

# SWAY STRUT ASSEMBLY

**Fig. 211, Fig. C-211**

**Fig. 640, Fig. C-640: Field Welded Strut**

## Sway Strut Assembly

**Finish:** Painted (Fig. 211 & Fig. 640)

or Galvanized (Fig. C-211 & C-640)

**Service:** Used to restrain movement of piping while allowing for 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.
- (3) Determine W dimension by:  $W=(C \text{ to } C)-2F$ .

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

**Features:**

- Effective under either tensile or compressive force.
- Provides 3 1/2" (Fig. 211) or 2" (Fig. 640) of field adjustment in either direction.
- Self-aligning bushings permits  $\pm 5^\circ$  misalignment or angular motion. Bushings are coated with a dry lubricant.

**Ordering:** Specify figure number, assembly size, name, option number, normal pipe size or special O.D., and "W" dimension.

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. If a riser clamp is required, consult the nearest 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 & 2	Size 3	Size 4	Size 5	Size 6	Size 7	Size 8		
3/4	2 <sup>7</sup> / <sub>16</sub>	–	–	–	–	–	–	–	–		
1	2 <sup>9</sup> / <sub>16</sub>	–	–	–	–	–	–	–	–		
1 1/4	2 <sup>11</sup> / <sub>16</sub>	–	–	–	–	–	–	–	–		
1 1/2	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>	–	–	–	–	–	–		
2 1/2	5 <sup>3</sup> / <sub>8</sub>	7	7	8 <sup>1</sup> / <sub>8</sub>	–	–	–	–	–		
3	5 <sup>15</sup> / <sub>16</sub>				–	–	–	–	–	–	–
3 1/2	6 <sup>3</sup> / <sub>16</sub>				–	–	–	–	–	–	–
4	6 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>8</sub>	–	10	–	–	–		
5	7 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>		–	–	–	–	
6	8 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>8</sub>	10	10		11 <sup>1</sup> / <sub>8</sub>	–	–	–	
8	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	12 <sup>5</sup> / <sub>8</sub>	–	–		
10	10 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>4</sub>	16 <sup>1</sup> / <sub>4</sub>		
12	–	11 <sup>1</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	15 <sup>3</sup> / <sub>8</sub>	15 <sup>3</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>4</sub>		
14	–	12 <sup>5</sup> / <sub>8</sub>	12 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	16	16 <sup>1</sup> / <sub>4</sub>	18		
16	–	13 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	15 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	17 <sup>1</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>2</sub>	19		
18	–	14 <sup>5</sup> / <sub>8</sub>	14 <sup>5</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>4</sub>		
20	–	15 <sup>3</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	19 <sup>3</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>		
24	–	18 <sup>1</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>4</sub>	21 <sup>3</sup> / <sub>4</sub>	24		
30	–	21 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>4</sub>	23	23	23	25	25	28		
36	–	24	24	26 <sup>1</sup> / <sub>2</sub>	26 <sup>1</sup> / <sub>2</sub>	26 <sup>1</sup> / <sub>2</sub>	28 <sup>1</sup> / <sub>8</sub>	28 <sup>3</sup> / <sub>8</sub>	31 <sup>1</sup> / <sub>4</sub>		