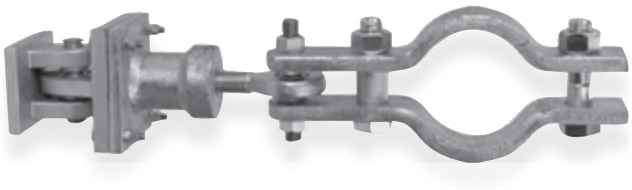
Sway Strut Assembly

ASC Engineered Solutions

☐ **Fig. 222** Standard Mini-Sway Strut Assembly
☐ **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 ± 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 10¾ 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 ASC Engineering Solutions™ 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 7/16	–	–
1	2 9/16	–	–
1¼	2 11/16	–	–
1½	4 1/8	–	–
2	5 1/8	6 3/8	6 3/8
2½	5 3/8	7	7
3	5 15/16		
3½	6 3/16		
4	6½	7¼	7¼
5	7¾	7¾	7¾
6	8 3/8	8 3/8	8 3/8
8	9 3/8	9 3/8	9 3/8
10	10½	10½	10½
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	–	15¾	15¾
24	–	18 1/8	18 1/8
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.

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PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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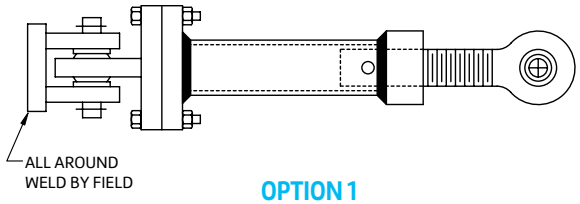
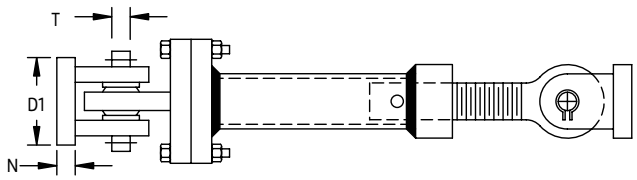
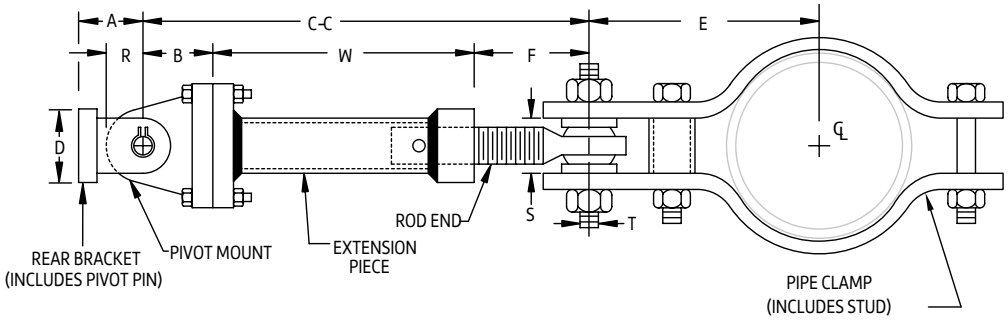
Fig. 222 Standard Mini-Sway Strut Assembly
Fig. C-222 Corrosion Resistant Mini-Sway Strut Assembly



OPTION 1



OPTION 2



OPTION 3

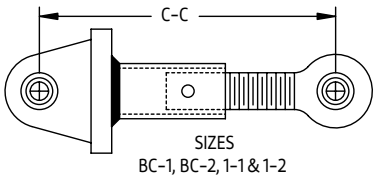


Fig. 222, C-222 Loads (lbs) • **Dimensions** (in)

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 5/8	5 3/8	2 13/16	1 9/16	2 5/8	¾	1	2	1¼	¼	⅝	⅝	⅜	1 3/16
	A-2		8½	6½	4¼	2¼	3 1/16									
	A-3		13¼	8½	6¼	1½	5 13/16									
B & C	BC-1	4,500	6½	6	2⅞	2⅜	1½	1	2½	2	2⅜	⅝	1⅜	1⅜	¾	2⅛
	BC-2		7¾	6⅝	3½	2⅜	2⅛									
	BC-3		8 11/16	7 9/16	3 13/16	2 11/16	2¾									
	BC-4		10 15/16	8 11/16	4 15/16	2 11/16	3⅞									
	BC-5		15 7/16	10 15/16	7 3/16	2 11/16	6⅛									
	BC-6		19 9/16	15 7/16	9¼	5⅛	8 3/16									
1	1-1	8,000	8⅞	8	3 11/16	2 13/16	2 15/16	1¼	2½	2	2⅞	¾	1 9/16	1⅜	1	2¼
	1-2		10⅝	8⅞	4 9/16	2 13/16	3 13/16									
	1-3		11⅞	10¼	4 13/16	3 3/16	4 13/16									
	1-4		15⅛	11⅞	6 7/16	3 3/16	6 7/16									
	1-5		21⅝	15⅛	9 11/16	3 3/16	9 11/16									

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