

# Fig. AF076 (Formerly Afcon Fig. 076) Sway Brace Swivel Attachment

**Size Range:** Brace Pipe: 1" through 2", DN25 through DN50  
Anchor Size: 1/2"

**Material:** Ductile Iron Jaw with Carbon Steel Baseplate and 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 lateral seismic loads.

**Approvals:** cULus Listed (UL 203a) and FM Approved (FM 1950-10 & FM 1950-13). Complies with the hanging and bracing requirements listed in NFPA 13.

**Features:**

- One universal jaw allows for attachment to multiple brace pipe sizes.
- Field adjustable design requires no threading of the brace pipe.
- Shear off set screw provides a visual indication that the desired torque value has been achieved.

**Installation Instructions:**

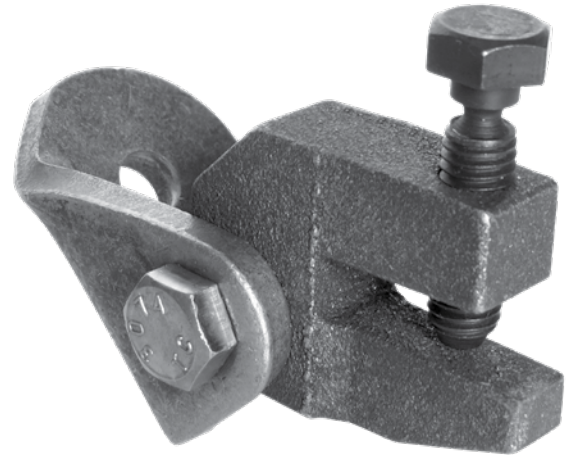
- Insert anchor through the mounting hole and into the structure or seismic structural attachment.
- For connection to Fig. AF085, AF086, AF087, and AF779 seismic structural attachments, the bolt and nuts shall be installed wrench tight (typically finger tight plus 1/4 to 1/2 turns).
- For connection 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 jaw 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 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](http://www.ul.com) and updated FM approval information may be viewed at [www.approvalguide.com](http://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](http://www.seisbrace.com)**



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. AF076 (Formerly Afcon Fig. 076) Sway Brace Swivel Attachment (cont.)

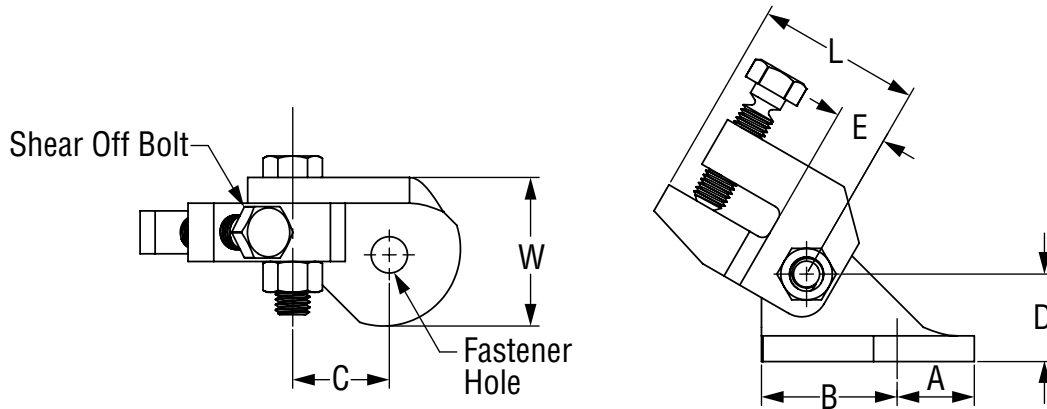


FIG. AF076: DIMENSIONS (IN) • WEIGHT (LBS)								
Fastener Size	A	B	C	D	E	L	W	Weight
1/2	1.00	1.83	1.25	1.38	3/4	2 3/8	2 1/8	1.68

FIG. AF076 cULus MAX SEISMIC HORIZONTAL LOADS: DIMENSIONS (IN) • LOADS (LBS)			
Brace Pipe Size	Fastener Size	Max Seismic Brace Load	Max Service Pipe Size
1 - 2 (DN25 - DN50)	1/2	2765	10

NPS Brace Pipe Dimensions per ASTM A53 Sch. 40, ASTM A106 Sch. 40, or equivalent.  
DN Brace Pipe Dimensions per KS D 3562 Sch. 40 or equivalent.

FIG. AF076 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 - 2 (DN25 - DN50)	1/2	1310	1810	2630	2930

NPS Brace Pipe Dimensions per ASTM A53 Sch. 40, ASTM A106 Sch. 40, or equivalent.  
DN Brace Pipe Dimensions per GB/T 3091, EN10255H, JIS G3454 Sch. 40, KS D 3562 Sch. 40, or equivalent.

\* 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.

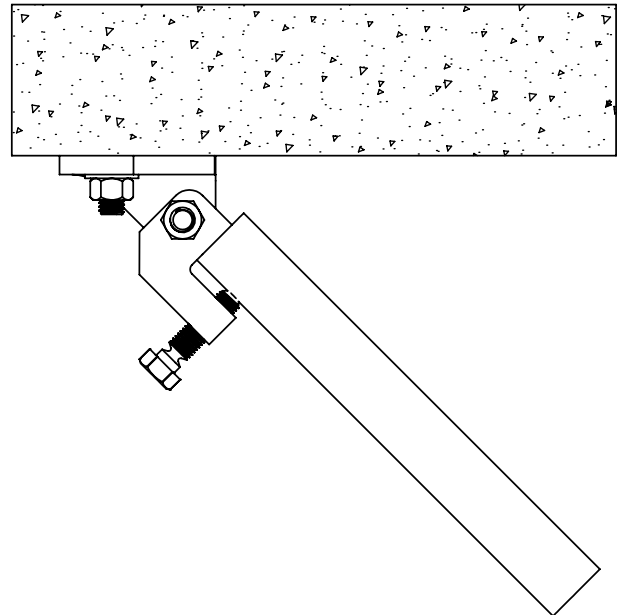


FIG. AF076 HORIZONTAL PRYING FACTORS (Pr) PER NFPA: ANGLES (DEG)									
Brace Orientation*	A	B	C	D	E	F	G	H	I
Brace Angle**	30-44	45-59	60-90	30-44	45-59	60-90	30-44	45-59	60-90
Prying Factor (Pr)	3.724	2.150	1.375	2.150	2.150	2.250	2.750	1.945	1.588

\* Brace Orientation per NFPA 13-2016 Figure 9.3.5.12.1.

\*\* Brace Pipe Angles are determined from vertical.