

## Fig. 222, C-222

### Mini-Sway Strut Assembly

**Finish:** Painted or Galvanized

**Service:** Used to restrain movement of piping in one direction while allowing movement in the other two directions.

**How to size:**

- (1) Select size consistent with max. load to be restrained.
- (2) C to C is obtained by subtracting E and A from the distance from structural steel to center of pipe. Verify that the calculated C to C is within the min/max limits.

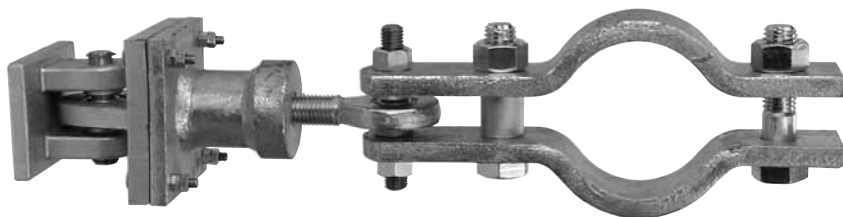
**Installation:** Shipped assembled. Securely fasten bracket to structure, make necessary adjustment in overall length, and fasten clamp to pipe.

**Features:**

- Assembly provides a shorter C to C dimension.
- Effective under either tensile or compressive force.
- Self-aligning bushings permit  $\pm 5$  misalignment or angular motion. Bushings are coated with a dry lubricant.

**Ordering:** Specify assembly size, figure number, name, finish, pipe O.D. or option number, if other than standard, and load. Ex: Size A-1, Fig. 222 mini sway strut 10 <sup>3</sup>/<sub>4</sub> O.D. pipe, 650#. Alloy pipe clamps are available as a special order. For restraint parallel to the pipe axis using two sway strut assemblies, a riser clamp is available. Contact your Anvil representative for information about this clamp.

**Note:** The rear bracket assembly can be ordered separately



E-TAKE OUT: DIMENSIONS (IN)			
Pipe Size	Size A	Size B & C	Size 1
¾	2 <sup>7</sup> / <sub>16</sub>	–	–
1	2 <sup>9</sup> / <sub>16</sub>	–	–
1¼	2 <sup>11</sup> / <sub>16</sub>	–	–
1½	4 <sup>1</sup> / <sub>8</sub>	–	–
2	5 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>
2½	5 <sup>5</sup> / <sub>8</sub>	7	7
3	5 <sup>15</sup> / <sub>16</sub>		
3½	6 <sup>3</sup> / <sub>16</sub>		
4	6½	7¼	7¼
5	7¾	7¾	7¾
6	8 <sup>5</sup> / <sub>8</sub>	8 <sup>5</sup> / <sub>8</sub>	8 <sup>5</sup> / <sub>8</sub>
8	9 <sup>5</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>
10	10½	10½	10½
12	–	11 <sup>7</sup> / <sub>8</sub>	11 <sup>7</sup> / <sub>8</sub>
14	–	12 <sup>5</sup> / <sub>8</sub>	12 <sup>5</sup> / <sub>8</sub>
16	–	13 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>
18	–	14 <sup>5</sup> / <sub>8</sub>	14 <sup>5</sup> / <sub>8</sub>
20	–	15¾	15¾
24	–	18 <sup>1</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>8</sub>
30	–	21¼	21¼
36	–	24	24

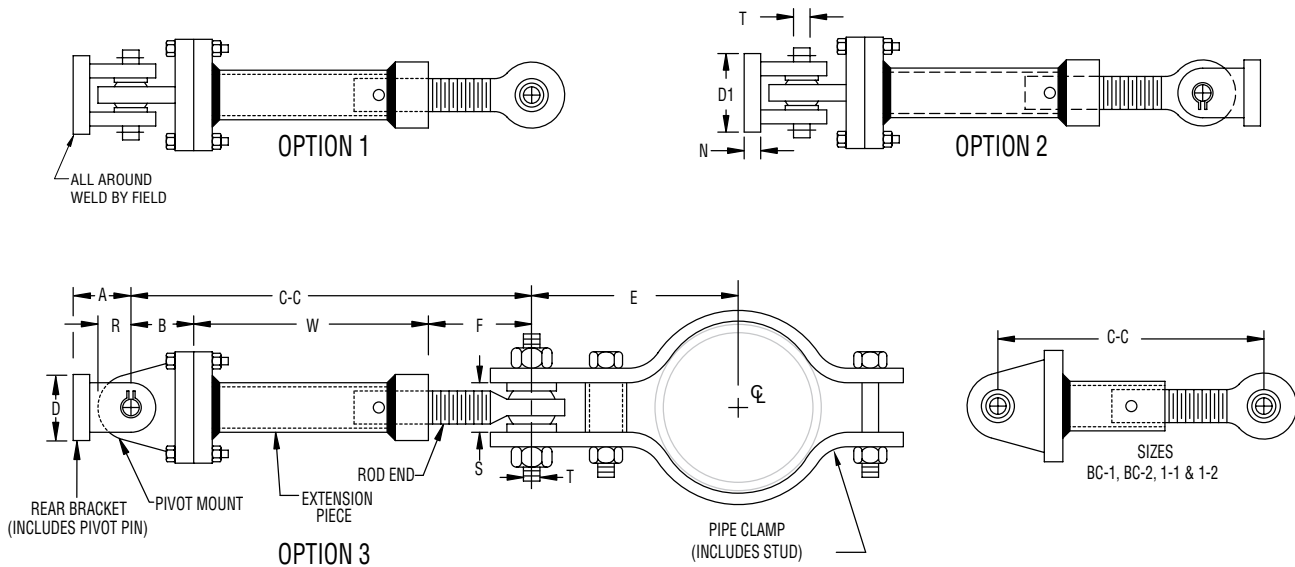
**Note:** "E" Dimensions are for carbon steel clamps only, with maximum insulation of 4" and temperature of 650°. For clamp takeouts for temperatures above 650°F, see corresponding size of Fig. 211.

- Straps
- Pipe Supports
- Trapeze
- Pipe Shields & Saddles
- Pipe Roll
- Pipe Guides & Slides
- Sway Brace Seismic
- Spring Hangers
- Constant Supports
- Vibration Control & Sway Brace
- Sway Strut Assembly**
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# SWAY STRUT ASSEMBLY

## Fig. 222, C-222

## Mini-Sway Strut Assembly (cont.)



### FIG. 222, C-222: LOADS (LBS) • DIMENSIONS (IN)

Assembly Size	Load	C-C		F		W	Rod End	A	D	D1	N	R	S	T Nom.	B		
		Max	Min	Max	Min												
A	A-1	650	6 <sup>5</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>8</sub>	3/4	1	2	1 <sup>1</sup> / <sub>4</sub>	1/4	5/8	5/8	3/8	1 <sup>3</sup> / <sub>16</sub>	
	A-2		8 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>											3 <sup>1</sup> / <sub>16</sub>
	A-3		13 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>											5 <sup>13</sup> / <sub>16</sub>
B & C	BC-1	4,500	6 <sup>1</sup> / <sub>2</sub>	6	2 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1	2 <sup>1</sup> / <sub>2</sub>	2	2 <sup>3</sup> / <sub>8</sub>	5/8	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	3/4	2 <sup>1</sup> / <sub>8</sub>	
	BC-2		7 <sup>3</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>											2 <sup>1</sup> / <sub>8</sub>
	BC-3		8 <sup>11</sup> / <sub>16</sub>	7 <sup>9</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>											2 <sup>3</sup> / <sub>4</sub>
	BC-4		10 <sup>15</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>											3 <sup>7</sup> / <sub>8</sub>
	BC-5		15 <sup>7</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>											6 <sup>1</sup> / <sub>8</sub>
	BC-6		19 <sup>9</sup> / <sub>16</sub>	15 <sup>7</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>8</sub>											8 <sup>3</sup> / <sub>16</sub>
1	1-1	8,000	8 <sup>7</sup> / <sub>8</sub>	8	3 <sup>11</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	2	2 <sup>7</sup> / <sub>8</sub>	3/4	1 <sup>9</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>4</sub>	
	1-2		10 <sup>9</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>											3 <sup>13</sup> / <sub>16</sub>
	1-3		11 <sup>7</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	4 <sup>13</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>											4 <sup>13</sup> / <sub>16</sub>
	1-4		15 <sup>5</sup> / <sub>8</sub>	11 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>											6 <sup>7</sup> / <sub>16</sub>
	1-5		21 <sup>5</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	9 <sup>11</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>											9 <sup>11</sup> / <sub>16</sub>

■ Loads must not be applied outside a 10° included angle cone of action to the pipe clamp axis without special authorization.