

THREADED ACCESSORIES

CPVC STRAPS

BAND HANGERS

BEAM CLAMPS

CLEVIS HANGERS

PIPE ROLLER SUPPORTS

SPLIT RING HANGERS

PIPE CLAMPS

CENTER LOAD BEAM CLAMPS

PIPE SHIELDS, INSULATION, & SADDLES

PIPE GUIDES & SLIDES

WALL BRACKETS

STRUCTURAL PIPE ATTACHMENTS SUPPORTS

SEISMIC BRACING

SEISMIC BRACING

FIG. 015

Function: Size: Material: Finish: h **Install:** <FM) applied. **Ordering:**

LARGE SWAY BRACE PIPE ATTACHMENT

Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a PHD Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

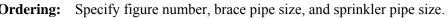
Pipe size $2^{1/2}$ " thru 8".

Carbon steel

Electro-galvanized

Place over the pipe to be braced, adjust brace angle, and insert bracing pipe through opening leaving a minimum of 1" extending from attachment. Brace pipe can be installed on top or bottom of pipe to be braced but must be a minimum of 6" away from a pipe joint. Tighten two hex head cone point set bolts until heads bottom out on attachment, ensuring proper torque has been

Approvals: Underwriters Laboratories listed for US and Canada $(2^{1}/2)^{2}$ thru 6" only) and Factory Mutual approved. Listed for use with NFPA and PHD sway brace components only.



FM Maximum Design Load								
Brace: 1" Thru 2" SCH40 Pipe								
Pipe Size Brace Angle				Wt. Each				
SCH 10, 40	From Vertical (Degrees)	lbs.	kN	1" Bra	ce Pipe	1 ¹ / ₄ " Brace Pipe		
& Flow Pipe				lbs.	kg	lbs.	kg	
	30°-44°	1020	(4.53)	1.31	(0.59)	1.49	(0.68)	
21/2	45°-59°	1440	(6.40)	1.31	(0.59)	1.49	(0.68)	
2.12	60°-74°	1770	(7.87)	1.31	(0.59)	1.49	(0.68)	
	75°-90°	1970	(8.76)	1.31	(0.59)	1.49	(0.68)	
	30°-44°	1080	(4.80)	1.40	(0.64)	1.57	(0.71)	
3	45°-59°	1530	(6.80)	1.40	(0.64)	1.57	(0.71)	
3	60°-74°	1870	(8.31)	1.40	(0.64)	1.57	(0.71)	
	75°-90°	2090	(9.29)	1.40	(0.64)	1.57	(0.71)	
	30°-44°	1020	(4.53)	1.53	(0.69)	1.70	(0.77)	
4	45°-59°	1450	(6.44)	1.53	(0.69)	1.70	(0.77)	
4	60°-74°	1770	(7.87)	1.53	(0.69)	1.70	(0.77)	
	75°-90°	1980	(8.80)	1.53	(0.69)	1.70	(0.77)	
	30°-44°	640	(2.84)	1.81	(0.82)	1.98	(0.90)	
,	45°-59°	900	(4.00)	1.81	(0.82)	1.98	(0.90)	
6	60°-74°	1110	(4.93)	1.81	(0.82)	1.98	(0.90)	
	75°-90°	1240	(5.51)	1.81	(0.82)	1.98	(0.90)	
	30°-44°	570	(2.53)	2.07	(0.94)	2.24	(1.02)	
8	45°-59°	810	(3.60)	2.07	(0.94)	2.24	(1.02)	
	60°-74°	990	(4.40)	2.07	(0.94)	2.24	(1.02)	
	75°-90°	1100	(4.89)	2.07	(0.94)	2.24	(1.02)	

NOTE: (This product is not compatible with metric pipe.) For metric piping see Fig. 010,	
Fig. 031, or Fig. 040.	

UL Maximum Design Load				
Pipe Size SCH 10 & 40	lbs.	kN		
21/2	1000	(4.45)		
3	1000	(4.45)		
4	1000	(4.45)		
6	1600	(7.12)		

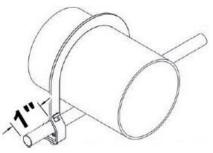


PHD Manufacturing, Inc. 44018 Columbiana-Waterford Road Columbiana, Ohio 44408-9481 Phone: 800-321-2736 • 330-482-9256 Fax: 330-482-2763 Web: www.phd-mfg.com

FIG. 015 LARGE SWAY BRACE PIPE ATTACHMENT

Pipe Braced: Bracing: Function:	2 1/2", 3", 4", 6", 8" 1" Or 1 1/4" SCH40 steel pipe Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a PHD Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation
	instructions.
Approvals:	Underwriters Laboratories listed for US and Canada; Sizes 2 1/2" through 6"
	Factory Mutual approved; Sizes 2 1/2" through 8"
	Listed for use with NFPA and PHD sway brace components only
Material:	Low Carbon Steel
Installation:	Place over the pipe to be braced, adjust brace angle, and insert bracing pipe through opening leaving a minimum of 1" extending from attachment. Brace pipe can be installed on top or bottom of pipe to be braced but must be a minimum of 6" away from a pipe joint. Tighten two hex head cone point set bolts until heads bottom out on attachment, ensuring proper torque has been applied.

(This product is not compatible with metric pipe.)



	UL Maximum Design Loads					
Pipe	Pipe	Brace	Brace			
Size	Schedule	Size	Schedule	lbs.		
2 1/2	10 & 40	1 & 1 1/4	40	1000		
3	10 & 40	1 & 1 1/4	40	1000		
4	10 & 40	1 & 1 1/4	40	1000		
6	10 & 40	1 & 1 1/4	40	1600		

FM Approved Loads							
			Allowable Horizontal Capacity				
			Per Installation Angle (lbs.)				
	Pipe	Pipe	Brace Angle From Vertical				
Orientation	Size	Schedule	30°-44°	45°-59°	60°-74°	75°-90°	Brace Member
Lateral	2 1/2	LW, 10, 40	1020	1440	1770	1970	1" or 1 1/4" Schedule 40 Pipe
Lateral	3	LW, 10, 40	1080	1530	1870	2090	1" or 1 1/4" Schedule 40 Pipe
Lateral	4	LW, 10, 40	1020	1450	1770	1980	1" or 1 1/4" Schedule 40 Pipe
Lateral	6	LW, 10, 40	640	900	1110	1240	1" or 1 1/4" Schedule 40 Pipe
Lateral	8	LW, 10, 40	570	810	990	1100	1" or 1 1/4" Schedule 40 Pipe

NOTE: LW above refers to FM Approved Lightwall pipe, commonly referred to as Schedule 7.

The Complete Line of Pipe Supports and Devices Pipe Hangers ▲ Strut & Accessories ▲ Pipe Clamps ▲ Beam Clamps ▲ Shields