

MMAC-200 & MMHC200

MMAC-200

*Chrysler Standard
(NFPA Interchangeable)
250 PSI Heavy Duty
Air Cylinders*

MMHC-200

*Chrysler Standard
(NFPA Interchangeable)
1500 PSI Rated
Low-Pressure
Hydraulic Cylinders*



* Pictured is the MMAC-200 (250 PSI Rated Air Cylinder).
The MMHC-200 (1500 PSI Rated Hydraulic Cylinder) is dimensionally
the same, but uses low pressure hydraulic seals.

27650 Groesbeck Highway * Roseville, Michigan 48066-2759
(586) 775-7211 * (800) 526-7968 * Fax: (586) 775-4545
www.Peninsularcylinders.com Email: Sales@Peninsularcylinders.com



27650 Groesbeck Highway
Roseville, MI 48066-2759

Toll- Free 800-526-7968
Phone 586-775-7211
fax 586-775-4545

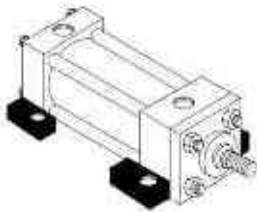
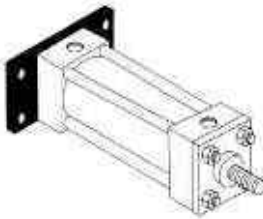
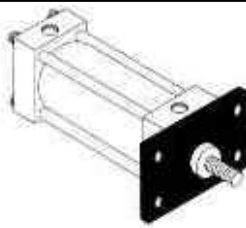
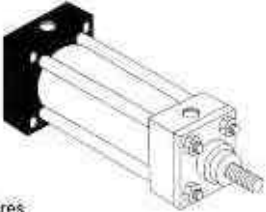
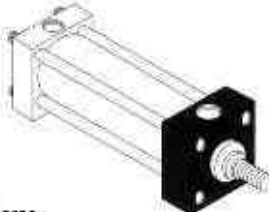
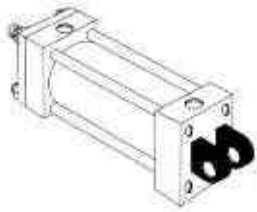
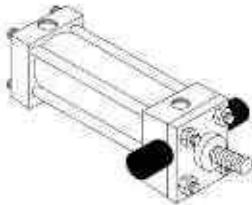
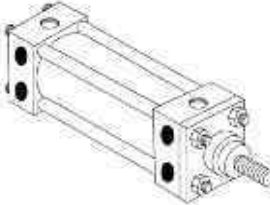
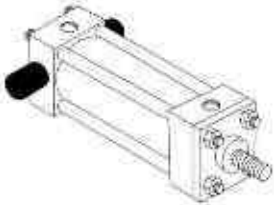
TABLE OF CONTENTS

<u>Page</u>	<u>Description</u>
1	MMAC-200 / MMHC-200 - Ordering Information
2	MMAC-200 / MMHC-200 - Cylinder Parts List
3 & 4	MMAC-200 / MMHC205 - Side Lug (MS2)
5 & 6	MMAC-210 / MMHC215 - Cap Rectangular Flange (1½" - 6" Bore) (MF2)
7 & 8	MMAC-220 / MMHC225 - Head Rectangular Flange (1 ½" - 6" Bore) (MF1)
9 & 10	MMAC-210 / MMHC215 - Cap Square (8" - 14" Bore) (ME4)
9 & 10	MMAC-220 / MMHC225 - Head Square (8" - 14" Bore) (ME3)
11 & 12	MMAC-230 / MMHC235 - Cap Fixed Clevis (MP1)
13 & 14	MMAC-240 / MMHC245 - Head Trunnion (MT1)
15 & 16	MMAC-250 / MMHC255 - Side Tapped (MS4)
17 & 18	MMAC-260 / MMHC265 - Cap Trunnion (MT2)

Mounting Styles

MMAC-200 & MMHC-200 Pages 3-18



Foot Side Lugs (MS2)  Pages 3	Cap Rectangular Flange (MF2)  Pages 5	Head Rectangular Flange (MF1)  Pages 7
Cap Square Block (ME4)  Page 9 For 8" and bigger bores.	Head Square Block (ME3)  Page 9 For 8" and bigger bores.	Cap Fixed Clevis (MP1)  Pages 11
Head Trunnion (MT1)  Pages 13	Side Tapped (MS4)  Pages 15	Cap Trunnion (MT2)  Pages 17

MMAC-200 (250 PSIG Rated Air Cylinder) MMHC-200 (1500 PSI Rated Hydraulic Cylinder) ORDERING INFORMATION



1 & 2 Specify Chrysler Cylinder Designation & Model Number :

CHRYSLER DESIGNATION	MODEL NUMBER	MOUNT DESCRIPTION <i>(not used in Part Number)</i>
MMAC-200 / MMHC205	MS2	Side Lug
MMAC-210 / MMHC215	MF2	Cap Rectangular Flange (1½" - 6" Bore)
MMAC-210 / MMHC215	ME4	Cap Square (8" - 14" Bore)
MMAC-220 / MMHC225	MF1	Head Rectangular Flange (1½" - 6" Bore)
MMAC-220 / MMHC225	ME3	Head Square (8" - 14" Bore)
MMAC-230 / MMHC235	MP1	Cap Fixed Clevis
MMAC-240 / MMHC245	MT1	Head Trunnion
MMAC-250 / MMHC255	MS4	Side Tapped
MMAC-260 / MMHC265	MT2	Cap Trunnion

3 Specify Cushion Location :

B = Cushion on Blind End
R = Cushion on Rod End

BR = Cushion on Both Blind & Rod Ends
NC = No Cushions

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

4 & 5 Specify Cylinder Bore & Stroke :

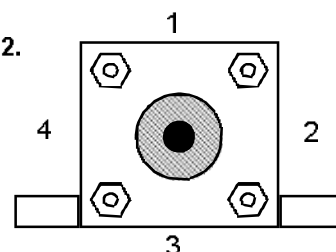
6 Specify Cylinder Rod Diameter :

7 Specify Cylinder Rod End Style :

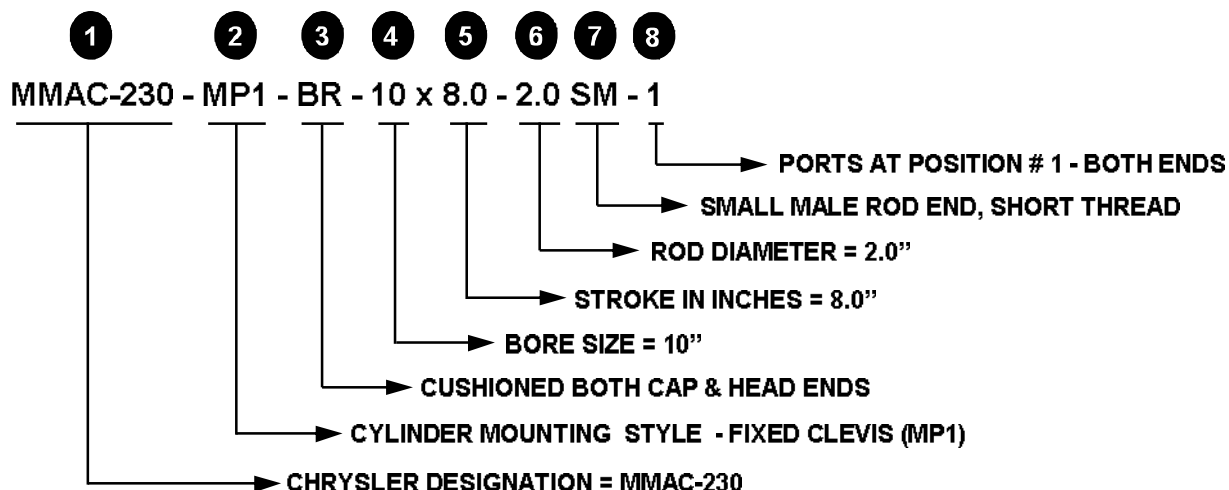
B = Chrysler Standard (4 flats)
FM = Full Male, Short Thread
IM = Intermediate Male, Short Thread

SM = Small Male, Short Thread with Shoulder
SF = Short Female

8 Specify Port Locations : Note-NPTF Ports are Standard. Port location is standard at Position 1. Ports may be located at Positions 1, 2, 3, or 4. Chrysler Standard Port Positions at 2 & 3 optional at 1 & 4.



Example:

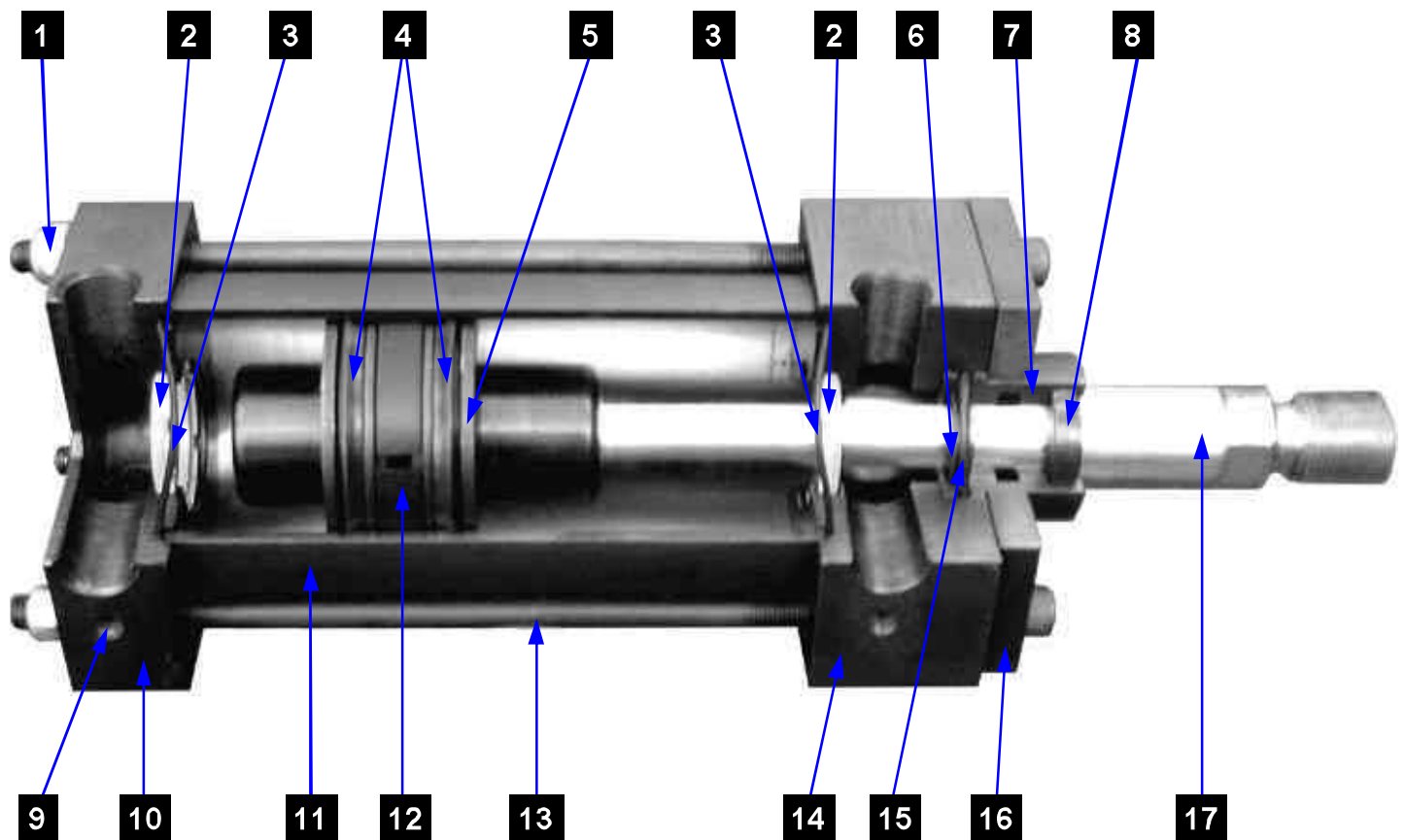


MMAC-200 / MMHC-200

Cylinder Parts List



Pictured is the MMAC-200 (250 PSIG Rated Air Cylinder).
The MMHC-200 (1500 PSI Rated Hydraulic Cylinder) is dimensionally the same, but uses low pressure hydraulic seals.

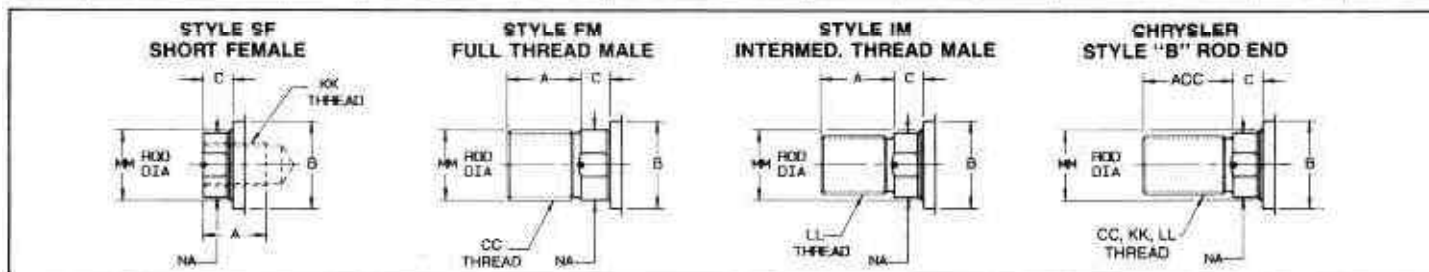
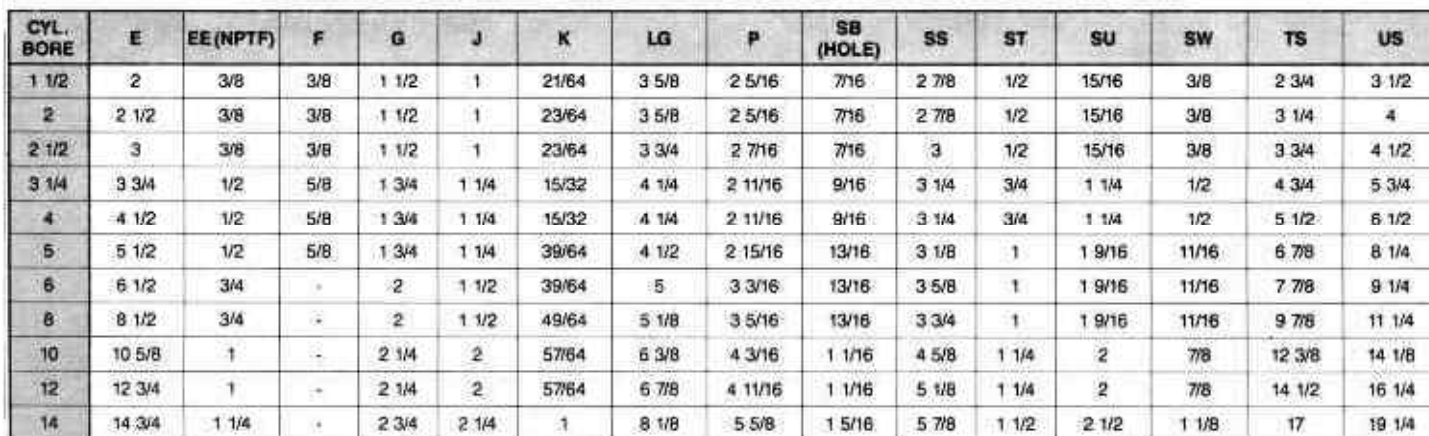
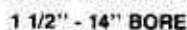


1. Tie Rod Nut
2. Cushion Seal
3. Tube O-Ring
4. Piston U-Cups
5. Piston
6. Rod Seal
7. Rod Cartridge
8. Rod Wiper
9. Cushion Adjustment
10. Cap End

11. Cylinder Tube
12. Piston Wear Band
13. Tie Rod
14. Head
15. Rod Cartridge O-Ring
16. Rod Cartridge Retainer Plate
17. Piston Rod; Specify Rod End Style & Diameter

**PENINSULAR
CYLINDER CO.**

**1 1/2", 2", 2 1/2" & 5" BORE
With Maximum Oversize Rods**



Chrysler Dimensions shown high-lighted

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions affected by Rod Size														
		KK	LL	CC	A	ACC	B ¹⁻⁴⁹⁹ ₅₀₀	BF	C	D	NA	V	VA	VB	W	WB	XS	Y	ZB
1 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	1.968	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	4 61/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	-	1/2	7/8	.968	1/2	-	-	1	-	1 3/4	2 1/4	5 21/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 39/64
2	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	1.968	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	4 63/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 23/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
2 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
3 1/4	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
4	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
5	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
6	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
7	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
8	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
9	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
10	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
11	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
12	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
13	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64
14	5/8	7/16-20	1/2-20	5/8-18	3/4	1-3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/8	1 7/8	5 7/64
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	1 3/4	2 1/4	5 31/64
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.468	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2	2 1/2	2 1/2	5 47/64

MMAC-210 / MMHC-215

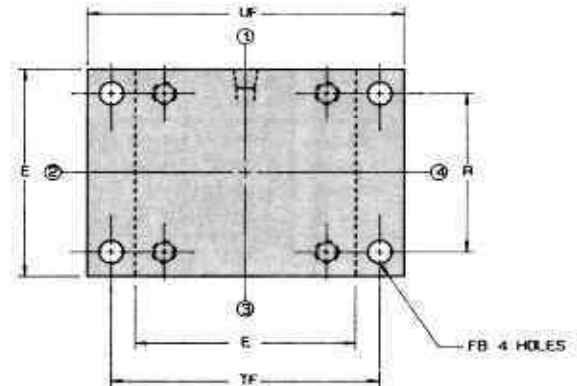
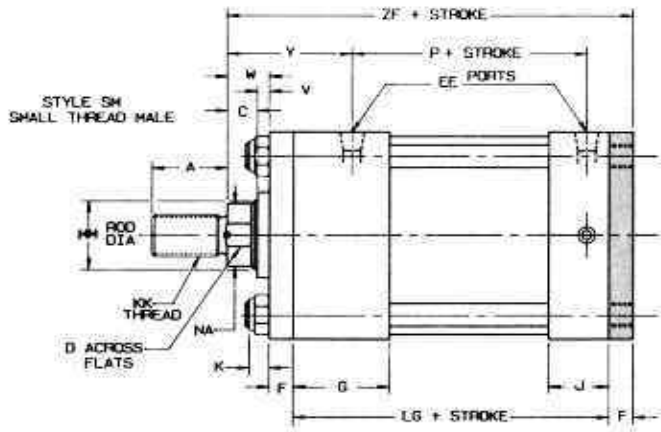
Cap Rectangular Flange (MF2)

(1½" - 6" Bore)



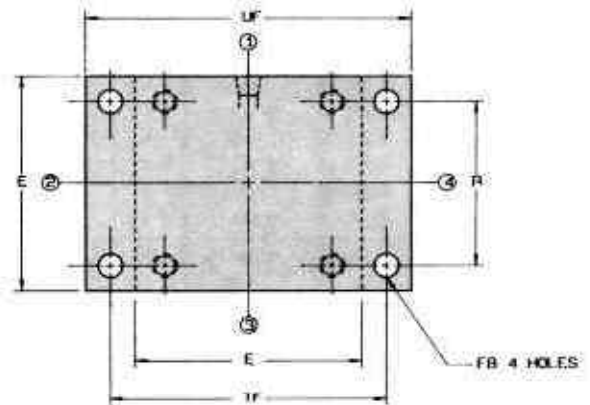
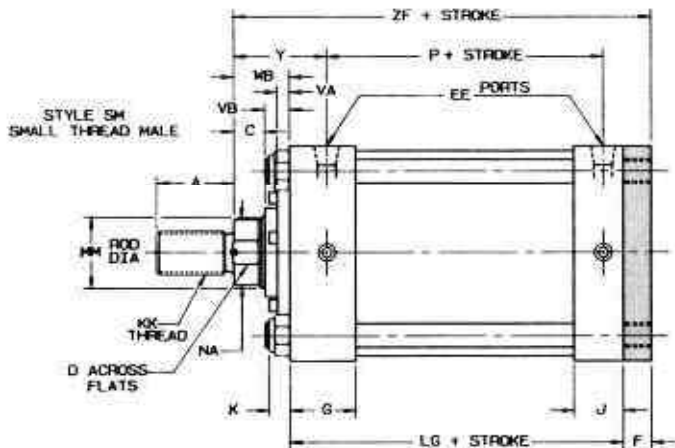
TIE ROD RETAINED CARTRIDGE STYLE

1 1/2", 2", 2 1/2" & 5" BORE
With Maximum Oversize Rods



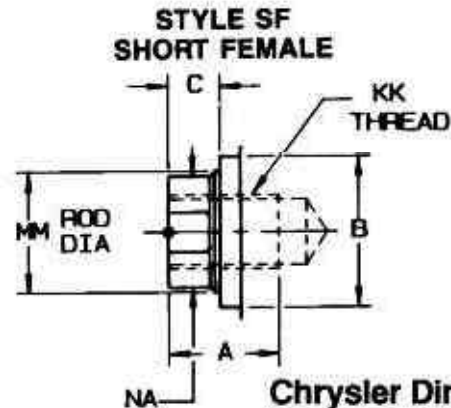
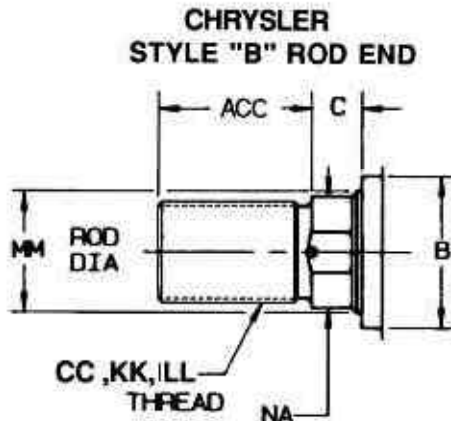
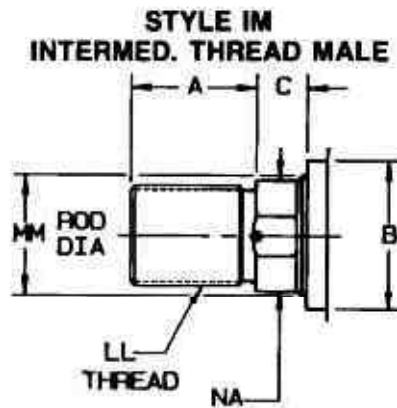
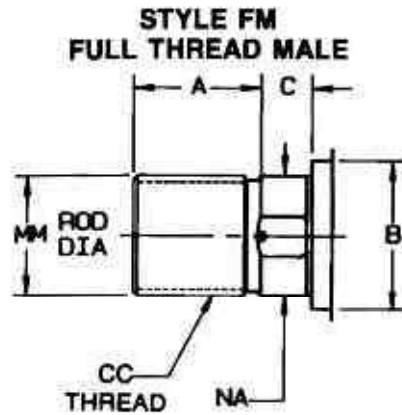
REMOVABLE CARTRIDGE STYLE

1 1/2" - 6" BORE



ENVELOPE AND MOUNTING DIMENSIONS NOT AFFECTED BY ROD SIZE

CYL. BORE	E	EE (NPTF)	F	FB (HOLE)	G	J	K	LG	P	R	TF	UF
1 1/2	2	3/8	3/8	5/16	1 1/2	1	21/64	3 5/8	2 5/16	1.43	2 3/4	3 3/8
2	2 1/2	3/8	3/8	3/8	1 1/2	1	23/64	3 5/8	2 5/16	1.84	3 3/8	4 1/8
2 1/2	3	3/8	3/8	3/8	1 1/2	1	23/64	3 3/4	2 7/16	2.19	3 7/8	4 5/8
3 1/4	3 3/4	1/2	5/8	7/16	1 3/4	1 1/4	15/32	4 1/4	2 11/16	2.76	4 11/16	5 1/2
4	4 1/2	1/2	5/8	7/16	1 3/4	1 1/4	15/32	4 1/4	2 11/16	3.32	5 7/16	6 1/4
5	5 1/2	1/2	5/8	9/16	1 3/4	1 1/4	39/64	4 1/2	2 15/16	4.10	6 5/8	7 5/8
6	6 1/2	3/4	3/4	9/16	2	1 1/2	39/64	5	3 3/16	4.88	7 5/8	8 5/8



**Chrysler Dimensions
Shown Highlighted**

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions affected by Rod Size													
		KK	LL	CC	A	ACC	B $\pm .002$	C	D	NA	V	VA	VB	W	WB	Y	ZF	
1 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	3/8	1/2	.593	-	1/4	5/8	-	1	1 7/8	5	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	1/2	7/8	.968	1/2	-	-	1	-	2 1/4	5 3/8	
2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	3/8	1/2	.593	-	1/4	5/8	-	1	1 7/8	5	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/4	5 3/8	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	2 1/2	5 5/8	
2 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	3/8	1/2	.593	-	1/4	5/8	-	1	1 7/8	5 1/8	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/4	5 1/2	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	2 1/2	5 3/4	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	3/4	-	-	1 1/2	-	2 3/4	6	
3 1/4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 3/8	6 1/4	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 5/8	6 1/2	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	2 7/8	6 3/4	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3	6 7/8	
4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 3/8	6 1/4	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 5/8	6 1/2	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	2 7/8	6 3/4	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3	6 7/8	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 1/4	7 1/8	
5	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 3/8	6 1/2	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 5/8	6 3/4	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	2 7/8	7	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3	7 1/8	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 1/4	7 3/8	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	3 1/4	7 3/8	
6	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/8	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 3/4	7 3/8	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	3	7 5/8	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 1/8	7 3/4	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 3/8	8	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	3 3/8	8	
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	1	3	3.437	-	3/8	1 1/4	-	2 1/4	3 3/8	8	
6	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	1	3 3/8	3.937	-	3/8	1 1/4	-	2 1/4	3 3/8	8	

MMAC-220 / MMHC-225

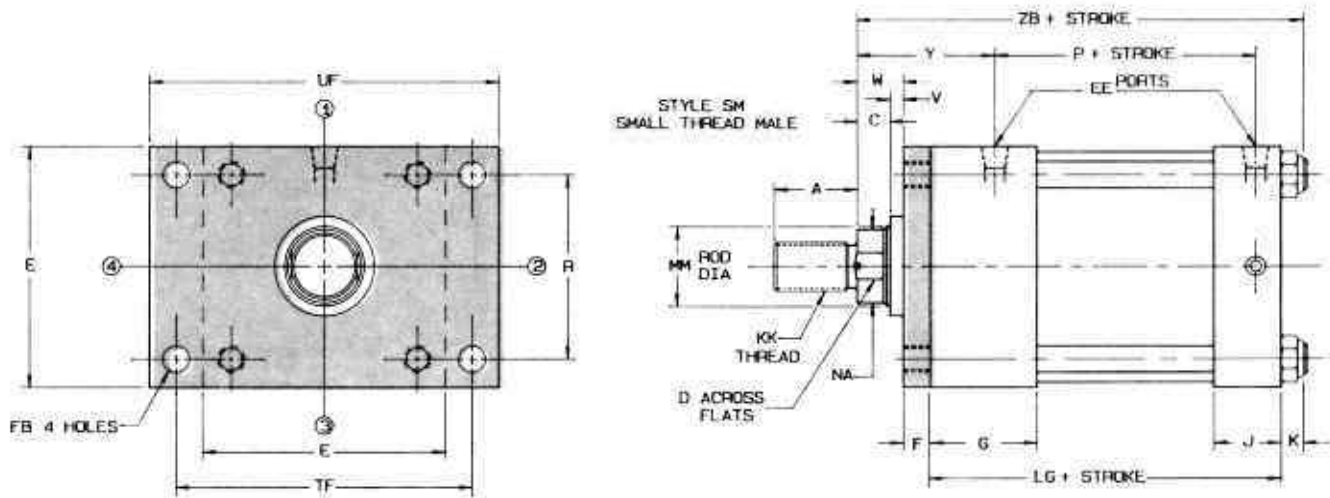
Head Rectangular Flange (MF1)

(1½" - 6" Bore)



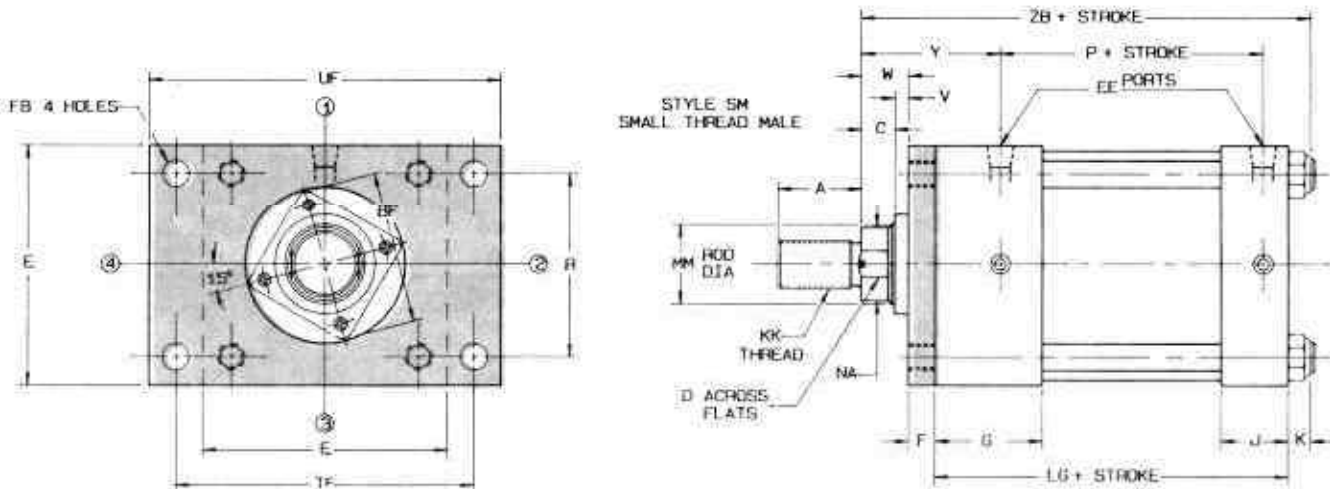
TIE ROD RETAINED CARTRIDGE STYLE

1 1/2" - 6" BORE



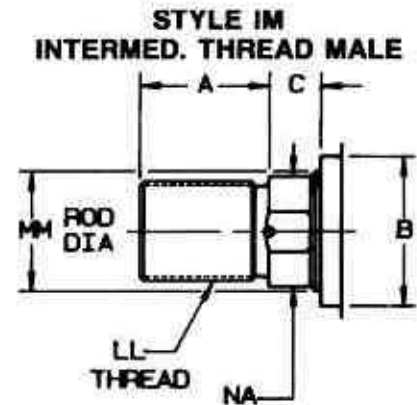
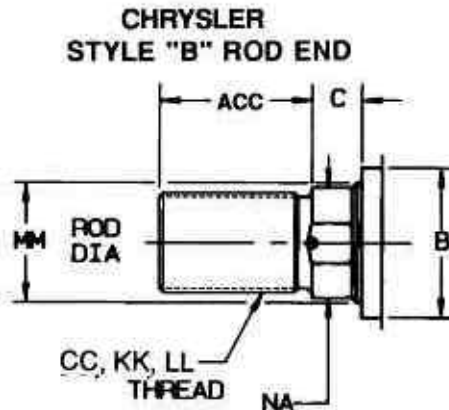
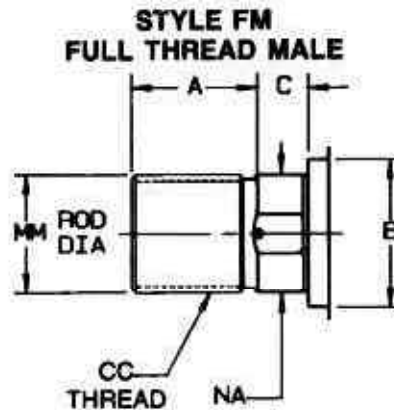
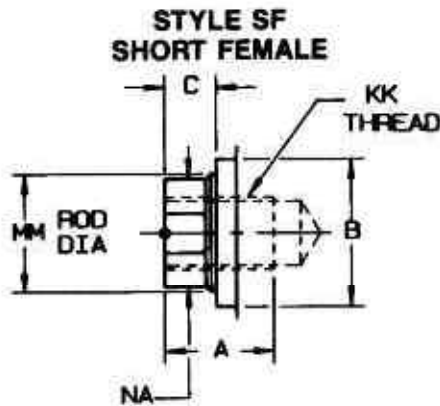
REMOVABLE CARTRIDGE STYLE

2" - 6" BORE



ENVELOPE AND MOUNTING DIMENSIONS NOT AFFECTED BY ROD SIZE

CYL. BORE	E	EE (NPTF)	F	FB (HOLE)	G	J	K	LG	P	R	TF	UF
1 1/2	2	3/8	3/8	5/16	1 1/2	1	21/64	3 5/8	2 5/16	1.43	2 3/4	3 3/8
2	2 1/2	3/8	3/8	3/8	1 1/2	1	23/64	3 5/8	2 5/16	1.84	3 3/8	4 1/8
2 1/2	3	3/8	3/8	3/8	1 1/2	1	23/64	3 3/4	2 7/16	2.19	3 7/8	4 5/8
3 1/4	3 3/4	1/2	5/8	7/16	1 3/4	1 1/4	15/32	4 1/4	2 11/16	2.76	4 11/16	5 1/2
4	4 1/2	1/2	5/8	7/16	1 3/4	1 1/4	15/32	4 1/4	2 11/16	3.32	5 7/16	6 1/4
5	5 1/2	1/2	5/8	9/16	1 3/4	1 1/4	39/64	4 1/2	2 15/16	4.10	6 5/8	7 5/8
6	6 1/2	3/4	3/4	9/16	2	1 1/2	39/64	5	3 3/16	4.88	7 5/8	8 5/8



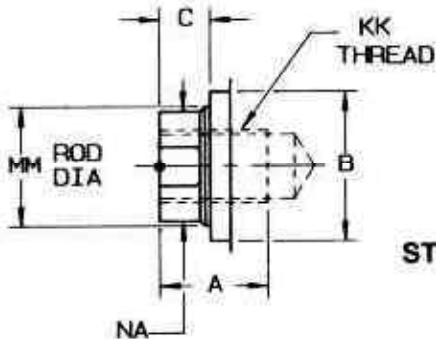
CHRYSLER DIMENSIONS SHOWN HIGH-LIGHTED

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions affected by Rod Size											
		KK	LL	CC	A	ACC	B +.000 -.002	BF	C	D	NA	V	W	Y	ZB	
1 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 1/8	1.124	-	3/8	1/2	.583	1/4	5/8	1 7/8	4 61/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	-	1/2	7/8	.968	1/2	1	2 1/4	5 21/64	
2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	1.968	3/8	1/2	.583	1/4	5/8	1 7/8	4 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	-	1/2	7/8	.968	1/2	1	2 1/4	5 23/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	1 1/4	2 1/2	5 47/64	
2 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.583	1/4	5/8	1 7/8	5 7/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	1/2	1	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	1 1/4	2 1/2	5 47/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	-	3/4	1 1/2	1.703	3/4	1 1/2	2 3/4	5 63/64	
3 1/4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	2.968	1/2	7/8	.968	1/4	3/4	2 3/8	6 3/32	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	3/8	1	2 5/8	6 11/32	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	-	3/4	1 1/2	1.703	1/2	1 1/4	2 7/8	6 19/32	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	-	7/8	1 11/16	1.953	1/2	1 3/8	3	6 23/32	
4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	2.968	1/2	7/8	.968	1/4	3/4	2 3/8	6 3/32	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	3/8	1	2 5/8	6 11/32	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.735	3/4	1 1/2	1.703	1/2	1 1/4	2 7/8	6 19/32	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	1/2	1 3/8	3	6 23/32	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	-	1	2 1/16	2.453	5/8	1 5/8	3 1/4	6 31/32	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	-	1	2 5/8	2.937	5/8	1 5/8	3 1/4	7 23/64	
5	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	2.968	1/2	7/8	.968	1/4	3/4	2 3/8	6 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	3/8	1	2 5/8	6 47/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.735	3/4	1 1/2	1.703	1/2	1 1/4	2 7/8	6 63/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	1/2	1 3/8	3	7 7/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	-	1	2 1/16	2.453	5/8	1 5/8	3 1/4	7 23/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	-	1	2 5/8	2.937	5/8	1 5/8	3 1/4	7 23/64	
6	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	3.625	5/8	1 1/8	1.343	3/8	1	2 5/8	6 47/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.625	3/4	1 1/2	1.703	1/2	1 1/4	2 7/8	6 19/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	4.312	7/8	1 11/16	1.953	3/8	1 1/4	3 1/8	7 39/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	1/2	1 1/2	3 3/8	7 55/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	-	1	2 5/8	2.937	1/2	1 1/2	3 3/8	7 55/64	
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	-	1	3	3.437	1/2	1 1/2	3 3/8	7 55/64	
6	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	-	1	3 3/8	3.937	1/2	1 1/2	3 3/8	7 55/64	

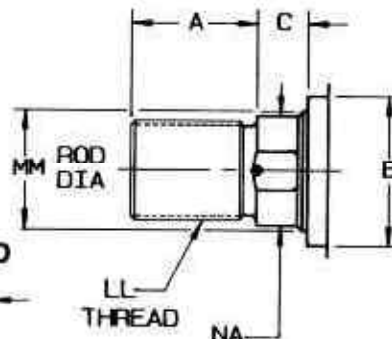
**PENINSULAR
CYLINDER CO.**

CYL. BORE	E	EB (HOLE)	EE(NPTF)	G	J	K	LG	P	TE
8	8 1/2	11/16	3/4	2	1 1/2	49/64	5 1/8	3 5/16	7.57
10	10 5/8	13/16	1	2 1/4	2	57/64	6 3/8	4 3/16	9.40
12	12 3/4	13/16	1	2 1/4	2	57/64	6 7/8	4 11/16	11.10
14	14 3/4	15/16	1 1/4	2 3/4	2 1/4	1	8 1/8	5 5/8	12.87

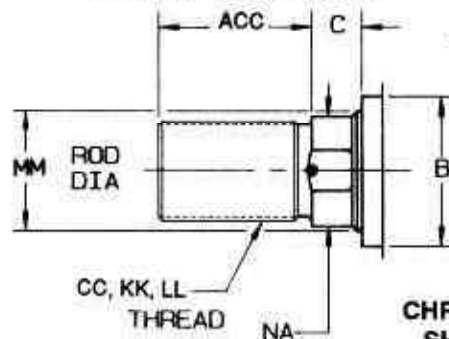
**STYLE SF
SHORT FEMALE**



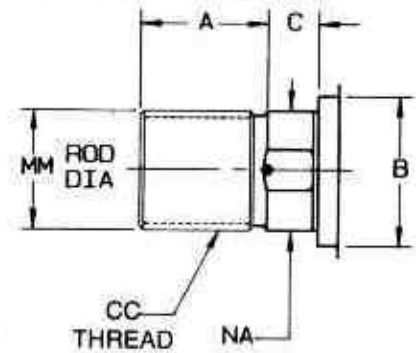
**STYLE IM
INTERMED. THREAD MALE**



**CHRYSLER
STYLE "B" ROD END**



**STYLE FM
FULL THREAD MALE**



**CHRYSLER DIMENSIONS
SHOWN HIGH-LIGHTED**

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions affected by Rod Size													
		KK	LL	CC	A	ACC	B ^{+ .000} _{-.001}	BF	C	D	NA	VA	VB	WB	Y	ZB	ZJ	
8	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	3.825	5/8	1 1/8	1.343	1/4	1	1 5/8	2 3/4	7 33/64	6 3/4	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.625	3/4	1 1/2	1.703	1/4	1 1/8	1 7/8	3	7 49/64	7	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	4.312	7/8	1 11/16	1.953	1/4	1 1/8	2	3 1/8	7 57/64	7 1/8	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	1/4	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.562	1	2 5/8	2.937	3/8	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	5.562	1	3	3.437	3/8	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	6.750	1	3 3/8	3.937	3/8	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
	4 1/2	3 1/4-12	4 1/4-12	4 1/2-12	4 1/2	8 1/4	5.249	6.750	1	3 7/8	4.421	3/8	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
10	5	3 1/2-12	4 3/4-12	5-12	5	9	5.749	7.750	1	4 1/4	4.921	3/8	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
	5 1/2	4-12	5 1/4-12	5 1/2-12	5 1/2	10	6.249	7.750	1	4 5/8	5.421	3/8	1 1/4	2 1/4	3 3/8	8 9/64	7 3/8	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	2	2.374	3.735	3/4	1 1/2	1.703	1/4	1 1/8	1 7/8	3 1/16	9 1/8	8 1/4	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	1/4	1 1/8	2	3 3/16	9 1/4	8 3/8	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	5.000	1	2 1/16	2.453	1/4	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.000	1	2 5/8	2.937	1/4	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	6.062	1	3	3.437	3/8	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	6.062	1	3 3/8	3.937	3/8	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
12	4 1/2	3 1/4-12	4 1/4-12	4 1/2-12	4 1/2	8 1/4	5.249	7.250	1	3 7/8	4.421	3/8	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
	5	3 1/2-12	4 3/4-12	5-12	5	9	5.749	7.250	1	4 1/4	4.921	3/8	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
	5 1/2	4-12	5 1/4-12	5 1/2-12	5 1/2	10	6.249	7.750	1	4 5/8	5.421	3/8	1 1/4	2 1/4	3 7/16	9 1/2	8 5/8	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	2 1/4	2.624	4.312	7/8	1 11/16	1.953	1/4	1 1/8	2	3 3/16	9 3/4	8 7/8	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	1/4	1 1/4	2 1/4	3 7/16	10	9 1/8	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.562	1	2 5/8	2.937	3/8	1 1/4	2 1/4	3 7/16	10	9 1/8	
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	5.562	1	3	3.437	3/8	1 1/4	2 1/4	3 7/16	10	9 1/8	
	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	6.750	1	3 3/8	3.937	3/8	1 1/4	2 1/4	3 7/16	10	9 1/8	
14	4 1/2	3 1/4-12	4 1/4-12	4 1/2-12	4 1/2	8 1/4	5.249	7.250	1	3 7/8	4.421	3/8	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	5	3 1/2-12	4 3/4-12	5-12	5	9	5.749	7.250	1	4 1/4	4.921	3/8	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	5 1/2	4-12	5 1/4-12	5 1/2-12	5 1/2	10	6.249	7.750	1	4 5/8	5.421	3/8	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	3	3.124	5.000	1	2 1/16	2.453	1/4	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.000	1	2 5/8	2.937	1/4	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	6.062	1	3	3.437	3/8	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	6.062	1	3 3/8	3.937	3/8	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	
	4 1/2	3 1/4-12	4 1/4-12	4 1/2-12	4 1/2	8 1/4	5.249	7.250	1	3 7/8	4.421	3/8	1 1/4	2 1/4	3 11/16	11 3/8	10 3/8	

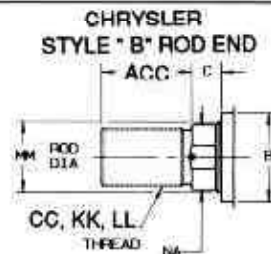
**PENINSULAR
CYLINDER CO.**

PIVOT PIN FURNISHED WITH CYLINDER

Technical drawing of a rectangular plate with four corner holes and a central pivot pin assembly. The drawing includes dimension lines for overall size (E, SQ.), hole spacing (D1, D2, D3), and a callout for the pivot pin assembly (A).

PTVOT PIN
FURNISHED
WITH CYLINDER

CYL. BORE	CB	CD (PIN DIA)	CW	E	EE(NPTF)	F	G	J	K	L	LG	LR	MR	P
1 1/2	3/4	.500	1/2	2	3/8	3/8	1 1/2	1	21/64	3/4	3 5/8	5/8	1/2	2 5/16
2	3/4	.500	1/2	2 1/2	3/8	3/8	1 1/2	1	23/64	3/4	3 5/8	5/8	1/2	2 5/16
2 1/2	3/4	.500	1/2	3	3/8	3/8	1 1/2	1	23/64	3/4	3 3/4	5/8	1/2	2 7/16
3 1/4	1 1/4	.750	5/8	3 3/4	1/2	5/8	1 3/4	1 1/4	15/32	1 1/4	4 1/4	1	3/4	2 11/16
4	1 1/4	.750	5/8	4 1/2	1/2	5/8	1 3/4	1 1/4	15/32	1 1/4	4 1/4	1	3/4	2 11/16
5	1 1/4	.750	5/8	5 1/2	1/2	5/8	1 3/4	1 1/4	39/64	1 1/4	4 1/2	1	3/4	2 15/16
6	1 1/2	1.000	3/4	6 1/2	3/4	-	2	1 1/2	39/64	1 1/2	5	1 1/4	1	3 3/16
8	1 1/2	1.000	3/4	8 1/2	3/4	-	2	1 1/2	49/64	1 1/2	5 1/8	1 1/4	1	3 5/16
10	2	1.375	1	10 5/8	1	-	2 1/4	2	57/64	2 1/8	6 3/8	1 13/16	1 3/8	4 3/16
12	2 1/2	1.750	1 1/4	12 3/4	1	-	2 1/4	2	57/64	2 1/4	6 7/8	1 15/16	1 3/4	4 11/16
14	2 1/2	2.000	1 1/4	14 3/4	1 1/4	-	2 3/4	2 1/4	1	2 1/2	8 1/8	2 3/16	2	5 5/8



CHRYSLER DIMENSIONS SHOWN HIGH-LIGHTED

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions effected by Rod Size												
		KK	LL	CC	A	ACC	B ^{+ .000} - .002	C	D	NA	V	VA	VB	W	WB	Y	XC
1 1/2	5/8 1	7/16-20 3/4-16	1/2-20 7/8-14	5/8-10 1-14	3/4 1 1/8	1 3/8 1 7/8	1.124 1.499	3/8 1/2	1/2 7/8	.580 .968	- 1/2	1/4 -	5/8 -	- 1	1 -	1 7/8 2 1/4	5 0/0 5 3/4
2	5/8 1 1 3/8	7/16-20 3/4-16 1-14	1/2-20 7/8-14 1 1/4-12	5/8-18 1-14 1 3/8-12	3/4 1 1/8 1 5/8	1 3/8 1 7/8 2 1/2	1.124 1.499 1.999	3/8 1/2 5/8	1/2 7/8 1 1/8	.593 .968 1.343	- - 5/8	1/4 1/4 -	5/8 7/8 -	- - 1 1/4	1 1 3/8 -	1 7/8 2 1/4 2 1/2	5 3/8 5 3/4 6
2 1/2	5/8 1 1 3/8 1 3/4	7/16-20 3/4-16 1-14 1 1/4-12	1/2-20 7/8-14 1 1/4-12 1 1/2-12	5/8-18 1-14 1 3/8-12 1 3/4-12	3/4 1 1/8 1 5/8 2	1 3/8 1 7/8 2 1/2 3	1.124 1.499 1.999 2.374	3/8 1/2 5/8 3/4	1/2 7/8 1 1/8 1 1/2	.593 .968 1.343 1.703	- - 5/8 3/4	1/4 1/4 -	5/8 7/8 -	- - 1 1/4 1 1/2	1 1 3/8 -	1 7/8 2 1/4 2 1/2 2 3/4	5 1/2 5 7/8 6 1/8 6 3/8
3 1/4	1 1 3/8 1 3/4 2	3/4-16 1-14 1 1/4-12 1 1/2-12	7/8-14 1 1/4-12 1 1/2-12 1 3/4-12	1-14 1 3/8-12 1 3/4-12 2-12	1 1/8 1 5/8 2 2 1/4	1 5/8 2 1/2 3 3 1/2	1.499 1.999 2.374 2.624	1/2 5/8 3/4 7/8	7/8 1 1/8 1 1/2 1 11/16	.968 1.343 1.703 1.953	- - - -	1/4 1/4 1/4 1/4	7/8 1 1 1/8 1 1/8	- - - -	1 3/8 1 5/8 1 7/8 2	2 3/8 2 5/8 2 7/8 3	6 7/8 7 1/8 7 3/8 7 1/2
4	1 1 3/8 1 3/4 2 2 1/2	3/4-16 1-14 1 1/4-12 1 1/2-12 1 7/8-12	7/8-14 1 1/4-12 1 1/2-12 1 3/4-12 2 1/4-12	1-14 1 3/8-12 1 3/4-12 2-12 2 1/2-12	1 1/8 1 5/8 2 2 1/4 3	1 5/8 2 1/2 3 3 1/2 4 1/2	1.499 1.999 2.374 2.624 3.124	1/2 5/8 3/4 7/8 1	7/8 1 1/8 1 1/2 1 11/16 2 1/8	.968 1.343 1.703 1.953 2.453	- - - - -	1/4 1/4 1/4 1/4 1/4	7/8 1 1 1/8 1 1/8 1 1/4	- - - - -	1 3/8 1 5/8 1 7/8 2 2 1/4	2 3/8 2 5/8 2 7/8 3 3 1/4	6 7/8 7 1/8 7 3/8 7 1/2 7 3/4
5	1 1 3/8 1 3/4 2 2 1/2 3 3 1/2	3/4-16 1-14 1 1/4-12 1 1/2-12 1 7/8-12 2 1/4-12 2 1/2-12	7/8-14 1 1/4-12 1 1/2-12 1 3/4-12 2 1/4-12 2 1/2-12 3 1/4-12	1-14 1 3/8-12 1 3/4-12 2-12 2 1/2-12 3-12 3 1/2-12	1 1/8 1 5/8 2 2 1/4 3 3 1/2 3 1/2	1 5/8 2 1/2 3 3 1/2 4 1/2 5 1/2 6 1/2	1.499 1.999 2.374 2.624 3.124 3.749 4.249	1/2 5/8 3/4 7/8 1 2 5/8 3	7/8 1 1/8 1 1/2 1 11/16 2 1/8 2 5/8 3	.968 1.343 1.703 1.953 2.453 2.937 3.437	- - - - - - 5/8	1/4 1/4 1/4 1/4 1/4 1/4 -	7/8 1 1 1/8 1 1/8 1 1/4 1 1/4 -	- - - - - - 1 5/8	1 3/8 1 5/8 1 7/8 2 2 1/4 2 1/4 3 1/4	2 3/8 2 5/8 2 7/8 3 3 1/4 3 1/4 3 1/4	7 1/8 7 3/8 7 5/8 7 3/4 8 8 8
6	1 3/8 1 3/4 2 2 1/2 3 3 1/2 4	1-14 1 1/4-12 1 1/2-12 1 7/8-12 2 1/4-12 2 1/2-12 3-12	1 1/4-12 1 1/2-12 1 3/4-12 2 1/4-12 2 1/2-12 3 1/4-12 3 3/4-12	1 3/8-12 1 3/4-12 2-12 2 1/2-12 3-12 3 1/2-12 4-12	1 5/8 2 2 1/4 3 3 1/2 3 1/2 4	2 1/8 3 3 1/2 4 1/2 5 1/2 6 1/2 7 1/2	1.999 2.374 2.624 3.124 3.749 4.249 4.749	5/8 3/4 7/8 1 2 5/8 3 3 3/8	1 1/8 1 1/2 1 11/16 2 1/10 2 5/8 3 3 3/8	1.343 1.703 1.953 2.453 2.937 3.437 3.937	- - - - - - -	1/4 1/4 1/4 1/4 3/8 3/8 3/8	1 1 1/8 1 1/8 1 1/4 1 1/4 1 1/4 1 1/4	- - - - - - -	1 5/8 1 7/8 2 2 1/4 2 1/4 2 1/4 2 1/4	2 3/4 3 3 1/8 3 3/8 3 3/8 3 3/8 3 3/8	8 1/8 8 3/8 8 1/2 8 3/4 8 3/4 8 3/4 8 3/4
8	1 3/8 1 3/4 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2	1-14 1 1/4-12 1 1/2-12 1 7/8-12 2 1/4-12 2 1/2-12 3-12 3 1/4-12 3 1/2-12 4-12	1 1/4-12 1 1/2-12 1 3/4-12 2 1/4-12 2 1/2-12 3 1/4-12 3 3/4-12 4 1/4-12 4 1/2-12 5 1/4-12	1 3/8-12 1 3/4-12 2-12 2 1/2-12 3-12 3 1/2-12 4-12 4 1/2-12 5-12 5 1/2-12	1 5/8 2 2 1/4 3 3 1/2 3 1/2 4 4 1/2 5 5 1/2	2 1/2 3 3 1/2 4 1/2 5 1/2 6 1/2 7 1/2 8 1/4 9 10	1.999 2.374 2.624 3.124 3.749 4.249 4.749 5.249 5.749 6.249	5/8 3/4 7/8 1 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	1 1/8 1 1/2 1 11/16 2 1/10 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	1.343 1.703 1.953 2.453 2.937 3.437 3.937 4.421 4.921 5.421	- - - - - - - - - -	1/4 1/4 1/4 1/4 3/8 3/8 3/8 3/8 3/8 3/8	1 1 1/8 1 1/8 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	- - - - - - - - - -	1 5/8 1 7/8 2 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4	2 3/4 3 3 1/8 3 3/8 3 3/8 3 3/8 3 3/8 3 3/8 3 3/8 3 3/8	8 1/4 8 1/2 8 5/8 8 7/8 8 7/8 8 7/8 8 7/8 8 7/8 8 7/8 8 7/8
10	1 3/4 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2	1 1/4-12 1 1/2-12 1 7/8-12 2 1/4-12 2 1/2-12 3-12 3 1/4-12 3 1/2-12 4-12	1 1/2-12 1 3/4-12 2 1/4-12 2 1/2-12 3 1/4-12 3 3/4-12 4 1/4-12 4 1/2-12 5 1/4-12	1 3/4-12 2-12 2 1/2-12 3-12 3 1/2-12 4-12 4 1/2-12 5-12 5 1/2-12	2 2 1/4 3 3 1/2 3 1/2 4 4 1/2 5 5 1/2	2 3 1/2 4 1/2 5 1/2 6 1/2 7 1/2 8 1/4 9 10	2.374 2.624 3.124 3.749 4.249 4.749 5.249 5.749 6.249	3/4 7/8 1 2 1/16 3 3 3/8 3 7/8 4 1/4 4 5/8	1 1/2 1 11/16 2 1/16 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	1.703 1.953 2.453 2.937 3.437 3.937 4.421 4.921 5.421	- - - - - - - - -	1/4 1/4 1/4 1/4 3/8 3/8 3/8 3/8 3/8	1 1/8 1 1/8 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	- - - - - - - - -	1 7/8 2 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4	3 1/16 3 3/16 3 7/16 3 7/16 3 7/16 3 7/16 3 7/16 3 7/16 3 7/16	10 3/8 10 1/2 10 3/4 10 3/4 10 3/4 10 3/4 10 3/4 10 3/4 10 3/4
12	2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2	1 1/2-12 1 7/8-12 2 1/4-12 2 1/2-12 3-12 3 1/4-12 3 1/2-12 4-12	1 3/4-12 2 1/4-12 2 3/4-12 3 1/4-12 3 3/4-12 4 1/4-12 4 1/2-12 5 1/4-12	2-12 2 1/2-12 3-12 3 1/2-12 4-12 4 1/2-12 5-12 5 1/2-12	2 1/4 3 3 1/2 3 1/2 4 4 1/2 5 5 1/2	2 1/4 4 1/2 5 1/2 6 1/2 7 1/2 8 1/4 9 10	2.624 3.124 3.749 4.249 4.749 5.249 5.749 6.249	7/8 1 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	1 11/16 2 1/16 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	1.953 2.453 2.937 3.437 3.937 4.421 4.921 5.421	- - - - - - - -	1/4 1/4 3/8 3/8 3/8 3/8 3/8 3/8	1 1/8 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	- - - - - - - -	2 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4	3 3/16 3 7/16 3 7/16 3 7/16 3 7/16 3 7/16 3 7/16 3 7/16	11 1/8 11 3/8 11 3/8 11 3/8 11 3/8 11 3/8 11 3/8 11 3/8
14	2 1/2 3 3 1/2 4 4 1/2 5 5 1/2	1 7/8-12 2 1/4-12 2 1/2-12 3-12 3 1/4-12 3 1/2-12 4-12	2 1/4-12 2 3/4-12 3 1/4-12 3 3/4-12 4 1/4-12 4 1/2-12 5 1/4-12	2 1/2-12 3-12 3 1/2-12 4-12 4 1/2-12 5-12 5 1/2-12	3 3 1/2 3 1/2 4 4 1/2 5 5 1/2	3 5 1/2 6 1/2 7 1/2 8 1/4 9 10	3.124 3.749 4.249 4.749 5.249 5.749 6.249	1 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	2 1/16 2 5/8 3 3 3/8 3 7/8 4 1/4 4 5/8	2.453 2.937 3.437 3.937 4.421 4.921 5.421	- - - - - - -	1/4 1/4 3/8 3/8 3/8 3/8 3/8	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	- - - - - - -	2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4 2 1/4	3 11/16 3 11/16 3 11/16 3 11/16 3 11/16 3 11/16 3 11/16	12 7/8 12 7/8 12 7/8 12 7/8 12 7/8 12 7/8 12 7/8

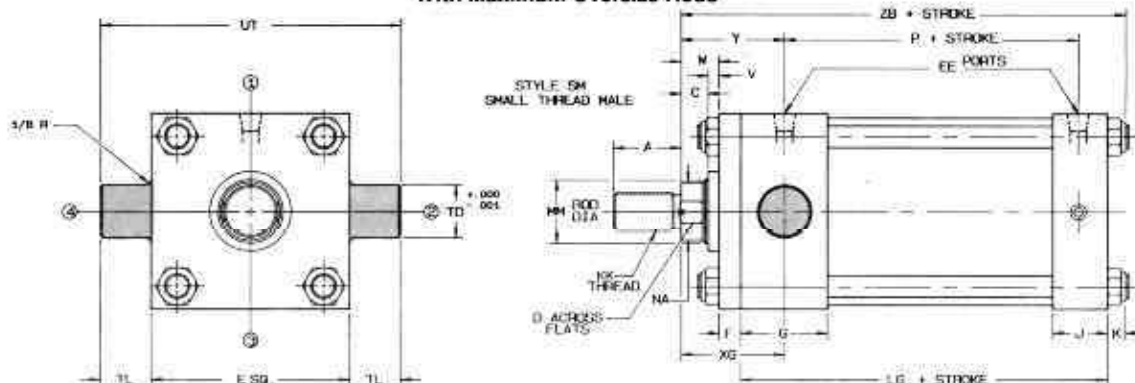
MMAC-240 / MMHC-245

Head Trunnion (MT1)



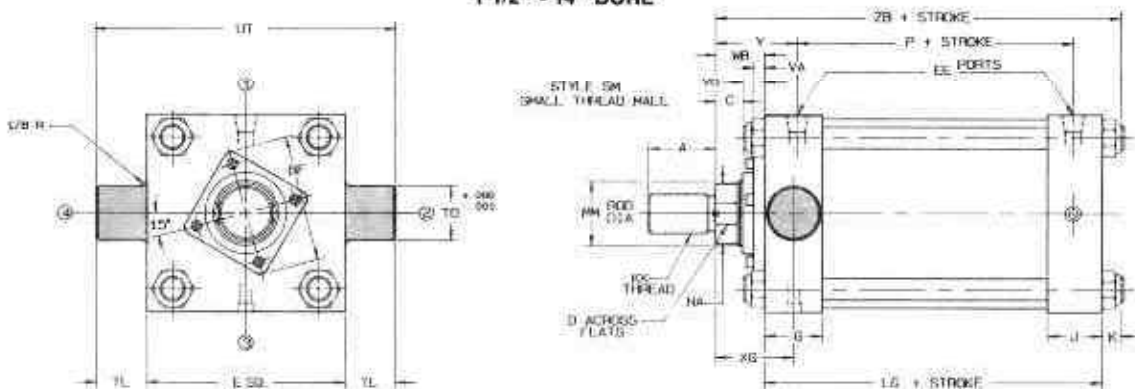
TIE ROD RETAINED CARTRIDGE STYLE

1 1/2", 2", 2 1/2" & 5" BORE
With Maximum Oversize Rods



REMOVABLE CARTRIDGE STYLE

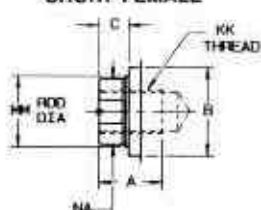
1 1/2" - 14" BORE



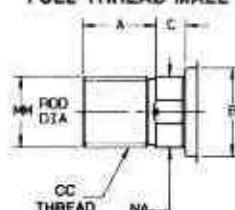
ENVELOPE AND MOUNTING DIMENSIONS NOT AFFECTED BY ROD SIZE

CYL. BORE	E	EE (NPTF)	F	G	J	K	LG	P	TD	TL	UT
1 1/2	2	3/8	3/8	1 1/2	1	21/64	3 5/8	2 5/16	1.000	1	4
2	2 1/2	3/8	3/8	1 1/2	1	23/64	3 5/8	2 5/16	1.000	1	4 1/2
2 1/2	3	3/8	3/8	1 1/2	1	23/64	3 3/4	2 7/16	1.000	1	5
3 1/4	3 3/4	1/2	5/8	1 3/4	1 1/4	15/32	4 1/4	2 11/16	1.000	1	5 3/4
4	4 1/2	1/2	5/8	1 3/4	1 1/4	15/32	4 1/4	2 11/16	1.000	1	6 1/2
5	5 1/2	1/2	5/8	1 3/4	1 1/4	39/64	4 1/2	2 15/16	1.000	1	7 1/2
6	6 1/2	3/4	-	2	1 1/2	39/64	5	3 3/16	1.375	1 3/8	9 1/4
8	8 1/2	3/4	-	2	1 1/2	49/64	5 1/8	3 5/16	1.375	1 3/8	11 1/4
10	10 5/8	1	-	2 1/4	2	57/64	6 3/8	4 3/16	1.750	1 3/4	14 1/8
12	12 3/4	1	-	2 1/4	2	57/64	6 7/8	4 11/16	1.750	1 3/4	16 1/4
14	14 3/4	1 1/4	-	2 3/4	2 1/4	1	8 1/8	5 5/8	2.000	2	18 3/4

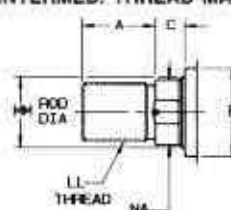
STYLE SF SHORT FEMALE



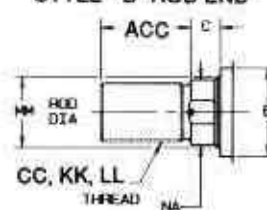
STYLE FM FULL THREAD MALE



STYLE IM INTERMED. THREAD MALE



CHRYSLER STYLE "B" ROD END



CHRYSLER DIMENSIONS SHOWN HIGH-LIGHTED

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions affected by Rod Size															
		KK	LL	CC	A	ACC	B + .000 - .002	BF	C	D	NA	V	VA	VB	W	WB	XG	Y	ZB	
1 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	1.968	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	4 61/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	-	1/2	7/8	.968	1/2	-	-	1	-	2 1/8	2 1/4	5 21/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	2 3/8	2 1/2	5 39/64	
2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	1.968	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	4 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 23/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	2 3/8	2 1/2	5 39/64	
2 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 7/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	2 3/8	2 1/2	5 47/64	
3 1/4	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	2 3/8	2 1/2	5 47/64	
4	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
5	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
6	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
7	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
8	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
9	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
10	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
11	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
12	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
13	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	
14	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 3/4	1 7/8	5 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 1/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 1/2	2 5/8	6 11/32	

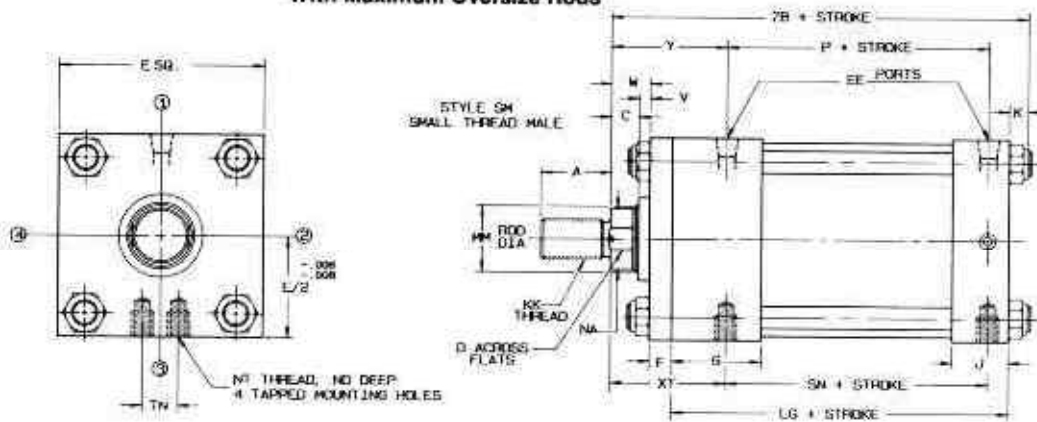
MMAC-250 / MMHC-255

Side Tapped (MS4)



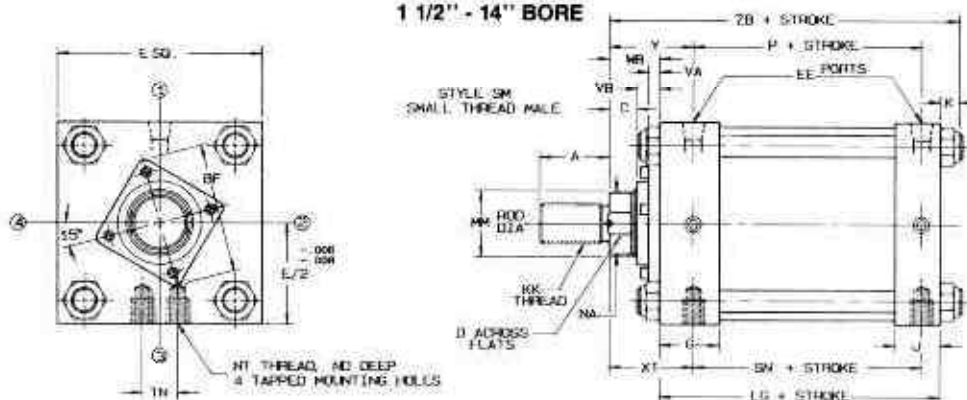
TIE ROD RETAINED CARTRIDGE STYLE

1 1/2", 2", 2 1/2" & 5" BORE
With Maximum Oversize Rods



REMOVABLE CARTRIDGE STYLE

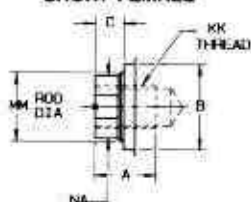
1 1/2" - 14" BORE



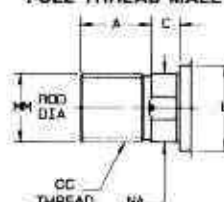
ENVELOPE AND MOUNTING DIMENSIONS NOT AFFECTED BY ROD SIZE

CYL. BORE	E	EE (NPTF)	F	G	J	K	LG	NT	P	SN	TN
1 1/2	2	3/8	3/8	1 1/2	1	21/64	3 5/8	1/4-20	2 5/16	2 1/4	5/8
2	2 1/2	3/8	3/8	1 1/2	1	23/64	3 5/8	5/16-18	2 5/16	2 1/4	7/8
2 1/2	3	3/8	3/8	1 1/2	1	23/64	3 3/4	3/8-16	2 7/16	2 3/8	1 1/4
3 1/4	3 3/4	1/2	5/8	1 3/4	1 1/4	15/32	4 1/4	1/2-13	2 11/16	2 5/8	1 1/2
4	4 1/2	1/2	5/8	1 3/4	1 1/4	15/32	4 1/4	1/2-13	2 11/16	2 5/8	2 1/16
5	5 1/2	1/2	5/8	1 3/4	1 1/4	39/64	4 1/2	5/8-11	2 15/16	2 7/8	2 11/16
6	6 1/2	3/4	-	2	1 1/2	39/64	5	3/4-10	3 3/16	3 1/8	3 1/4
8	8 1/2	3/4	-	2	1 1/2	49/64	5 1/8	3/4-10	3 5/16	3 1/4	4 1/2
10	10 5/8	1	-	2 1/4	2	57/64	6 3/8	1-8	4 3/16	4 1/8	5 1/2
12	12 3/4	1	-	2 1/4	2	57/64	6 7/8	1-8	4 11/16	4 5/8	7 1/4
14	14 3/4	1 1/4	-	2 3/4	2 1/4	1	8 1/8	1 1/4-7	5 5/8	5 1/2	8 3/8

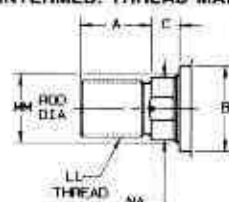
STYLE SF SHORT FEMALE



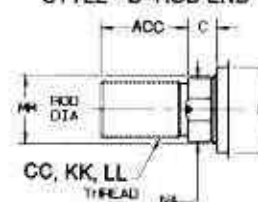
STYLE FM FULL THREAD MALE



STYLE IM INTERMED. THREAD MALE



CHRYSLER STYLE "B" ROD END



CHRYSLER DIMENSIONS SHOWN HIGH-LIGHTED

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions effected by Rod Size															
		KK	LL	CC	A	ACC	B ^{+0.000} _{-0.002}	BF	C	D	NA	V	VA	VB	W	WB	XT	Y	ZB	ND
1 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	1.968	3/8	1/2	.593	-	1/4	5/8	-	1	1 15/16	1 7/8	4 61/64	3/8
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	-	1/2	7/8	.968	1/2	-	-	1	-	2 5/16	2 1/4	5 21/64	1/4
2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	1.968	3/8	1/2	.593	-	1/4	5/8	-	1	1 15/16	1 7/8	4 63/64	3/8
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 5/16	2 1/4	5 23/64	3/8
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2 9/16	2 1/2	5 39/64	5/16	
2 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	2.468	3/8	1/2	.593	-	1/4	5/8	-	1	1 15/16	1 7/8	5 7/64	1/2
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	2.468	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 5/16	2 1/4	5 31/64	1/2
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	-	5/8	1 1/8	1.343	5/8	-	1 1/4	-	2 9/16	2 1/2	5 47/64	1/2	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	-	3/4	1 1/2	1.703	3/4	-	1 1/2	-	2 13/16	2 3/4	5 63/64	3/8	
3 1/4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	2.968	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 7/16	2 3/8	6 3/32	3/4
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 11/16	2 5/8	6 11/32	3/4
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.735	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	2 15/16	2 7/8	6 19/32	3/4
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 1/16	3	6 23/32	1/2
4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	2.968	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 7/16	2 3/8	6 3/32	3/4
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 11/16	2 5/8	6 11/32	3/4
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.735	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	2 15/16	2 7/8	6 19/32	3/4
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 1/16	3	6 23/32	3/4
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 5/16	3 1/4	6 31/32	5/8
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.000	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	3 5/16	3 1/4	7 23/64	15/16
5	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	2.968	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	2 7/16	2 3/8	6 31/64	15/16
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	2.968	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 11/16	2 5/8	6 47/64	15/16
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.735	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	2 15/16	2 7/8	6 63/64	15/16
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 1/16	3	7 7/64	15/16
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	5.000	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 5/16	3 1/4	7 23/64	15/16
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.000	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	3 5/16	3 1/4	7 23/64	15/16
6	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	3.625	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 13/16	2 3/4	7 15/64	1 1/8
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.625	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	3 1/16	3	7 31/64	1 1/8
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	4.312	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 3/16	3 1/8	7 39/64	1 1/8
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 7/16	3 3/8	7 55/64	1 1/8
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.562	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	7 55/64	1 1/8
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	5.562	1	3	3.437	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	7 55/64	1 1/8
8	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	3.625	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	2 13/16	2 3/4	7 93/64	1 1/8
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.625	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	3 1/16	3	7 49/64	1 1/8
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	4.312	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 3/16	3 1/8	7 57/64	1 1/8
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 7/16	3 3/8	8 9/64	1 1/8
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.562	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	8 9/64	1 1/8
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	5.562	1	3	3.437	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	8 9/64	1 1/8
	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	6.750	1	3 3/8	3.937	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	8 9/64	1 1/8
	4 1/2	3 1/4-12	4 1/4-12	4 1/2-12	4 1/2	8 1/4	5.249	6.750	1	3 7/8	4.421	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	8 9/64	1 1/8
	5	3 1/2-12	4 3/4-12	5-12	5	9	5.749	7.750	1	4 1/4	4.921	-	3/8	1 1/4	-	2 1/4	3 7/16	3 3/8	8 9/64	1 1/8
10	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3.735	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	3 1/16	3 1/8	9 1/8	1 1/2
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	3.735	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 1/4	3 3/16	9 1/4	1 1/2
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	5.000	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.000	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	6.062	1	3	3.437	-	3/8	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
	4	3-12	3 3/4-12	4-12	4	7 1/2	4.749	6.062	1	3 3/8	3.937	-	3/8	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
	4 1/2	3 1/4-12	4 1/4-12	4 1/2-12	4 1/2	8 1/4	5.249	7.250	1	3 7/8	4.421	-	3/8	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
	5	3 1/2-12	4 3/4-12	5-12	5	9	5.749	7.250	1	4 1/4	4.921	-	3/8	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
	5 1/2	4-12	5 1/4-12	5 1/2-12	5 1/2	10	6.249	7.750	1	4 5/8	5.421	-	3/8	1 1/4	-	2 1/4	3 1/2	3 7/16	9 1/2	1 1/2
12	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	4.312	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	3 1/4	3 3/16	10 3/4	1 1/2
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3	4 1/2	3.124	4.312	1	2 1/16	2.453	-	1/4	1 1/4	-	2 1/4	3 1/2	3 7/16	10	1 1/2
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	5.562	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	3 1/2	3 7/16	10	1 1/2
	3 1/2	2 1/2-12	3 1/4-12	3 1/2-12	3 1/2	6 1/2	4.249	5.562	1	3	3.437	-	3/8	1 1/4	-	2 1/4	3 1/2			

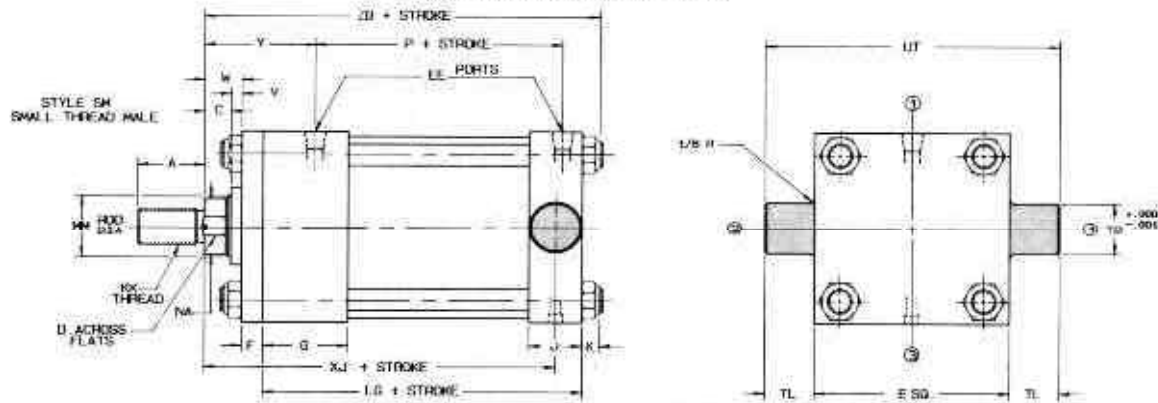
MMAC-260 / MMHC-265

Cap Trunnion (MT2)



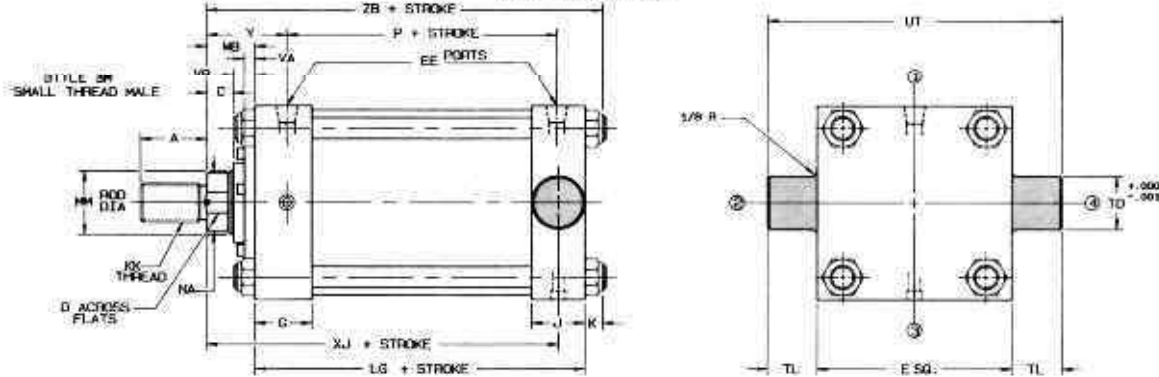
TIE ROD RETAINED CARTRIDGE STYLE

1 1/2", 2", 2 1/2" & 5" BORE
With Maximum Oversize Rods



REMOVABLE CARTRIDGE STYLE

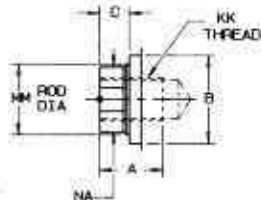
1 1/2" - 14" BORE



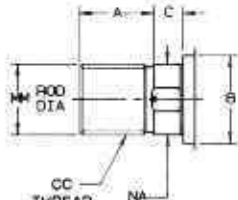
ENVELOPE AND MOUNTING DIMENSIONS NOT AFFECTED BY ROD SIZE

CYL. BORE	E	EE(NPTF)	F	G	J	K	LG	P	TD	TL	UT
1 1/2	2	3/8	3/8	1 1/2	1	21/64	3 5/8	2 5/16	1.000	1	4
2	2 1/2	3/8	3/8	1 1/2	1	23/64	3 5/8	2 5/16	1.000	1	4 1/2
2 1/2	3	3/8	3/8	1 1/2	1	23/64	3 3/4	2 7/16	1.000	1	5
3 1/4	3 3/4	1/2	5/8	1 3/4	1 1/4	15/32	4 1/4	2 11/16	1.000	1	5 3/4
4	4 1/2	1/2	5/8	1 3/4	1 1/4	15/32	4 1/4	2 11/16	1.000	1	6 1/2
5	5 1/2	1/2	5/8	1 3/4	1 1/4	39/64	4 1/2	2 15/16	1.000	1	7 1/2
6	6 1/2	3/4	-	2	1 1/2	39/64	5	3 3/16	1.375	1 3/8	9 1/4
8	8 1/2	3/4	-	2	1 1/2	49/64	5 1/8	3 5/16	1.375	1 3/8	11 1/4
10	10 5/8	1	-	2 1/4	2	57/64	6 3/8	4 3/16	1.750	1 3/4	14 1/8
12	12 3/4	1	-	2 1/4	2	57/64	6 7/8	4 11/16	1.750	1 3/4	16 1/4
14	14 3/4	1 1/4	-	2 3/4	2 1/4	1	8 1/8	5 5/8	2.000	2	18 3/4

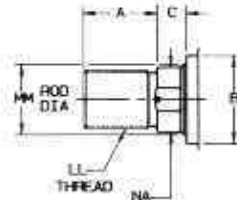
STYLE SF SHORT FEMALE



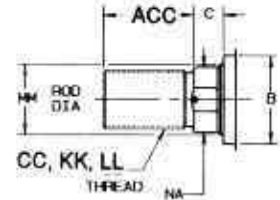
STYLE FM FULL THREAD MALE



STYLE IM INTERMED. THREAD MALE



CHRYSLER STYLE "B" ROD END



CHRYSLER DIMENSIONS SHOWN HIGH-LIGHTED

Cyl. Bore	Rod Dia. (mm)	Thread			Rod End Dimensions and Mounting Dimensions affected by Rod Size														
		KK	LL	CC	A	ACC	B ^{+.000} _{-.002}	C	D	NA	V	VA	VB	W	WB	XJ	Y	ZB	
1 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	3/8	1/2	.593	-	1/4	5/8	-	1	4 1/8	1 7/8	4 61/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	1/2	7/8	.968	1/2	-	-	1	-	4 1/2	2 1/4	5 21/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	4 3/4	2 1/2	5 39/64	
2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	3/8	1/2	.593	-	1/4	5/8	-	1	4 1/8	1 7/8	4 63/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	4 1/2	2 1/4	5 23/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	4 3/4	2 1/2	5 39/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	3/4	-	-	1 1/2	-	5 1/8	2 3/4	5 63/64	
2 1/2	5/8	7/16-20	1/2-20	5/8-18	3/4	1 3/8	1.124	3/8	1/2	.593	-	1/4	5/8	-	1	4 1/4	1 7/8	5 7/64	
	1	3/4-16	7/8-14	1-14	1 1/8	1 7/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	4 5/8	2 1/4	5 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	5/8	-	-	1 1/4	-	4 7/8	2 1/2	5 47/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	3/4	-	-	1 1/2	-	5 1/8	2 3/4	5 63/64	
3 1/4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	5	2 3/8	6 3/32	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 1/4	2 5/8	6 11/32	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	5 1/2	2 7/8	6 19/32	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	5 5/8	3	6 23/32	
4	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	5	2 3/8	6 3/32	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 1/4	2 5/8	6 11/32	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	5 1/2	2 7/8	6 19/32	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	5 5/8	3	6 23/32	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 1/8	3 1/4	7 23/64	
5	1	3/4-16	7/8-14	1-14	1 1/8	1 5/8	1.499	1/2	7/8	.968	-	1/4	7/8	-	1 3/8	5 1/4	2 3/8	6 31/64	
	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 1/2	2 5/8	6 47/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	5 3/4	2 7/8	6 63/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	5 7/8	3	7 7/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 1/8	3 1/4	7 23/64	
6	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 7/8	2 3/4	7 15/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	6 1/8	3	7 31/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	6 3/8	3 1/8	7 57/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
8	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 7/8	2 3/4	7 15/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	6 1/4	3	7 49/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	6 3/8	3 1/8	7 57/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
10	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 7/8	2 3/4	7 15/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	6 1/4	3	7 49/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	6 3/8	3 1/8	7 57/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
12	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 7/8	2 3/4	7 15/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	6 1/4	3	7 49/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	6 3/8	3 1/8	7 57/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
14	1 3/8	1-14	1 1/4-12	1 3/8-12	1 5/8	2 1/2	1.999	5/8	1 1/8	1.343	-	1/4	1	-	1 5/8	5 7/8	2 3/4	7 15/64	
	1 3/4	1 1/4-12	1 1/2-12	1 3/4-12	2	3	2.374	3/4	1 1/2	1.703	-	1/4	1 1/8	-	1 7/8	6 1/4	3	7 49/64	
	2	1 1/2-12	1 3/4-12	2-12	2 1/4	3 1/2	2.624	7/8	1 11/16	1.953	-	1/4	1 1/8	-	2	6 3/8	3 1/8	7 57/64	
	2 1/2	1 7/8-12	2 1/4-12	2 1/2-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	1/4	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	
	3	2 1/4-12	2 3/4-12	3-12	3 1/2	5 1/2	3.749	1	2 5/8	2.937	-	3/8	1 1/4	-	2 1/4	6 5/8	3 3/8	8 9/64	