

Fig. AF771 (Formerly Anvil Fig. 771) Sway Brace Swivel Attachment

Size Range: Brace Pipe: 1" or 1 1/4" Sch. 40
Anchor Size: 1/2" through 3/4"

Material: Ductile Iron with Carbon Steel Hardware

Finish: Plain or Electro-Galvanized per ASTM B633

Service: A seismic swivel attachment designed to connect brace pipe to the building structure or to a seismic structural attachment. The Sway Brace Swivel Attachment rigidly braces piping systems subjected to horizontal seismic loads. The Sway Brace Swivel Attachment may also be installed to rigidly brace piping systems subjected to vertical seismic loads. For vertical load capacities, reference OSHPD OPM-0351-13.

Approvals: cULus Listed (UL 203a) and FM Approved (FM 1950-10 & FM 1950-13). OSHPD Pre-Approved (OPM-0351-13 and OPA-2804-10). Complies with the hanging and bracing requirements listed in NFPA 13.

Features:

- Field adjustable design requires no threading of the brace pipe
- Shear off bolt provides a visual indication that the desired torque value has been achieved
- True concentric loading of the brace pipe

Installation Instructions:

- Insert anchor through the mounting hole and into the structure or seismic structural attachment.
- For connection to Fig. AF772, AF778, and AF779 seismic structural attachments, the bolt and nuts shall be installed wrench tight (typically finger tight plus 1/4 to 1/2 turns).
- For connection to concrete, wood, timber, steel, and other structures, install fasteners per the fastener manufacturer's installation instructions.
- Insert Sch. 40 brace pipe into the brace socket until the brace pipe bottoms out.
- Torque shear off bolt until head shears off.
- Check the cross bolt and nut and ensure the nut is wrench tight.
- Fire Protection applications shall also be installed per the requirements of NFPA 13 and local codes.

Ordering: Specify brace pipe size, fastener size, figure number, finish and description.

Notes: Anvil International® brand bracing components are designed to be compatible ONLY with other Anvil International® brand bracing components, resulting in a Listed seismic bracing assembly. Updated UL listing information may be viewed at www.ul.com and updated FM approval information may be viewed at www.approvalguide.com.

Disclaimer: Anvil International ("Anvil") does not provide any warranties and specifically disclaims any liability whatsoever with respect to Anvil bracing products and components that are used in combination with products, parts or systems not manufactured or sold by Anvil. In no event shall Anvil be liable for any incidental, direct, consequential, special or indirect damages or lost profits where non-Anvil bracing components have been, or are used.

SeisBrace® Seismic Fire Protection Design Tool may be accessed at www.seisbrace.com



osHPD
OPM-0351-13



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. AF771 (Formerly Anvil Fig. 771) Sway Brace Swivel Fitting (cont.)

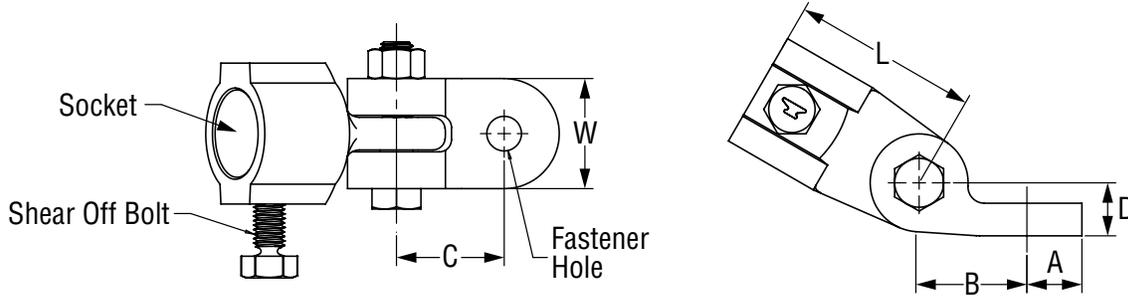


FIG. AF771: DIMENSIONS (IN) • WEIGHT (LBS)

Brace Pipe Size	Fastener Size	A	B	C	D	W	L	Socket Depth	Weight
1	1/2 - 3/4	0.84	1.65	1.65	0.81	1 11/16	2 7/8	1 3/8	1.95
1 1/4							3		2.28

FIG. AF771 cULus MAX SEISMIC HORIZONTAL LOADS: DIMENSIONS (IN) • LOADS (LBS)

Brace Pipe Size	Fastener Size	Max Seismic Brace Load	Max Service Pipe Size
1 - 1 1/4	1/2	2765	8
	5/8		10
	3/4	3740	12

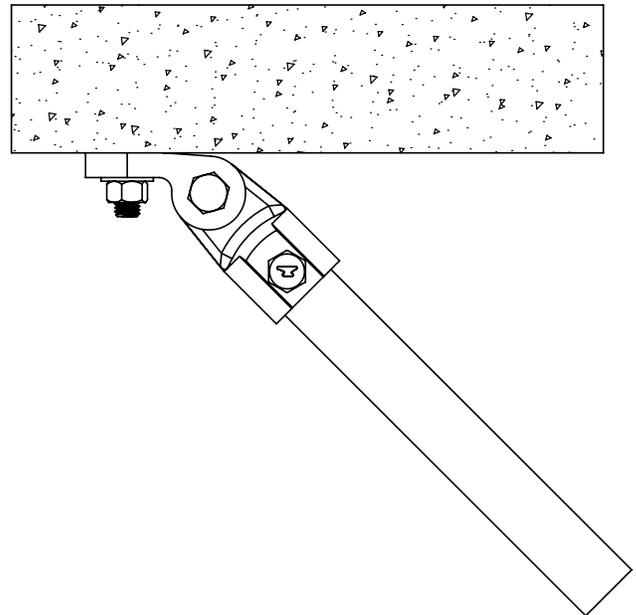


FIG. AF771 FM MAX SEISMIC HORIZONTAL ASD LOADS: DIMENSIONS (IN) • LOADS (LBS)**

Brace Pipe Size	Fastener Size	Max Seismic Brace Load at Brace Pipe Angle*			
		30-44	45-59	60-74	75-90
1 - 1 1/4	1/2	1820	2540	3110	3470
	5/8	1520	2150	2630	2930
	3/4				

* Brace Pipe Angles are determined from vertical.

**The allowable FM approved capacity of brace subassemblies are listed in Allowable Stress Design (ASD). For Load Resistance Factor Design (LRFD) capacities, the above values will need to be multiplied by 1.5.

FIG. AF771 HORIZONTAL PRYING FACTORS (Pr) PER NFPA: ANGLES (DEG)

Brace Orientation*	A	B	C	D	E	F	G	H	I
Brace Angle**	30-44	45-59	60-90	30-44	45-59	60-90	30-44	45-59	60-90
Prying Factor (Pr)	4.171	2.000	0.965	1.966	2.385	2.965	1.929	1.364	1.114

* Brace Orientation per NFPA 13-2016 Figure 9.3.5.12.1.

** Brace Pipe Angles are determined from vertical.