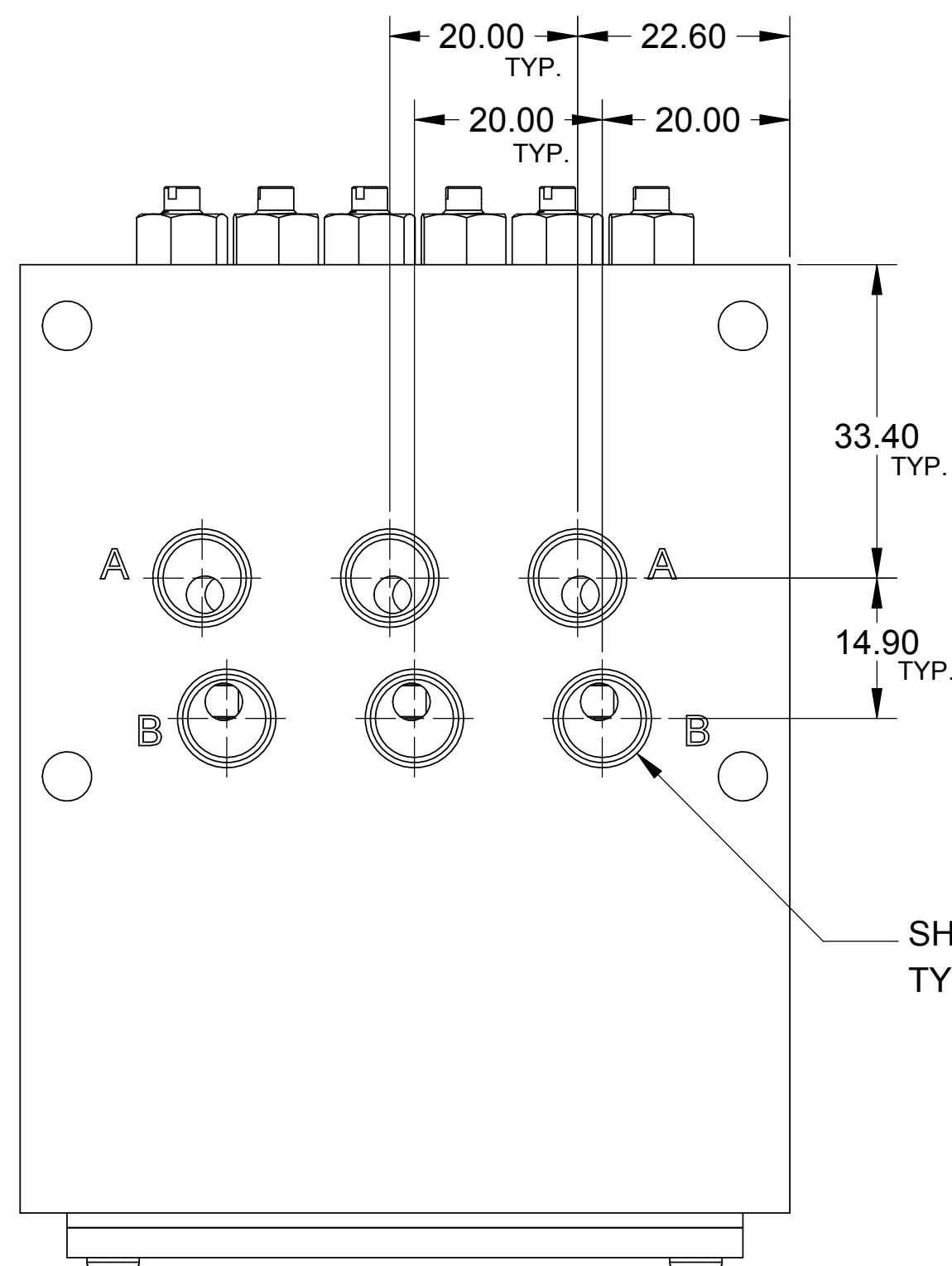
107.25

115.55

48.00
TYP. (2)

6.50
TYP. (2)

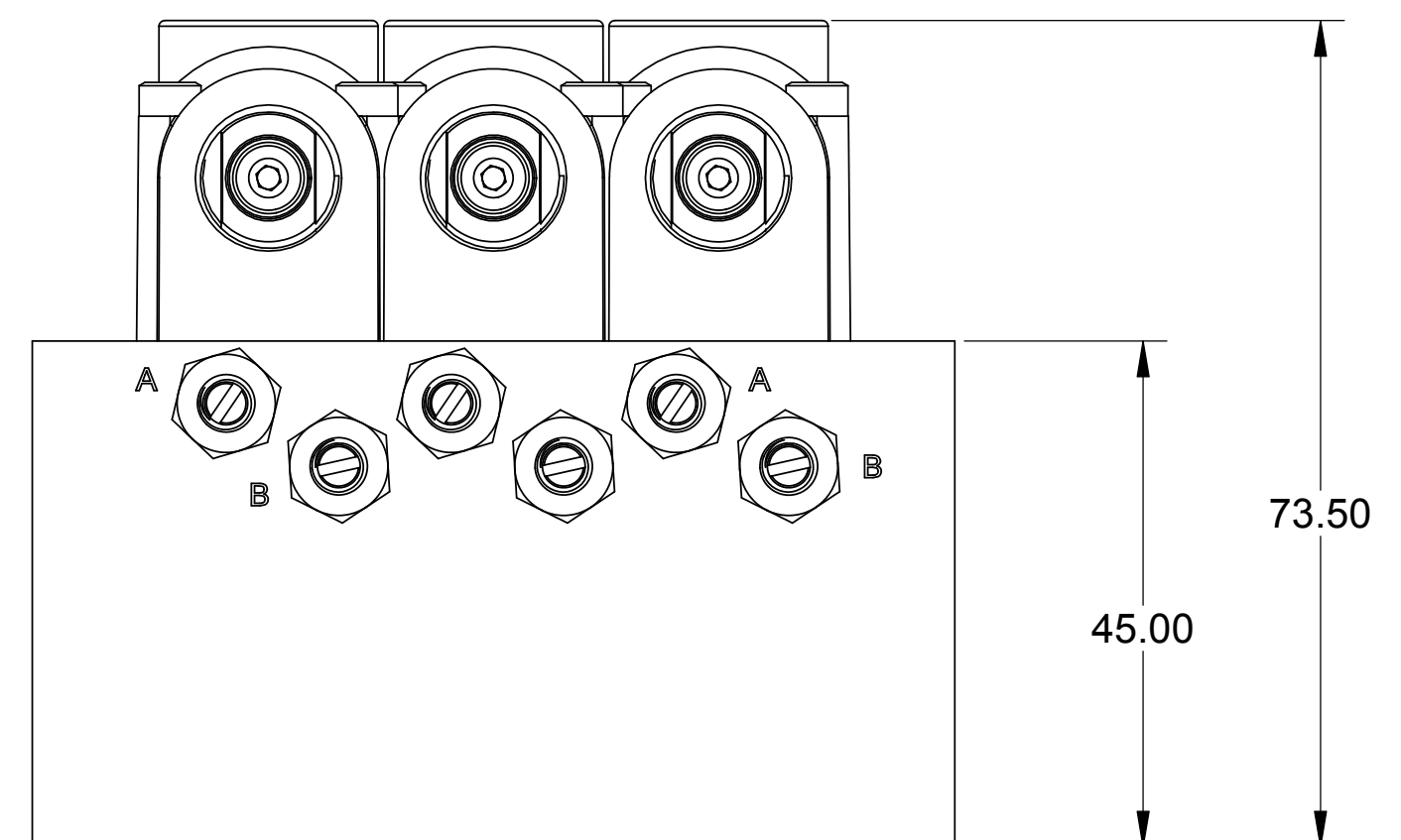
21.00 20.00
TYP.



33.40
TYP.

14.90
TYP.

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

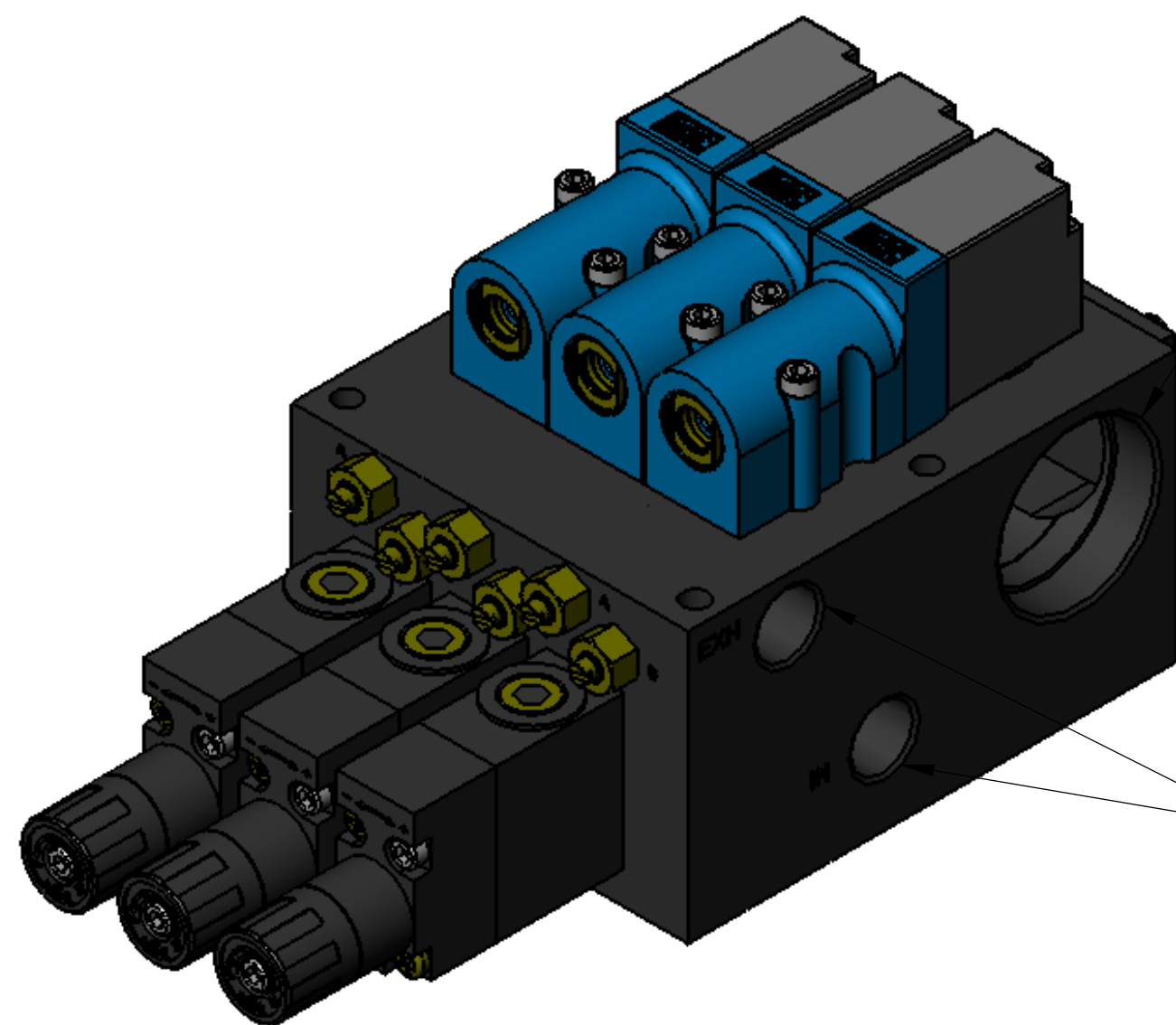


73.50

45.00

ECD46LA-00EAA-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)

82.00

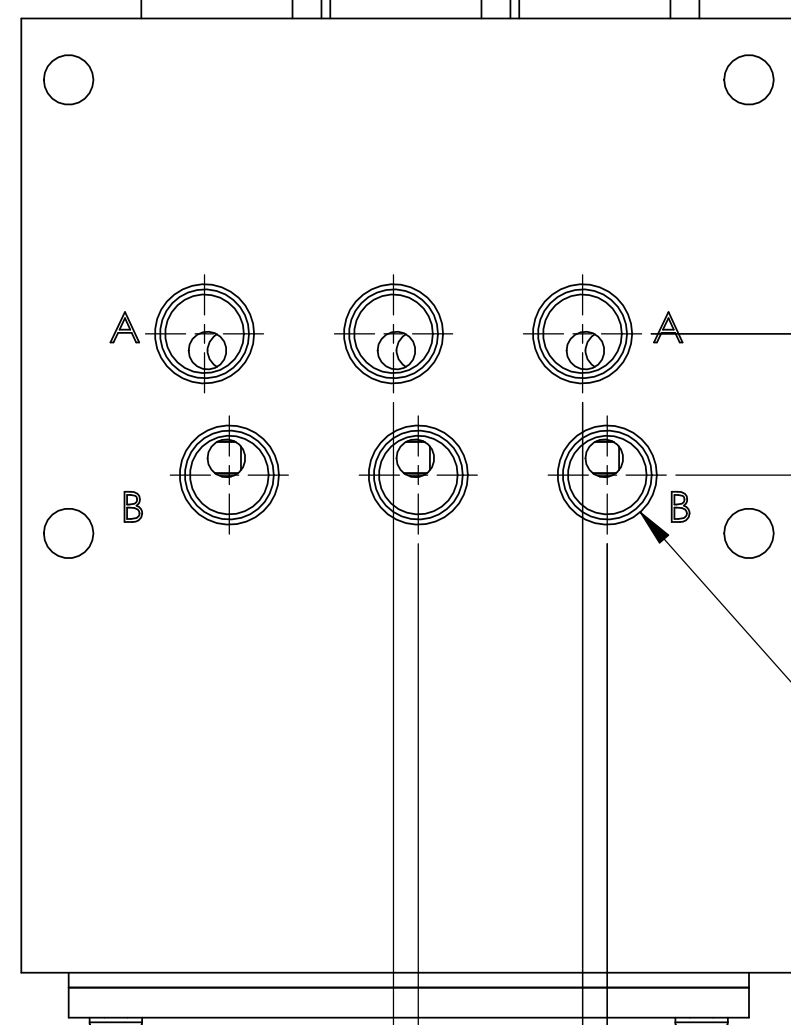
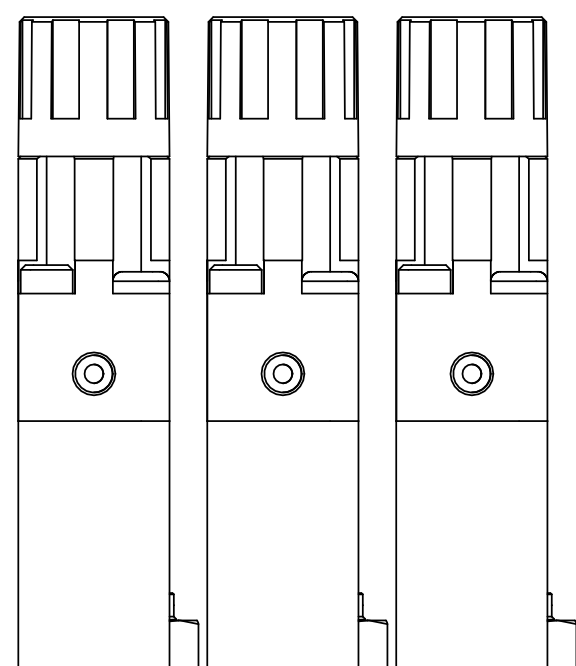
72.00
TYP. (2)

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

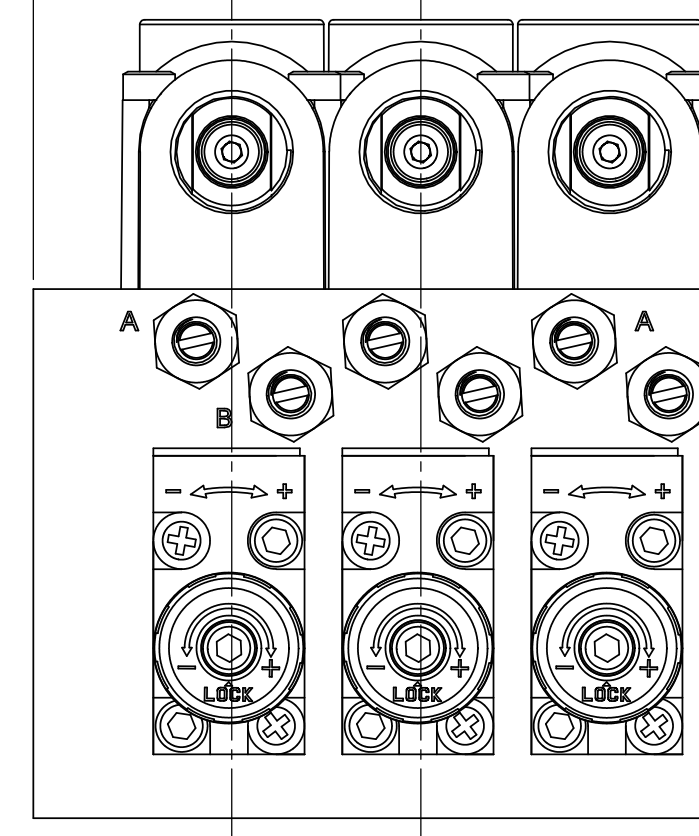
22.60

ECD46LA-00FAA-A0XX

*SHOWN WITH PR46A-0BAA

*SHOWN W/ #1 OPERATOR

21.00 20.00
TYP.



84.50

56.00