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Specifications

83 Series Valve

Fluids:

Compressed air or inert gases

Lubrication:

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

Safe Operating Temperature Range:

0°F to 120°F (-18°C to 50°C)

Pressure Range:

Main Valve: Vacuum to 120 PSI (External pilot)
20 to 120 PSI (Internal pilot)
35 to 120 PSI (Internal pilot and memory spring)
30 to 120 PSI (3 Position)

External pilot: 20 to 120 PSI
35 to 120 PSI (Memory spring)
30 to 120 PSI (3 Position)

Single remote air: Same as above
35 to 60 PSI (Remote pilot signal - This signal is independent of the main valve or pilot valve pressure)

Double Remote: 20 to 120 PSI

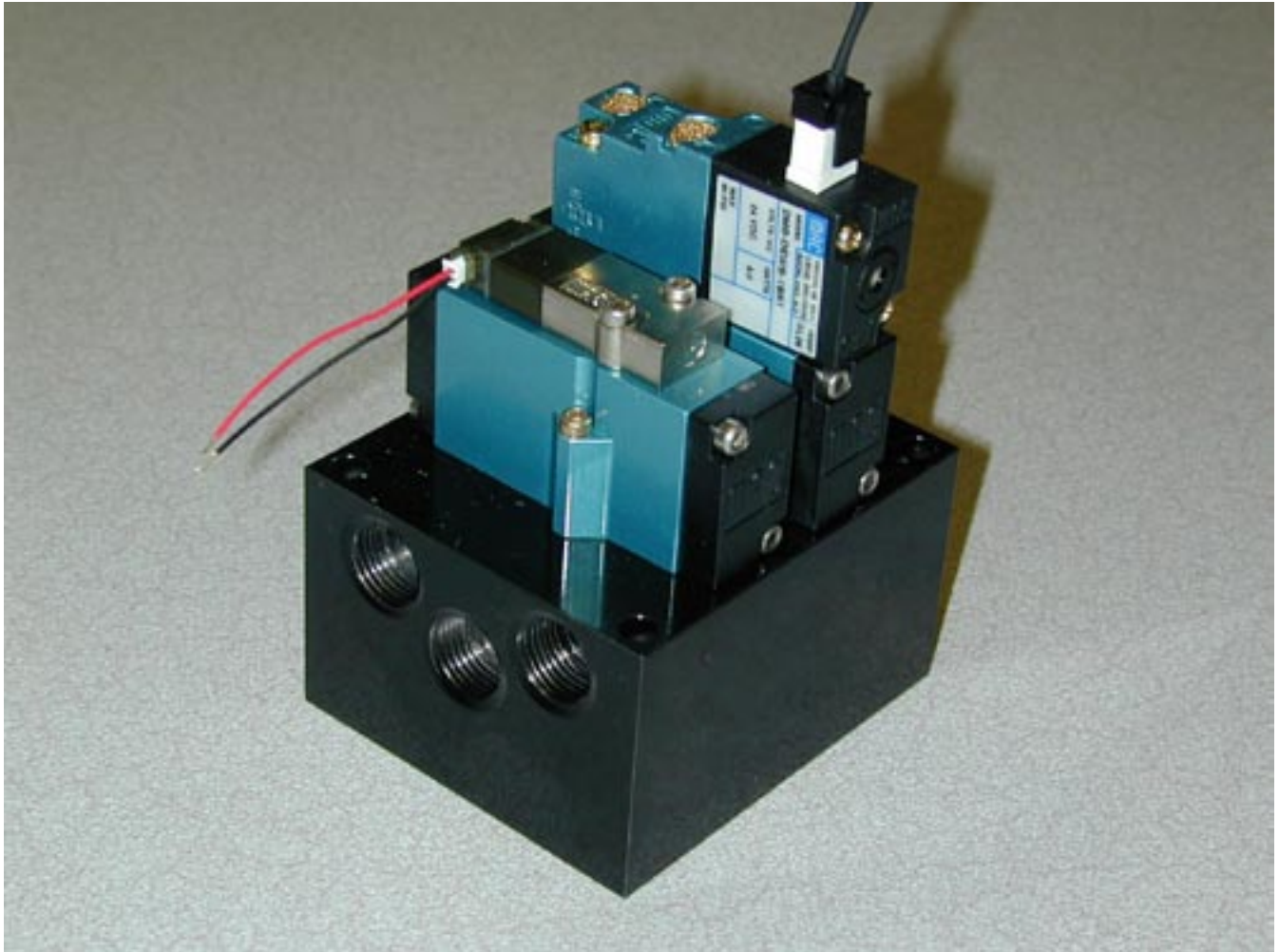
Note: Ext. pilot or double remote signal pressure must be equal to or greater than main valve pressure

Flow:

Cv = 1.5 (2 Position)

Cv = 1.1 (3 Position)

MAC 83 Series



How to Order 83 Series

83A - X X X - XX-XXXX-XXX

Pilot Valve Model Numbering

Spool Type

0 Base Only
 A Sgl. Oper. Sgl. Press.
 B Dbl. Oper. Sgl. Press.
 C Sgl. Oper. Dual Press.
 D Dbl. Oper. Dual Press.
 E 3 Pos. Closed Center
 F 3 Pos. Open Center
 G 3 Pos. Dual Press.,
 Press. Center
 M Sgl. Oper. Sgl. Press.
 w/ memory spring
 N Sgl. Oper. Dual Press.
 w/ memory spring

Pilot Air Options

A Internal Pilot
 B Internal Pilot Dual Press
 supply from #5 port
 D Ext. Pilot from 14 End
 E Ext. Pilot from 12 End

Base Port Size and Thread Type

0 Valve Only

Side Cyl. Ports

A 1/4 NPTF
 B 3/8 NPTF
 C 1/4 BSPPL
 D 3/8 BSPPL
 E 1/4 BSPTR
 F 3/8 BSPTR

Bottom Cyl. Ports

G 1/4" NPTF
 H 1/4" BSPPL
 J 1/4" BSPTR

How to Order Pilot Valve Options For 83 Series (Sgl. Operators) (Partial Listing)

DM-D XX X - X XX

Voltage	Wire Length	Manual Operator	Electrical Connection
JA 110/50, 120/60 (2.9W)	A 18"	1 Recessed Non-Locking Operator	KA Square Connector
JB 220/50, 240/60 (2.9W)	B 24"	2 Recessed Locking Operator	KD Square Connector with Light
JC 24/60 (2.9W)	J* 6"		JB Rectangular Connector
FB 24 VDC (1.8W)			JD Rectangular Connector with Light
DA 24 VDC (5.4W)			BA Flying Leads
DF 24 VDC (12.7W)			

* For use with "J" & "K" type connectors

GM-G XX X - X XX

Voltage	Wire Length	Manual Operator	Electrical Connection
DC 24 VDC (1.8W)	A 18"	1 Recessed Non-Locking Operator	BA Flying Leads
DD 24 VDC (2.5W)	B 24"	2 Recessed Locking Operator	BT Flying Leads with Light
DF 24 VDC (4.0W)	C 36"		KA Solenoid Plug-In Wire Assembly
			KT Solenoid Plug-In Wire Assembly with Light
			GA MAC JAC Solenoid Plug-In Wire Assembly

RM-R XX X - X XX

Voltage	Wire Length	Manual Operator	Electrical Connection
DC 24 VDC (1.8W)	A 18"	1 Recessed Non-Locking Operator	BA Flying Leads
DD 24 VDC (2.5W)	B 24"	3 Extended Non Locking Operator	RA Mini JAC Solenoid Plug-In
DF 24 VDC (4.0W)	C 36"		RB Mini JAC Solenoid Plug-In with LED
DJ 12 VDC (1.8W)			TA JST Solenoid Plug-In
DK 12 VDC (2.5W)			TB JST Solenoid Plug-In w/ LED
DM 12 VDC (4.0W)			

DM-RA1 X (For Single Remote Air Operator)

Pilot Port Size and Thread Type
1 1/8" NPTF
4 1/8" BSPPL
5 1/8" BSPRT

How to Order Pilot Valve Options For 83 Series (Dbl. Operators) (Partial Listing)

TM-D XX X - X XX

Voltage	Wire Length	Manual Operator	Electrical Connection
AA 110/50, 120/60	A 18"	1 Recessed Non-Locking Operator	KA Square Connector
AB 220/50, 240/60	B 24"		KD Square Connector with Light
AC 24/60	J* 6"	2 Recessed Locking Operator	JB Rectangular Connector
FB 24 VDC (1.8W)			JD Rectangular Connector with Light
DA 24 VDC (5.4W)			BA Flying Leads
DF 24 VDC (12.7W)			

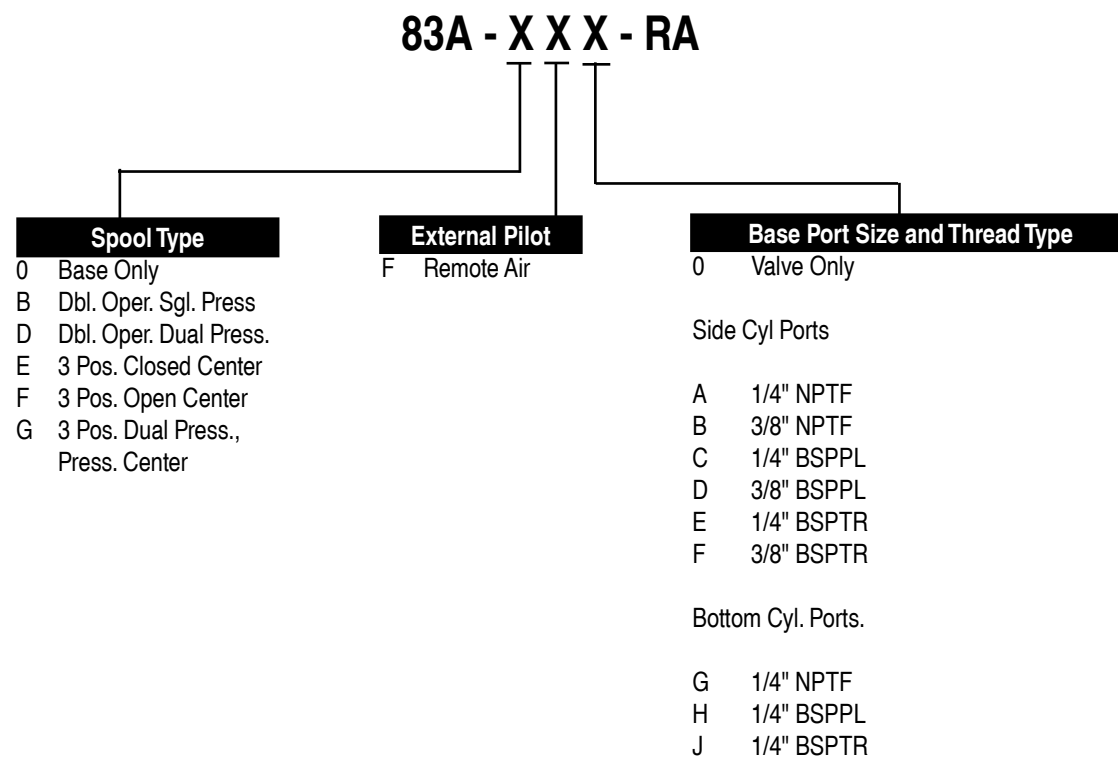
* For use with "J" & "K" type connectors

RM-R XX X - X XX

Voltage	Wire Length	Manual Operator	Electrical Connection
DA 24 VDC (0.5w)	0* No lead wire	0 No Operator	BA Flying Leads
DB 24 VDC (1.0w)	A 18"	1 Recessed Non-Locking Operator	BB Flying Leads w/ LED
DC 24 VDC (1.8W)	B 24"		BC Flying Leads w/ MOV
DD 24 VDC (2.5W)	C 36"	3 Extended Non Locking Operator	BD Flying Leads w/ LED and MOV
DE 24 VDC (3.0w)	D 48"		
DF 24 VDC (4.0W)	E 72"		RA Mini JAC Solenoid Plug-In
	F 96"		RB Mini JAC Solenoid Plug-In with LED
DG 12 VDC (0.5w)	G 120"		RC Mini JAC Solenoid Plug-In with MOV
DH 12 VDC (1.0w)	H 144"		RD Mini JAC Solenoid Plug-In with LED and MOV
DJ 12 VDC (1.8W)			
DK 12 VDC (2.5W)			TA JST Solenoid Plug-In
DL 12 VDC (3.0w)			TB JST Solenoid Plug-In w/ LED
DM 12 VDC (4.0W)			TC JST Solenoid Plug-In w/ MOV
			TD JST Solenoid Plug-In w/ LED and MOV

*Not available for flying leads connector

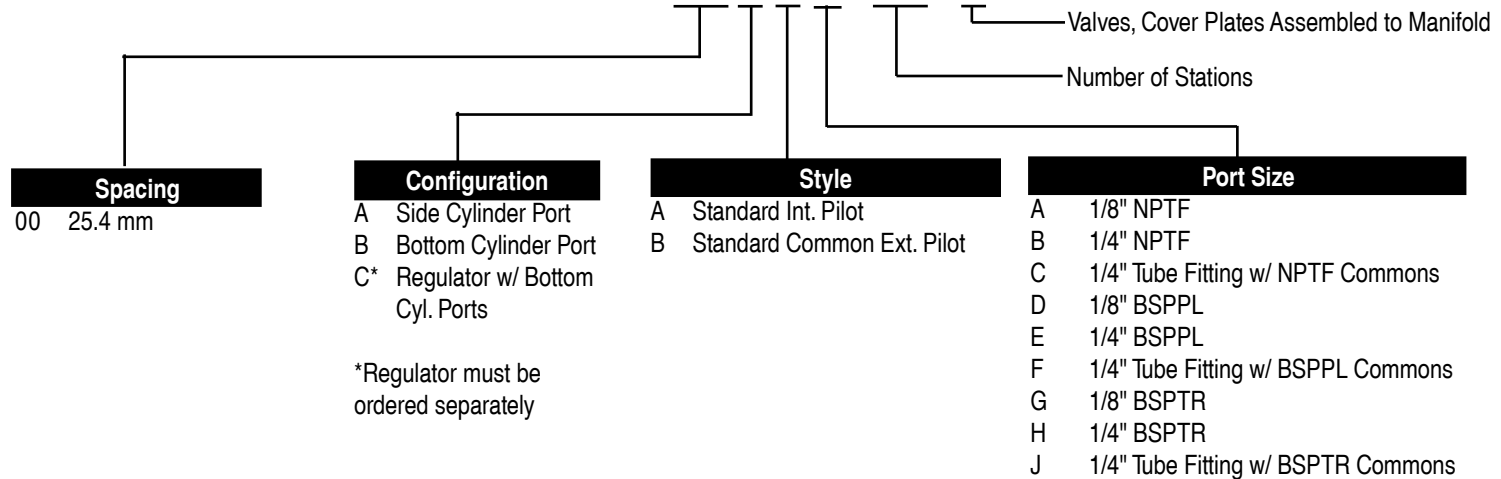
How to Order 83 Series Double Remote Air



How to Order 83 Series

EBM Circuit Bar

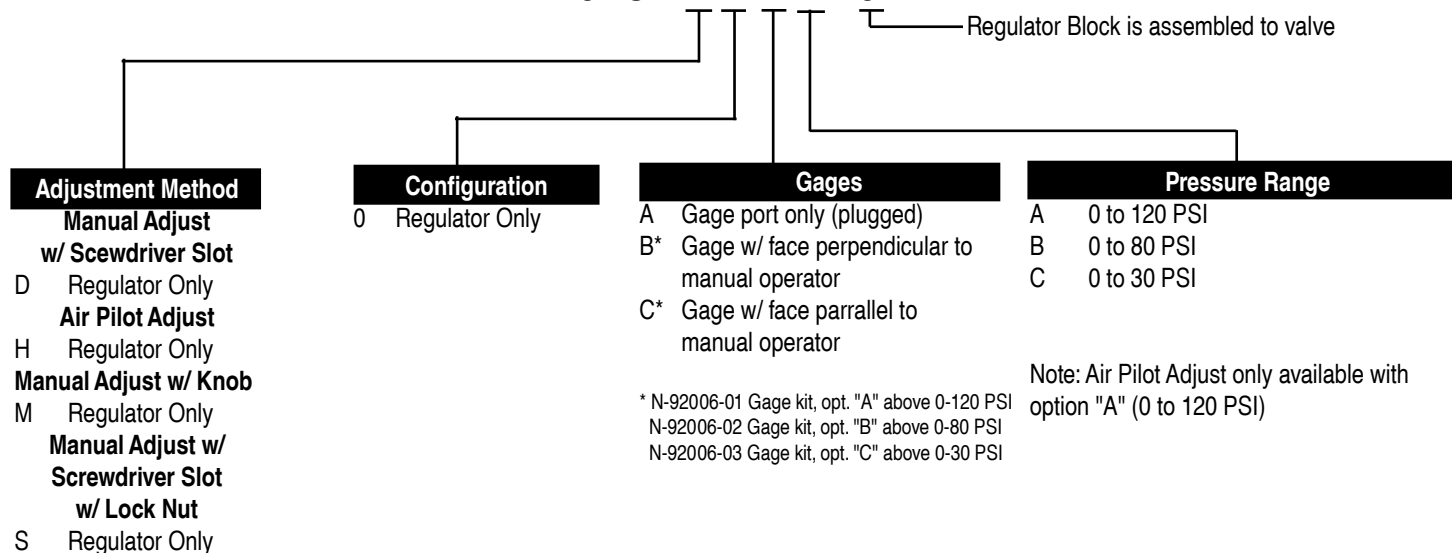
EBM83A - XX X X X - XX - 9

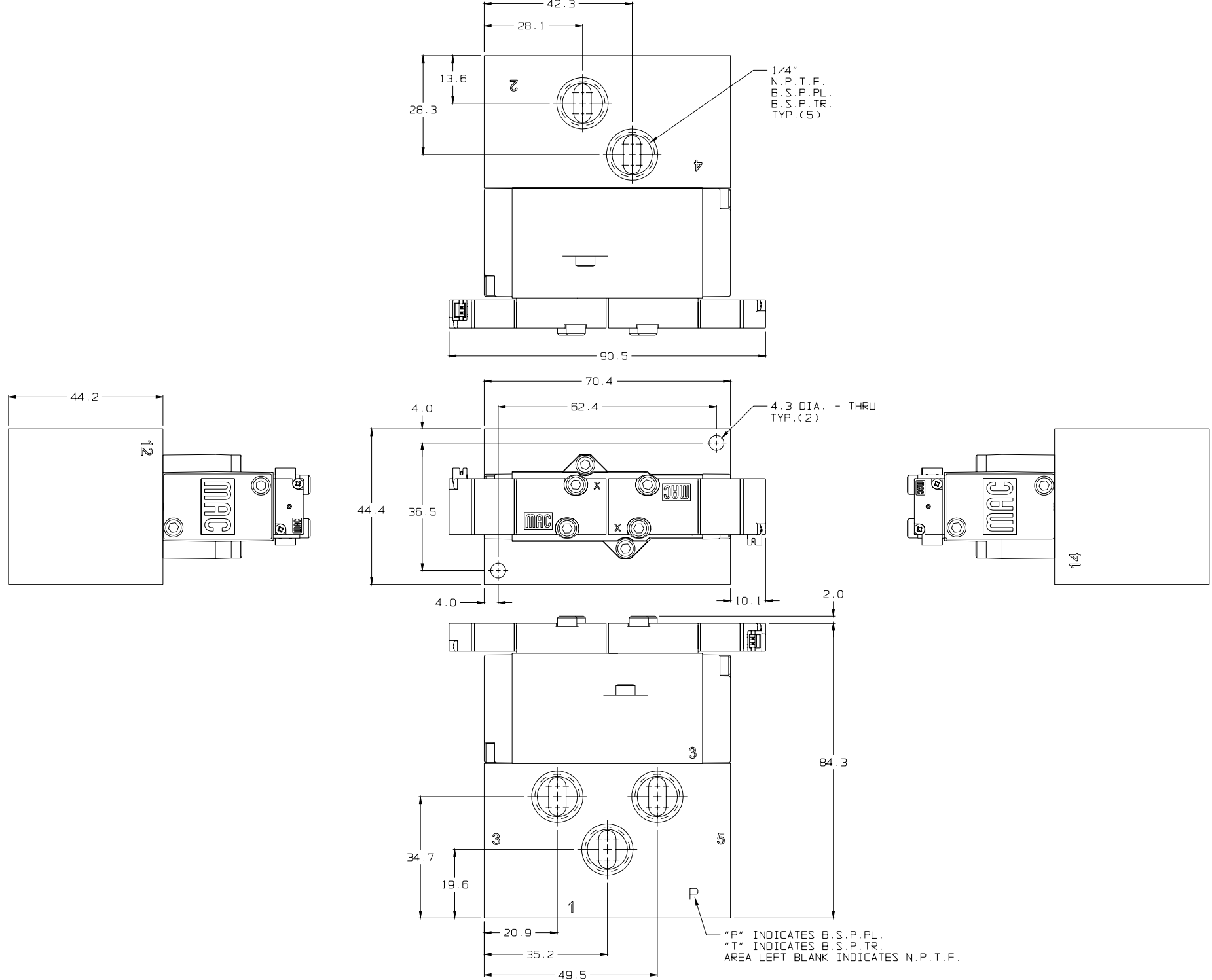


Common Through Ports are 3/8"

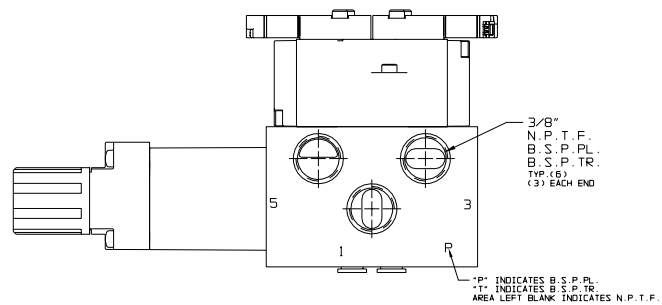
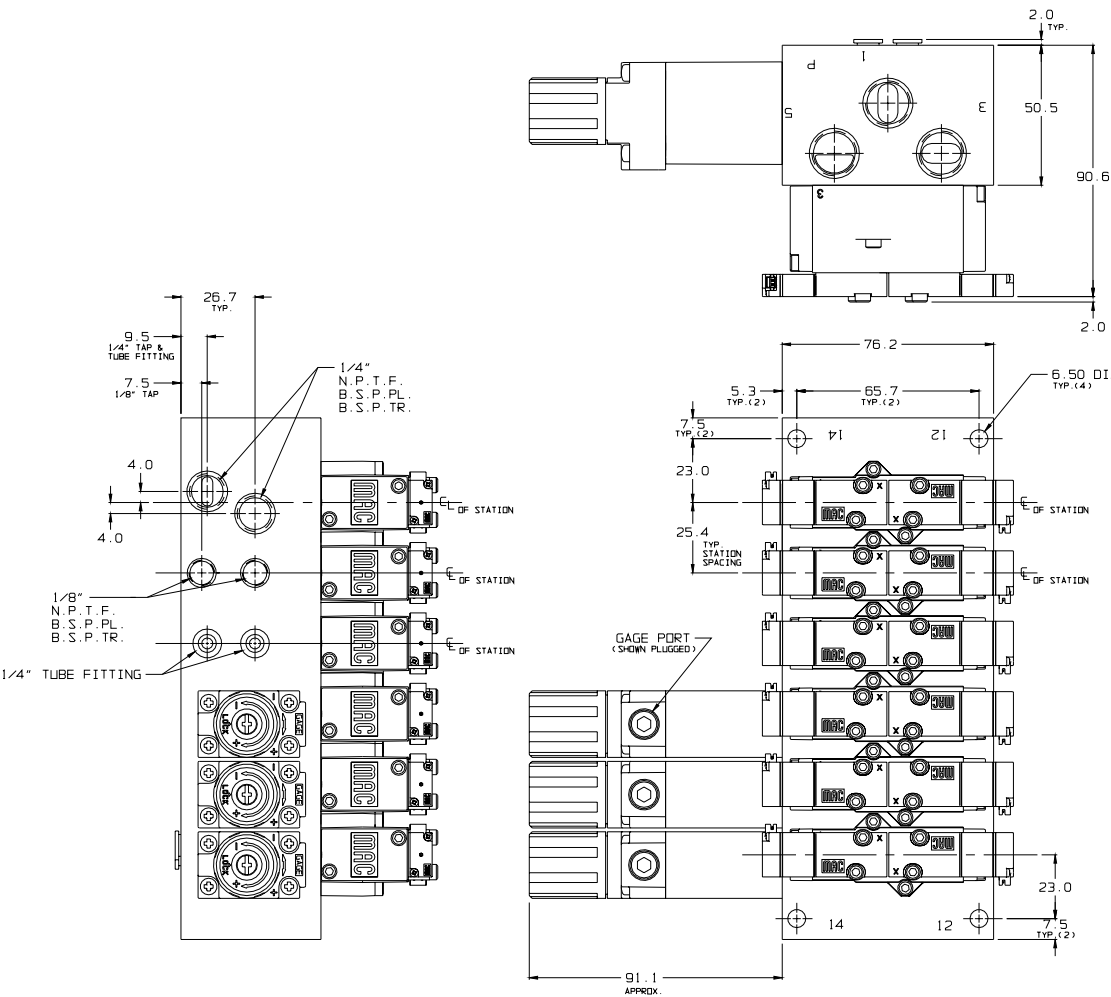
How to Order Regulator

PR92C - X X X X - 9

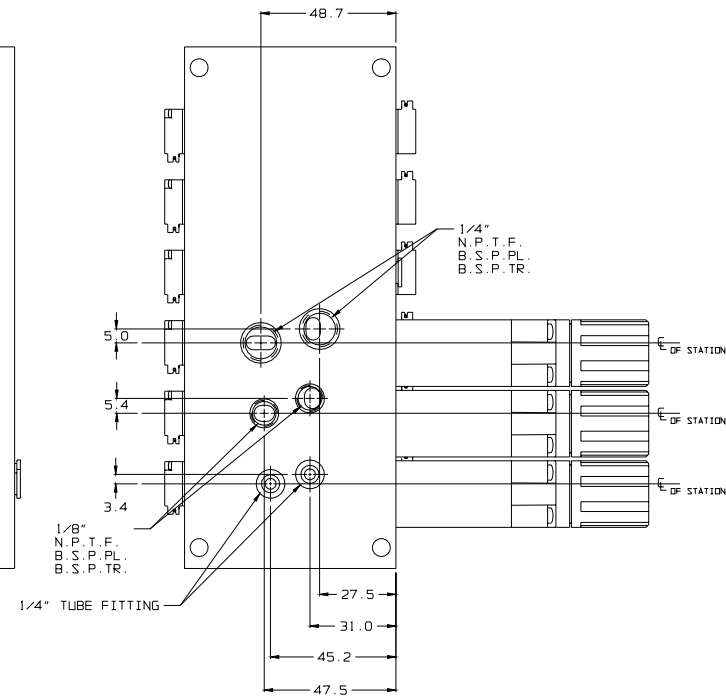


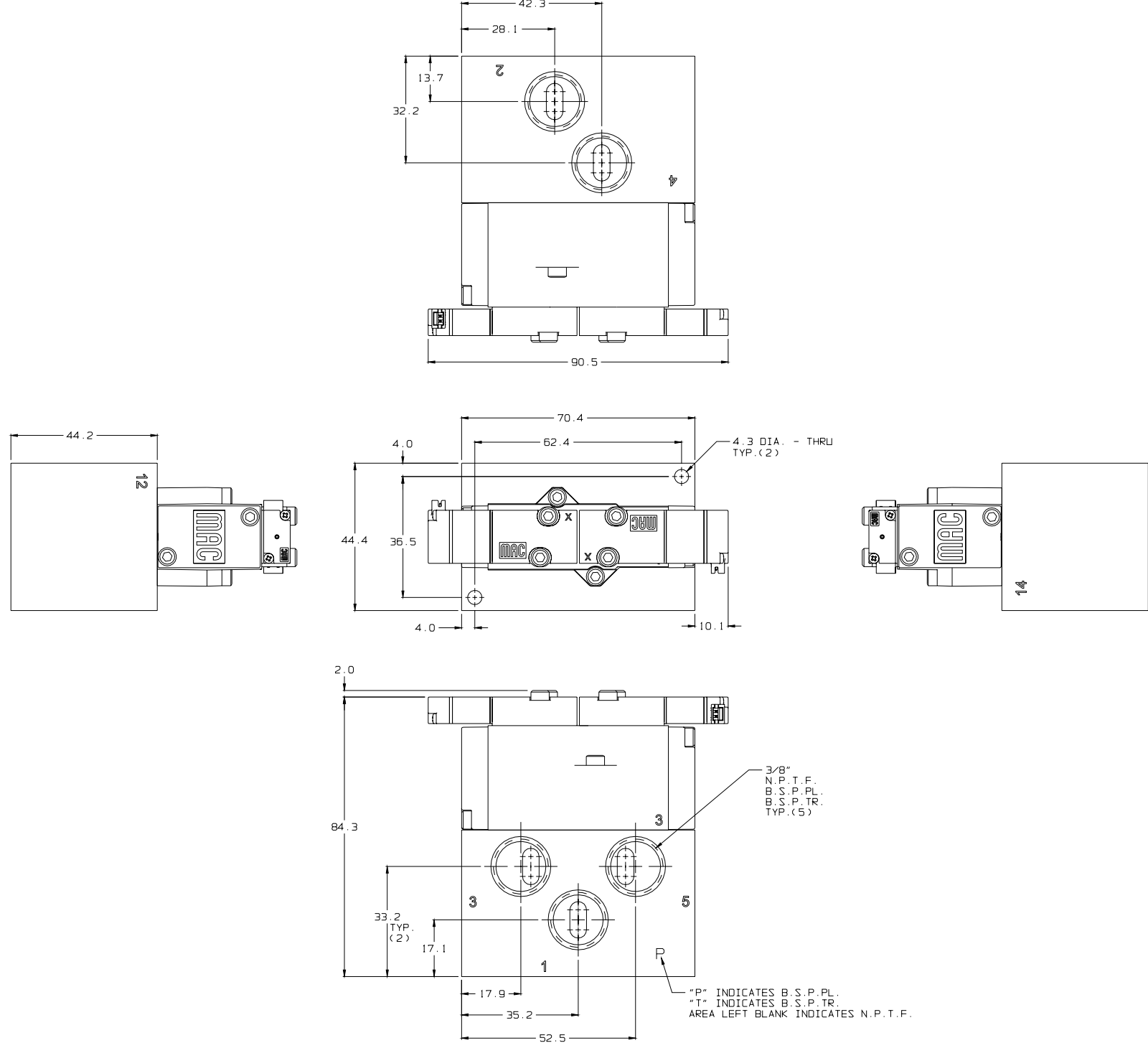


83 Series Individual Base
1/4" Side Ports (shown w/ RM3 Pilots)

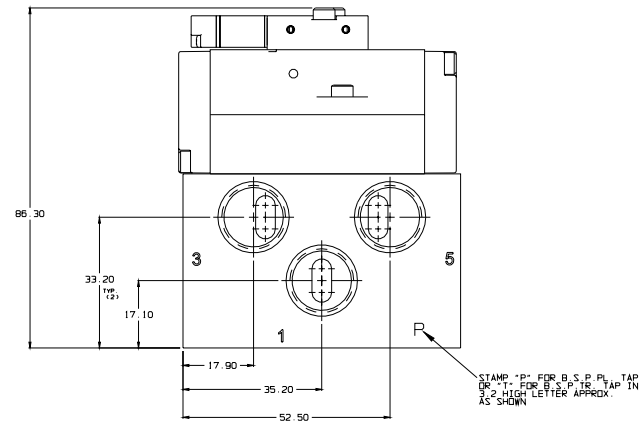
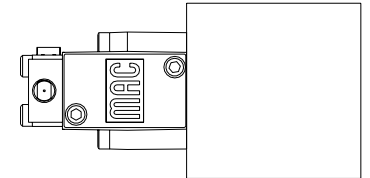
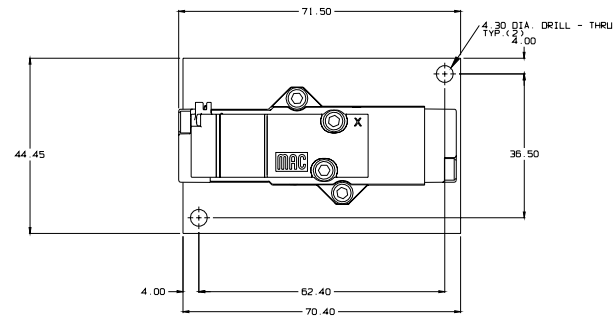
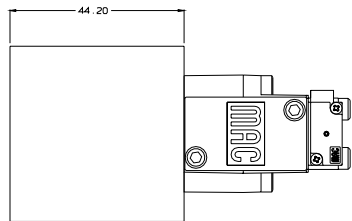
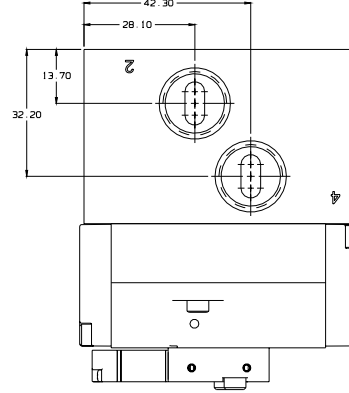


83 Series EBM Circuit Bar (non plug-in)

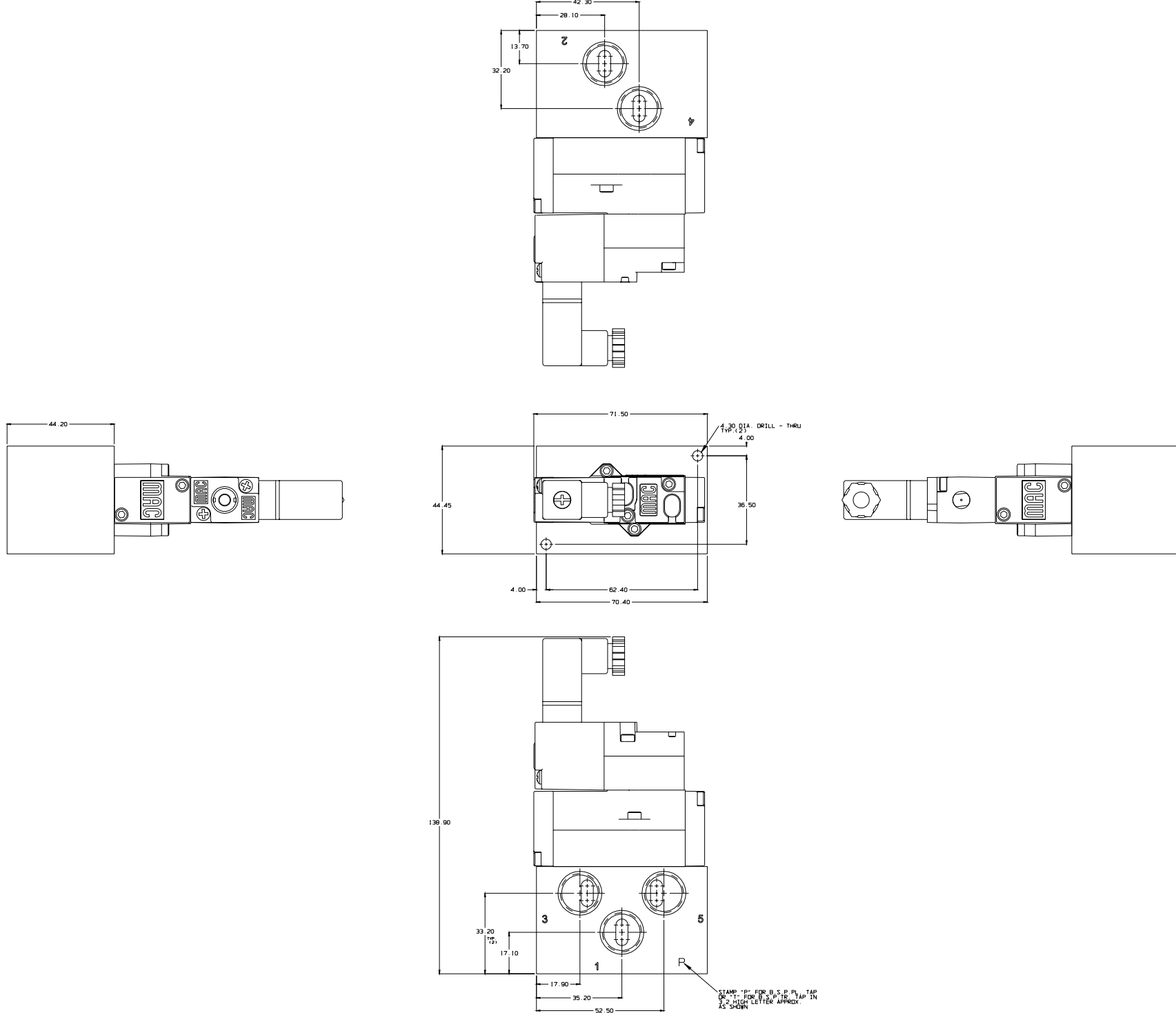




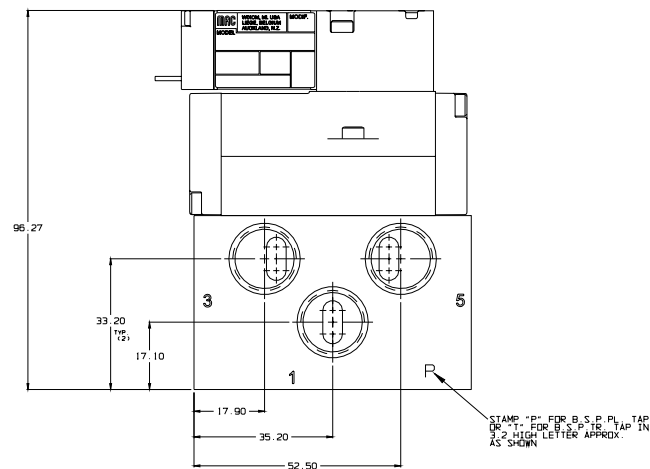
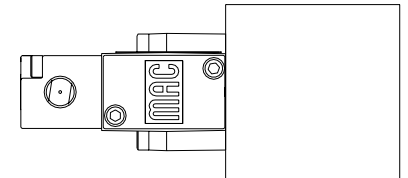
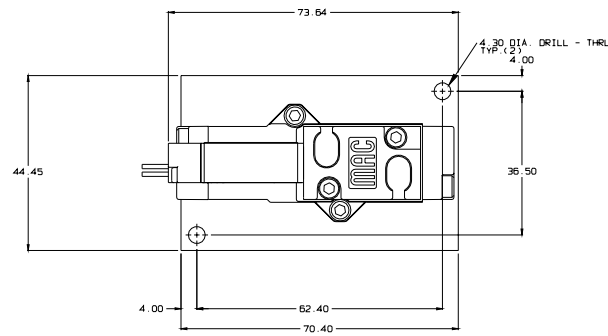
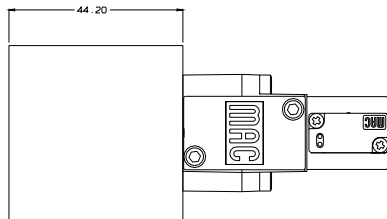
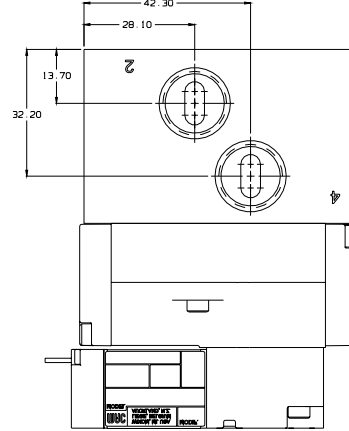
83 Series Individual Base
 3/8" Side Ports
 (shown w/ RM3 Pilots)



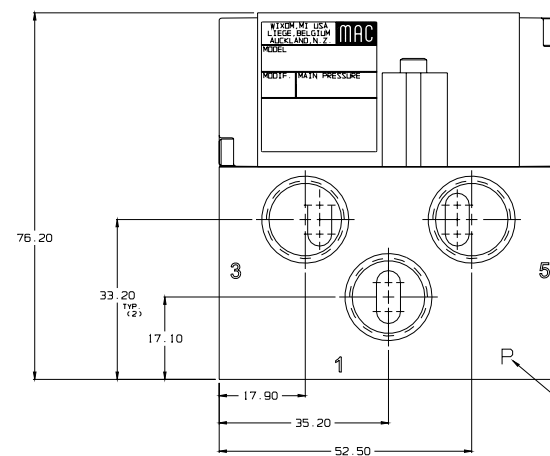
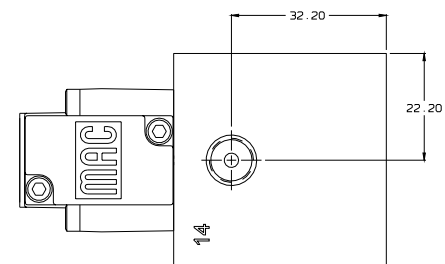
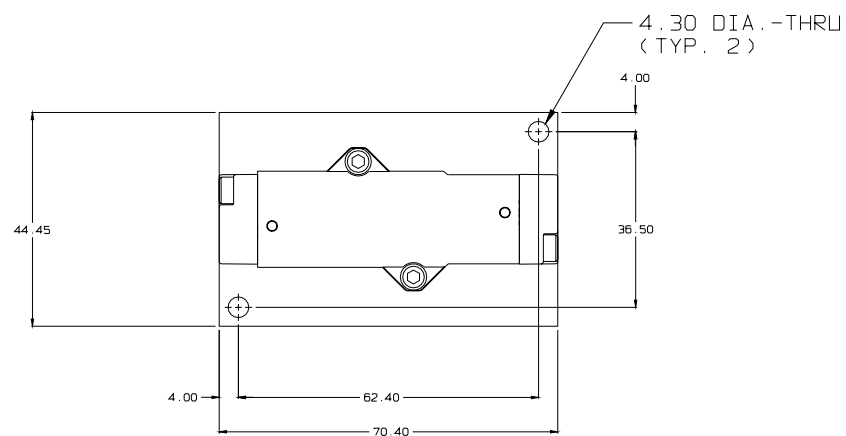
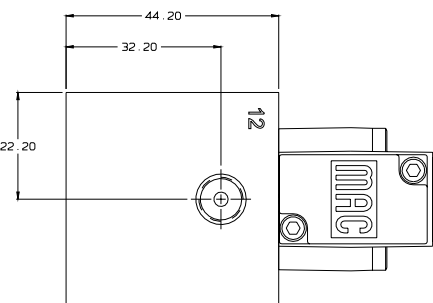
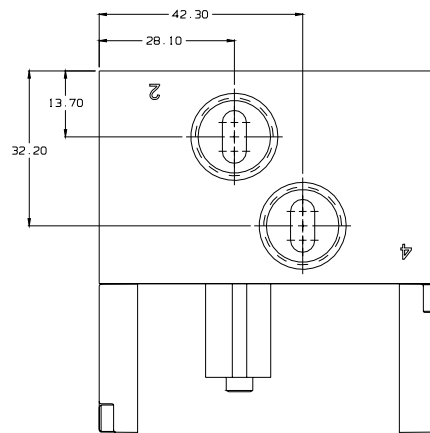
83 Series Single Solenoid
3/8" Side Ports
with RM Pilot



83 Series Single Solenoid
3/8" Side Ports
with DM Pilot



83 Series Single Solenoid 3/8" Side Ports with GM Pilot



83 SERIES DOUBLE REMOTE AIR
BASE (SHOWN WITH 3/8" PORTS)

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