Hanger Rod or Pipe Not Included

B3199R - Ceiling Flange B3199RCT - Ceiling Flange Dura-Copper Coated

Size Range: 3/8"-16 & 1/2"-13 rod

Material: Malleable Iron (Stainless Steel Type 304 available)

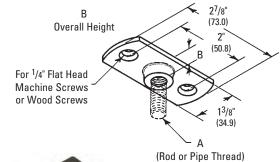
Standard Finish: Plain or Electro-Galvanized B3199RCT is DURA-COPPER™ coated

Function: Designed for attaching a hanger or support rod to

beams, ceilings, or walls.

Order By: Part number and finish.







Approx. Wt./100	

(2 Holes)

Part No.		Thread Size A	B in. (mm)		Design Load Lbs. (kN)		Approx. Wt./100 Lbs. (kg)	
B3199R- ³ /8	B3199RCT- ³ /8	3/8"-16	7/16"	(11.1)	180	(.80)	13	(5.9)
B3199R-1/2	B3199RCT-1/2	1/2"-13	1/2"	(12.7)	180	(.80)	17	(7.7)

TOLCO™ Fig. 78 - All Steel Ceiling Plate

Size Range: 3/8"-16 rod Material: Pre-Galvanized Steel

Function: Attachment to wood beams, ceilings, metal decks

or walls. Can also be welded to steel beams.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Additionally, UL has listed the Fig. 78 with

fasteners as shown in the table below.

Finish: Plain. Contact customer service for alternative

finishes and materials.

Order By: Part number, rod size and finish

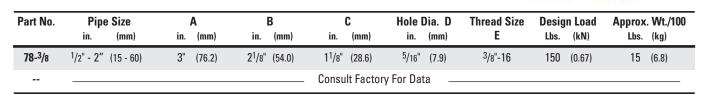
US Patent #5,702,077





		UL Listed Fastener Table	
Pipe Size	Q ty	Fastener Type	Material
1/2" - 2"	2	#14 x 1 ¹ /4" A-point hex-washer-head sheet metal screw	Wood
21/2" - 4"	2	¹ /4" x 1 ¹ /2" wood screws*	Wood
1/2" - 2"	2	¹ /4" x 1" tek screws	Metal (18 gauge)
1/2" - 2"	2	#14 x 1 ¹ / ₄ " A-point hex-washer-head sheet metal screw	Wood
1/2" - 2"	2	#14 x 2" A-point-hex-washer-head sheet metal screw	Wood thru ⁵ /8" gyp board





Upper Attachments

B3060L - Light Duty Angle Clip

Size Range: 3/8"-16 rod

Material: Steel (Stainless steel available)

Function: Designed for attaching 3/8"-16 hanger rod to the

side of beams or walls.

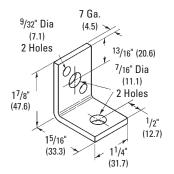
Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 35 and Manufacturers Standardization Society

ANSI/MSS SP-69 & SP-58, Type 34.

Finish: Plain or Electro-Galvanized **Order By:** number and finish. **Design Load:** 300 Lbs. (1.33kN)

Weight: Approx. Wt./100 - 15 Lbs. (6.8 kg)





B3070 - Reversible Angle Clip

Size Range: 3/8"-16 and 1/2"-13 rod, 1/2" (15mm) thru 31/2" (90mm) pipe

Material: Steel

Function: Designed for attaching hanger rod to the side of beams or walls. **Approvals:** Conforms to Federal Specification WW-H-171E & A-A-1192A,

Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 &

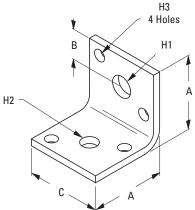
SP-58, Type 34.

Finish: Plain or Electro-Galvanized **Order By:** number and finish.

Design Load: 500 Lbs. (2.22 kN) when installed in either direction.

Weight: Approx. Wt./100 - 49 Lbs. (22.2 kg)





	Rod Size A		В	B C		Hole 2	Hole 3	Max. Rec. Load	Approx. Wt./100
Part No.		in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	Lbs. (kN)	Lbs. (kg)
B3070-3/8x1/2	³ /8"-16 x ¹ /2"-13	2" (50.8)	¹³ / ₁₆ " (20.6)	2" (50.8)	⁹ /16" (14.3)	⁷ /16" (11.1)	⁵ /16" (7.9)	700 (3.11)	35 (15.9)
B3070-1/2x1/2	¹ /2"-13 x ¹ /2"-13	2" (50.8)	³ / ₄ " (19.0)	2" (50.8)	⁹ /16" (14.3)	⁹ /16" (14.3)	⁵ /16" (7.9)	700 (3.11)	34 (15.4)

B3060 - Side Beam Angle Clip

Size Range: 3/8"-16 and 7/8"-9 rod

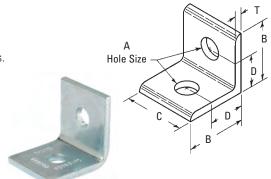
Material: Steel (Stainless steel available)

Function: Designed for attaching a hanger rod to the side of beams or walls. **Approvals:** Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 &

SP-58, Type 34.

Finish: Plain or Electro-Galvanized. Contact customer service for

alternative finishes and materials. **Order By:** Part number and finish.



	Hole Size A	В	С	D	T	Design Load	Approx. Wt./100
Part No.	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	Lbs. (kN)	Lbs. (kg)
B3060-3/8	⁷ /16" (11.1)	2 ³ /16" (55.6)	2" (50.8)	1 ¹ /4" (31.7)	1/4" (6.3)	305 (1.35)	53 (24.0)
B3060-1/2	⁹ /16" (14.3)	2 ³ /16" (55.6)	2" (50.8)	11/4" (31.7)	1/4" (6.3)	565 (2.51)	51 (23.1)
B3060- ⁵ /8	¹¹ /16" (17.5)	2 ³ /16" (55.6)	2" (50.8)	11/4" (31.7)	1/4" (6.3)	909 (4.02)	48 (21.8)
B3060-3/4	¹³ /16" (20.6)	3" (76.2)	3" (76.2)	13/4" (44.4)	³ /8" (9.5)	1355 (6.03)	169 (74.8)
B3060- ⁷ /8	¹⁵ / ₁₆ " (23.8)	4" (101.6)	4" (101.6)	2 ¹ /2" (63.5)	³ /8" (9.5)	1870 (8.32)	312 (141.5)

TOLCO™ Fig. 51NFPA - Side Beam Bracket for NFPA Rod & Fastener Sizing

Size Range: 3/8"-16 thru 1/2"-13 rod, 1/2" (15mm) thru 8" pipe (200mm)

Material: Steel

Function: Recommended for attaching hanger rod to side of beams or walls. Designed to accommodate current rod schedule and fastener requirements per

National Fire Protection Association (NFPA) Pamphlet 13.

Approvals: Underwriters Laboratories Listed in the USA (UL) and

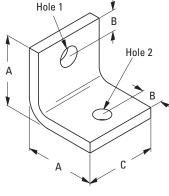
Canada (cUL), and Factory Mutual Engineering approved.

Finish: Plain. Contact customer service for alternative finishes

and materials.

Order By: Part number, rod size and finish







Part No.	Pipe Size		Rod /		Α		В		С	Ho	le 1	Но	le 2
	in.	(mm)	Size	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
51NFPA-3/8x3/8	1/2" - 2"	(15 - 60)	³ /8"-16	2"	(50.8)	3/4"	(19.0)	2"	(50.8)	⁷ /16"	(11.1)	⁷ /16"	(11.1)
51NFPA-3/8x1/2	21/2" - 4"	(65 - 100)	³ /8"-16	2"	(50.8)	3/4"	(19.0)	2"	(50.8)	⁹ /16"	(14.3)	7/16"	(11.1)
51NFPA-1/2x1/2	5" - 6" ((125 - 150)	1/2"-13	21/2"	(63.5)	3/4"	(19.0)	21/2"	(63.5)	⁹ /16"	(14.3)	⁹ /16"	(14.3)
51NFPA-1/2x5/8	8"	(200)	¹ /2"-13	21/2"	(63.5)	3/4"	(19.0)	21/2"	(63.5)	11/16"	(17.5)	9/16"	(14.3)

Part No.	Desig	n Load	Approx.	Wt./100
	Lbs.	(kN)	Lbs.	(kg)
51NFPA-3/8x3/8	700	(3.11)	35	(15.9)
51NFPA-3/8x1/2	700	(3.11)	34	(15.4)
51NFPA-1/2x1/2	1250	(5.56)	71	(32.2)
51NFPA-1/2x5/8	1250	(5.56)	70	(31.7)

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

Eaton

Upper Attachments

TOLCO™ Fig. 50 - Side Beam Bracket for NFPA Rod & Fastener Sizing

Size Range: 3/8"-16 thru 7/8"-9 rod

Material: Steel

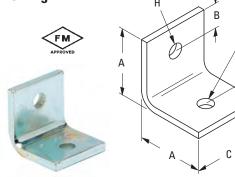
Function: Recommended for attaching hanger rod to side of beams

Approvals: Factory Mutual Engineering approved (FM).

Finish: Plain. Contact customer service for alternative finishes

and materials.

Order By: Part number, rod size and finish



Part No.	Rod	Α			В		C	Hole S	ize H	Max. Ro	Max. Rec. Load		Approx. Wt./100	
	Size	in. ((mm)	in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)	
50 - ³ /8	3/8"-16	2" (50.8)	3/4"	(19.0)	2"	(50.8)	7/16"	(11.1)	700	(3.22)	35	(15.9)	
50 -1/2	1/2"-13	2" (50.8)	3/4"	(19.0)	2"	(50.8)	9/16"	(14.3)	700	(3.22)	35	(15.9)	
50 - ⁵ /8	⁵ /8"-11	2" (50.8)	3/4"	(19.0)	2"	(50.8)	¹¹ /16"	(17.5)	700	(3.22)	32	(14.5)	
50 - ³ / ₄	3/4"-10	21/2" (63.5)	3/4"	(19.0)	21/2"	(63.5)	13/16"	(20.6)	1250	(5.56)	110	(49.9)	
50 - ⁷ /8	7/8"-9	21/2" (63.5)	3/4"	(19.0)	21/2"	(63.5)	¹⁵ /16"	(23.8)	1250	(5.56)	100	(45.3)	

B3061 - Angle Bracket

Material: Steel

Function: — Recommended for supporting pipe at various

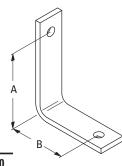
distances from wall or column.

Finish: Plain. Contact customer service for alternative finishes

and materials.

Order By: Part number and finish





Part No.	Size		Α	В		Hole	Hole Size Max. Rec. Load			Approx. Wt./100		
		in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)	
B3061-1	1	3"	(76.2)	2"	(50.8)	7/16"	(11.1)	180	(0.80)	46	(20.8)	
B3061-2	2	4"	(101.6)	3"	(76.1)	7/16"	(11.1)	180	(0.80)	65	(29.5)	
B3061-3	3	3"	(76.2)	2"	(50.8)	⁹ /16"	(14.3)	390	(1.73)	85	(38.5)	
B3061-4	4	4"	(101.6)	3"	(76.1)	9/16"	(14.3)	390	(1.73)	115	(52.1)	

TOLCO™ Fig. 56 - Tapped Side Beam Connector (Stainless Steel)

Size Range: 1/2" (15mm) thru 4" (100mm) pipe (3/8"-16 rod)

Material: Stainless Steel

Function: Recommended for attaching hanger rod to steel or wood beams. Tapped hole allows easy adjustment of hanger rod.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering approved for

1/2" (15mm) thru 4" (100mm) pipe.

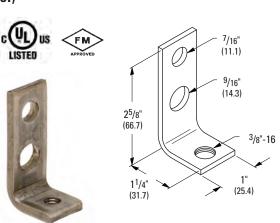
Weight: Approx. Wt./100 - 20.0 Lbs. (9.1kg)

Order By: Part number

Note: Available only in Stainless Steel materials.

Per NFPA 13: 1/2" (15mm) thru 2" (50mm) pipe use 3/8"-16 fastener;

2¹/2" (65mm) thru 4" (100mm) pipe, use ¹/2"-13 fastener.



TOLCO™ Fig. 58 - Threaded Side Beam Bracket

Size Range: 3/8"-16 rod, pipe sizes 1/2" (15mm) thru 4" (100mm)

Material: Pre-Galvanized Steel

Function: Practical and economical bracket used to support piping from wood, concrete

or steel beams.

Features: Unique design allows rod to be easily threaded into bracket. Offset design permits unlimited rod adjustment. Center mounting hole will accept 3 /8" and 1 /2" fastener bolts. Per NFPA 13: 1 /2" (15mm) thru 2" (50mm) pipe requires 3 /8" fastener, 2 /2" (65mm) thru 4" (100mm) pipe requires 1 /2" fastener.*

Approvals: Underwriters Laboratories Listed in the USA **(UL)** and Canada **(cUL)**, and Factory Mutual Engineering approved thru 4" (100mm) pipe.

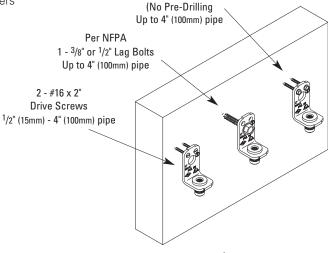
Finish: Pre-Galvanized

Order By: Part number and finish

*Note: Additionally UL has listed the Fig. 58 with fasteners as shown in table below.

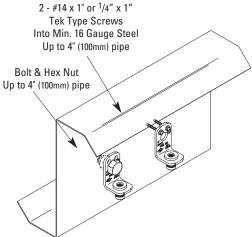






2 - 1/4" x 2" Lag Bolts

		UL Listed Fastener Table	
Pipe Size	Qty	Fastener Type	Material
2"	2	#16 x 2" Drive screws	Wood
2"	1	³ /8" Lag bolt	Wood
21/2" - 4"	1	¹ /2" Lag bolt	Wood
31/2"	2	1/4" x 11/2" Lag bolts	Wood
4"	2	¹ /4" x 2" Lag bolts **	Wood
4"	2	#14 x 1" or ¹ /4" x 1" Tek type screws	Metal (15 gauge)
4"	2	#14 x 1" or ¹ /4" x 1" Tek type screws	Metal (16 gauge)
** No pre-dr	illing		



Part No.	No. Pipe Size		Rod	Α		1	В		С		Max. Rec. Load		Approx. Wt./100	
	in.	(mm)	Size	in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)	
58	1/2" - 4"	(15 - 100)	3/8"-16	23/4"	(69.8)	11/2"	(38.1)	1 ¹ /8	" (28.6)	300***	(1.33)	14	(6.3)	

^{***} With Safety Factor of 5.

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

Upper Attachments

TOLCO™ Fig. 75 - Swivel Attachment

Size Range: — 3/8"-16 Rod Attachment

Material: Steel

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.

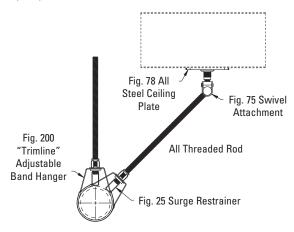
 $\mbox{\bf Approvals:}\;\;\mbox{Underwriters Laboratories Listed in the USA (UL)}$ and

Canada (cUL) to support up to 4" (100mm) pipe.

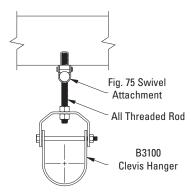
Finish: Electro-Galvanized

Weight: Approx. Wt./100 - 13.3 Lbs. (6.0kg)

Order By: Part number Patent: #7,887,248

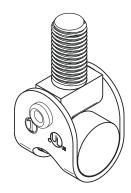


May be used as a structural attachment component of a branch line restraint

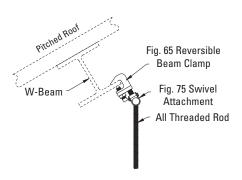


May be used as a upper attachment with short hanger rod to omit seismic bracing









May be used with a pitched roof application, to meet requirements of NFPA 13 (2010) Sec. 9.1.2.5.

B3058 - Side Beam Connector

Size Range: 3/8"-16 & 1/2"13 rods

Material: Malleable Iron

Function: Designed for attaching hanger rod to the side of

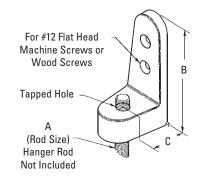
beams or walls.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 35 and Manufacturers Standardization

Society ANSI/MSS SP-69 & SP-58, Type 34.

Finish: Plain or Electro-Galvanized **Order By:** Part number and finish.





	Rod Size	В			C		ın Load	Approx.	Approx. Wt./100		
Part No.	Α	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)		
B3058- ³ /8	³ /8"-16	23/8"	(60.3)	⁹ /16"	(14.3)	250	(1.11)	13	(5.9)		
B3058-1/2	1/2"-13	23/4"	(69.8)	3/4"	(19.0)	480	(2.13)	25	(11.3)		

B3062 - Side Beam Bracket

Size Range: 3/8"-16 thru 5/8"-11 rods

Material: Malleable Iron

Function: Designed for attaching hanger rod to the side

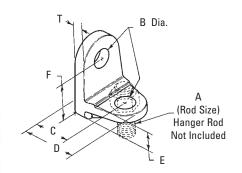
of beams or walls.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58,

Type 34.

Finish: Plain or Electro-Galvanized **Order By:** Part number and finish.





		For Nor	minal		Design Load					
	Rod Size	Pipe Sizes		With La	With Lag Screw		With Bolt To Steel		Approx. Wt./100	
Part No.	Α	in.	(mm)	Lbs.	(kN)	Lbs.	(kN)	Lbs.	(kg)	
B3062-3/8	³ /8"-16	3/4"-2"	(20-50)	390	(1.73)	730	(3.25)	21	(9.5)	
B3062-1/2	¹ /2"-13	21/2"-31/2"	(65-95)	640	(2.84)	1350	(6.00)	44	(19.9)	
B3062- ⁵ /8	⁵ /8"-11	4"-5" ((100-125)	760	(3.38)	2160	(9.71)	81	(36.7)	

Part No.	В	С	D	Е	F	Т	
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	
B3062- ³ /8	⁷ /16" (11.1)	⁷ /8" (22.2)	1 ³ /8" (34.9)	⁵ /8" (15.9)	1 ⁷ /16" (36.5)	1/4" (6.3)	
B3062-1/2	⁹ /16" (14.3)	13/16" (30.2)	1 ¹³ / ₁₆ " (46.0)	3/4" (19.0)	1 ⁷ /8" (47.6)	11/32" (8.7)	
B3062- ⁵ /8	³ /4" (19.0)	17/16" (36.5)	2 ³ /16" (55.6)	⁷ /8" (22.2)	21/4" (54.0)	⁷ /16" (11.1)	