

## Fig. 776

## Brace Clamp

**Size Range:** Service Pipe: 2½" through 8" Sch. 10 and Sch. 40 IPS  
 Service Pipe: 2½" through 6" FM Approved Flow Pipe  
 Brace Pipe: 1" or 1¼" Sch. 40 IPS

**Material:** Carbon steel

**Finish:**  Plain or  Zinc Plated

**Service:** Used to rigidly brace piping systems subjected to sway and seismic disturbances. Pipe clamp component of Anvil's 700 series sway brace assembly. Utilized only as a lateral brace clamp.

**Approvals:** FM Approved (FM 1950:2010). Complies with seismic bracing requirements of NFPA-13. Office of Statewide Health Planning and Development (OSHPD) State of California approved.

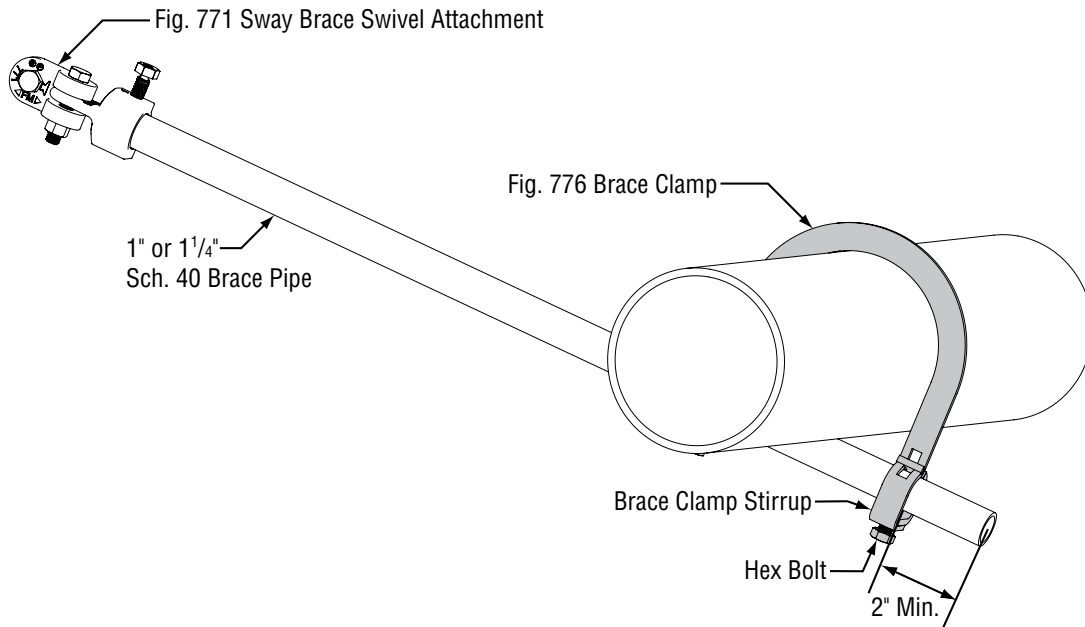
**Features:**

- Used to brace schedules 10 IPS, 40 IPS, and Flow pipe
- Field adjustable design requires no threading of bracing pipe
- Can be used as a component of a four-way brace support
- Brace clamp design for installation of brace pipe above or below horizontal service pipe.

**Installation Instructions:**

1. Installation of this component must be a minimum of 6" from any pipe joint, so that any deformation does not affect the pipe joint.
2. Minimum brace pipe extension 1" beyond clamp stirrup.
3. Tighten hex bolt until heads bottom out on surface

**Ordering:** Specify service pipe diameter x brace pipe diameter, figure number, name and finish.



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

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. 776

## Brace Clamp (cont.)

FIG. 776 FM MAX LOAD: LOADS (LBS) • DIMENSIONS (IN) • ANGLES (DEGREES)			
Service Pipe Size (1" or 1¼" Brace Pipe)	Brace Angle***	FM Max Load** (Horizontal)	
		Sch. 10 Sch. 40	Flow Pipe
2½	30-44	620	600
	45-59	880	850
	60-74	1000	1000
	75-90	1200	1100
3	30-44	620	520
	45-59	880	740
	60-74	1000	910
	75-90	1200	1000
4	30-44	690	520
	45-59	980	740
	60-74	1200	910
	75-90	1300	1000
5	30-44	670	520
	45-59	940	740
	60-74	1100	910
	75-90	1200	1000
6	30-44	670	560
	45-59	940	790
	60-74	1100	970
	75-90	1200	1000
8	30-44	540	–
	45-59	770	–
	60-74	940	–
	75-90	1000	–

FIG. 776: WEIGHT (LBS) • DIMENSIONS (IN)		
Service Pipe Size	Weight	
	1" Brace Pipe	1¼" Brace Pipe
2½	1.26	1.50
3	1.44	1.58
4	1.55	1.68
5	1.66	1.87
6	1.74	1.95
8	1.98	2.29

**Notes:**

- For fire protection installations - sway braces are intended to be installed in accordance with NFPA-13 and Anvil's installations instructions and local codes.
- The required type, number and size of fasteners used for the structural attachment fitting shall be in accordance with NFPA-13.
- To assure proper performance, installer is responsible for:
  - Structural integrity of attachment member to safely handle load requirements.
  - Securely tightening the component on the brace pipe.
- 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 FM approvals may be viewed at [www.fmglobal.com](http://www.fmglobal.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.

\* See FM Approvals for approved flow pipe.

\*\* The allowable FM approved capacity of brace subassemblies have been determined by resolving the load rating to the horizontal direction and dividing by a safety factor of 1.5 to allow the values to be used directly for Allowable Stress Design. For Load Resistance Factor Design (LRFD) capacities, the above values will need to be multiplied by 1.5.

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

For more detailed information on Anvil's Seismic Sway Brace for Fire Sprinkler Systems, see the OSHPD Manual in the Catalog Section of the Anvil Website, [www.anvilintl.com/literature/catalogs.aspx](http://www.anvilintl.com/literature/catalogs.aspx)

Seis Brace® Seismic Fire Protection Design Tool may be accessed at [www.seisbrace.com](http://www.seisbrace.com)