

TOLCO™ Fig. 1001 - Sway Brace Attachment (FM Approved)

Size Range: Pipe size to be braced: 1" (25mm) thru 8" (200mm) IPS.
 Pipe size used for bracing: 1" (25mm) and 1 1/4" (32mm) Schedule 40 IPS.

Material: Steel

Function: For bracing pipe against sway and seismic disturbance.
 The pipe attachment component of a sway brace system:
 Fig. 1001 is used in conjunction with a Fig. 900 Series fitting and joined together with bracing pipe per NFPA 13, forming a complete sway brace assembly.

Features: Can be used to brace schedule 7 through schedule 40 IPS.
 Field adjustable, making critical pre-engineering of bracing pipe length unnecessary. Unique design requires no threading of bracing pipe. Can be used as a component of a four-way riser brace.
 Comes assembled and ready for installation. Fig. 1001 has built-in visual verification of correct installation. See installation note below.

Installation Note: Position Fig. 1001 over the pipe to be braced and tighten two hex head cone point set bolts until heads bottom out. A minimum of 1" (25mm) pipe extension is recommended. Brace pipe can be installed on top or bottom of pipe to be braced.

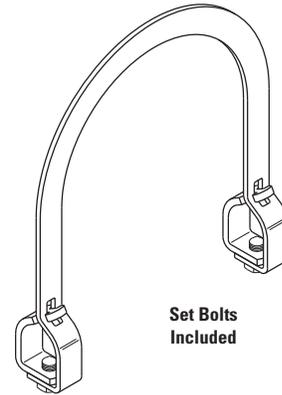
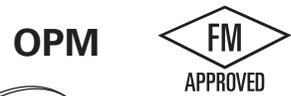
Approvals: Approved by Factory Mutual Engineering (FM).
 Included in our Seismic Engineering Guidelines approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load, spacing and placement information relating to OSHPD projects, please refer to our Seismic Engineering Guidelines, OPM-0052-13.
 For UL Listed information refer to UL Listed page 66.

Finish: Plain or Electro-Galvanized. Contact customer service for alternative finishes and materials.

Order By: Order by figure number, pipe size to be braced, followed by pipe size used for bracing (1" (25mm) or 1 1/4" (32mm)), and finish.

Important Note: Fig. 1001 is precision manufactured to perform its function as a critical component of a complete bracing assembly. To ensure performance, the FM Approval requires that Fig. 1001 must be used only with other TOLCO bracing products.

Designed to meet or exceed requirements of FM DS 2-8.



Set Bolts Included



Pipe Size in. (mm)	Part Number & Approx. Wt./100				Design Load - For Sch. 7, Sch. 10, & Sch. 40 Pipe Allowable Horizontal Capacity (lbf) Per Installation ^{1,2,3}			
	1" (24mm) Brace Pipe		1 1/4" (32mm) Brace Pipe		30°-44°	45°-59°	60°-74°	75°-90°
	Lbs.	(kg)	Lbs.	(kg)	Lbs. (kN)	Lbs. (kN)	Lbs. (kN)	Lbs. (kN)
1" (25)	1001-1 X 1	100.0 (45.3)	1001-1 X 1 1/4	118.0 (53.5)	1800 (8.00)	2550 (11.34)	3120 (13.88)	3490 (25.52)
1 1/4" (32)	1001-1 1/4 X 1	100.0 (45.3)	1001-1 1/4 X 1 1/4	114.0 (51.7)	1230 (5.47)	1740 (7.74)	2140 (9.52)	2380 (10.58)
1 1/2" (40)	1001-1 1/2 X 1	100.0 (45.3)	1001-1 1/2 X 1 1/4	115.0 (52.1)	1230 (5.47)	1740 (7.74)	2140 (9.52)	2380 (10.58)
2" (50)	1001-2 X 1	108.0 (49.0)	1001-2 X 1 1/4	121.0 (54.9)	1230 (5.47)	1740 (7.74)	2140 (9.52)	2380 (10.58)
2 1/2" (65)	1001-2 1/2 X 1	138.6 (62.8)	1001-2 1/2 X 1 1/4	160.4 (72.7)	800 (3.56)	1130 (5.02)	1380 (6.14)	1540 (6.85)
3" (80)	1001-3 X 1	147.2 (66.7)	1001-3 X 1 1/4	168.7 (76.5)	850 (3.78)	1200 (5.34)	1470 (6.54)	1640 (7.29)
4" (100)	1001-4 X 1	160.9 (73.0)	1001-4 X 1 1/4	182.4 (82.7)	850 (3.78)	1200 (5.34)	1470 (6.54)	1640 (7.29)
6" (150)	1001-6 X 1	190.0 (86.2)	1001-6 X 1 1/4	211.4 (95.9)	510 (2.27)	730 (3.25)	890 (3.96)	990 (4.40)
8" (200)	1001-8 X 1	217.4 (98.6)	1001-8 X 1 1/4	238.8 (108.3)	510 (2.27)	730 (3.25)	890 (3.96)	990 (4.40)

¹ FM Approved when used with 1 or 1 1/4 inch NPS Schedule 40 GB/T 3091, EN 10255H, or JIS G3451 steel pipe as the brace member.

² Load rating for LW above refers to FM Approved Lightwall Pipe commonly referred to as "Schedule 7". These ratings may also be applied when EN 10220 and GB/T 8163 steel pipe.

³ Load rating for Schedule 10 above may be applied to GB/T 3092, EN 10255M and H, or JIS G3454, FM Approved Thinwall, or Schedule 40 steel pipes.

Note: See UL load ratings in UL Listed Design Load chart shown under drawing.

Note: Metric sizes are available, contact factory.

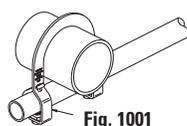
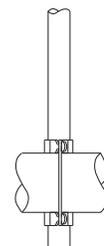
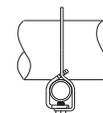
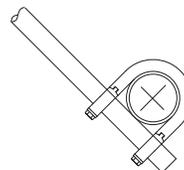


Fig. 1001



All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.