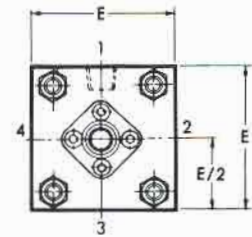
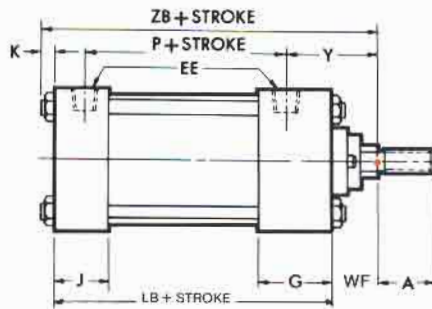
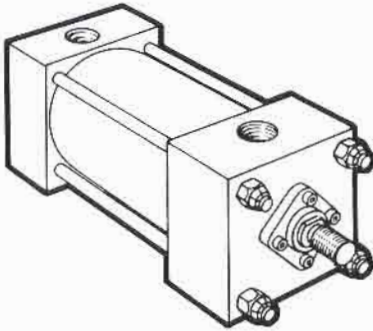


# NOPAK

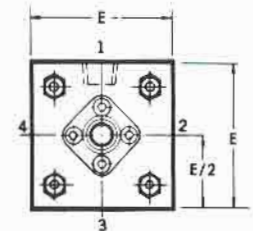
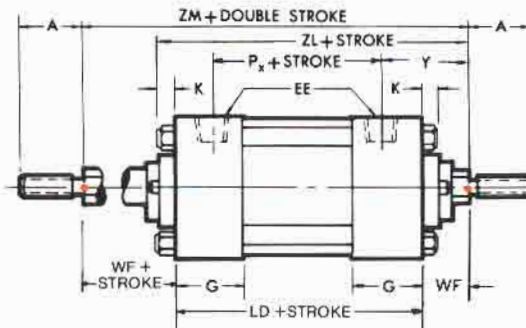
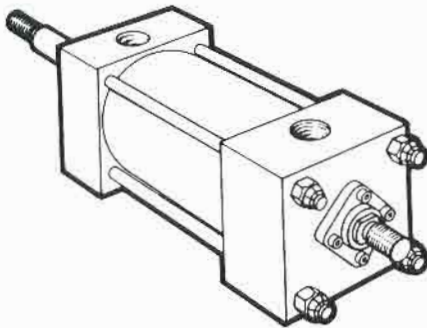
## BASIC MODEL NO MOUNT CYLINDERS

1 1/2" THROUGH 6" DIA.

### MODEL H (USA STD. NONE) ▲



### MODEL XH (USA STD. NONE) ▲



**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.

BORE DIA.	E	G	J	K	EE
1 1/2	2	1 1/2	1 1/8	1/4	3/8
2	2 1/2	1 1/2	1 1/8	3/8	3/8
2 1/2	3	1 1/2	1 1/8	5/16	3/8
3 1/4	3 3/4	1 3/4	1 1/4	7/16	1/2
4	4 1/2	1 3/4	1 1/4	7/16	1/2
5	5 1/2	1 3/4	1 1/4	1/2	1/2
6	6 1/2	2	1 1/2	9/16	3/4

# H & XH CYLINDER DIMENSIONAL DATA

**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, Model H only.
- \* For piston rod dimensions see page 32.

BORE DIA.	*ROD MM	A	P	P <sub>x</sub>	Y	LB	LD	WF	ZB	ZL	ZM
1½	5/8 •	¾	2⅛	2¼	1 15/16	35/8	4⅞	1	47/8	53/8	6⅞
	1 •	1⅛			25/16			13/8	5¼	5¾	67/8
2	5/8 •	¾	2⅛	2¼	1 15/16	35/8	4⅞	1	5	5½	6⅞
	1 •	1⅛			25/16			13/8	53/8	57/8	67/8
	13/8	15/8			29/16			15/8	511/16	6⅞	73/8
2½	5/8 •	¾	2¼	23/8	1 15/16	3¾	4¼	1	51/16	59/16	6¼
	1 •	1⅛			25/16			13/8	57/16	515/16	7
	13/8	15/8			29/16			15/8	511/16	63/16	7½
	1¾	2			213/16			17/8	515/16	67/16	8
3¼	1 •	1⅛	2½		2½	4¼	4¾	13/8	61/16	69/16	7½
	13/8 •	15/8			2¾			15/8	65/16	613/16	8
	1¾ •	2			3			17/8	69/16	71/16	8½
	2	2¼			3⅞			2	611/16	73/16	8¾
4	1 •	1⅛	2½		2½	4¼	4¾	13/8	61/16	69/16	7½
	13/8 •	15/8			2¾			15/8	65/16	613/16	8
	1¾ •	2			3			17/8	69/16	71/16	8½
	2	2¼			3⅞			2	611/16	73/16	8¾
	2½	3			33/8			2¼	615/16	77/16	9¼
5	1 •	1⅛	2¾		2½	4½	5	13/8	63/8	67/8	7¾
	13/8 •	15/8			2¾			15/8	65/8	7⅞	8¼
	1¾	2			3			17/8	67/8	73/8	8¾
	2	2¼			3⅞			2	7	7½	9
	2½	3			33/8			2¼	7¼	7¾	9½
	3	3½			33/8			2¼	7¼	7¾	9½
	3½	3½			33/8			2¼	7¼	7¾	9½
6	13/8 •	15/8	3⅞		213/16	5	5½	15/8	73/16	711/16	8¾
	1¾ •	2			31/16			17/8	77/16	715/16	9¼
	2 •	2¼			33/16			2	79/16	81/16	9½
	2½	3			37/16			2¼	713/16	85/16	10
	3	3½			37/16			2¼	713/16	85/16	10
	3½	3½			37/16			2¼	713/16	85/16	10
	4	4			37/16			2¼	713/16	95/16	10

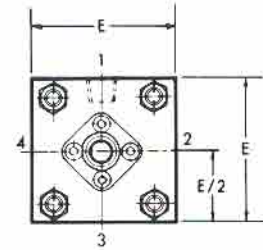
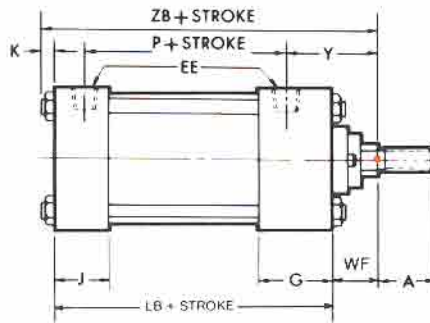
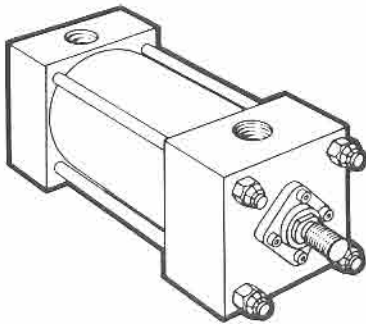
▲ See Table A on page 27 for bore and rod combinations using head plates with threaded bronze glands.

# NOPAK

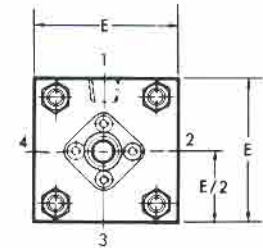
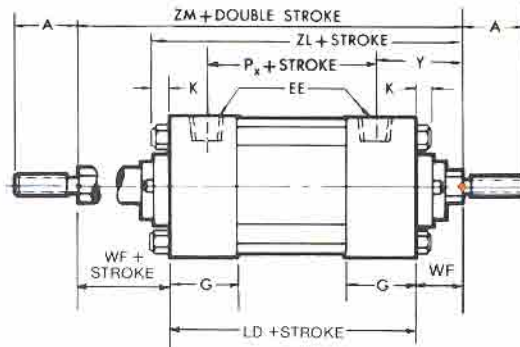
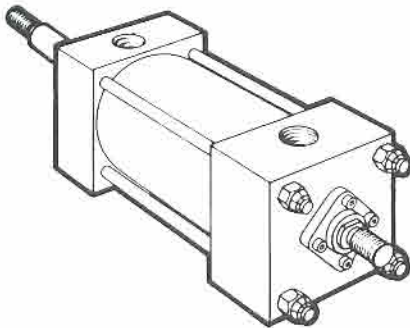
## BASIC MODEL NO MOUNT CYLINDER

8" THROUGH 20" DIA.

### MODEL H (USA STD. NONE)



### MODEL XH (USA STD. NONE)



**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.

BORE DIA.	E	G	J	K	EE
8	8½	2	1½	5/8	¾
10	10 <sup>5</sup> / <sub>8</sub>	2¼	2	¾	1
12	12¾	2¼	2	¾	1
14	14¾	2¾	2¼	7/8	1¼
16	17½	3	3	1	1¼
18	19½	3 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	1½
20	21¾	3 <sup>15</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	1¼	2

**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, Model H only.
- \* For piston rod dimensions see page 32.

BORE DIA.	*ROD MM	A	P	Y	LB	LD	WF	ZB	ZL	ZM	
8	1 <sup>3</sup> / <sub>8</sub> •	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>13</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	
	1 <sup>3</sup> / <sub>4</sub>	2		3 <sup>1</sup> / <sub>16</sub>			1 <sup>7</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	
	2	2 <sup>1</sup> / <sub>4</sub>		3 <sup>3</sup> / <sub>16</sub>			2	7 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	9 <sup>5</sup> / <sub>8</sub>	
	2 <sup>1</sup> / <sub>2</sub>	3		3 <sup>7</sup> / <sub>16</sub>			5 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	8	8 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>8</sub>
	3	3 <sup>1</sup> / <sub>2</sub>									
	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>									
	4	4									
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>										
10	1 <sup>3</sup> / <sub>4</sub> •	2	4	3 <sup>3</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	9	9 <sup>1</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>8</sub>	
	2	2 <sup>1</sup> / <sub>4</sub>		3 <sup>5</sup> / <sub>16</sub>			2	9 <sup>1</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	10 <sup>5</sup> / <sub>8</sub>	
	2 <sup>1</sup> / <sub>2</sub>	3		3 <sup>9</sup> / <sub>16</sub>			2 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	
	3	3 <sup>1</sup> / <sub>2</sub>									
	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>									
	4	4									
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>									
12	2 •	2 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	2	9 <sup>5</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	
	2 <sup>1</sup> / <sub>2</sub>	3		3 <sup>9</sup> / <sub>16</sub>			2 <sup>1</sup> / <sub>4</sub>	9 <sup>7</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	11 <sup>5</sup> / <sub>8</sub>	
	3	3 <sup>1</sup> / <sub>2</sub>									
	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>									
	4	4									
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>									
14	2 <sup>1</sup> / <sub>2</sub>	3	5 <sup>1</sup> / <sub>2</sub>	3 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>8</sub>	8 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>8</sub>	
	3	3 <sup>1</sup> / <sub>2</sub>									
	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>									
	4	4									
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>									
16	2 <sup>1</sup> / <sub>2</sub>	3	5 <sup>7</sup> / <sub>8</sub>	3 <sup>15</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>	
	3	3 <sup>1</sup> / <sub>2</sub>									
	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>									
	4	4									
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>									
18	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	6	4 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>4</sub>	
	4	4									
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>									
20	4	4	7 <sup>1</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	16 <sup>1</sup> / <sub>4</sub>	
	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>									
	5	5									
	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>									