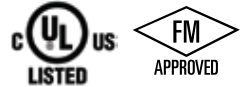


Fig. 980 - Universal Swivel Sway Brace Attachment



Component of State of California OSHPD Approved Seismic Restraints System

Size Range — One size fits bracing pipe 1” thru 2”, TOLCO 12 gauge channel, and all structural steel up to 1/4” thick.

Material — Carbon Steel

Function — Multi-functional attachment to structure or braced pipe fitting.

Features — This product’s design incorporates a concentric attachment opening which is critical to the performance of structural seismic connections. NFPA 13 (2010) 9.3.5.8.4 indicates clearly that fastener table load values are based only on concentric loading. Mounts to any surface angle. Break off bolt head assures verification of proper installation.

Installation — The Fig.980 is the structural or transitional attachment component of a longitudinal or lateral sway brace assembly. It is intended to be combined with the “bracing pipe” and TOLCO “braced pipe” attachment, Fig. 1000, 1001, 2002, 4L, 4A or 4B to form a complete bracing assembly. NFPA 13 and/or OSHPD guidelines should be followed.

To Install — Place the Fig. 980 onto the “bracing pipe”. Tighten the set bolt until set bolt head breaks off. Attachment can pivot for adjustment to proper brace angle.

Approvals — Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved by Factory Mutual Engineering (FM). Included in our Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load, spacing and placement information relating to OSHPD projects, please refer to the TOLCO Seismic Restraint Systems Guidelines.

Note — The Fig. 980 Swivel Attachment and the Fig. 1001, Fig. 1000, Fig. 2002, Fig. 4A, Fig. 4B or Fig. 4L Pipe Clamp make up a sway brace system of UL Listed attachments and bracing materials which satisfies the requirements of Underwriters’ Laboratories and the National Fire Protection Association (NFPA)

Finish — Plain

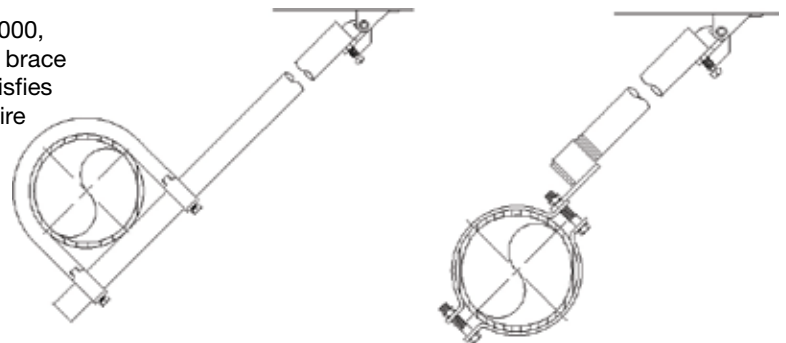
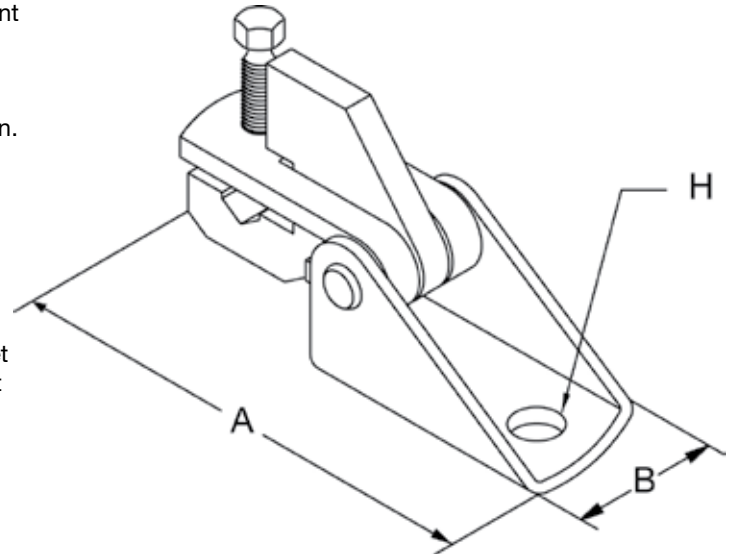
Note — Available in Electro-Galvanized finish.

Order By — Figure number and finish.

Pat. #6,273,372, Pat. #6,517,030, Pat. #6,953,174,

Pat. #6,708,930, Pat. #7,191,987, Pat. #7,441,730,

Pat. #7,669,806



Dimensions • Weights

A	B	H*	Max. Design Load Lbs. (cULus)	Max. Design Load Lbs.** (FM)	Approx. Wt./100
5 ¼	1 ⅞	17/32	2765	2800	132

* Available with hole sizes to accommodate up to 3/4” fastener. Consult factory.

** The loads listed are axial loads on the brace. The horizontal load capacity, H, of the brace is: $H = F \times \sin \theta$, where θ is the installation angle measured from the vertical.

Cooper B-Line, Inc.’s (“Cooper B-Line”) seismic bracing components are designed to be compatible only with other Cooper B-Line bracing components, resulting in a listed seismic bracing assembly. Cooper B-Line’s warranty for seismic bracing components will be the warranty provided in Cooper B-Line’s standard terms and conditions of sale made available by Cooper B-Line, except that, in addition to the other exclusions from Cooper B-Line’s warranty, Cooper B-Line makes no warranty relating to Cooper B-Line’s seismic bracing components that are combined with products not provided by Cooper B-Line.