

Pipe Clamps



B3373
Standard Riser Clamp
Page 29



B3373C
Plastic Coated
Standard Riser Clamp
Page 29



B3140
Standard Pipe Clamp
Page 30



B3140C & B3140F
Plastic Coated & Felt-Lined
Standard Pipe Clamp
Page 30



B2400
Standard Pipe Strap
Page 31

CPVC Solutions



Fig. 22
Single Fastener
CPVC Strap
Page 32



Fig. 22L2
One Hole Hanger/
Restrainer
for CPVC &
Steel Pipe
Page 33



Fig. 23
Double Fastener
CPVC Strap
Page 34



Fig. 24
Double Fastener Side
Mounted CPVC Strap
Page 35



Fig. 27B
Speed Nut
Page 36



Fig. 28
Stand-Off Hanger & Restrainer
for CPVC & IPS Pipe
Page 37



Fig. 28M
Offset Hanger & Restrainer
for CPVC & IPS Pipe
Page 38



Fig. 29
Double Offset Hanger &
Restrainer for CPVC Pipe
Page 39



Fig. B3184
Light Duty Offset Hanger
for CPVC & IPS Pipe
Page 40



Figure 75
Swivel Attachment
Page 40



Fig. 3000
CPVC Sway Brace
Attachment
Page 41



Fig. 76
Structural Attachment
For Restraint Assembly
Pages 42 & 43



Fig. 77
CPVC System
Piping Attachment
For Restraint
Assembly
See Pages
44 & 45

Pipe Supports



B3088
Base Stand
B3088S
Seismic Base Stand
Pages 46 & 47



B3088T
Threaded Base Stand
B3088ST
Seismic Threaded
Base Stand
Pages 48 & 49



B3092
Adjustable Pipe Saddle
Support With Yoke
Page 50



B3093
Adjustable Pipe
Saddle Support
Page 51

Seismic Bracing



Fig. 828
Universal Sway
Brace Attachment
to Steel
Pages 52 & 53



Fig. 825
Sway Brace
Attachment
to Steel
Pages 54 & 55



Fig. 825A
Sway Brace
Attachment to Steel
Page 56



Fig. 906
Sway Brace
Multi-Fastener
Adapter
Page 56



Fig. 800
Adjustable Sway
Brace Attachment
To Steel
Pages 58 & 59



Fig. 980
Universal Swivel
Sway Brace
Attachment
Pages 60 & 61



Fig. 909
No-Thread
Swivel Sway
Brace
Attachment
Page 62



Fig. 910
Threaded
Swivel Sway
Brace
Attachment
Page 63



Fig. 907
Multi-Angle
Attachment
Page 64



Fig. 975
Straight Sway
Brace Fitting
Page 65



Fig. 1001
Sway Brace
Attachment
Pages 66 & 67



Fig. 1000
Fast Clamp Sway
Brace Attachment
Pages 68 & 69



Fig. 2002
Sway Brace
Attachment
Page 70



Fig. 75
Swivel
Attachment
See Page 40



Fig. 3000
CPVC Sway Brace
Attachment
See Page 41



Fig. 76
Structural
Attachment
For Restraint
Assembly
See Pages 42 & 43



Fig. 77
CPVC System
Piping Attachment
For Restraint Assembly
See Pages
44 & 45



Fig. 98
Rod Stiffener
Page 72



Fig. 98B
Rod Stiffener
with Break Off
Bolt Head
Page 72



SC228
Rod Stiffener
Page 72



Fig. 4L
Sway Brace
Attachment
Pages 74 & 75



Fig. 4B
Pipe Clamp For
Sway Bracing
Page 78

TOLCO Fig. 77 - System Piping Attachment for Restraint Assembly (UL Listed) For CPVC & Steel Pipe

Size Range: 3/8" and 1/2" all threaded rod (ATR)

Material: Steel

Function: System attachment for restraint (sway brace) assembly

Features: The Fig. 77 is UL Listed to be used with both (IPS) steel and CPVC fire sprinkler pipe, in 1" through 2" diameters. It fits multiple rod diameters allowing for field adjustment if longer brace material is needed. Its sturdy break-off bolt will not strip and verifies proper installation. Its snap on design has many advantages. It can be installed with one-hand, can easily position the brace all thread rod over the top of the pipe being braced or underneath the pipe being braced to accommodate the desired brace angle. It can be fixed in place or moved to a new location by sliding along the pipe or snapping on or off and relocating. An entire prefabricated assembly (Fig. 74 & 77 joined with ATR) can be pre-assembled to save time and labor and later be field installed and adjusted to fit.

Installation Instructions: Install TOLCO™ Fig. 77 system attachment to sprinkler pipe branch line to be restrained. You can position with the rod engagement either above or below the sprinkler pipe. Rod must extend a min. of 1" (25.4) past the edge of the Fig. 77. The attachment can be slid along the pipe to position close to where the Fig. 74 structural attachment will be fastened to the structure. The snap on design allows maximum adjustability during this stage of the installation process. Engage ATR (previously attached to the Fig. 74 structural attachment to the rod engagement portion of the Fig. 77 system attachment. Tighten set bolt on Fig. 77 system attachment until head breaks off verifying proper installation torque. For more information visit our website for the most up to date instructions sheets.

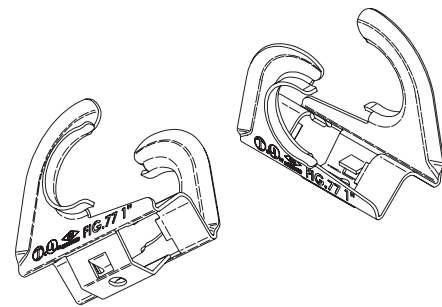
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). For FM Approved information refer to FM Approved page 45.

Finish: Pre-Galvanized.

Order By: Figure number and pipe size.



Pipe Attachment for Branch Line Restraint
US Patent No. 9,797,527



Part No.	Pipe Size in. (mm)	Max.Design Loads (UL Listed)	
		3/8" Rod lbs. (kN)	1/2" Rod lbs. (kN)
77-1	1 (25)	300 (1.33)	300 (1.33)
77-1 1/4	1 1/4 (32)		
77-1 1/2	1 1/2 (40)		
77-2	2 (50)		

* These loads apply to IPS steel, Sch.10, Sch. 40, engineered lightwall piping, and CPVC plastic pipe. Loads shown are axial ASD loads.

§ All other trademarks are property of their respective owners.



All Thread Rod Maximum Restraint Lengths

Rod Size in.	Root Dia. in. (mm)	Least Radius of Gyration r in. (mm)	Maximum Unbraced Length L - (in.)				Max. Horizontal Load @ 45° (lbs.)**			
			I/r=100 in. (mm)	I/r=200 in. (mm)	I/r=300 in. (mm)	I/r=400† in. (mm)	I/r=100 lbs. (kN)	I/r=200 lbs. (kN)	I/r=300 lbs. (kN)	I/r=400† lbs. (kN)
3/8-16	0.300 (7.6)	0.075 (1.9)	7 (177.8)	14 (355.6)	22 (558.8)	30 (763.0)	300 (1.33)	186 (0.82)	82 (0.36)	44 (0.19)
1/2-13	0.404 (10.2)	0.101 (2.5)	10 (254.0)	20 (508.0)	30 (762.0)	40 (1016.0)	300‡ (1.33)‡	300‡ (1.33)‡	152 (0.67)	85 (0.38)

† I/r = 400 NFPA 13 2010, Sec 9.3.6.1 (5) † I/r = 400 NFPA 13 2013 & 2016, Sec 9.3.6.1 (5) & NFPA (2016) TABLE 9.3.11.8(a)(b)(c)(d)(e)(f)

**Per NFPA 13 (2013) Table 9.3.5.11.8 (a)(b)(c), consult for maximum allowable load information on ATR.

‡Max load governed by Fig. 74/77 Max horizontal load.

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

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

Updated 5-24-21

TOLCO Fig. 77 - System Piping Attachment for Sway Brace Assembly (FM Approved) For CPVC & Steel Pipe

Size Range: 3/8" and 1/2" all threaded rod (ATR)

Material: Steel

Function: System attachment for restraint

Features: The Fig. 77 is to be used with both (IPS) steel and CPVC fire sprinkler pipe, in 1" through 2" diameters. It fits multiple rod diameters allowing for field adjustment if longer brace material is needed. Its sturdy break-off bolt will not strip and verifies proper installation. Its snap on design has many advantages. It can be installed with one-hand, can easily position the brace all thread rod over the top of the pipe being braced or underneath the pipe being braced to accommodate the desired brace angle. It can be fixed in place or moved to a new location by sliding along the pipe or snapping on or off and relocating. An entire prefabricated assembly (Fig. 74 & 77 joined with ATR) can be pre-assembled to save time and labor and later be field installed and adjusted to fit.

Installation Instructions: Install TOLCO™ Fig. 77 system attachment to sprinkler pipe branch line to be restrained. It can be positioned with the rod engagement either above or below the sprinkler pipe. Rod must extend a min. of 1" past the edge of the Fig. 77. The attachment can be slid along the pipe to position close to where the Fig. 74 structural attachment will be fastened to the structure. The snap on design allows maximum adjustability during this stage of the installation process. Engage ATR (previously attached to the Fig. 74 structural attachment to the rod engagement portion of the Fig. 77 system attachment. Tighten set bolt on Fig. 77 system attachment until head breaks off verifying proper installation torque. For more information visit our website for the most up to date instructions sheets.

Approvals: Approved by FM.

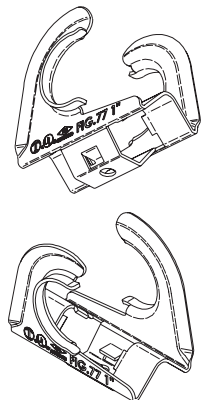
For UL Listed information refer to UL Listed page 44.

Finish: Pre-Galvanized.

Order By: Figure number and pipe size.



Pipe Attachment for Restraint (Sway Brace)
US Patent No. 9,797,527



Part No.	Pipe Size in. (mm)	Maximum Allowable Loads (FM Approved)*							
		30°-44°		45°-59°		60°-74°		75°-90°	
		3/8" Rod lbs. (kN)	1/2" Rod lbs. (kN)	3/8" Rod lbs. (kN)	1/2" Rod lbs. (kN)	3/8" Rod lbs. (kN)	1/2" Rod lbs. (kN)	3/8" Rod lbs. (kN)	1/2" Rod lbs. (kN)
77-1	1 (25)	140 (0.62)	160 (0.71)	200 (0.89)	230 (1.02)	250 (1.11)	280 (1.24)	280 (1.24)	320 (1.42)
77-1 1/4	1 1/4 (32)	140 (0.62)	170 (0.75)	200 (0.89)	250 (1.11)	250 (1.11)	300 (1.33)	280 (1.24)	340 (1.51)
77-1 1/2	1 1/2 (40)	130 (0.58)	160 (0.62)	190 (0.84)	230 (1.02)	230 (1.02)	280 (1.24)	260 (1.15)	320 (1.42)
77-2	2 (50)	120 (0.53)	150 (0.67)	170 (0.75)	210 (0.93)	210 (0.93)	260 (1.15)	240 (1.07)	290 (1.29)

* Loads shown are axial ASD loads.

All Thread Rod Maximum Restraint Lengths

Rod Size in.	Root Dia. in. (mm)	Least Radius of Gyration r in. (mm)	Maximum Unbraced Length L - (in.)				Max. Horizontal Load @ 45° (lbs.)**			
			I/r=100 in. (mm)	I/r=200 in. (mm)	I/r=300Δ in. (mm)	I/r=400†Δ in. (mm)	I/r=100 lbs. (kN)	I/r=200 lbs. (kN)	I/r=300Δ lbs. (kN)	I/r=400†Δ lbs. (kN)
3/8-16	0.300 (7.6)	0.075 (1.9)	7 (177.8)	14 (355.6)	22 (558.8)	30 (763.0)	300 (1.33)	186 (0.82)	82 (0.36)	44 (0.19)
1/2-13	0.404 (10.2)	0.101 (2.5)	10 (254.0)	20 (508.0)	30 (762.0)	40 (1016.0)	300‡ (1.33)‡	300‡ (1.33)‡	152 (0.67)	85 (0.38)

† I/r = 400 NFPA 13 2010, Sec 9.3.6.1 (5) † I/r = 400 NFPA 13 2013 & 2016, Sec 9.3.6.1 (5) & NFPA (2016) TABLE 9.3.11.8(a)(b)(c)(d)(e)(f)

**Per NFPA 13 (2013) Table 9.3.5.11.8 (a)(b)(c), consult for maximum allowable load information on ATR.

‡Max load governed by Fig. 74/77 Max horizontal load.

Δ I/r = 300 for bracing

Δ I/r = 400 for restraint

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

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

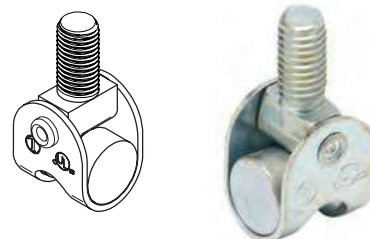
Updated 5-24-21

TOLCO Fig. 75 - swivel attachment

Function: Three recommended applications for this product:

- May be used as a branch line restraint for structural attachment to anchor bolt, beam clamp, etc.
- May be used as an upper attachment with short hanger rod to omit seismic bracing.
- May be used in a pitched or sloped roof application, to meet requirements of NFPA 13 (2010) 9.1.2.6.

Refer to page 40 for more information and sizing.



TOLCO Fig. 3000 - CPVC sway brace attachment

Function: For bracing CPVC and steel pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system: Fig. 3000 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.

Refer to page 41 for more information and sizing.

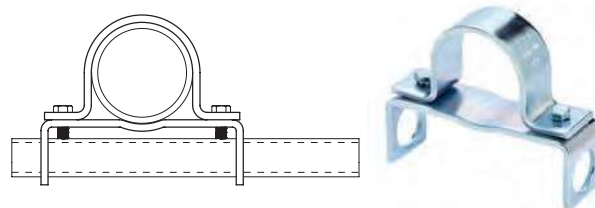


Fig. 76 - TOLCO structural attachment for branch line restraint assembly (UL listed) structural attachment for sway brace assembly (FM)

Function: Structural attachment for branch line restraint or sway brace assembly

Refer to pages 42 for UL Listed information and sizing.
Refer to pages 43 for FM information and sizing.

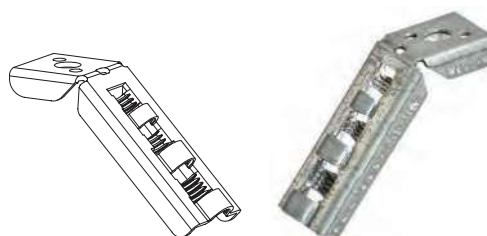


Fig. 77 - TOLCO structural attachment for branch line restraint assembly (UL listed) structural attachment for sway brace assembly (FM)

Function: System attachment for branch line restraint or sway brace assembly

Refer to pages 44 for UL Listed information and sizing.
Refer to pages 45 for FM information and sizing.

