

**Fig. 222: Standard**

**Fig. C-222: Corrosion Resistant**

## 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.

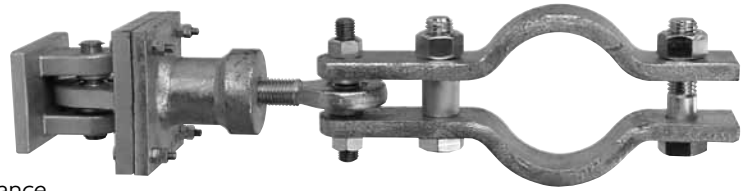
**Features:**

- 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 3/4 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



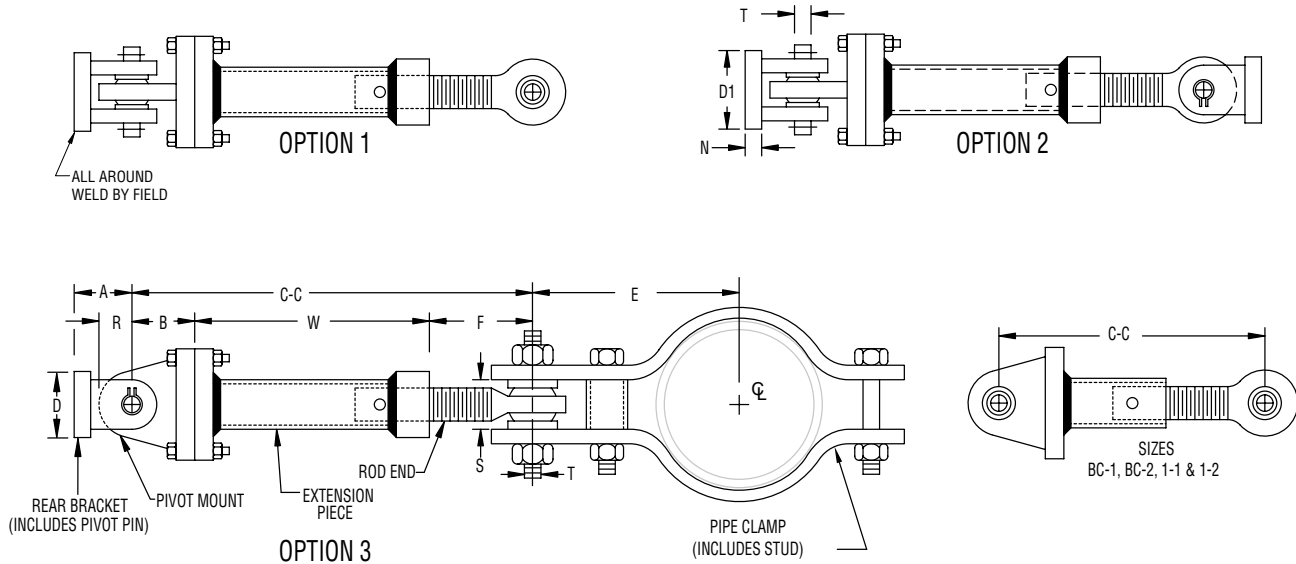
E-TAKE OUT: DIMENSIONS (IN)			
Pipe Size	Size A	Size B & C	Size 1
3/4	2 7/16	–	–
1	2 9/16	–	–
1 1/4	2 11/16	–	–
1 1/2	4 1/8	–	–
2	5 1/8	6 3/8	6 3/8
2 1/2	5 3/8	7	7
3	5 15/16		
3 1/2	6 3/16		
4	6 1/2	7 1/4	7 1/4
5	7 3/4	7 3/4	7 3/4
6	8 3/8	8 3/8	8 3/8
8	9 3/8	9 3/8	9 3/8
10	10 1/2	10 1/2	10 1/2
12	–	11 7/8	11 7/8
14	–	12 5/8	12 5/8
16	–	13 5/8	13 5/8
18	–	14 5/8	14 5/8
20	–	15 3/4	15 3/4
24	–	18 1/8	18 1/8
30	–	21 1/4	21 1/4
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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Date:			
Notes 1:			
Notes 2:			

## 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>3</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	1 <sup>9</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>											
	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>3</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>											
	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>11</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>											3 <sup>3</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>5</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>1</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>1</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.