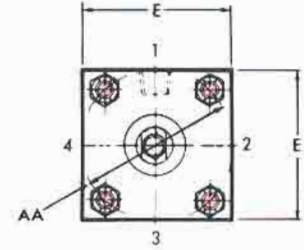
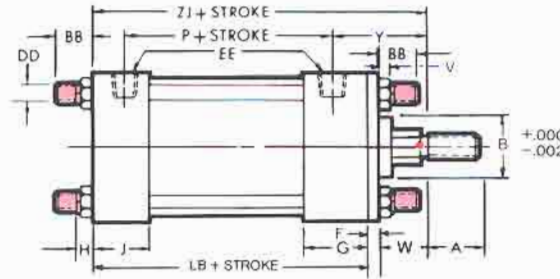
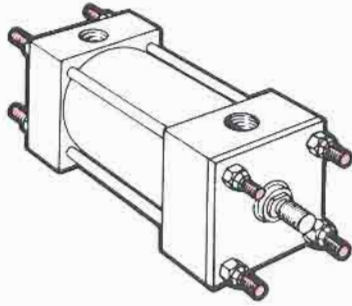


# NOPAK

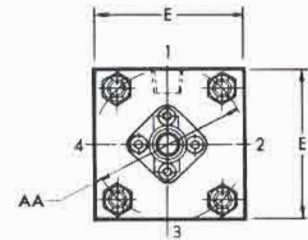
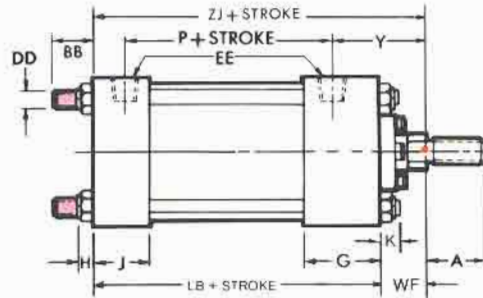
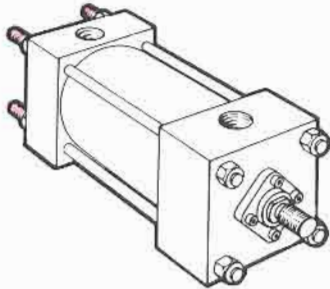
## TIE-ROD MOUNT CYLINDERS

1 1/2" THROUGH 6" DIA.

### MODEL T (USA STD. MX1)



### MODEL TB (USA STD. MX2) ▲



**TABLE 2**

These dimensions are constant regardless of rod diameter or stroke.

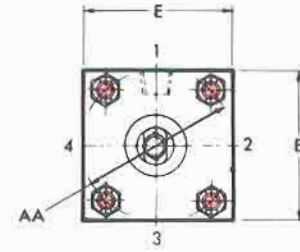
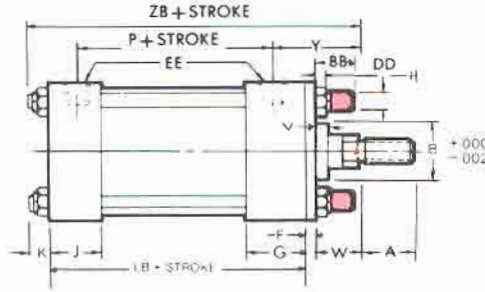
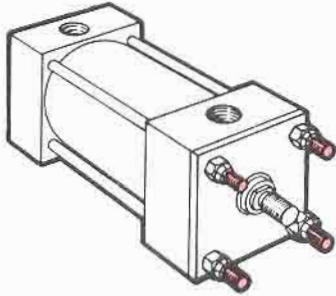
Double rod end models are designated by letter "X" preceding the model identification. See page 28.

BORE DIA.	E	F	G	H	J	K	AA	BB	DD	EE
1 1/2	2	3/8	1 1/2	7/32	1 1/8	1/4	2.02	7/8	1/4-28	3/8
2	2 1/2	3/8	1 1/2	9/32	1 1/8	7/16	2.60	1 3/16	5/16-24	3/8
2 1/2	3	3/8	1 1/2	9/32	1 1/8	5/16	3.10	1 1/8	5/16-24	3/8
3 1/4	3 3/4	5/8	1 3/4	3/8	1 1/4	7/16	4.00	1 3/8	3/8-24	1/2
4	4 1/2	5/8	1 3/4	3/8	1 1/4	7/16	4.75	1 3/8	3/8-24	1/2
5	5 1/2	5/8	1 3/4	7/16	1 1/4	1/2	5.80	1 3/4	1/2-20	1/2
6	6 1/2	3/4	2	1/2	1 1/2	9/16	6.90	1 3/4	1/2-20	3/4

▲ See Table A on page 27 for bore and rod combinations using head plates with threaded bronze glands.

# MODEL TR (USA STD. MX3)

- Heads bored for these rod sizes are normally in stock — thus faster delivery.
- Model TB only.



**TABLE 1**

The dimensions given on this table are affected by the piston rod diameter and the stroke.

Double rod end models are designated by letter "X" preceding the model identification. See page 28.

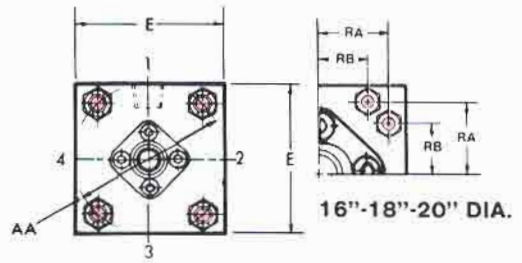
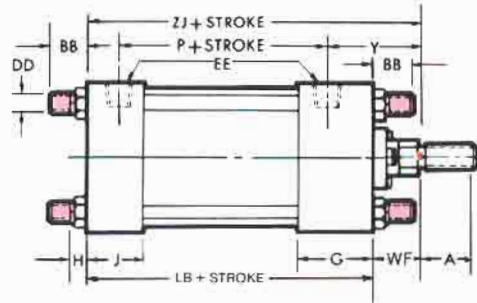
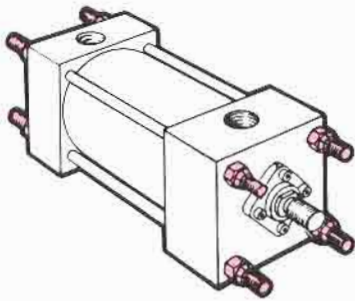
\* For piston rod end dimensions see page 32.

BORE DIA.	*ROD MM	A	B	P	V	W	Y	LB	WF	ZB	ZJ
1 1/2	5/8 •	3/4	1 1/8	2 1/8	1/4	5/8	1 15/16	3 5/8	1	4 7/8	4 5/8
	1 •	1 1/8	1 1/2		1/2	1	2 5/16		1 3/8	5 1/4	5
2	5/8 •	3/4	1 1/8	2 1/8	1/4	5/8	1 15/16	3 5/8	1	5	4 5/8
	1 •	1 1/8	1 1/2		1/2	1	2 5/16		1 3/8	5 3/8	5
	1 3/8	1 5/8	2		5/8	1 1/4	2 9/16		1 5/8	5 1 1/16	5 1/4
2 1/2	5/8 •	3/4	1 1/8	2 1/4	1/4	5/8	1 15/16	3 3/4	1	5 1/16	4 3/4
	1 •	1 1/8	1 1/2		1/2	1	2 5/16		1 3/8	5 7/16	5 1/8
	1 3/8	1 5/8	2		5/8	1 1/4	2 9/16		1 5/8	5 1 1/16	5 3/8
	1 3/4	2	2 3/8		3/4	1 1/2	2 13/16		1 7/8	5 15/16	5 5/8
3 1/4	1 •	1 1/8	1 1/2	2 1/2	1/4	3/4	2 1/2	4 1/4	1 3/8	6 1/16	5 5/8
	1 3/8 •	1 5/8	2		3/8	1	2 3/4		1 5/8	6 5/16	5 7/8
	1 3/4	2	2 3/8		1/2	1 1/4	3		1 7/8	6 9/16	6 1/8
	2	2 1/4	2 5/8		1/2	1 3/8	3 1/8		2	6 1 1/16	6 1/4
4	1 •	1 1/8	1 1/2	2 1/2	1/4	3/4	2 1/2	4 1/4	1 3/8	6 1/16	5 5/8
	1 3/8 •	1 5/8	2		3/8	1	2 3/4		1 5/8	6 5/16	5 7/8
	1 3/4 •	2	2 3/8		1/2	1 1/4	3		1 7/8	6 9/16	6 1/8
	2	2 1/4	2 5/8		1/2	1 3/8	3 1/8		2	6 1 1/16	6 1/4
	2 1/2	3	3 1/8		5/8	1 5/8	3 3/8		2 1/4	6 15/16	6 1/2
5	1 •	1 1/8	1 1/2	2 3/4	1/4	3/4	2 1/2	4 1/2	1 3/8	6 3/8	5 7/8
	1 3/8 • ■	1 5/8	2		3/8	1	2 3/4		1 5/8	6 5/8	6 1/8
	1 3/4	2	2 3/8		1/2	1 1/4	3		1 7/8	6 7/8	6 3/8
	2	2 1/4	2 5/8		1/2	1 3/8	3 1/8		2	7	6 1/2
	2 1/2	3	3 1/8		5/8	1 5/8	3 3/8		2 1/4	7 1/4	6 3/4
	3	3 1/2	3 3/4		5/8	1 5/8	3 3/8		2 1/4	7 1/4	6 3/4
	3 1/2	3 1/2	4 1/4		5/8	1 5/8	3 3/8		2 1/4	7 1/4	6 3/4
6	1 3/8 •	1 5/8	2	3 1/8	1/4	7/8	2 13/16	5	1 5/8	7 3/16	6 5/8
	1 3/4 • ■	2	2 3/8		3/8	1 1/8	3 1/16		1 7/8	7 7/16	6 7/8
	2 • ■	2 1/4	2 5/8		3/8	1 1/4	3 3/16		2	7 9/16	7
	2 1/2	3	3 1/8		1/2	1 1/2	3 7/16		2 1/4	7 13/16	7 1/4
	3	3 1/2	3 3/4		1/2	1 1/2	3 7/16		2 1/4	7 13/16	7 1/4
	3 1/2	3 1/2	4 1/4		1/2	1 1/2	3 7/16		2 1/4	7 13/16	7 1/4
	4	4	4 3/4		1/2	1 1/2	3 7/16		2 1/4	7 13/16	7 1/4

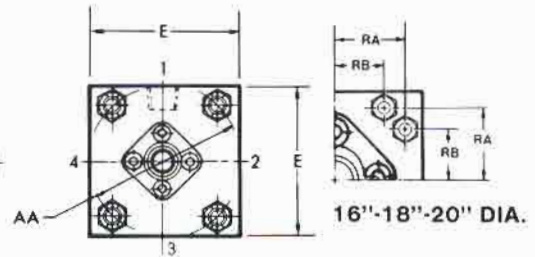
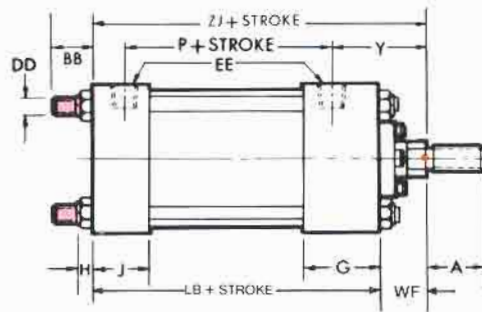
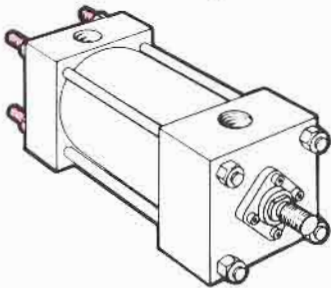
# NOPAK TIE-ROD MOUNT CYLINDERS

8" THROUGH 20" DIA.

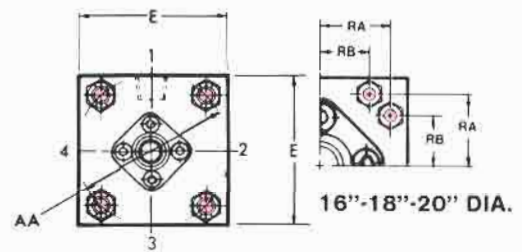
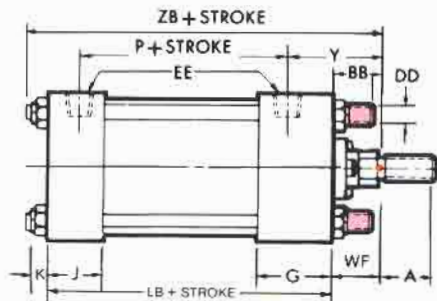
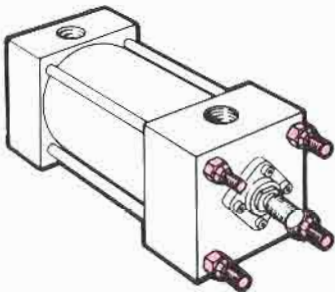
## MODEL T (USA STD. MX1)



## MODEL TB (USA STD. MX2)



## MODEL TR (USA STD. MX3)



**TABLE 2**

These dimensions are constant regardless of rod diameter or stroke.

Double rod end models are designated by letter "X" preceding the model identification. See page 30.

BORE DIA.	E	G	H	J	K	AA	BB	DD	EE	RA	RB
8	8½	2	9/16	1½	5/8	9.10	2¼	5/8-18	¾	—	—
10	10⅝	2¼	5/8	2	¾	11.31	2⅝	¾-16	1	—	—
12	12¾	2¼	5/8	2	¾	13.30	2⅞	¾-16	1	—	—
14	14¾	2¾	¾	2¼	7/8	15.40	3⅞	7/8-14	1¼	—	—
16	17½	3	7/8	3	1	18.25	3⅝	1-14	1½	7.48	5.23
18	19½	3⅞	1	3⅞	1⅞	20.50	4⅞	1⅞-12	1½	8.40	5.88
20	21¾	3⅞	1⅞	3⅞	1¼	22.62	4½	1¼-12	2	9.27	6.49

**TABLE 1**

The dimensions given on this table are affected by the piston rod diameter and the stroke.

• Heads bored for these rod sizes are normally in stock — thus faster delivery.

\* For piston rod dimensions see page 32.

BORE DIA.	*ROD MM	A	P	Y	LB	WF	ZB	ZJ
8	1 $\frac{3}{8}$ •	1 $\frac{5}{8}$	3 $\frac{1}{4}$	2 $\frac{13}{16}$	5 $\frac{1}{8}$	1 $\frac{5}{8}$	7 $\frac{3}{8}$	6 $\frac{3}{4}$
	1 $\frac{3}{4}$	2		3 $\frac{1}{16}$		1 $\frac{7}{8}$	7 $\frac{5}{8}$	7
	2	2 $\frac{1}{4}$		3 $\frac{3}{16}$		2	7 $\frac{3}{4}$	7 $\frac{1}{8}$
	2 $\frac{1}{2}$	3		3 $\frac{7}{16}$		2 $\frac{1}{4}$	8	7 $\frac{3}{8}$
	3	3 $\frac{1}{2}$						
	3 $\frac{1}{2}$	3 $\frac{1}{2}$						
	4	4						
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
5 $\frac{1}{2}$	5 $\frac{1}{2}$							
10	1 $\frac{3}{4}$ •	2	4	3 $\frac{3}{16}$	6 $\frac{3}{8}$	1 $\frac{7}{8}$	9	8 $\frac{1}{4}$
	2	2 $\frac{1}{4}$		3 $\frac{5}{16}$		2	9 $\frac{1}{8}$	8 $\frac{3}{8}$
	2 $\frac{1}{2}$	3		3 $\frac{9}{16}$		2 $\frac{1}{4}$	9 $\frac{3}{8}$	8 $\frac{5}{8}$
	3	3 $\frac{1}{2}$						
	3 $\frac{1}{2}$	3 $\frac{1}{2}$						
	4	4						
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
	5 $\frac{1}{2}$	5 $\frac{1}{2}$						
12	2 •	2 $\frac{1}{4}$	4 $\frac{1}{2}$	3 $\frac{5}{16}$	6 $\frac{7}{8}$	2	9 $\frac{5}{8}$	8 $\frac{7}{8}$
	2 $\frac{1}{2}$	3		3 $\frac{9}{16}$		2 $\frac{1}{4}$	9 $\frac{7}{8}$	9 $\frac{1}{8}$
	3	3 $\frac{1}{2}$						
	3 $\frac{1}{2}$	3 $\frac{1}{2}$						
	4	4						
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
5 $\frac{1}{2}$	5 $\frac{1}{2}$							
14	2 $\frac{1}{2}$	3	5 $\frac{1}{2}$	3 $\frac{13}{16}$	8 $\frac{1}{8}$	2 $\frac{1}{4}$	11 $\frac{1}{4}$	10 $\frac{3}{8}$
	3	3 $\frac{1}{2}$						
	3 $\frac{1}{2}$	3 $\frac{1}{2}$						
	4	4						
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
	5 $\frac{1}{2}$	5 $\frac{1}{2}$						
16	2 $\frac{1}{2}$	3	5 $\frac{7}{8}$	3 $\frac{15}{16}$	9 $\frac{1}{4}$	2 $\frac{1}{4}$	12 $\frac{1}{2}$	11 $\frac{1}{2}$
	3	3 $\frac{1}{2}$						
	3 $\frac{1}{2}$	3 $\frac{1}{2}$						
	4	4						
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
	5 $\frac{1}{2}$	5 $\frac{1}{2}$						
18	3 $\frac{1}{2}$	3 $\frac{1}{2}$	6	4 $\frac{3}{8}$	10 $\frac{1}{4}$	2 $\frac{1}{4}$	13 $\frac{5}{8}$	12 $\frac{1}{2}$
	4	4						
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
	5 $\frac{1}{2}$	5 $\frac{1}{2}$						
20	4	4	7 $\frac{1}{8}$	4 $\frac{9}{16}$	11 $\frac{3}{4}$	2 $\frac{1}{4}$	15 $\frac{1}{4}$	14
	4 $\frac{1}{2}$	4 $\frac{1}{2}$						
	5	5						
	5 $\frac{1}{2}$	5 $\frac{1}{2}$						