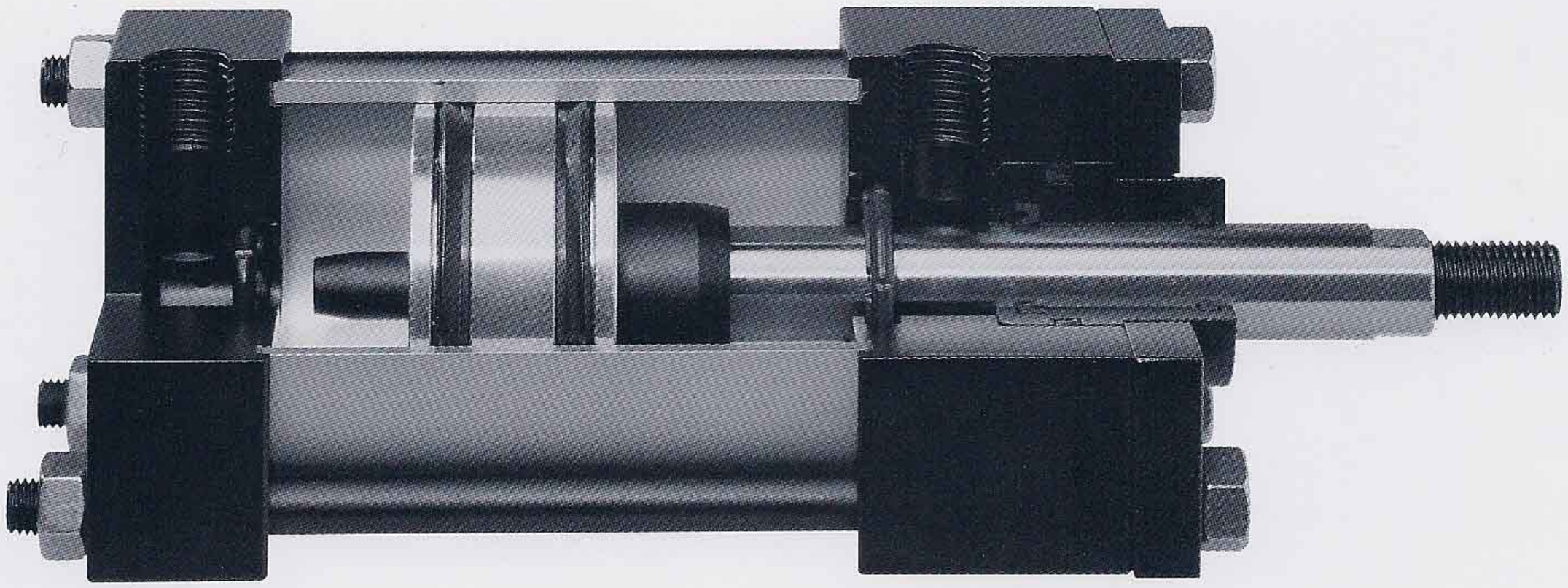
Rockford Air Devices Inc.

R Series Cylinders

NFPA
INTERCHANGEABLE
CYLINDERS

R-SERIES CYLINDERS



CONSTRUCTION FEATURES OF R-SERIES CYLINDERS

1. LIGHT WEIGHT MATERIALS:

A) Aluminum alloy 6061-T6 of 40,000 PSI minimum yield is used for heads and caps that are anodized for corrosion resistance.

B) Aluminum alloy tube 6063-T832 of 35,000 PSI that is hard coated on I.D. for file hard resistance to scoring and wear, yet light weight.

C) Aluminum alloy piston for light weight and excellent friction characteristics against hard coated tube I.D.

D) Cast iron rod bushing that has extra long bearing surface which is easily replaceable and compatible with hard chrome plated piston rod.

2. PISTON ROD:

Hard chrome plated ground and polished steel of 100,000 PSI minimum yield.

3. TIE RODS:

Stress proof steel to maintain compression on tube end seals.

4. SEALS:

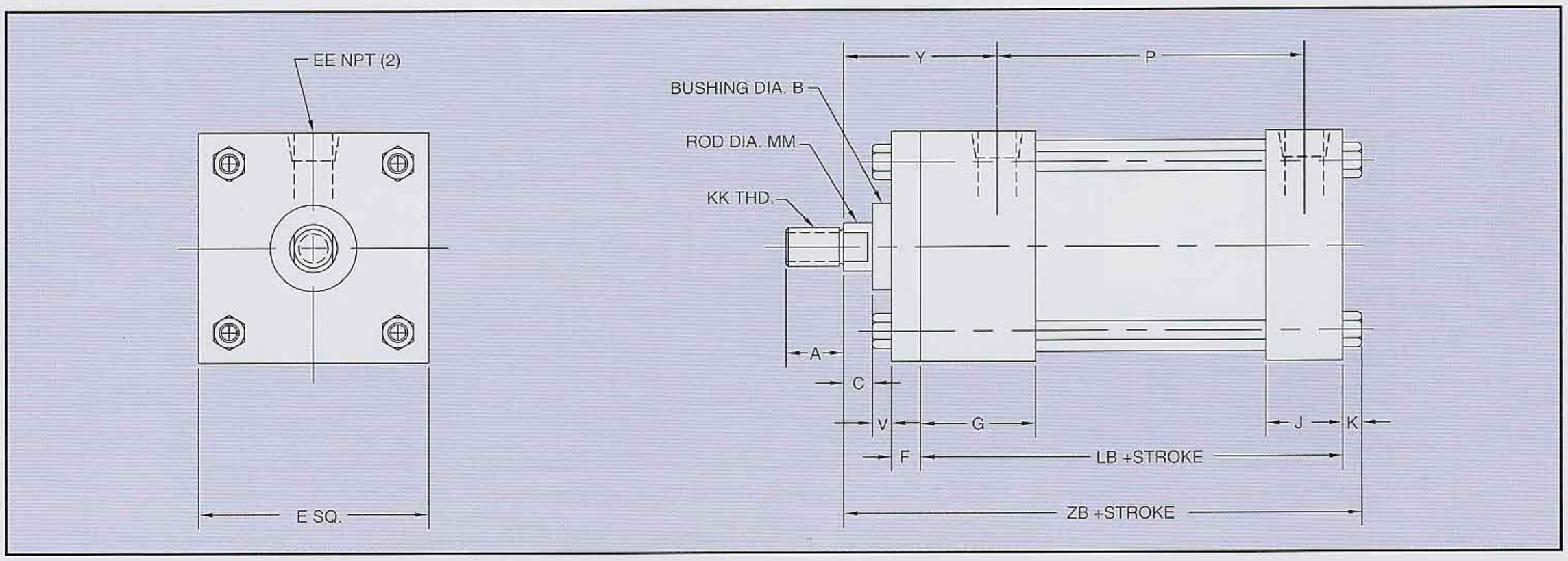
A) Lip type piston seals are buna “N” that are pressure sensitive and wear compensating to give low friction characteristics and long life.

B) Lip type rod seals are buna “N” that are pressure activated and wear compensating to give low friction characteristics and long life.

C) Quad ring rod wiper design to wipe rod dry and exclude foreign material from cylinder.

D) Tube end seals consist of fibers and a nitrile base elastomer as a binder.

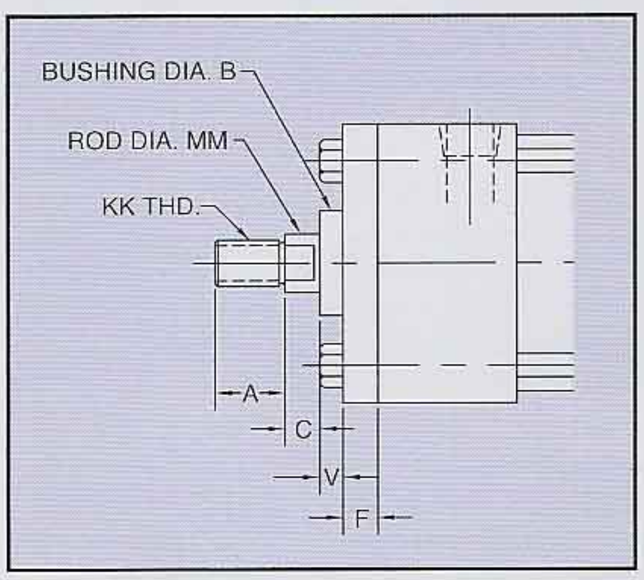
R SERIES CYLINDERS

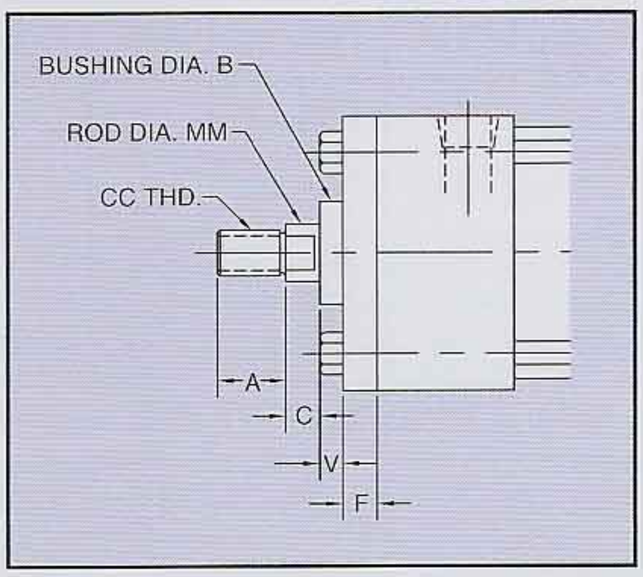


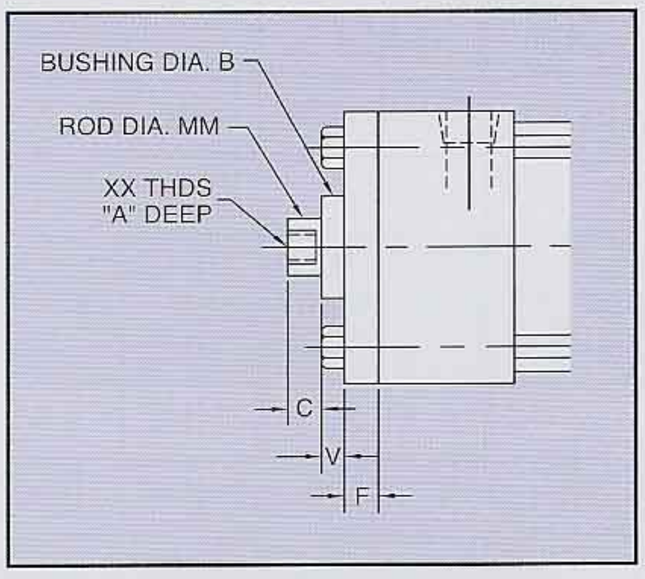
BASIC CYLINDER RMX0

BORE	A	B	C	E	EE	F	G	J	K	KK	LB	MM	P	RM	V	Y	ZB
1-1/2	3/4	1-1/8	3/8	2	1/4	3/8	1-1/2	1	1/4	7/16-20	3-5/8	5/8	2-3/16	—	1/4	1-31/32	4-7/8
2	3/4	1-1/8	3/8	2-1/2	1/4	3/8	1-1/2	1	5/16	7/16-20	3-5/8	5/8	2-3/16	—	1/4	1-31/32	4-15/16
2-1/2	3/4	1-1/8	3/8	3	1/4	3/8	1-1/2	1	5/16	7/16-20	3-3/4	5/8	2-5/16	—	1/4	1-31/32	5-1/16
3-1/4	1-1/8	1-1/2	1/2	3-3/4	3/8	5/8	1-3/4	1-1/4	7/16	3/4-16	4-1/4	1	2-5/8	—	1/4	2-7/16	6-1/16
4	1-1/8	1-1/2	1/2	4-1/2	3/8	5/8	1-3/4	1-1/4	7/16	3/4-16	4-1/4	1	2-5/8	—	1/4	2-7/16	6-1/16
5	1-1/8	1-1/2	1/2	5-1/2	3/8	5/8	1-3/4	1-1/4	1/2	3/4-16	4-1/2	1	2-7/8	2-5/8	1/4	2-7/16	6-5/16
6	1-5/8	2	5/8	6-1/2	1/2	5/8	2	1-1/2	1/2	1"-14	5	1-3/8	3-1/8	3-3/8	3/8	2-13/16	7-1/16
8	1-5/8	2	5/8	8-1/2	1/2	5/8	2	1-1/2	5/8	1"-14	5-1/8	1-3/8	3-1/4	3-3/8	3/8	2-13/16	7-5/16

STANDARD ROD ENDS AVAILABLE ON CYLINDERS



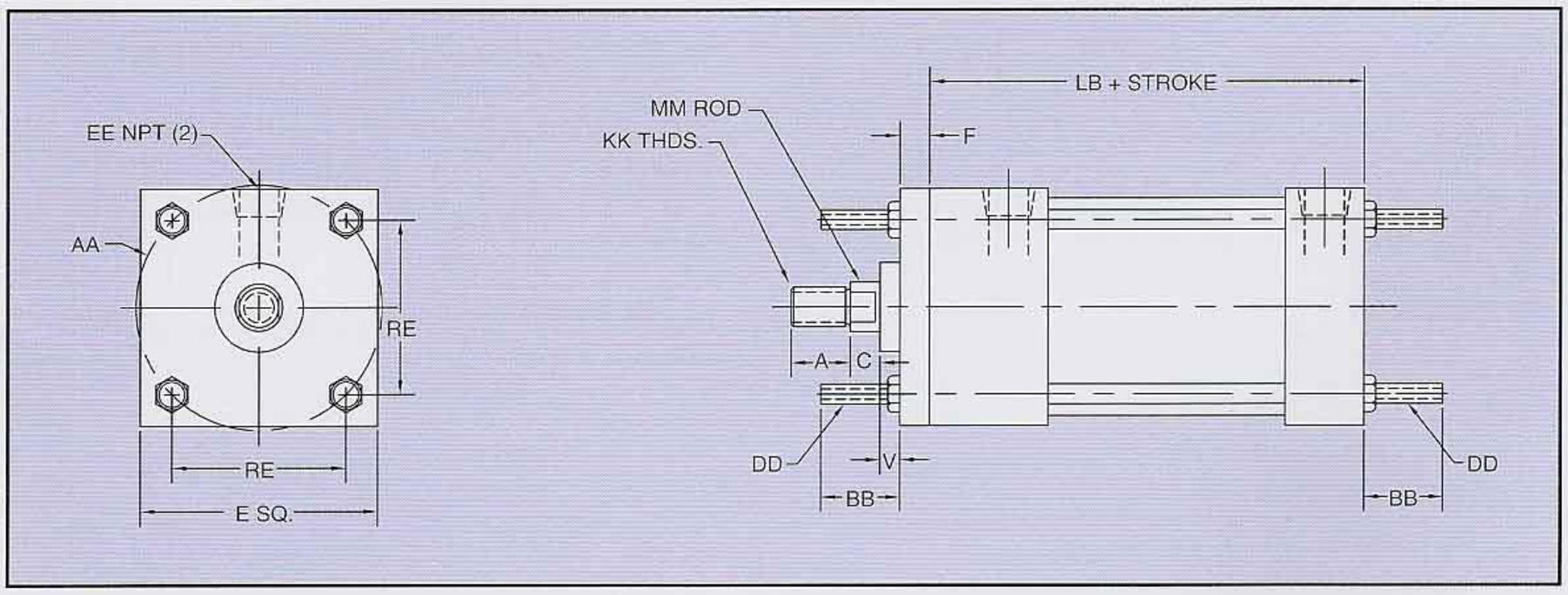




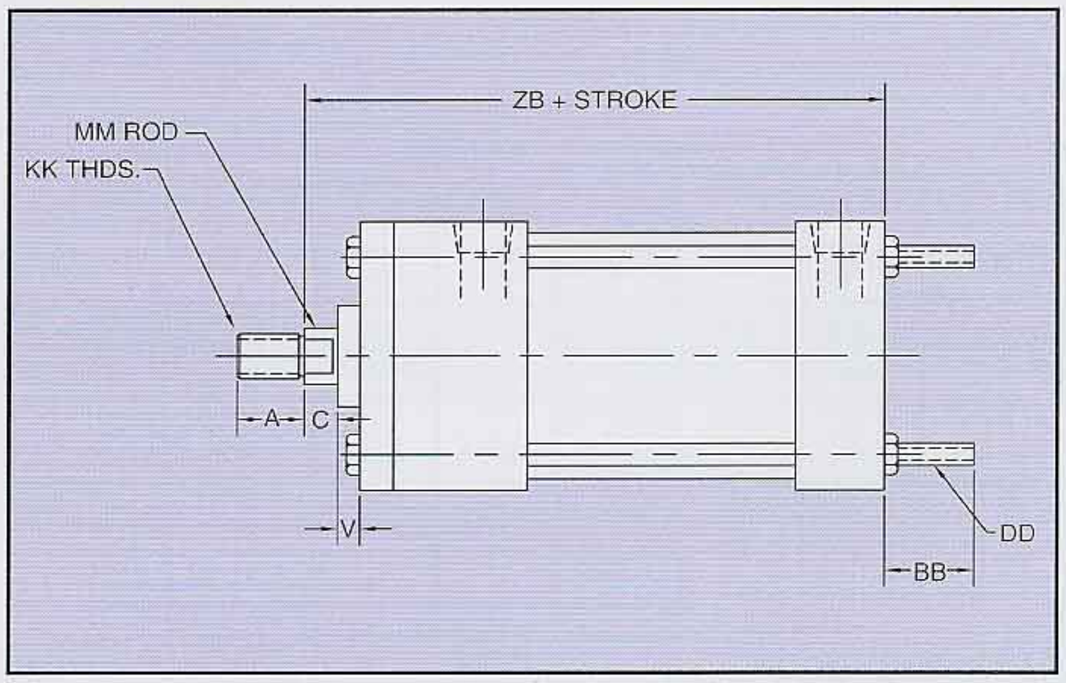
BORE	MM	KK	CC	XX	A	B	D	C	F	V
1-1/2*, 2, 2-1/2	STD 5/8"	7/16 - 20	1/2 - 20	7/16 - 20	3/4	1-1/8	1/2	3/8	3/8	1/4
	OVERSIZE 1"	3/4 - 16	7/8 - 14	3/4 - 16	1-1/8	1-1/2	13/16	1/2	3/8	1/2
3-1/4, 4 & 5	STD 1"	3/4 - 16	7/8 - 14	3/4 - 16	1-1/8	1-1/2	13/16	1/2	5/8	1/4
	OVERSIZE 1-3/8"	1" - 14	1-1/4 - 12	1" - 14	1-5/8	2	1-1/8	5/8	5/8	3/8
6 & 8	STD 1-3/8"	1" - 14	1-1/4 - 12	1" - 14	1-5/8	2	1-1/8	5/8	5/8	3/8
	OVERSIZE 1-3/4"	1-1/4" - 12	1-1/2 - 12	1-1/4" - 12	2	2-3/8	1-1/2	3/4	3/4	3/8

* 1" rod is not available in 1-1/2" bore.

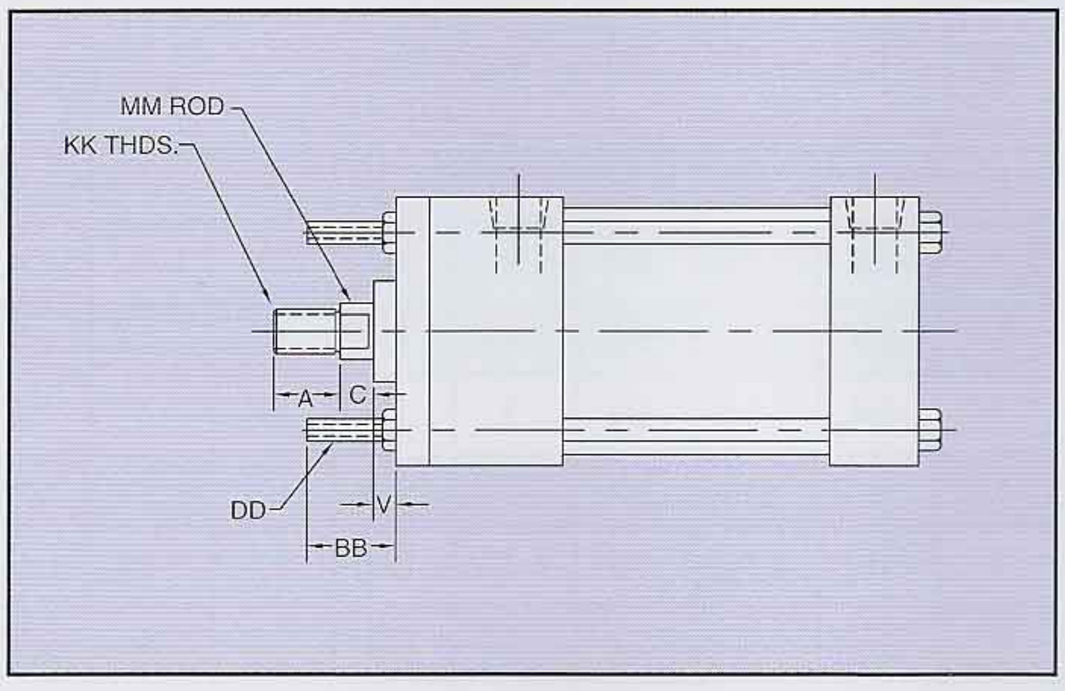
EXTENDED TIE ROD MOUNTS



RMX1 Tie rods extended both ends



RMX2 Tie rods extended cap end



RMX3 Tie rods extended head end

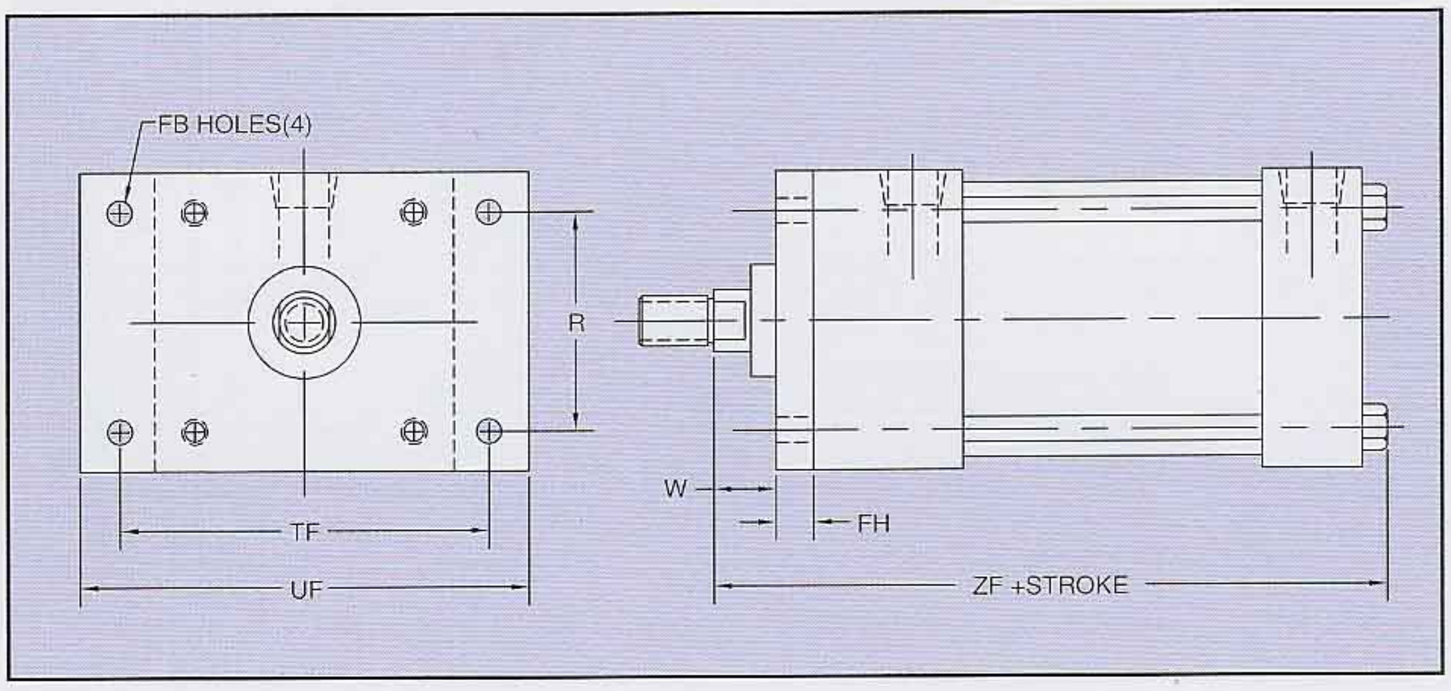
DIMENSIONS FOR TIE ROD MOUNTS RMX1, RMX2, & RMX3

BORE	MM	A	B	C	D	F	KK	V	AA	BB	DD	LB	RE	ZB
1-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	2.02	1	1/4 - 28	3-5/8	1.43	4-7/8
2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	2.60	1-1/8	5/16 - 24	3-5/8	1.84	4-15/16
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2						5-5/16
2-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3.10	1-1/8	5/16 - 24	3-3/4	2.19	5-1/16
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2						5-7/16
3-1/4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	3.90 *	1-3/8	3/8 - 24 *	4-1/4	2.76*	6-1/16
	1-3/8"	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						6-5/16
4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	4.69 *	1-3/8	3/8 - 24 *	4-1/4	3.32*	6-1/16
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						6-5/16
5	1"	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	5.8	1-13/16	1/2 - 20	—	4.10	6-5/16
	1-3/8	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						6-9/16
6	1-3/8	1-5/8	2.000	5/8	1-1/8	3/4	1"-14	3/8	6.9	1-13/16	1/2 - 20	—	4.88	7-1/16
	1-3/4	2	2.375	3/4	1-1/2	3/4	1-1/4-12	3/8						7-5/16
8	1-3/8	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	9.1	‡ 2-5/16	5/8 - 18	—	6.44	7-5/16
	1-3/4	2	2.375	3/4	1-1/2	3/4	1-1/4-12	3/8						7-9/16

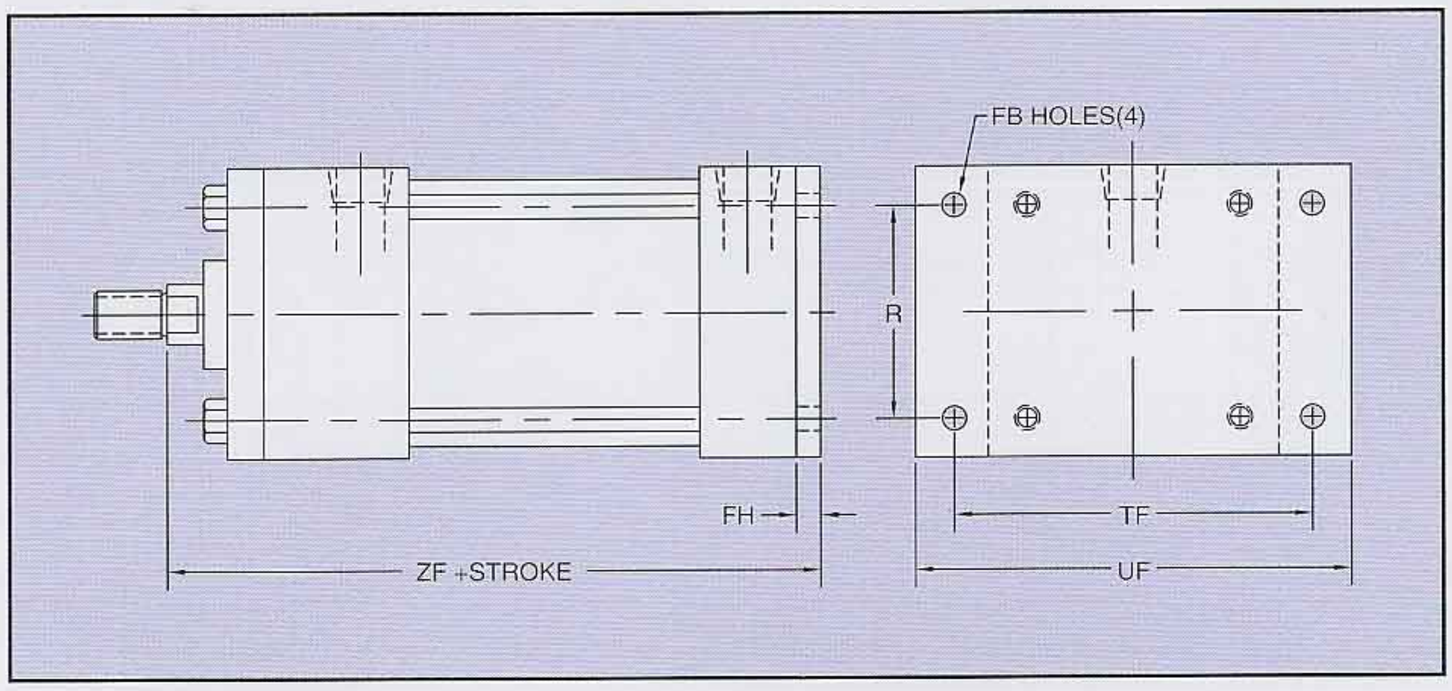
‡ **NOT A FULL FRONT PLATE. MEASURE FROM HEAD.**

* On tie rod extended models only.

FLANGE MOUNTS



RMF1
Rectangular head flange



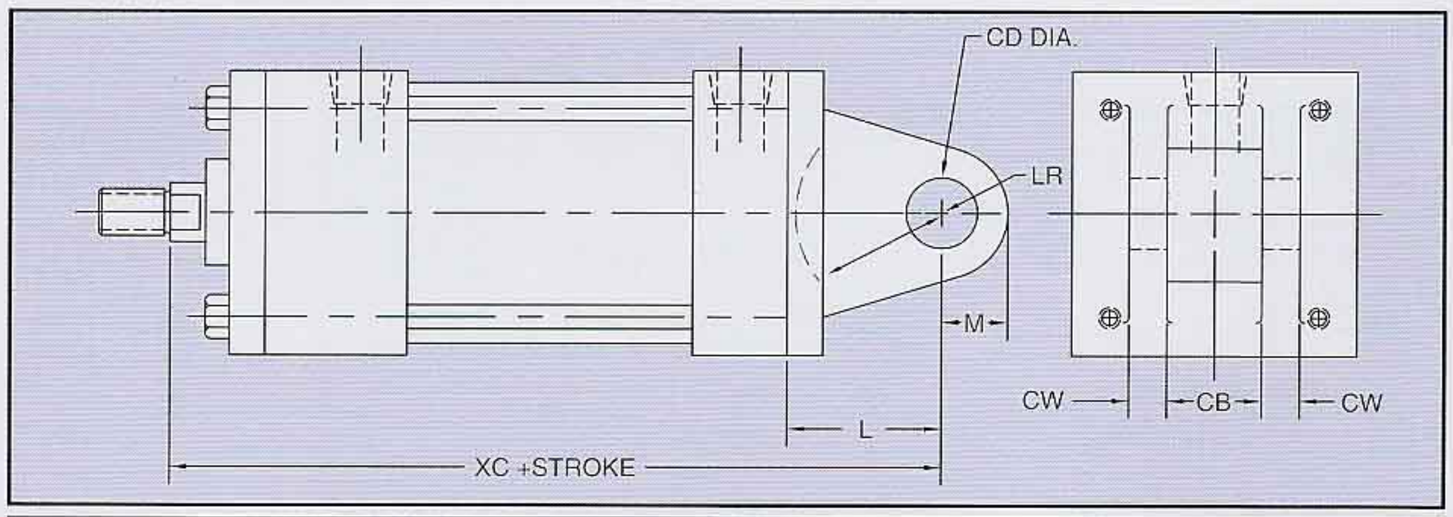
RMF2
Rectangular cap flange

DIMENSIONS FOR FLANGE MOUNTS RMF1 & RMF2

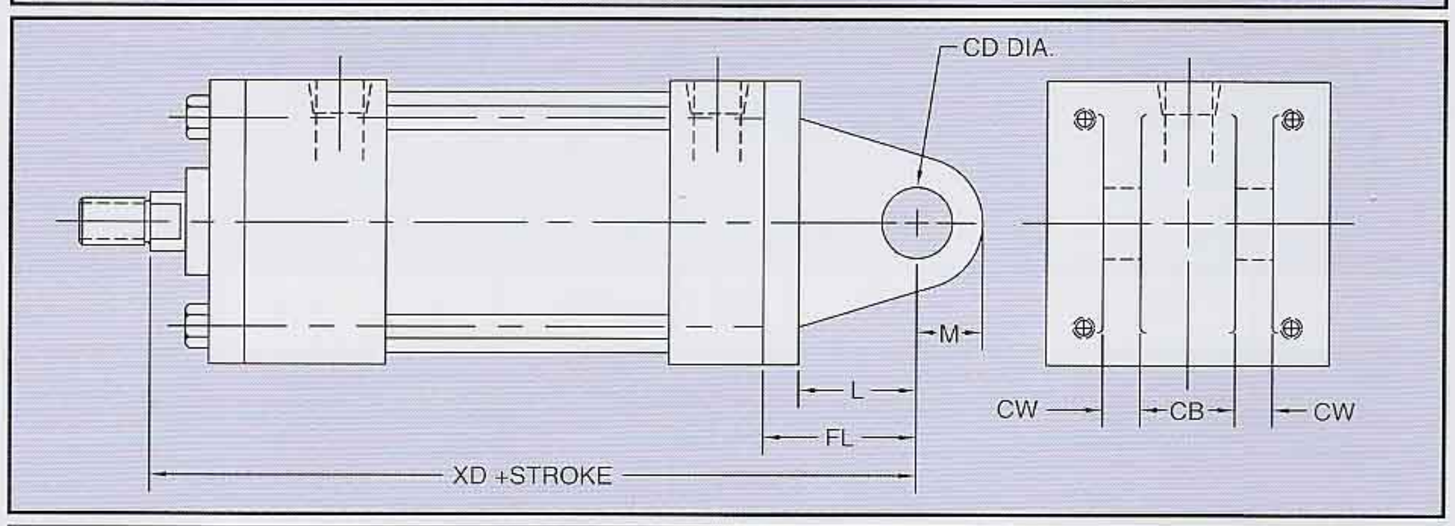
BORE	MM	A	B	C	D	F	KK	V	FB	FH	R	TF	UF	W	ZB	ZF
1-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	5/16	3/8	1.43	2-3/4	3-3/8	5/8	4-7/8	5
2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3/8	3/8	1.84	3-3/8	4-1/8	5/8	4-15/16	5
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2						1	5-5/16	5-3/8
2-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3/8	3/8	2.19	3-7/8	4-5/8	5/8	5-1/16	5-1/8
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2						1	5-7/16	5-1/2
3-1/4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	7/16	5/8	2.76	4-11/16	5-1/2	3/4	6-1/16	6-1/4
	1-3/8"	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						1	6-5/16	6-1/2
4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	7/16	5/8	3.32	5-7/16	6-1/4	3/4	6-1/16	6-1/4
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						1	6-5/16	6-1/2
5	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	9/16	5/8	4.10	6-5/8	7-5/8	3/4	6-5/16	6-1/2
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						1	6-9/16	6-3/4
6	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	9/16	3/4	4.88	7-5/8	8-5/8	7/8	7-1/16	7-3/8
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8						1-1/8	7-5/16	7-5/8
8	Not available with rectangular flange. See page 9 for square flange mount															

PIVOT MOUNTS

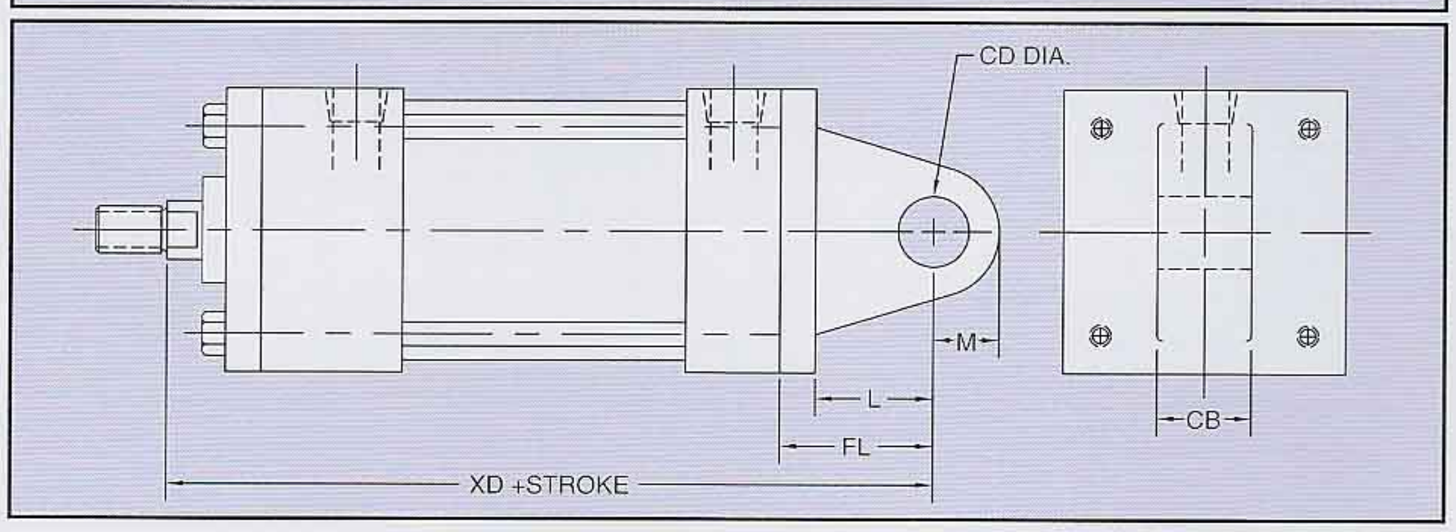
RMP1
Fixed clevis
Available on
1-1/2" thru 8" bores



RMP2
Detachable clevis
Available on
1-1/2" thru 5" bores



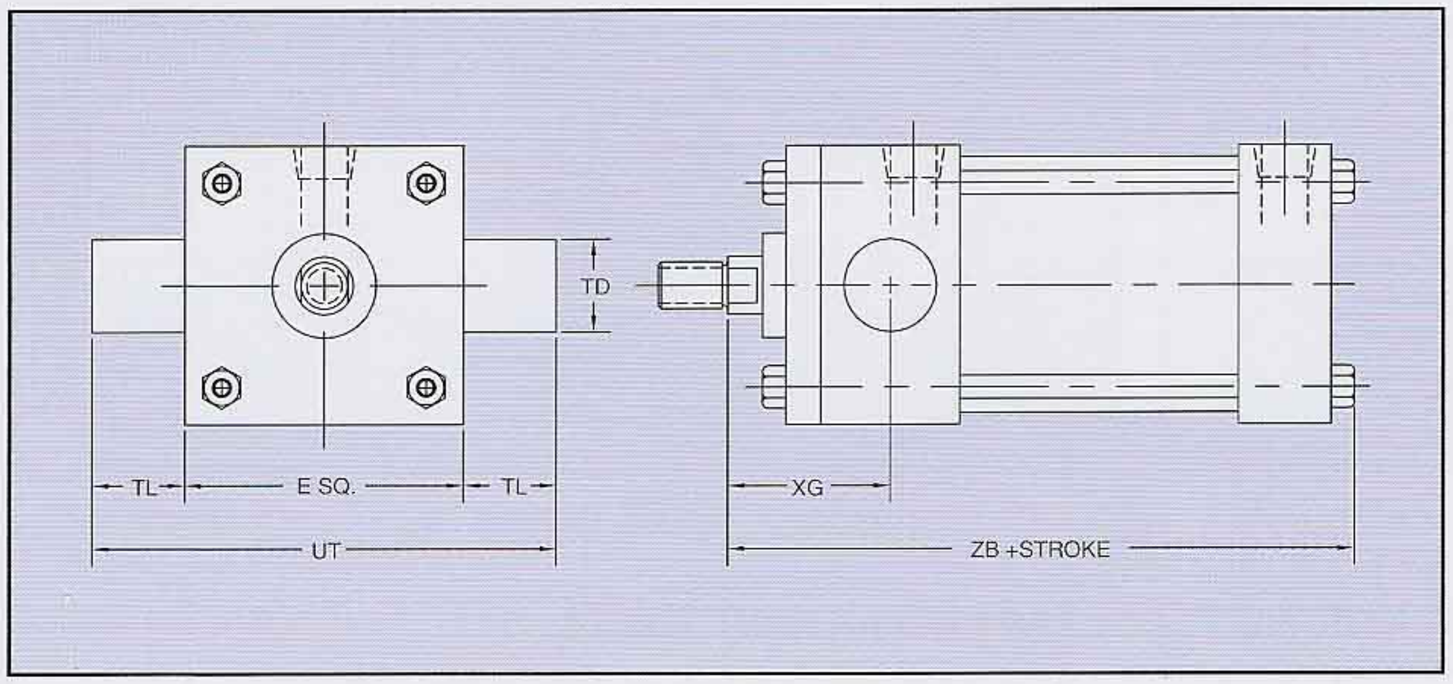
RMP4
Detachable eye
Available on
1-1/2" thru 4" bores



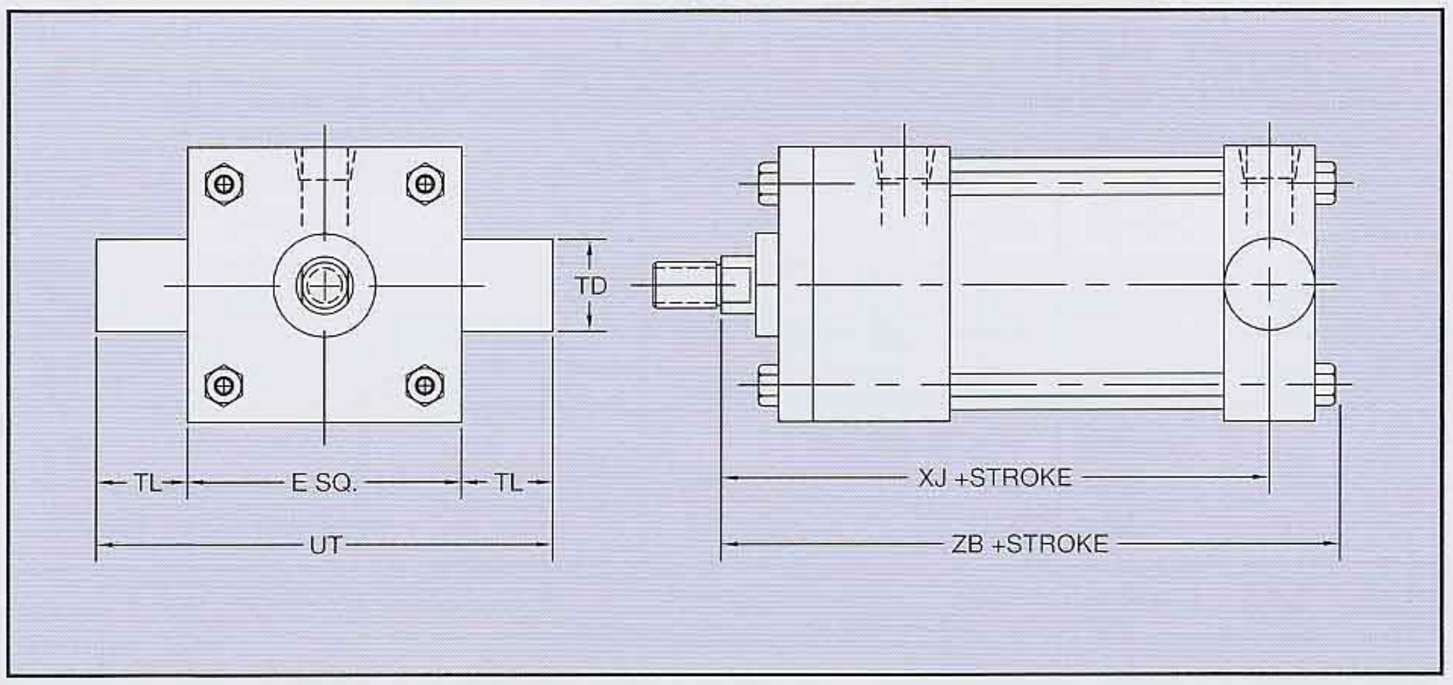
DIMENSIONS FOR CLEVIS MOUNTS RMP1, RMP2, & RMP4

BORE	MM	A	B	C	D	F	KK	V	CB	CD	CW	FL	L	LR	M	XC	XD
1-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3/4	1/2	1/2	1-1/8	3/4	3/4	5/8	5-3/8	5-3/4
2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3/4	1/2	1/2	1-1/8	3/4	3/4	5/8	5-3/8	5-3/4
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2								5-3/4	6-1/8
2-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3/4	1/2	1/2	1-1/8	3/4	3/4	5/8	5-1/2	5-7/8
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2								5-7/8	6-1/4
3-1/4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	1-1/4	3/4	5/8	1-3/4	1-1/4	1	7/8	6-7/8	7-3/8
	1-3/8"	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8								7-1/8	7-5/8
4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	1-1/4	3/4	5/8	1-3/4	1-1/4	1	7/8	6-7/8	7-3/8
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8								7-1/8	7-5/8
5	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	1-1/4	3/4	5/8	1-3/4	1-1/4	—	3/4	7-1/8	7-5/8
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8								7-3/8	7-7/8
6	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	1-1/2	1	3/4	—	1-1/2	—	1	8-1/8	—
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8								8-3/8	—
8	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	1-1/2	1	3/4	—	1-1/2	—	1	8-1/4	—
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8								8-1/2	—

TRUNNION MOUNTS



RMT1
Head trunnion

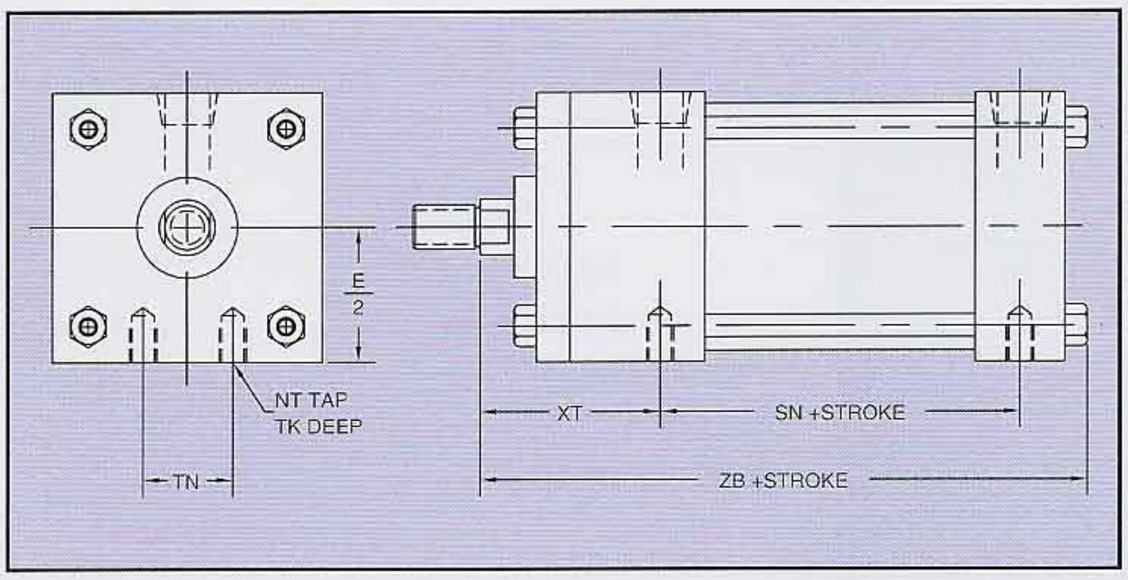


RMT2
Cap trunnion

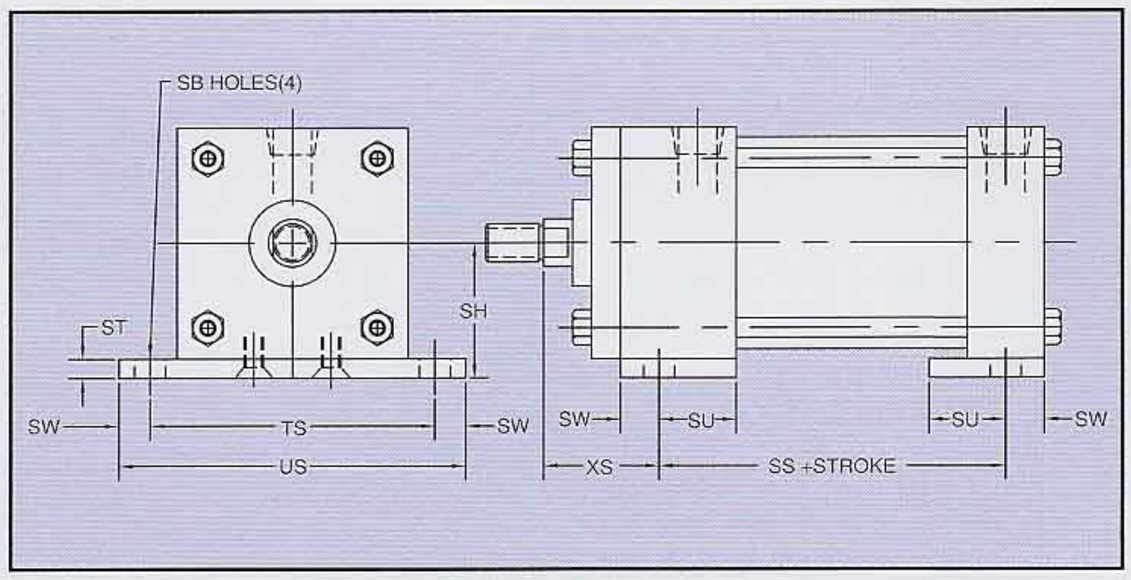
DIMENSIONS FOR TRUNNION MOUNTS RMT1, & RMT2

BORE	MM	A	B	C	D	F	KK	V	E	LB	TD	TL	UT	XG	XJ	ZB
1-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	2	3-5/8	1	1	4	NA	4-1/8	4-7/8
2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	2-1/2	3-5/8	1	1	4-1/2	1-3/4	4-1/8	4-15/16
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2						NA	4-1/2	5-5/16
2-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3	3-3/4	1	1	5	1-3/4	4-1/4	5-1/16
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2						2-1/8	4-5/8	5-7/16
3-1/4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	3-3/4	4-1/4	1	1	5-3/4	2-1/4	5	6-1/16
	1-3/8"	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						NA	5-1/4	6-5/16
4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	4-1/2	4-1/4	1	1	6-1/2	2-1/4	5	6-1/16
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						2-1/2	5-1/4	6-5/16
5	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	5-1/2	4-1/2	1	1	7-1/2	2-1/4	5-1/4	6-5/16
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8						2-1/2	5-1/2	6-9/16
6	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	6-1/2	5	1-3/8	1-3/8	9-1/4	2-5/8	5-7/8	7-1/16
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8						2-7/8	6-1/8	7-5/16
8	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	8-1/2	5-1/8	1-3/8	1-3/8	11-1/4	2-5/8	6	7-5/16
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8						2-7/8	6-1/4	7-9/16

BOTTOM MOUNTS



RMS4 Bottom tap



RBB Bottom bar

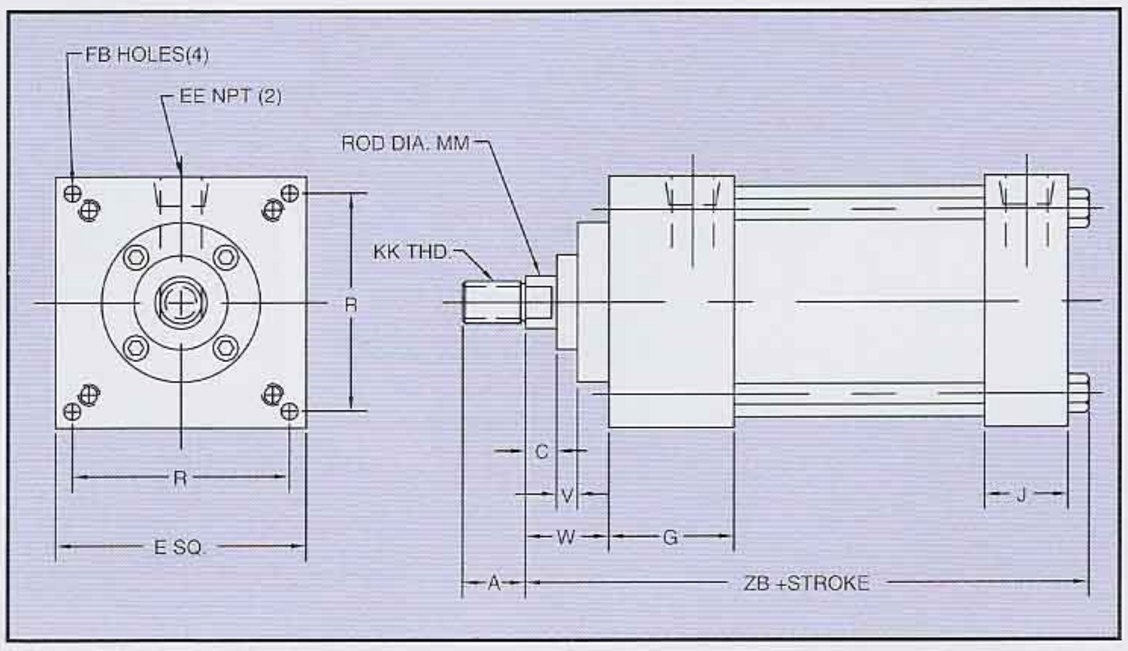
DIMENSIONS FOR BOTTOM TAPPED MOUNT RMS4

BORE	MM	A	B	C	D	F	KK	V	NT	TK	TN	SN	XT	ZB
1-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	1/4 - 20	3/8	5/8	2-1/4	1-15/16	4-7/8
2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	5/16 - 18	1/2	7/8	2-1/4	1-15/16	4-15/16
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2					2-5/16	5-5/16
2-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	3/8 - 16	5/8	1-1/4	2-3/8	1-15/16	5-1/16
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2					2-5/16	5-7/16
3-1/4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	1/2 - 13	3/4	1-1/2	2-5/8	2-7/16	6-1/16
	1-3/8"	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8					2-11/16	6-5/16
4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	1/2 - 13	3/4	2-1/16	2-5/8	2-7/16	6-1/16
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8					2-11/16	6-5/16
5	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	5/8 - 11	1	2-11/16	2-7/8	2-7/16	6-5/16
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8					2-11/16	6-9/16
6	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	3/4 - 10	1-1/8	3-1/4	3-1/8	2-13/16	7-1/16
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8					3-1/16	7-5/16
8	1-3/8" ST'D	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8	3/4 - 10	1-1/8	4-1/2	3-1/4	2-13/16	7-5/16
	1-3/4 "	2	2.375	3/4	1-1/2	3/4	1-1/4"-12	3/8					3-1/16	7-9/16

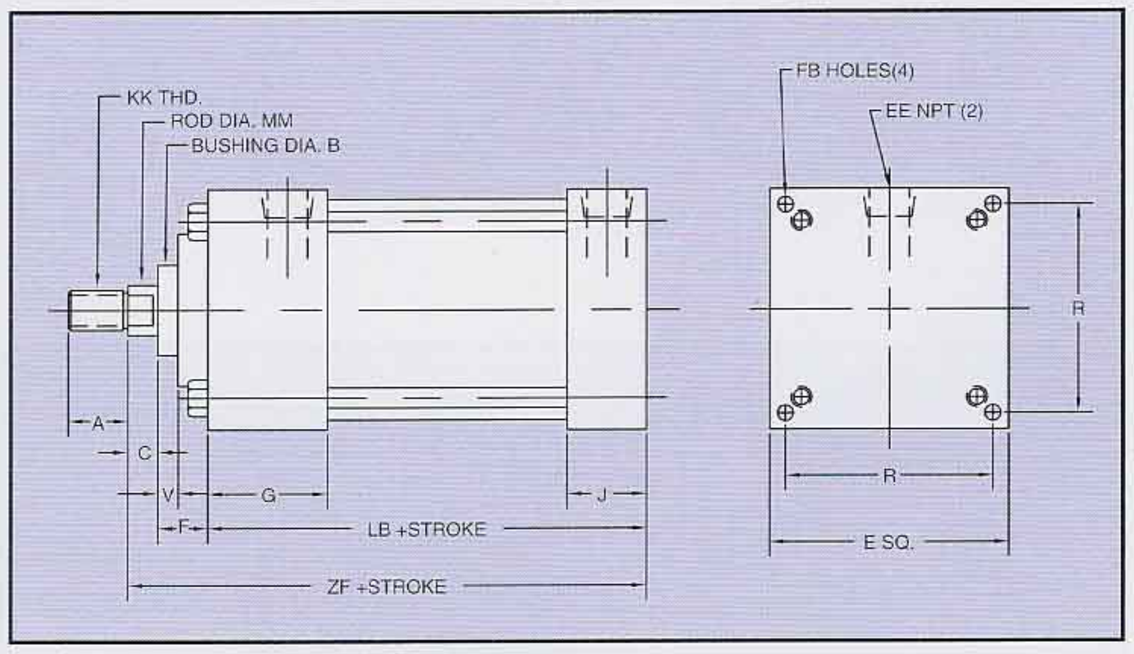
DIMENSIONS FOR BASE BAR MOUNT RBB

BORE	MM	A	B	C	D	F	KK	V	SB	SH	SS	ST	SU	SW	TS	US	XS
1-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	7/16	1-1/4	2-7/8	1/4	1-1/8	3/8	2-3/4	3-1/2	1-3/8
2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	7/16	1-1/2	2-7/8	1/4	1-1/8	3/8	3-1/4	4	1-3/8
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2									1-3/4
2-1/2	5/8 ST'D	3/4	1.125	3/8	1/2	3/8	7/16 -20	1/4	7/16	1-7/8	3	3/8	1-1/8	3/8	3-3/4	4-1/2	1-3/8
	1"	1-1/8	1.500	1/2	13/16	3/8	3/4 -16	1/2									1-3/4
3-1/4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	9/16	2-3/8	3-1/4	1/2	1-1/4	1/2	4-3/4	5-3/4	1-7/8
	1-3/8"	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8									2-1/8
4	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	9/16	2-3/4	3-1/4	1/2	1-1/4	1/2	5-1/2	6-1/2	1-7/8
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8									2-1/8
5	1" ST'D	1-1/8	1.500	1/2	13/16	5/8	3/4 -16	1/4	9/16	2-3/4	3-1/4	1/2	1-1/4	1/2	6-1/2	7-1/2	1-7/8
	1-3/8 "	1-5/8	2.000	5/8	1-1/8	5/8	1"-14	3/8									2-1/8

SQUARE FLANGE MOUNTS



RME3 Square head flange

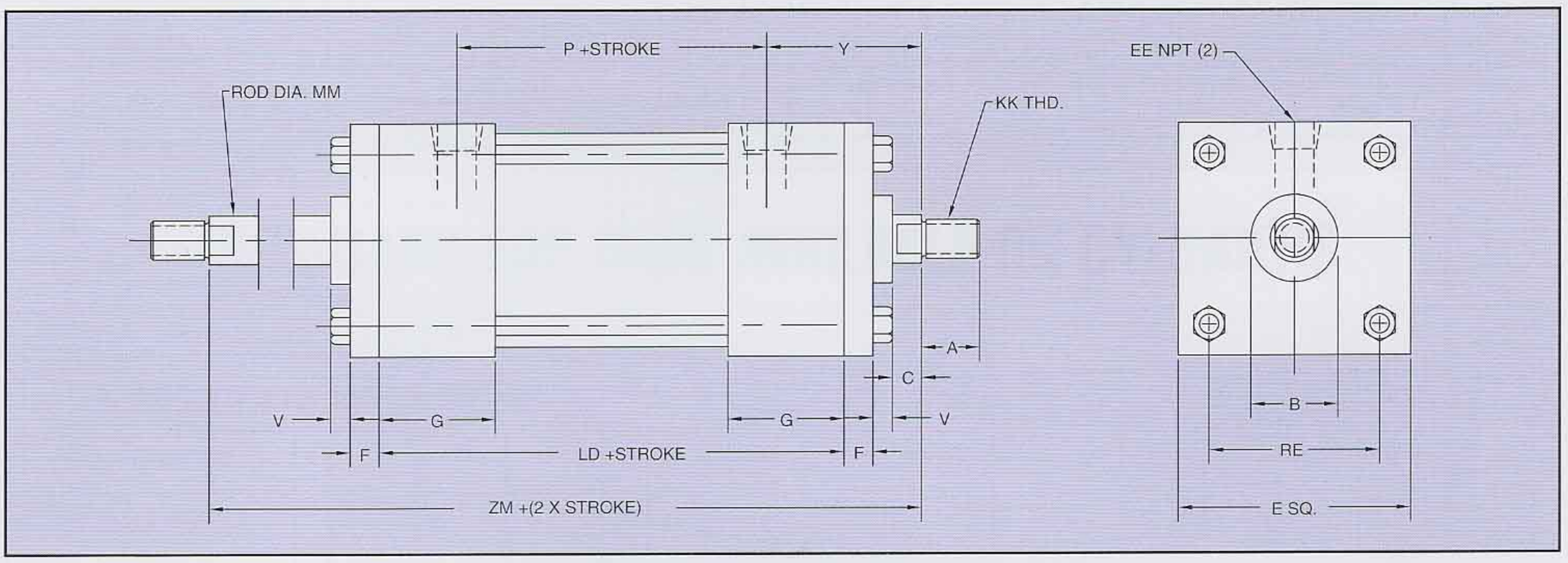


RME4 Square cap flange

DIMENSIONS FOR RME3 & RME4

BORE	MM	A	B	C	D	E	G	J	KK	R	V	W	EE	FB	ZB	ZF
8	1-3/8"	1-5/8	2.000	5/8	1-1/8	8-1/2	2	1-1/2	1-14	7.57	3/8	1-5/8	1/2	11/16	7-5/16	6-3/4
	1-3/4 "	2	2.375	3/4	1-1/2	8-1/2	2	1-1/2	1-1/4-12	7.57	3/8	1-7/8	1/2	11/16	7-9/16	7

DOUBLE ROD END

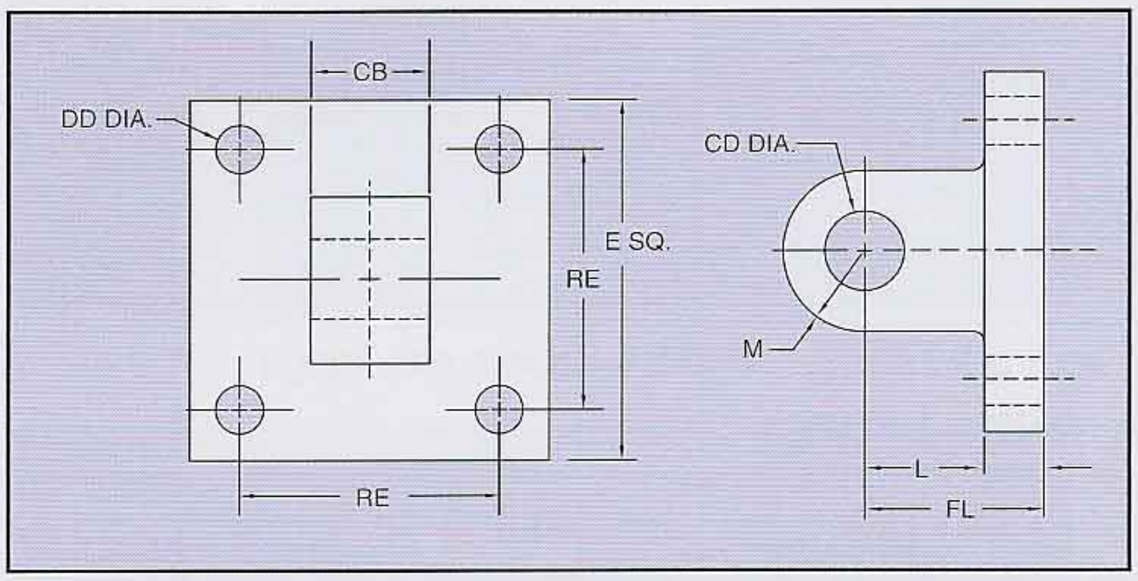


DIMENSIONS FOR DOUBLE ROD END

BORE	A	B	C	E	EE	F	G	KK	LD	MM	P	RE	RM	V	Y	ZM
1-1/2	3/4	1-1/8	3/8	2	1/4	3/8	1-1/2	7/16-20	4-1/8	5/8	2-3/16	1.43	—	1/4	1-31/32	6-1/8
2	3/4	1-1/8	3/8	2-1/2	1/4	3/8	1-1/2	7/16-20	4-1/8	5/8	2- 3/16	1.84	—	1/4	1-31/32	6-1/8
2-1/2	3/4	1-1/8	3/8	3	1/4	3/8	1-1/2	7/16-20	4-1/4	5/8	2-5/16	2.19	—	1/4	1-31/32	6-1/4
3-1/4	1-1/8	1-1/2	1/2	3-3/4	3/8	5/8	1-3/4	3/4-16	4-3/4	1	2-5/8	2.94	—	1/4	2-7/16	7-1/2
4	1-1/8	1-1/2	1/2	4-1/2	3/8	5/8	1-3/4	3/4-16	4-3/4	1	2-5/8	3.56	—	1/4	2-7/16	7-1/2
5	1-1/8	1-1/2	1/2	5-1/2	3/8	5/8	1-3/4	3/4-16	5	1	2-7/8	4.10	2-5/8	1/4	2-7/16	7-3/4
6	1-5/8	2	5/8	6-1/2	1/2	5/8	2	1"-14	5-1/2	1-3/8	3-1/8	4.88	3-3/8	3/8	2-13/16	8-3/8
8	1-5/8	2	5/8	8-1/2	1/2	5/8	2	1"-14	5-5/8	1-3/8	3-1/4	6.44	3-3/8	3/8	2-13-16	8-7/8

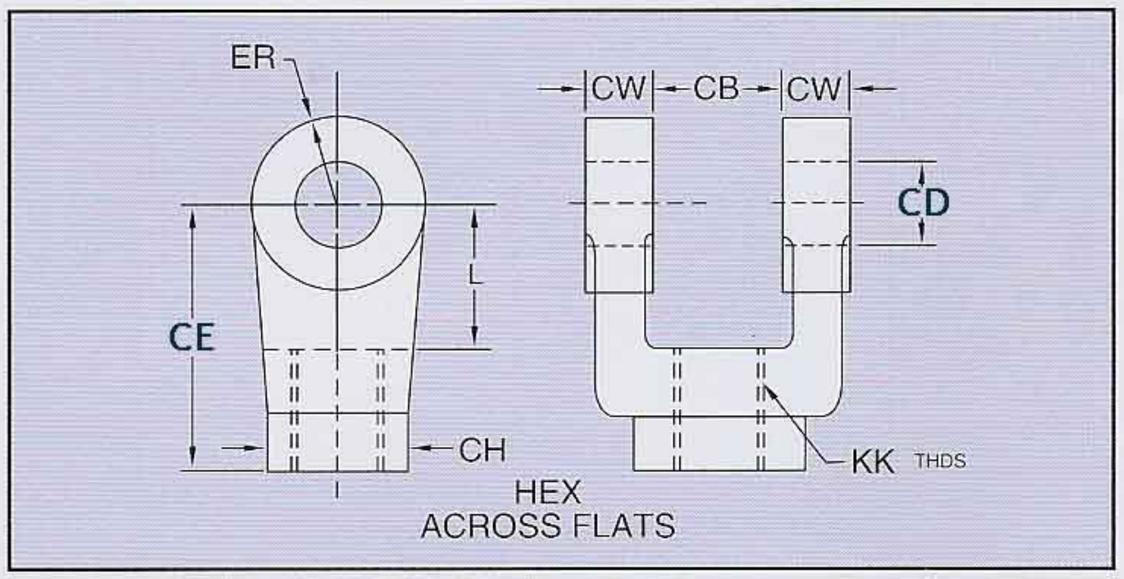
***5", 6" AND 8" BORES HAVE ROUND BUSHING RETAINERS.**

ACCESSORIES



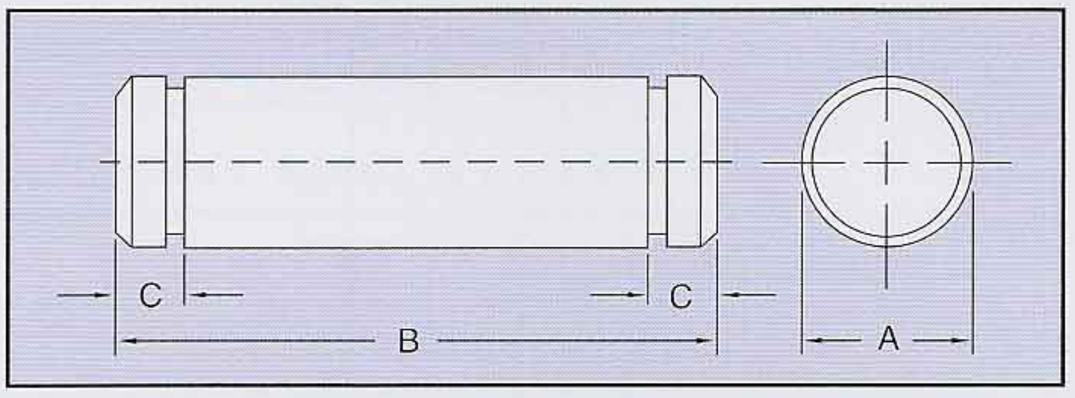
EYE BRACKET – CAST IRON

PART NO.	CB	CD	E	FL	L	M	RE	DD
RA-89-03	3/4	1/2	2	1-1/8	3/4	5/8	1.43	9/32
RA-89-04	3/4	1/2	2-1/2	1-1/8	3/4	5/8	1.84	11/32
RA-89-05	3/4	1/2	3	1-1/8	3/4	5/8	2.19	11/32
RA-89-065	1-1/4	3/4	3-3/4	1-3/4	1-1/4	7/8	2.94	15/32
RA-89-08	1-1/4	3/4	4-1/2	1-3/4	1-1/4	7/8	3.56	15/32
RA-89-12	1-1/2	1	4-1/2	2-1/4	1-1/2	1	3.25	21/32



ROD CLEVIS – STEEL

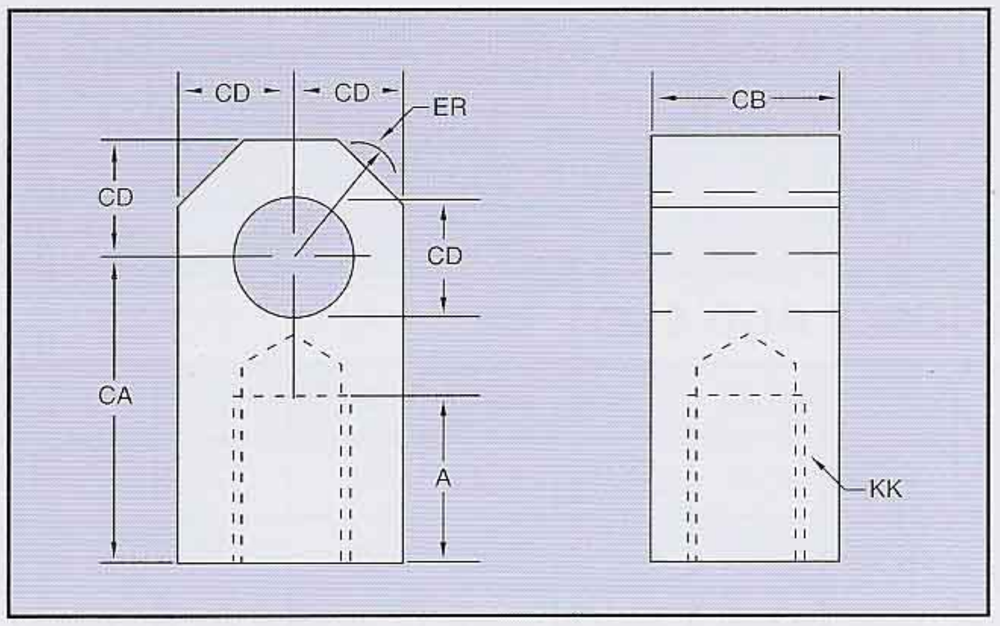
PART NO.	CB	CD	CE	CH	CW	ER	KK	L	USE WITH ROD DIA.
A-92-03	3/4	1/2	1-1/2	3/4	1/2	1/2	7/16-20	3/4	5/8
A-92-065	1-1/4	3/4	2-3/8	1-1/4	5/8	3/4	3/4-16	1-1/4	1"
A-92-12	1-1/2	1	3-1/8	1-5/8	3/4	1	1-14	1-1/2	1-3/8



NITROTEC STEEL CLEVIS PIN

PART NO.	A	B	C
A-98-03	.500	2-1/4	3/16
A-98-065	.750	3	3/16
A-98-12	1.000	3-1/2	3/16

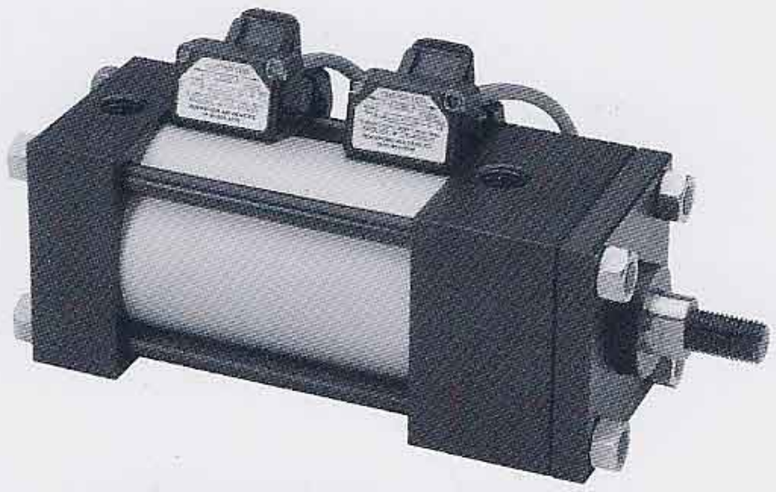
USE WITH BORE
1-1/2, 2, 2-1/2
3-1/4, 4, 5
6, 8



ROD EYE – STEEL

PART NO.	A	CA	CB	CD	ER	KK
RA-97-03	3/4	1-1/2	3/4	1/2	9/16	7/16 - 20
RA-97-065	1-1/8	2-1/16	1-1/4	3/4	15/16	3/4 - 16
RA-97-12	1-5/8	2-13/16	1-1/2	1	1-1/8	1 - 14

MAGNETIC PISTON & REED SWITCH



SPECIFICATIONS

1. L-6200R is a normally open reed switch that operates from 5-240 VAC/VDC.
2. L-6200P is a normally open, sourcing - PNP, switch that operates from 5-28 VDC.
3. L-6200N is a normally open, sinking - NPN, switch that operates from 5-28 VDC.

TECHNICAL INFORMATION

Working temperature	Min. -10° C Max. 70° C	Shock resistance	30g (REED) 50g (PNP & NPN)
		Magnetic Requirement	85 Gauss
Enclosure Rating	IP 67(NEMA 6)		
		Maximum switch current	1 AMP
Vibration Resistance	9g	Stroke limitations:	
		(2) switches require 1" min. stroke	
		(1) switch requires ½" min. stroke	

All switches have 3 meter (118 inch) PVC cables, optional M8x1 male quick disconnect with 150mm (6 inch) cable also available

FORCE VOLUME CHART – PUSH FORCES

BORE	PISTON AREA	PSI							CUBIC FT. DISPLACEMENT PER INCH OF PUSH STROKE
		40 PSI	50 PSI	60 PSI	80 PSI	100 PSI	125 PSI	150 PSI	
1-1/2	1.77	71	88	106	142	177	221	266	.00102
2	3.14	126	157	189	251	314	392	471	.00182
2-1/2	4.91	196	246	295	393	491	614	737	.00284
3-1/4	8.30	332	415	498	664	830	1037	1245	.00480
4	12.57	503	629	754	1005	1257	1571	1886	.00727
5	19.64	785	982	1178	1571	1964	2455	2946	.01137
6	28.27	1130	1414	1696	2262	2827	3534	4240	.01637
8	50.26	2010	2513	3015	4020	5026	6280	7539	.02227

DEDUCT THESE FORCES FOR PULL STROKES

ROD DIA.	ROD AREA	PSI							ROD DISPLACEMENT IN CU. FT. PER INCH OF PULL STROKE
		40 PSI	50 PSI	60 PSI	80 PSI	100 PSI	125 PSI	150 PSI	
5/8	.307	12	15	18	25	31	38	46	.00018
1	.785	31	39	47	63	79	98	118	.00045
1-3/8	1.485	56	74	89	119	149	185	222	.00086
1-3/4	2.405	96	120	144	192	240	301	361	.00139

LIGHTWEIGHT AIR - OIL TANK

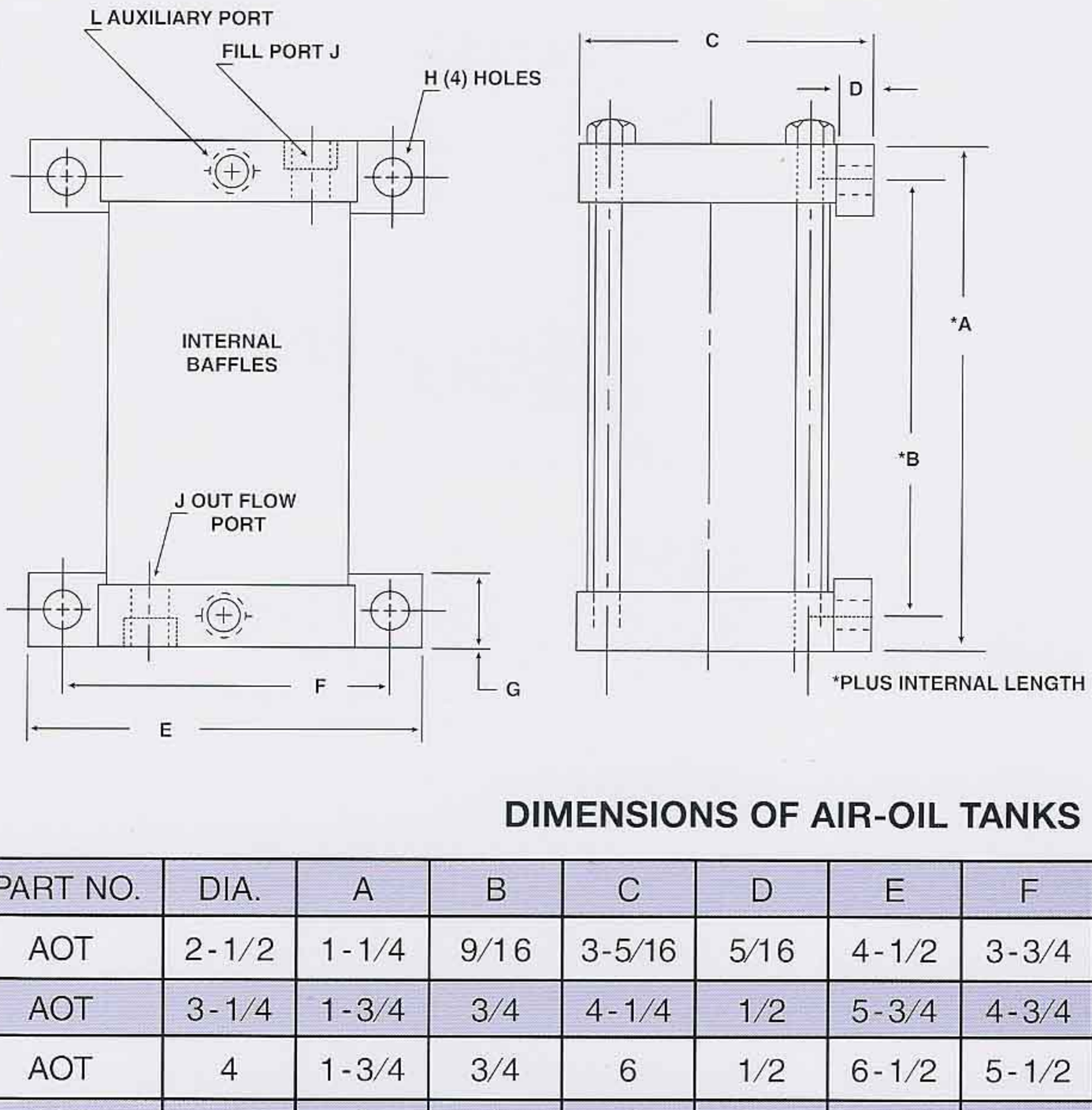
150 PSI AIR

Aluminum end caps, translucent fiberglass tube allows easy viewing of oil height from any position.

ORDERING INFORMATION

AIR-OIL TANK — DIAMETER — LENGTH IN INCHES

AOT – 3-1/4" x 6"



DIMENSIONS OF AIR-OIL TANKS

PART NO.	DIA.	A	B	C	D	E	F	G	H	J	L
AOT	2-1/2	1-1/4	9/16	3-5/16	5/16	4-1/2	3-3/4	3/4	3/8	1/4	1/8
AOT	3-1/4	1-3/4	3/4	4-1/4	1/2	5-3/4	4-3/4	1	1/2	3/8	1/4
AOT	4	1-3/4	3/4	6	1/2	6-1/2	5-1/2	1	1/2	3/8	1/4
AOT	5	2	1	6	1/2	7-1/2	6-1/2	1	1/2	1/2	3/8
AOT	6	2	1	7	1/2	8-1/2	7-1/2	1	1/2	3/4	3/8
AOT	8	2	1	9	1/2	10-1/2	9-1/2	1	1/2	3/4	3/8

MAXIMUM USEABLE VOLUME

DIA.	AREA	INTERNAL LENGTH OF TANK							
		6	8	10	12	14	16	18	20
2-1/2	4.90	15	24	33	42	51	60	69	78
3-1/4	8.30	26	41	56	71	86	101	116	131
4	12.56	38	62	84	108	130	153	174	198
5	19.64	57	92	128	163	199	234	269	305
6	28.27	84	131	184	237	285	340	388	436
8	50.26	146	236	327	417	507	597	687	778

NOTE: OTHER INTERNAL LENGTHS ARE AVAILABLE. PLEASE CONTACT FACTORY.

ORDERING INFORMATION

Features	Description	Symbol
Series	R-Series NFPA	R
Double Rod End	Single rod end	leave blank
	Double rod end	D
Mounts	Basic no mount	MXO
	Front rectangular flange	MF1
	Rear rectangular flange	MF2
	Bottom tap	MS4
	Fixed clevis	MP1
	Detachable clevis	MP2
	Detachable eye	MP4
	Head trunnion	MT1
	Cap Trunnion	MT2
	Tie rod extended head & cap	MX1
	Tie rod extended cap	MX2
	Tie rod extended head	MX3
	Square head flange	ME3
	Square cap flange	ME4
	Base bar	BB
Bore	Specify bore in inches	
Stroke	Specify stroke in inches	
Rod Diameter	Standard rod	leave blank
	First oversize	MM1
Rod Thread	Small male thread	KK
	Intermediate male thread	CC
	Small female thread	XX
Cushion	No cushion	leave blank
	Head cushion	H
	Cap cushion	C
	Head & cap cushion	HC
Piston	No magnet-No air oil seal	leave blank
	Magnetic piston	MP
	Air oil piston	AOP
Ports	Standard	leave blank
	Oversized	EE1
Seals	Standard buna N	leave blank
	Viton	V

RDMF1 - 2 X 1 - MM1 - KK - HC - MP - EE1 - V

Highlights in red indicate mandatory symbols

PRECAUTIONS

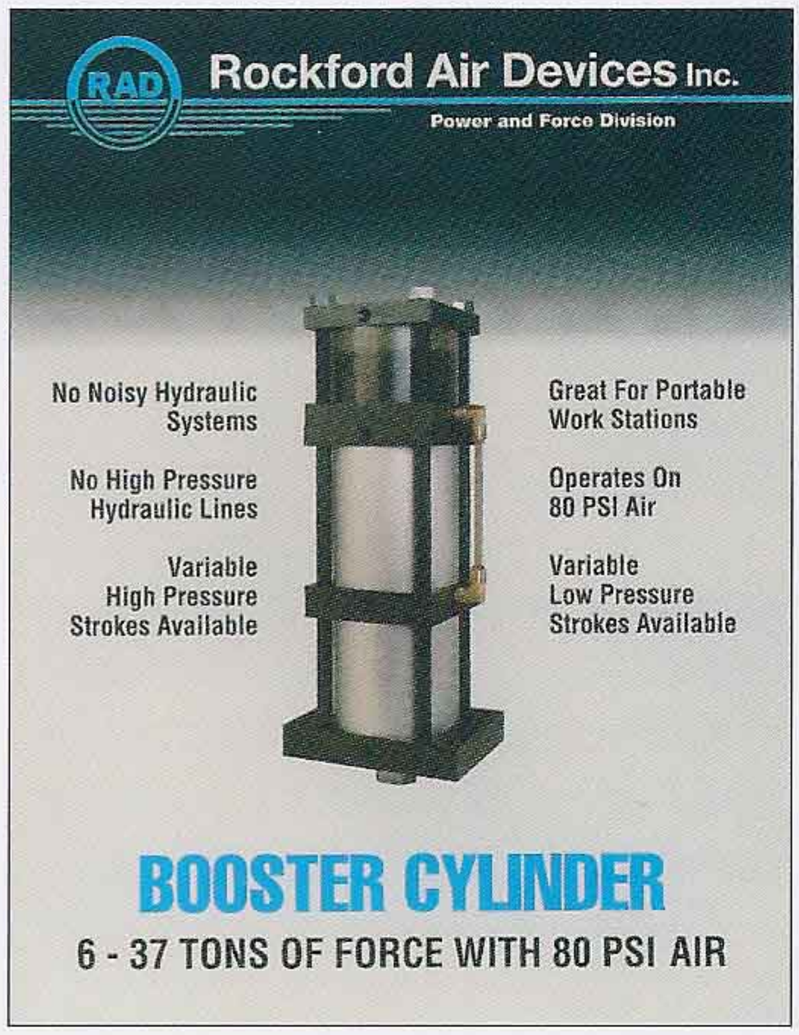
Rockford Air Devices products are manufactured exclusively for use in industrial applications by trained personnel who possess the experience necessary to provide adequate safeguards to prevent injury or damage in the event there is a failure of any component in the system.

WARRANTY

Rockford Air Devices, Inc. warrants to customers who purchase products for resale that such products are free from defects in material and workmanship. The company will repair or replace, at its option, any product found to be defective after inspection. Rockford Air Devices, Inc. shall not be liable for any incidental or consequential damages, including downtime, for breach of any express or implied warranty, and shall not be liable or responsible for injuries or damage to persons or property arising out of the use or operation of Rockford Air Devices, Inc. products.

SEND FOR THESE OTHER CATALOGS:

BULLETIN S-100



BULLETIN S-120A

BULLETIN S-130

BULLETIN S-140

RAD **Rockford Air Devices Inc.**

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