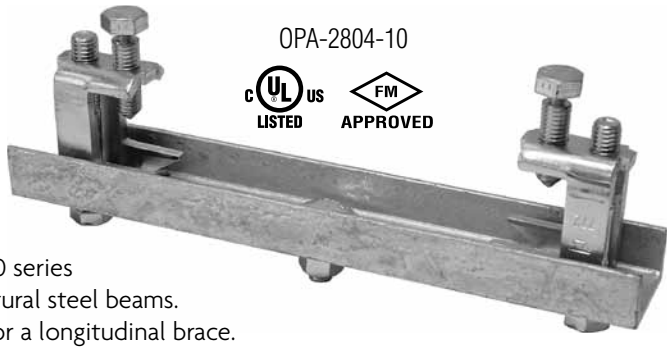
Fig. 772

Adjustable Steel Beam Attachment



Size Range: Beam Widths: 4" through 15"
Flange Thickness: 1/2" through 1 1/4"
Minimum Flange Thickness: 3/8" (FM), 1/2" (UL)
Type A: Flange Thickness Range: 1/2" - 3/4"
Type B: Flange Thickness Range: 7/8" - 1 1/4"

Material: Carbon steel

Finish: Plain or Galvanized

Service: Used to rigidly brace piping systems subjected to sway and seismic disturbances. Structural attachment component of Anvil's 700 series sway brace assembly. For attachment to the bottom flange of structural steel beams. Can be utilized as a structural connection for either a lateral brace or a longitudinal brace.

Approvals: UL and ULC Listed (UL 203A:2009), and 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.

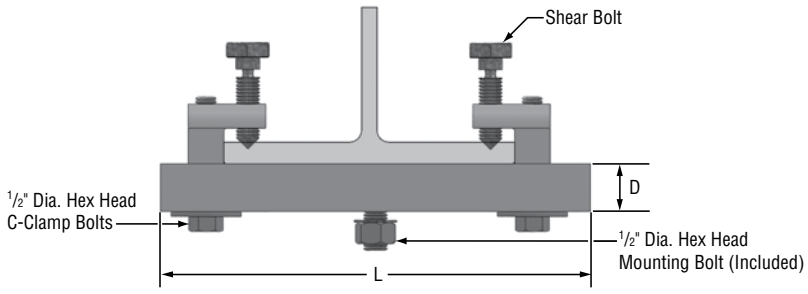
Features:

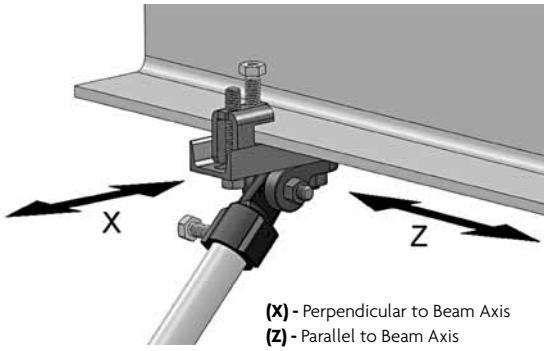
- Permits secure quick connection to a structural steel beam where drilling and/or welding of a brace connection is not allowed or is not easily accomplished.
- Adjustable sizes to insure a proper fit for a wide range of beam widths and flange thicknesses.
- Steel beam attachment is designed for concentric loadings of seismic connections and fasteners.
- Functions as a lateral or longitudinal structural connection of a sway brace assembly

Installation Instructions:

1. Place Figure 772 on structural beam by loosening 1/2" hex bolts to correctly position C-clamp bodies.
2. C-clamp bodies should fully bottom out on the flange of beam.
3. Tighten 1/2" shear bolt until the head shears off. The use of an impact wrench is not recommended.
4. Tighten 1/2" hex head bolt into C-clamp bodies until lock washers bottom out on C-channel and the required torque of 55 Ft-Lbs is achieved.
5. Attach 700 Series Anvil Brace Fittings to the center bolt and adjust orientation as needed for proper brace angle.

Ordering: Specify figure number, type, L channel Dim. (length), name and finish.





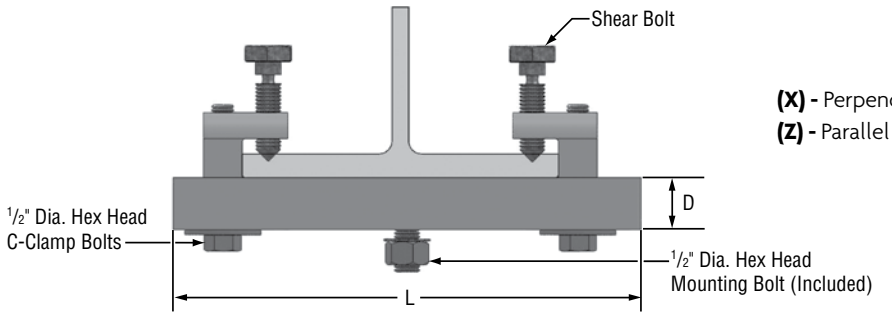
(X) - Perpendicular to Beam Axis
(Z) - Parallel to Beam Axis

FIG. 772 UL MAX LOADS: LOADS (LBS) • WEIGHT (LBS) • DIMENSIONS (IN)

Type	Length (L)	Beam Flange		Perpendicular to Beam	Parallel to Beam	D	Weight
		Width Range	Thickness Range				
A	9	4 - 7	1/2 - 3/4	1600	1000	1	3.15
	12	7 - 10					3.74
	14	9 - 12					4.19
B	9	4 - 7	7/8 - 1 1/4	1000	1000	1	3.15
	12	7 - 10					3.90
	14	9 - 12					4.35
	17	12 - 14					4.90

Fig. 772

Adjustable Steel Beam Attachment (cont.)



(X) - Perpendicular to Beam Axis
(Z) - Parallel to Beam Axis

FIG. 772 FM MAX LOADS*
LOADS (LBS) • WEIGHT (LBS) • DIMENSIONS (IN) • ANGLES (DEGREES)

Type	Length (L)	Beam Flange		Brace Angle**	X Lateral	Z Longitudinal	D	Weight
		Width Range	Thickness Range					
30° - 44° BRACE ANGLE								
A	9	4 - 7	3/8 - 3/4	30° - 44°	540	470	1	3.15
	12	7 - 10						3.74
	14	9 - 12						4.19
	17	12 - 15						4.74
B	12	7 - 10	7/8 - 1 1/4	30° - 44°	470	330	1	3.90
	14	9 - 12						4.35
	17	12 - 15						4.90
45° - 59° BRACE ANGLE								
A	9	4 - 7	3/8 - 3/4	45° - 59°	710	480	1	3.15
	12	7 - 10						3.74
	14	9 - 12						4.19
	17	12 - 15						4.74
B	12	7 - 10	7/8 - 1 1/4	45° - 59°	740	640	1	3.90
	14	9 - 12						4.35
	17	12 - 15						4.90
60° - 74° BRACE ANGLE								
A	9	4 - 7	3/8 - 3/4	60° - 74°	880	580	1	3.15
	12	7 - 10						3.74
	14	9 - 12						4.19
	17	12 - 15						4.74
B	12	7 - 10	7/8 - 1 1/4	60° - 74°	910	790	1	3.90
	14	9 - 12						4.35
	17	12 - 15						4.90
75° - 90° BRACE ANGLE								
A	9	4 - 7	3/8 - 3/4	75° - 90°	980	640	1	3.15
	12	7 - 10						3.74
	14	9 - 12						4.19
	17	12 - 15						4.74
B	12	7 - 10	7/8 - 1 1/4	75° - 90°	1000	880	1	3.90
	14	9 - 12						4.35
	17	12 - 15						4.90

* 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.

See page 14 for notes on sway brace-seismic components concerning – installation, performance and warranty.