



Pneumatic & Hydraulic Cylinders

Manufactured to Chrysler Specifications



MMAC-100

***Chrysler Standard
250 PSI Heavy Duty Air Cylinders***



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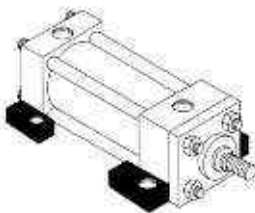
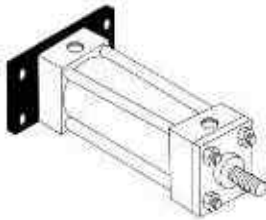
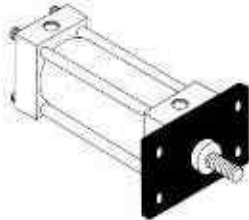
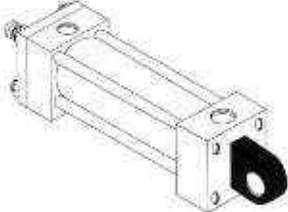
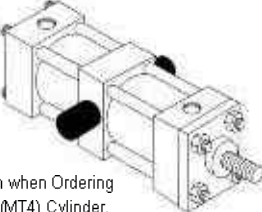
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Foot Side Lugs (MS2)  Pages 3	Cap Rectangular Flange (MF2)  Pages 4	Head Rectangular Flange (MF1)  Pages 5
Cap-Fixed Eye (MP3)  Page 6	Intermediate Trunnion (MT4)  Page 7 * Note: Specify X1 dimension when Ordering An Intermediate Trunnion (MT4) Cylinder.	

MMAC-100 Ordering Information



1 Specify Chrysler Cylinder Series Code "MMAC"

2 Specify Chrysler Cylinder Model Number :

<u>MODEL NUMBER</u>	<u>MOUNT DESCRIPTION</u>
100	= Side Lug Mount (MS2)
110	= Cap Rectangular Flange (MF2)
120	= Head Rectangular Flange (MF1)
130	= Pivot Mount (MP3)
140	= Center Trunnion (MT4)

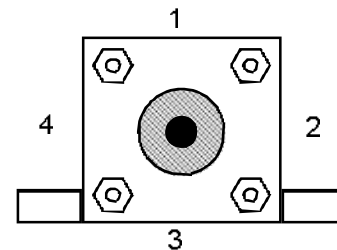
Note: Consult Factory if the Cylinder needs to be Proximity Switch Ready

3 Optional Feature. Specify "E" to Designate Rod Extension & Rod Boot
Note: Omit from Part Number if not needed.

4 Specify Cushion Location :

- B = Cushion on Blind End Only
- R = Cushion on Rod End Only
- BR = Cushion on Both Blind & Rod Ends
- NC = No Cushions

Cushion Adjustment may be at Positions 1, 2, 3, or 4.
Ports are standard at Position 2 & 3.

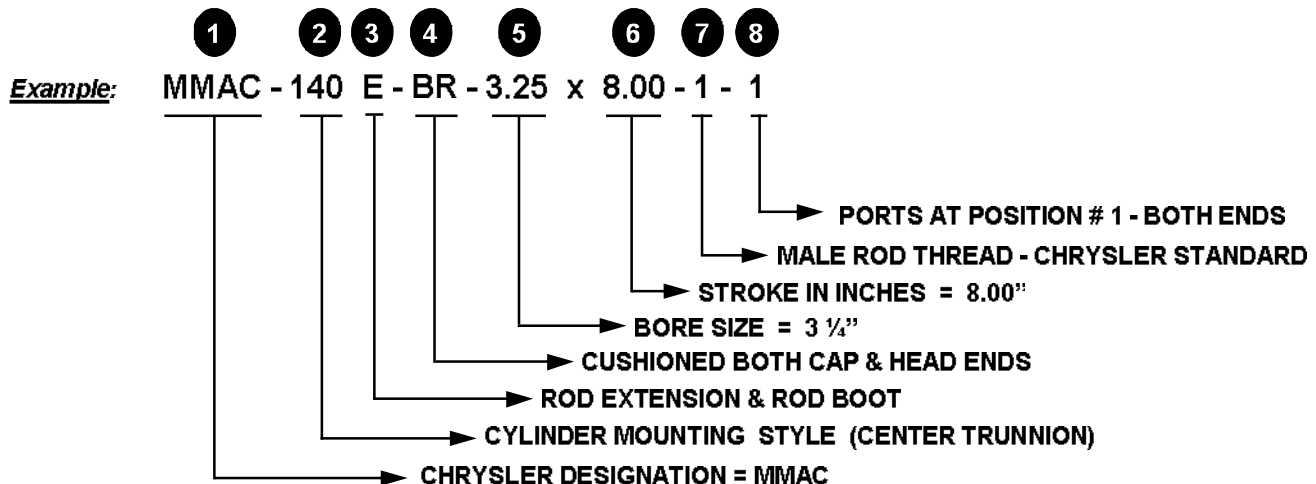


5 Specify Cylinder Bore: & 6 Specify Cylinder Stroke (rounded to nearest 2 decimals) :

7 Specify Cylinder Rod End Style :

- 1 = Male Thread (Standard Chrysler)
- 2 = Female Threads

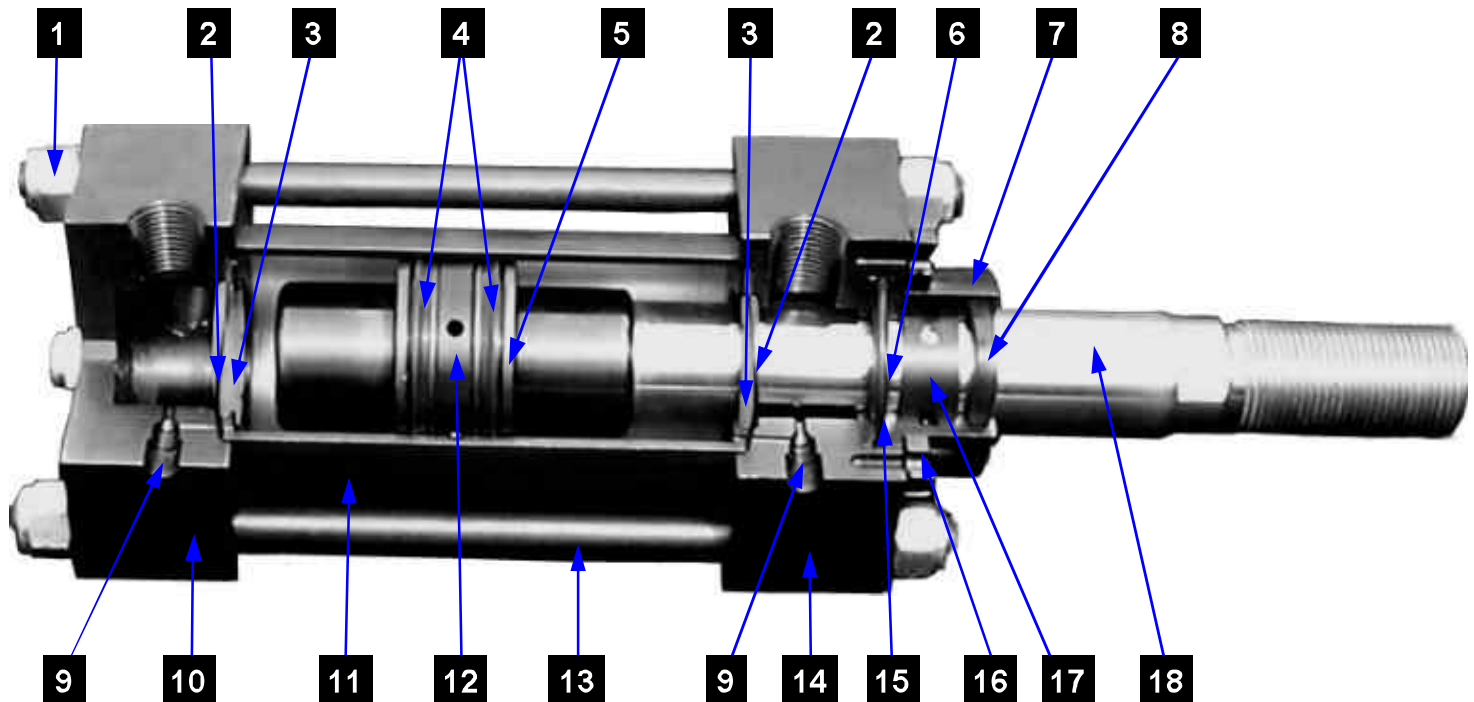
8 Specify all Port Locations (Chrysler Ports are Standard at Positions 2 & 3. NPTF Ports are Standard. Ports may be located at Positions 1, 2, 3, or 4.)



MMAC-100 Cylinder Parts List



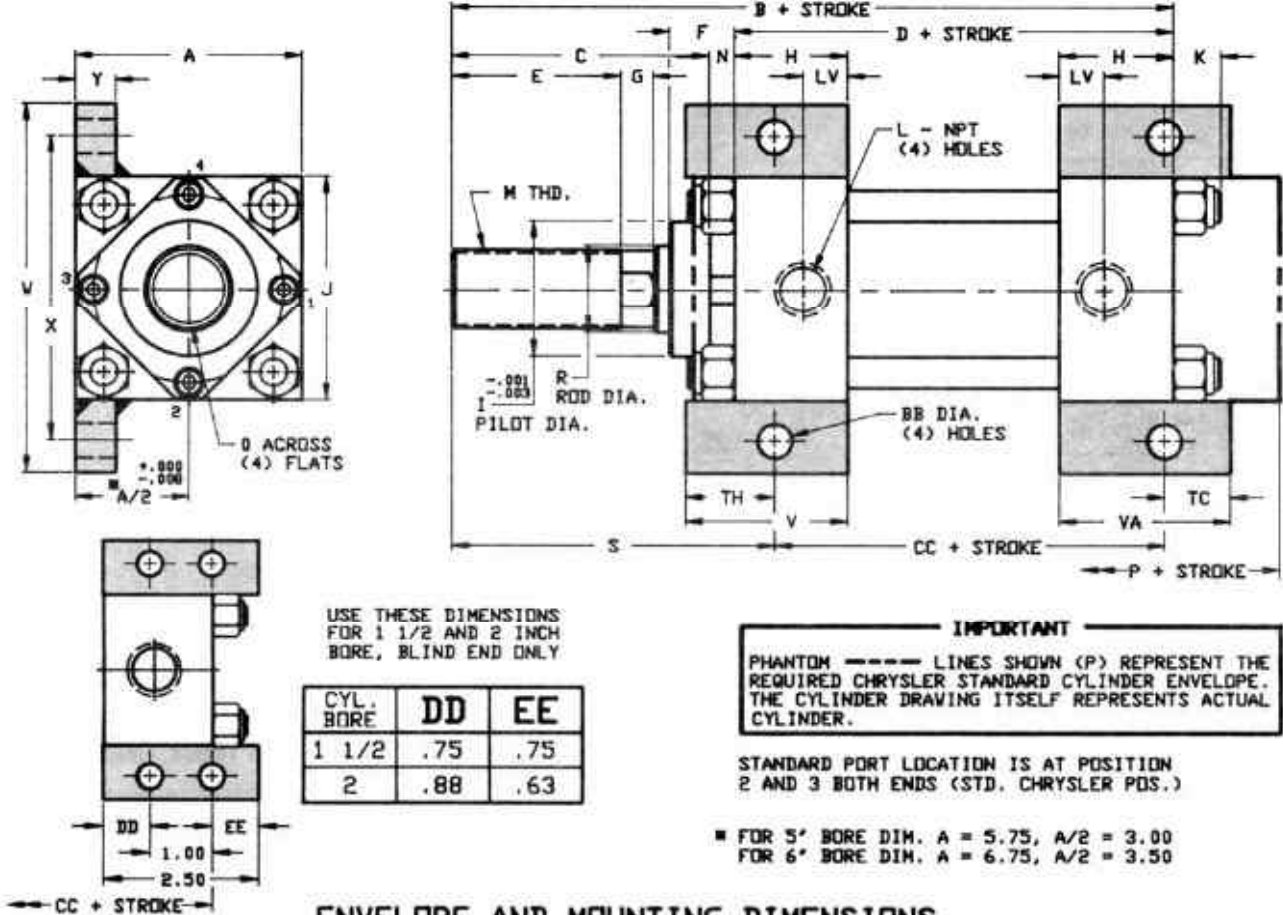
Pre-Lubricated (250 PSIG Rated)



1. Tie Rod Nut
2. Tube O-Ring
3. Cushion Seal
4. Piston U-Cups
5. Piston
6. Rod Seal
7. Rod Cartridge
8. Rod Wiper
9. Cushion Adjustment
10. Cap End

11. Cylinder Tube
12. Piston Wear Band
13. Tie Rod
14. Head
15. Rod Cartridge O-Ring
16. Rod Cartridge Retainer Plate
17. Rod Wear Band
18. Piston Rod

MMAC-100 Side Lug Mount (MS2)

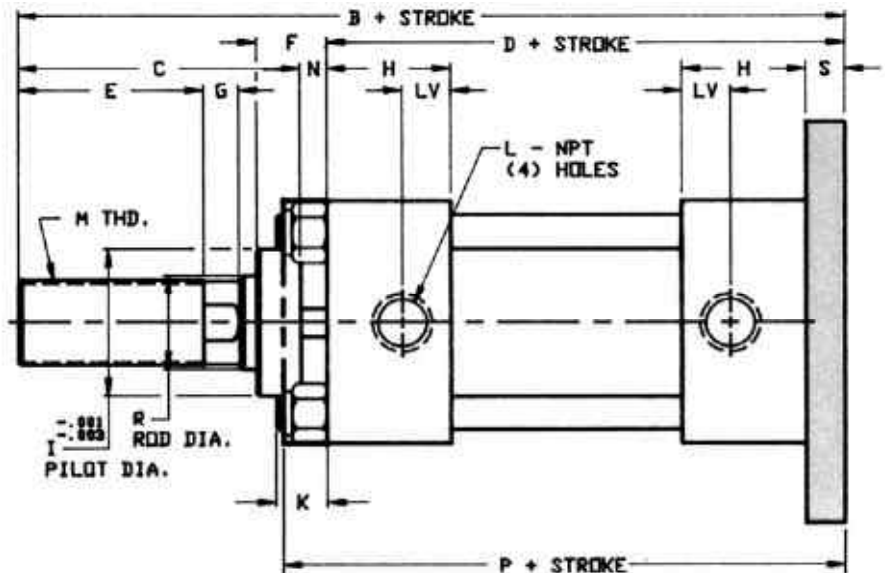
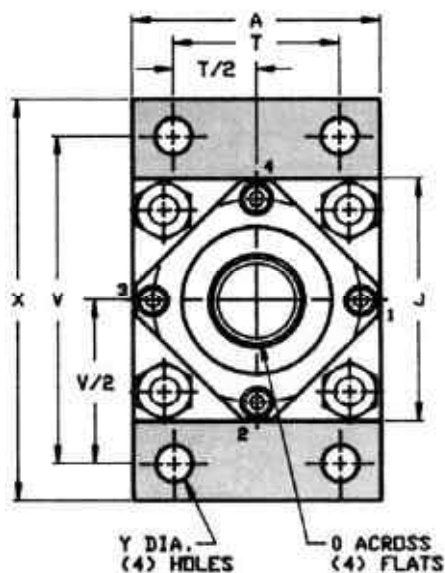


ENVELOPE AND MOUNTING DIMENSIONS

CYL. BORE	A	B	C	D	E	F	G	H	I	J	K	L	LV	M
1 1/2	2.50	7.94	2.94	4.63	1.63	.94	.50	1.75	1.375	2.50	.56	1/2	.69	3/4-10
2	3.00	8.63	3.63	4.63	2.13	.94	.50	1.75	1.750	3.00	.63	1/2	.69	1-8
2 1/2	3.50	9.13	4.13	4.75	2.63	1.00	.50	1.75	2.125	3.50	.75	1/2	.69	1 1/4-12
3 1/4	4.50	10.19	4.69	5.25	2.63	1.00	.50	2.00	2.125	4.50	.88	1/2	.69	1 1/4-12
4	5.00	10.75	5.25	5.25	3.13	.88	.75	2.00	2.500	5.00	.88	3/4	.75	1 1/2-12
4 1/2	5.50	10.75	5.50	5.00	3.13	.88	.75	1.88	2.500	5.50	.88	3/4	.75	1 1/2-12
5	■	12.50	6.75	5.25	4.13	1.00	1.00	1.88	3.000	5.50	.81	3/4	.88	2-12
6	■	13.00	7.00	5.50	4.13	1.00	1.00	2.00	3.000	6.50	.81	3/4	.88	2-12
8	9.50	18.06	8.88	7.63	5.63	1.00	1.00	3.00	4.000	9.50	1.31	1	1.13	2 3/4-12

CYL. BORE	N	O	P	R	S	TC	TH	V	VA	W	X	Y	BB	CC
1 1/2	.38	.75	8.94	.875	3.69	.75	.75	2.13	2.50	4.25	3.50	.50	.41	4.25
2	.38	1.00	9.75	1.125	4.25	.63	.63	2.13	2.50	4.75	4.00	.50	.41	4.50
2 1/2	.25	1.25	10.75	1.375	5.00	.75	1.38	2.50	2.50	5.75	4.75	.63	.53	4.75
3 1/4	.25	1.25	11.25	1.375	5.00	.69	.56	2.50	2.50	6.50	5.50	.88	.53	5.00
4	.25	1.50	12.00	1.625	5.75	.75	1.00	2.75	2.75	7.50	6.25	.88	.65	5.00
4 1/2	.25	1.50	12.00	1.625	5.75	.88	.88	2.75	2.75	8.25	7.00	.88	.65	5.00
5	.50	2.00	14.75	2.125	7.25	.63	.63	2.50	3.25	9.00	7.50	1.13	.78	6.00
6	.50	2.00	14.75	2.125	7.25	.75	.75	3.00	3.00	10.00	8.50	1.13	.78	6.00
8	.50	2.75	19.88	3.000	10.88	1.25	1.50	3.00	4.88	13.25	11.25	1.13	1.03	6.75

MMAC-110 Cap Rectangular Flange (MF2)



IMPORTANT

PHANTOM ---- LINES SHOWN (P) REPRESENT THE REQUIRED CHRYSLER STANDARD CYLINDER ENVELOPE. THE CYLINDER DRAWING ITSELF REPRESENTS ACTUAL CYLINDER.

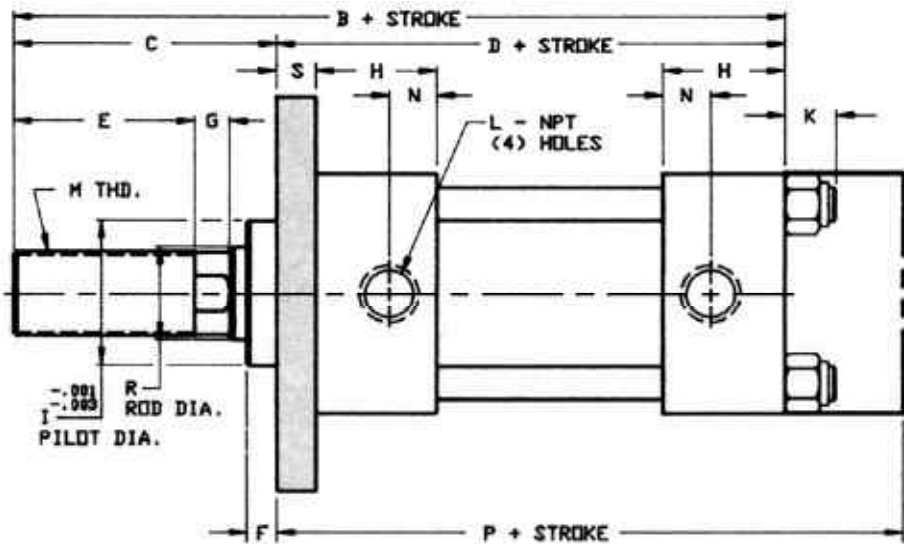
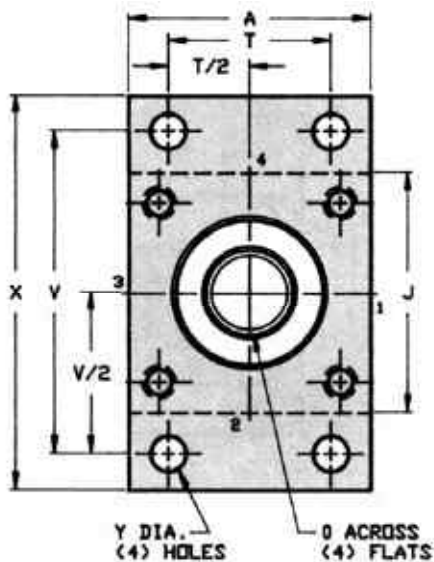
STANDARD PORT LOCATION IS AT POSITION 2 AND 3 BOTH ENDS (STD. CHRYSLER POS.)

ENVELOPE AND MOUNTING DIMENSIONS

CYL. BORE	A	B	C	D	E	F	G	H	I	J	K	L	LV	M
1 1/2	2.50	8.94	3.44	5.13	1.63	.94	.50	1.75	1.375	2.50	.56	1/2	.69	3/4-10
2	3.00	9.75	4.25	5.13	2.13	.94	.50	1.75	1.750	3.00	.63	1/2	.69	1-8
2 1/2	3.50	10.75	5.13	5.38	2.63	1.00	.50	1.75	2.125	3.50	.75	1/2	.69	1 1/4-12
3 1/4	4.50	11.25	5.13	5.88	2.63	1.00	.50	2.00	2.125	4.50	.88	1/2	.69	1 1/4-12
4	5.00	12.00	5.88	5.88	3.13	.88	.75	2.00	2.500	5.00	.88	3/4	.75	1 1/2-12
4 1/2	5.50	12.00	6.13	5.63	3.13	.88	.75	1.88	2.500	5.50	.88	3/4	.75	1 1/2-12
5	6.00	14.75	8.25	6.00	4.13	1.00	1.00	1.88	3.000	5.50	.81	3/4	.88	2-12
6	7.00	14.75	8.00	6.25	4.13	1.00	1.00	2.00	3.000	6.50	.81	3/4	.88	2-12
8	9.50	19.88	10.75	8.63	5.63	1.00	1.00	3.00	4.000	9.50	1.31	1	1.13	2 3/4-12

CYL. BORE	N	O	P	R	S	T	V	X	Y
1 1/2	.38	.75	6.25	.875	.50	1.50	3.50	4.25	.406
2	.38	1.00	6.50	1.125	.50	2.00	4.00	4.75	.406
2 1/2	.25	1.25	7.00	1.375	.63	2.50	4.75	5.75	.531
3 1/4	.25	1.25	7.50	1.375	.63	3.00	5.50	6.50	.531
4	.25	1.50	7.50	1.625	.63	3.50	6.25	7.50	.656
4 1/2	.25	1.50	7.50	1.625	.63	4.00	7.00	8.25	.656
5	.50	2.00	9.00	2.125	.75	4.50	7.50	9.00	.781
6	.50	2.00	9.00	2.125	.75	5.50	8.50	10.00	.781
8	.50	2.75	12.50	3.000	1.00	7.00	11.25	13.25	1.031

MMAC-120 Head Rectangular Flange (MF1)



IMPORTANT
PHANTOM ----- LINES SHOWN (P) REPRESENT THE REQUIRED CHRYSLER STANDARD CYLINDER ENVELOPE. THE CYLINDER DRAWING ITSELF REPRESENTS ACTUAL CYLINDER.

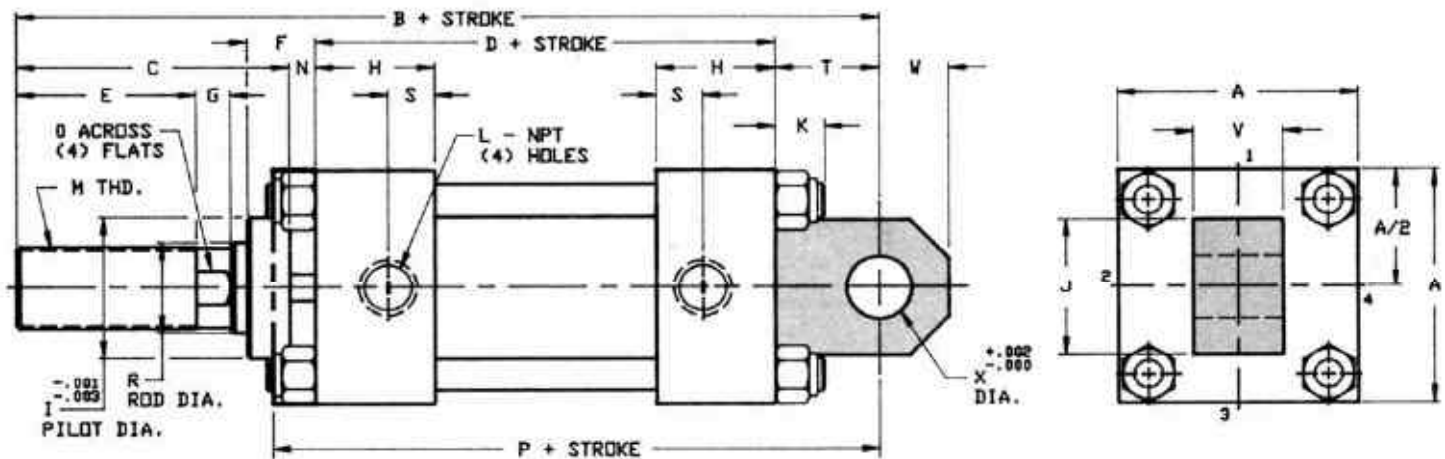
STANDARD PORT LOCATION IS AT POSITION 2 AND 3 BOTH ENDS (STD. CHRYSLER POS.)

ENVELOPE AND MOUNTING DIMENSIONS

CYL. BORE	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1 1/2	2.50	7.81	2.69	5.13	1.63	.44	.50	1.75	1.375	2.50	.56	1/2	3/4-10	.69
2	3.00	8.38	3.25	5.13	2.13	.44	.50	1.75	1.750	3.00	.63	1/2	1-8	.69
2 1/2	3.50	9.13	3.75	5.38	2.63	.38	.50	1.75	2.125	3.50	.75	1/2	1 1/4-12	.69
3 1/4	4.50	9.63	3.75	5.88	2.63	.38	.50	2.00	2.125	4.50	.88	1/2	1 1/4-12	.69
4	5.00	10.38	4.50	5.88	3.13	.25	.75	2.00	2.500	5.00	.88	3/4	1 1/2-12	.75
4 1/2	5.50	10.13	4.50	5.63	3.13	.25	.75	1.88	2.500	5.50	.88	3/4	1 1/2-12	.75
5	6.00	11.75	5.75	6.00	4.13	.25	1.00	1.88	3.000	5.50	.81	3/4	2-12	.88
6	7.00	12.00	5.75	6.25	4.13	.25	1.00	2.00	3.000	6.50	.81	3/4	2-12	.88
8	9.50	16.00	7.38	8.63	5.63	0.00	1.00	3.00	4.000	9.50	1.31	1	2 3/4-12	1.13

CYL. BORE	Ø	P	R	S	T	V	X	Y
1 1/2	.75	6.25	.875	.50	1.50	3.50	4.25	.406
2	1.00	6.50	1.125	.50	2.00	4.00	4.75	.406
2 1/2	1.25	7.00	1.375	.63	2.50	4.75	5.75	.531
3 1/4	1.25	7.50	1.375	.63	3.00	5.50	6.50	.531
4	1.50	7.50	1.625	.63	3.50	6.25	7.50	.656
4 1/2	1.50	7.50	1.625	.63	4.00	7.00	8.25	.656
5	2.00	9.00	2.125	.75	4.50	7.50	9.00	.781
6	2.00	9.00	2.125	.75	5.50	8.50	10.00	.781
8	2.75	12.50	3.000	1.00	7.00	11.25	13.25	1.031

MMAC-130 Pivot Mount (MP3)



IMPORTANT

PHANTOM --- LINES SHOWN (P) REPRESENT THE REQUIRED CHRYSLER STANDARD CYLINDER ENVELOPE. THE CYLINDER DRAWING ITSELF REPRESENTS ACTUAL CYLINDER.

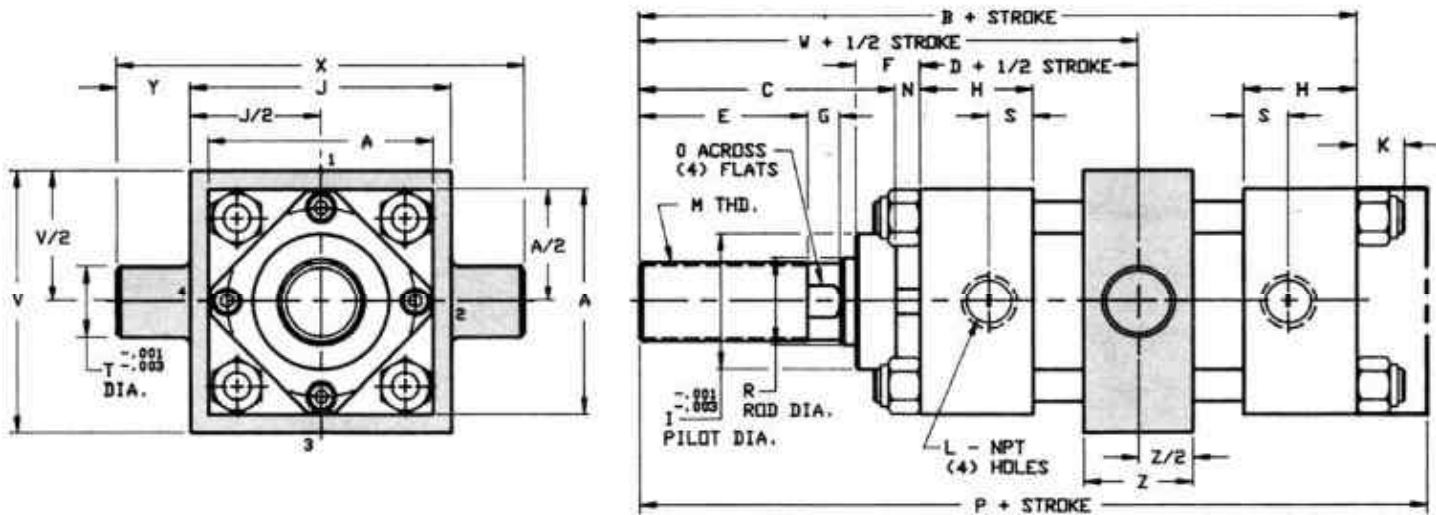
STANDARD PORT LOCATION IS AT POSITION 2 AND 3 BOTH ENDS (STD. CHRYSLER POS.)

ENVELOPE AND MOUNTING DIMENSIONS

CYL. BORE	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1 1/2	2.50	9.81	3.56	4.63	1.63	.94	.50	1.75	1.375	1.50	.56	1/2	3/4-10	.38
2	3.00	10.63	4.38	4.63	2.13	.94	.50	1.75	1.750	1.50	.63	1/2	1-8	.38
2 1/2	3.50	11.63	5.25	4.75	2.63	1.00	.50	1.75	2.125	1.75	.75	1/2	1 1/4-12	.25
3 1/4	4.50	12.13	5.13	5.25	2.63	1.00	.50	2.00	2.125	1.75	.88	1/2	1 1/4-12	.25
4	5.00	13.25	5.88	5.25	3.13	.88	.75	2.00	2.500	2.25	.88	3/4	1 1/2-12	.25
4 1/2	5.50	13.25	6.13	5.00	3.13	.88	.75	1.88	2.500	2.25	.88	3/4	1 1/2-12	.25
5	5.50	16.25	8.25	5.25	4.13	1.00	1.00	1.88	3.000	3.00	.81	3/4	2-12	.50
6	6.50	16.25	8.00	5.50	4.13	1.00	1.00	2.00	3.000	3.00	.81	3/4	2-12	.50
8	9.50	21.88	10.75	7.63	5.63	1.00	1.00	3.00	4.000	4.00	1.31	1	2 3/4-12	.50

CYL. BORE	O	P	R	S	T	V	W	X
1 1/2	.75	7.13	.875	.69	1.25	1.00	.75	.625
2	1.00	7.38	1.125	.69	1.25	1.00	.75	.625
2 1/2	1.25	7.88	1.375	.69	1.38	1.50	.88	.750
3 1/4	1.25	8.38	1.375	.69	1.50	1.50	.88	.750
4	1.50	8.75	1.625	.75	1.88	2.00	1.13	1.000
4 1/2	1.50	8.75	1.625	.75	1.88	2.00	1.13	1.000
5	2.00	10.50	2.125	.88	2.25	2.50	1.50	1.500
6	2.00	10.50	2.125	.88	2.25	2.50	1.50	1.500
8	2.75	14.50	3.000	1.13	3.00	3.00	2.00	2.000

MMAC-140 - Center Trunnion (MT4)



IMPORTANT

PHANTOM ---- LINES SHOWN (P) REPRESENT THE REQUIRED CHRYSLER STANDARD CYLINDER ENVELOPE. THE CYLINDER DRAWING ITSELF REPRESENTS ACTUAL CYLINDER.

STANDARD PORT LOCATION IS AT POSITION 2 AND 3 BOTH ENDS (STD. CHRYSLER POS.)

MINIMUM STROKE REQUIREMENT SEE TAB.

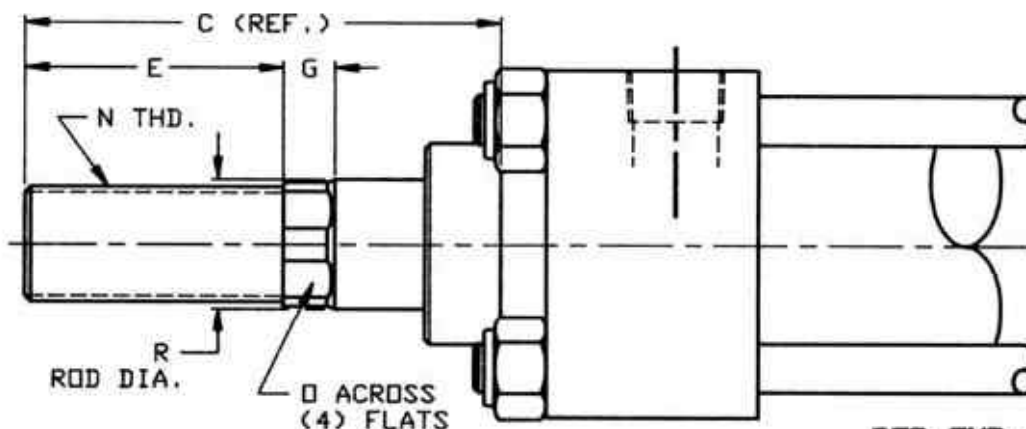
ENVELOPE AND MOUNTING DIMENSIONS

CYL. BORE	A	B	C	*D	E	F	G	H	I	J	K	L	M	N
1 1/2	2.50	8.50	3.50	2.31	1.63	.94	.50	1.75	1.375	2.50	.56	1/2	3/4-10	.38
2	3.00	9.31	4.31	2.31	2.13	.94	.50	1.75	1.750	3.00	.63	1/2	1-8	.38
2 1/2	3.50	10.13	5.13	2.38	2.63	1.00	.50	1.75	2.125	3.50	.75	1/2	1 1/4-12	.25
3 1/4	4.50	10.38	4.88	2.63	2.63	1.00	.50	2.00	2.125	4.50	.88	1/2	1 1/4-12	.25
4	5.00	11.38	5.88	2.63	3.13	.88	.75	2.00	2.500	5.75	.88	3/4	1 1/2-12	.25
4 1/2	5.50	11.38	6.13	2.38	3.13	.88	.75	1.88	2.500	6.25	.88	3/4	1 1/2-12	.25
5	5.50	13.13	7.38	2.63	4.13	1.00	1.00	1.88	3.000	7.25	.81	3/4	2-12	.50
6	6.50	13.25	7.25	2.75	4.13	1.00	1.00	2.00	3.000	8.25	.81	3/4	2-12	.50
8	9.50	18.19	10.06	3.81	5.63	1.00	1.00	3.00	4.000	11.50	1.31	1	2 3/4-12	.50

CYL. BORE	Q	P	R	S	T	V	*W	X	Y	Z
1 1/2	.75	8.94	.875	.69	1.000	2.75	6.19	4.50	1.00	1.75
2	1.00	9.75	1.125	.69	1.000	3.25	7.00	5.00	1.00	1.75
2 1/2	1.25	10.75	1.375	.69	1.000	3.75	7.75	5.50	1.00	1.75
3 1/4	1.25	11.25	1.375	.69	1.000	4.50	7.75	6.50	1.00	2.00
4	1.50	12.00	1.625	.75	1.500	5.50	8.75	8.50	1.38	2.13
4 1/2	1.50	12.00	1.625	.75	1.500	6.25	8.75	9.00	1.38	2.50
5	2.00	14.75	2.125	.88	1.500	7.25	10.50	10.00	1.38	2.00
6	2.00	14.75	2.125	.88	1.500	8.25	10.50	11.00	1.38	2.00
8	2.75	19.88	3.000	1.13	2.000	10.50	14.38	15.00	1.75	3.00

CYL. BORE	MIN. STROKE
1 1/2	.63
2	.63
2 1/2	.50
3 1/4	.75
4	.88
4 1/2	1.25
5	.50
6	.50
8	1.38

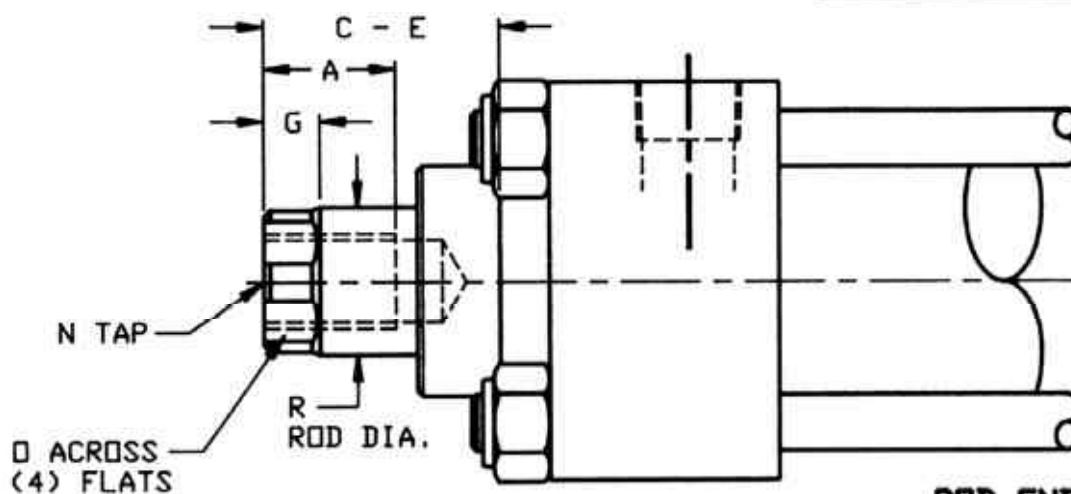
MMAC-100 Rod Ends



STANDARD ROD END
FOR CHRYSLER

ROD END STYLE 1

CYL. BORE	E	G	N	Ø	R
1 1/2	1.63	.50	3/4-10	.75	.875
2	2.13	.56	1-8	1.00	1.125
2 1/2	2.63	.56	1 1/4-12	1.25	1.375
3 1/4	2.63	.56	1 1/4-12	1.25	1.375
4	3.13	.69	1 1/2-12	1.50	1.625
4 1/2	3.13	.69	1 1/2-12	1.50	1.625
5	4.13	.81	2-12	2.00	2.125
6	4.13	.81	2-12	2.00	2.125
8	5.63	.75	2 3/4-12	2.75	3.000



OPTIONAL ROD END
ROD STICK OUT CAN BE FIGURED BY
SUBTRACTING STD. MALE THD. (E)
FROM DIM. (C) FROM MNTG. DIM'S.

ROD END STYLE 3

CYL. BORE	A	G	N	Ø	R
1 1/2	.88	.50	7/16-20	.75	.875
2	1.50	.56	3/4-16	1.00	1.125
2 1/2	2.00	.56	1-14	1.25	1.375
3 1/4	2.00	.56	1-14	1.25	1.375
4	2.50	.69	1 1/4-12	1.50	1.625
4 1/2	2.50	.69	1 1/4-12	1.50	1.625
5	3.00	.81	1 1/2-12	2.00	2.125
6	3.00	.81	1 1/2-12	2.00	2.125
8	4.00	.75	2 1/4-12	2.75	3.000