

# Fig. AF035 (Formerly Afcon Fig. 035)

## Model K Brace Clamp

**Size Range:** Service Pipe: 1" through 12", Carbon Steel: 1" through 3" CPVC  
Brace Pipe: 1" through 2" Sch. 40

**Material:** Carbon Steel Strap and Ductile Iron Cast Hoop Ends

**Finish:** ☐ Plain or ☐ Electro-Galvanized per ASTM B633

**Service:** Designed to rigidly brace 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:**

- Unique design provides solutions for carbon steel and CPVC pipe.
- Beveled edge design helps protect the CPVC pipe from any rough surface and eliminates pipe abrasion.
- Large installation hole in the cast hoop ends allows the brace pipe to pass through easily without interference.
- Visual indication of proper assembly when the head of the set screw bottoms out on the cast hoop ends.

**Installation Instructions:**

- Place the Model K Brace Clamp over the service pipe to be braced and slide the Sch. 40 brace pipe through the cast hoop ends. The end of the brace pipe must extend at least 1" past the cast hoop ends.
- 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 the set screws alternately and equally until the head of the set screw bottoms out on the cast hoop ends.
- For riser/4-way brace installations, two Model K Brace Clamps must be installed within 6" of each other.
- For CPVC installation, ensure the legs of the Model K Brace Clamp strap are parallel to each other and perpendicular to the brace pipe prior to installation.
- Fire Protection applications shall also be installed per the requirements of NFPA 13 and local codes.

**Patents:** No. 7,516,922, No. 7,523,895

**Ordering:** Specify service pipe size, brace pipe 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](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. AF035** (Formerly Afcon Fig. 035)

**Model K Brace Clamp (cont.)**

<b>FIG. AF035: DIMENSIONS (IN) • WEIGHT (LBS)</b>				
Service Pipe Size	1" Brace Pipe Weight	1 1/4" Brace Pipe Weight	1 1/2" Brace Pipe Weight	2" Brace Pipe Weight
1	1.60	1.80	2.00	2.28
1 1/4	1.68	1.88	2.08	2.36
1 1/2	1.64	1.84	2.04	2.32
2	1.88	2.08	2.28	2.56
2 1/2	1.90	2.10	2.30	2.58
3	2.10	2.30	2.50	2.78
4	2.20	2.40	2.60	2.88
5	3.40	3.60	3.80	4.08
6	3.90	4.10	4.30	4.58
8	4.80	5.00	5.20	5.48
10	5.60	5.80	6.00	6.28
12	—	6.36	6.56	6.84

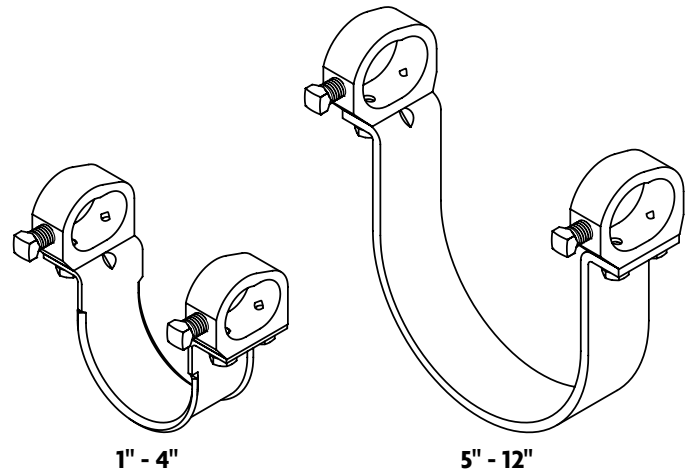
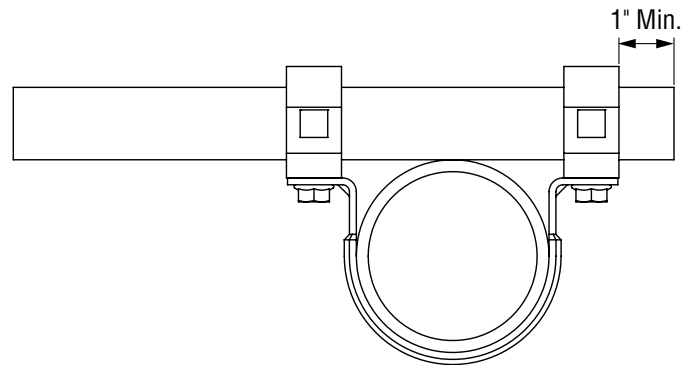


FIG. AF035 cULus MAX SEISMIC LATERAL LOADS: DIMENSIONS (IN) • LOADS (LBS)				
Service Pipe Size	Brace Pipe Size	Max Seismic Brace Load		
		Specialty*	Schedule 10	Schedule 40
1 - 4	1 - 2	2765	2765	2765
5 - 10		—		
12	1¼ - 2			3740

\* Specialty pipes are commonly referred to as Sch. 7 and Flow Pipe. Please visit the UL listing on the UL website for a complete list of listed specialty pipes.

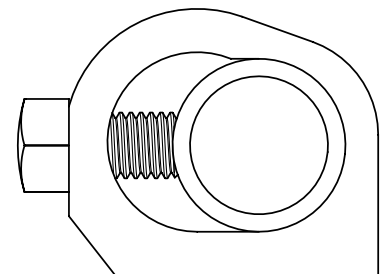


<b>FIG. AF035 FM MAX SEISMIC LATERAL ASD LOADS***: DIMENSIONS (IN) • LOADS (LBS) • ANGLES (DEGREES)</b>						
Service Pipe Size	Brace Pipe Size	Pipe Schedule	Max Seismic Brace Load at Brace Pipe Angle**			
			30 - 44	45 - 59	60 - 74	75 - 90
1 - 1 1/2	1 - 2	LW* – Sch. 40	1680	2380	2920	3250
2 - 3		LW* – Sch. 40	1800	2550	3120	3490
4		LW* – Sch. 40	1370	1930	2370	2640
5 - 8		Sch. 10 – Sch. 40	730	1040	1270	1420

\* 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.



**Set Screw Installation**