

Fig. AF001 (Formerly Anvil Fig. 770 & Afcon Fig. 001/020) Q Brace Clamp

Size Range: Service Pipe: 1" through 6", Brace Pipe: 1" or 1 1/4" Sch. 40

Material: Carbon steel

Finish: Plain or Electro-Galvanized per ASTM B633

Service: Designed to rigidly brace and restrain piping systems subjected to lateral seismic loads. May also be installed to 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.

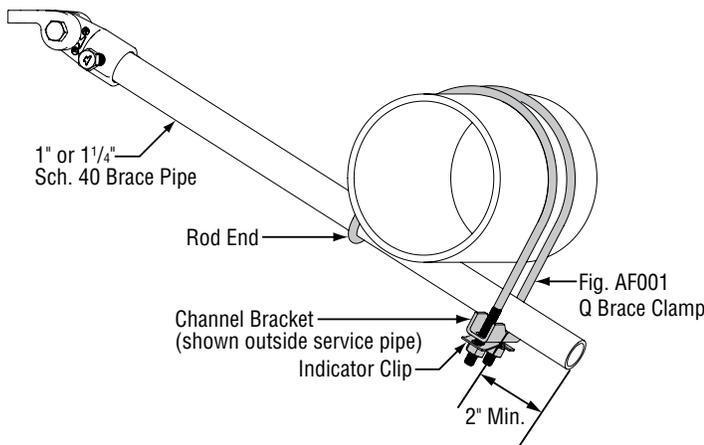
Features:

- Field adjustable design requires no threading of the brace pipe
- Indicator clip provides a visual indication that the desired torque value has been achieved

Installation Instructions:

- Place the 3/8" diameter threaded rod hoop over the service pipe and slide the Sch. 40 brace pipe through the open ends of the threaded rod hoop. The end of the brace pipe must extend at least 2" past the channel bracket.
- Note: The brace pipe may be installed above or below the service pipe.
- Ensure brace pipe is set to the desired installation brace angle.
- Torque hex nuts alternately and equally to the listed torque. Ensure the indicator clip is completely flattened and the brace pipe is tight against the service pipe.
- For riser/4-way brace installations, two Q Brace clamps must be installed within 6" of each other.
- Fire Protection applications shall also be installed per the requirements of NFPA 13 and local codes.

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



**Typical Assembly
(Brace Pipe Below Service Pipe)**



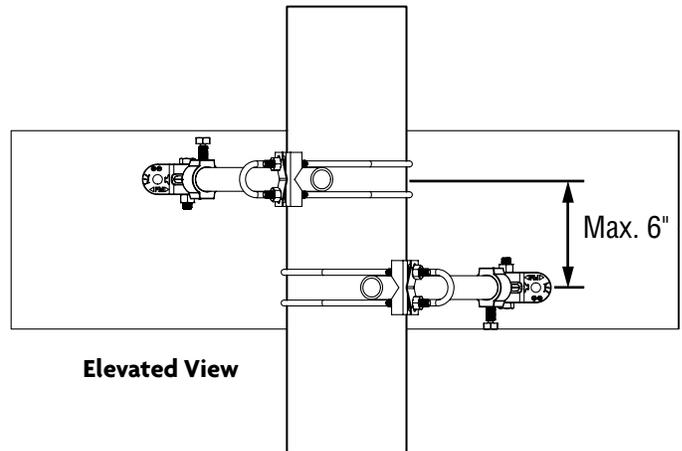
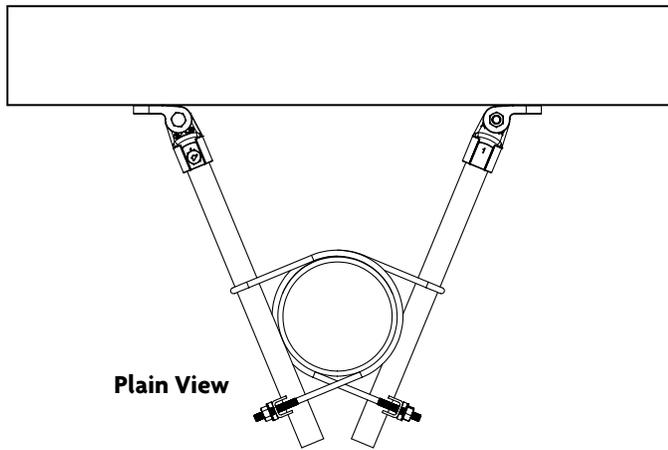
Notes: Anvil International® brand bracing components are designed to be compatible ONLY with other Anvil International® brand bracing components, resulting in a Listed seismic bracing assembly. Updated UL listing information may be viewed at www.ul.com and updated FM approval information may be viewed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

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. AF001 (Formerly Anvil Fig. 770 & Afcon Fig. 001/020) Q Brace Clamp (cont.)



Riser/4-Way Brace Assembly

FIG. AF001 cULus & FM INSTALLATION TORQUE: DIMENSIONS (IN) • TORQUE (FT•LBS) • WEIGHT (LBS)

Service Pipe Size	Installation Torque	1" Brace Pipe Weight	1 1/4" Brace Pipe Weight
1	14	0.82	0.87
1 1/4		0.86	0.90
1 1/2		0.90	0.95
2	16	0.96	1.00
2 1/2		1.02	1.06
3		1.09	1.13
4	17	1.23	1.26
5		1.32	1.36
6		1.49	1.53

FIG. AF001 cULus MAX SEISMIC LATERAL LOADS: DIMENSIONS (IN) • LOADS (LBS)

Service Pipe Size	Brace Pipe Size	Max Seismic Brace Load		Max Seismic Restraint Load
		Schedule 10	Schedule 40	
1	1 - 1 1/4	-	1000	1000
1 1/4 - 2		1000		
2 1/2 - 4		1600	1600	
5	1	1600	1600	-
6	1 - 1 1/4	1600	1600	-

FIG. AF001 FM MAX SEISMIC LATERAL ASD LOADS*: DIMENSIONS (IN) • LOADS (LBS) • ANGLES (DEGREES)**

Service Pipe Size	Brace Pipe Size	Pipe Schedule	Max Seismic Brace Load at Brace Pipe Angle**			
			30 - 44	45 - 59	60 - 74	75 - 90
1 - 3	1 - 1 1/4	LW*	250	360	440	500
		Schedule 10	570	810	1000	1100
		Schedule 40				
4 - 5	1 - 1 1/4	LW*	410	590	720	800
		Schedule 10	760	1070	1320	1470
		Schedule 40				
6	1 - 1 1/4	LW*	250	360	440	500
		Schedule 10	770	1090	1340	1490
		Schedule 40				

* Load Rating for LW above refers to FM Approved Lightwall pipe, commonly referred to as Sch. 7 and Flow Pipe. See FM Approval Guide for approved Lightwall pipe.

** 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.