

Pipe Hangers



Pipe hangers offered in this section are designed to support insulated or non-insulated pipe allowing for vertical adjustment and limited movement in the piping system.

Materials

Carbon Steel, Malleable Iron and AISI Type 304 & 316 Stainless Steel are used in the manufacturing of pipe hangers. Other materials are available.

Finishes

The standard finishes for mechanical supports are plain steel (oil coated) sometimes referred to as black, Electro-Galvanized Zinc (ASTM B633 SC3), Pre-Galvanized (ASTM A653 G90), Hot-Dip Galvanized After Fabrication (ASTM A123), Red Primer, Plastic Coating, DURA-GREEN™, DURA-COPPER™ and other special coatings are available upon request.

Note: Due to the design of some products, (threads, connecting hardware, swivels, etc.) items may or may not be uniformly coated with special finishes i.e. Hot-Dip Galvanized, DURA-GREEN, DURA-COPPER, PVC etc. In some cases, the hanger itself may be coated, however, the hardware may be supplied Electro-Plated, DURA-COPPER Painted or Stainless Steel. Consult B-Line Systems for availability.

Approvals (as noted)

Items in this section are Underwriters Laboratories Listed, Factory Mutual Approved, and comply with Federal Specification WW-H-171E & A-A-1192A or Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58. Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD)

Fig. 1CBS - Clevis Pipe Spacer (Cooper B-Line B3100PS)



Component of State of California OSHPD Approved Seismic Restraints System

Size Range: Size 1" (25mm) thru 20" (500mm) clevis hanger

Material: Steel

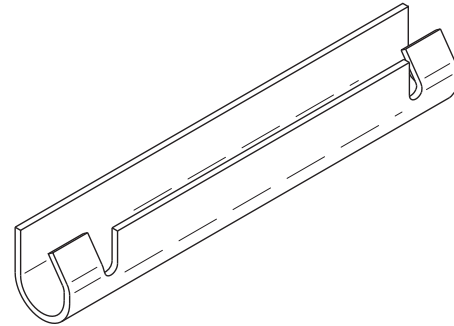
Function: Used as a spacer at a seismic brace location to keep clevis hanger from collapsing during seismic event.

Approvals: 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 Seismic Restraint Systems Guidelines.

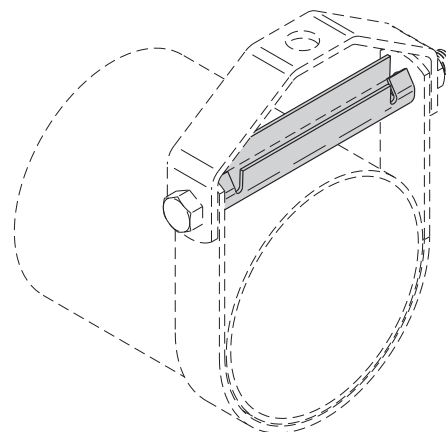
Installation Note: Fig. 1CBS fits easily over the cross bolt and attaches by pinching tabs down.

Finish: Pre-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



Part No.	Pipe Size		Approx. Wt./100	
	in.	(mm)	lbs.	(kg)
1CBS-1	1"	(25)	3.2	(1.4)
1CBS-1 ¹ / ₄	1 ¹ / ₄ "	(32)	4.1	(1.8)
1CBS-1 ¹ / ₂	1 ¹ / ₂ "	(40)	4.8	(2.2)
1CBS-2	2"	(50)	9.4	(4.2)
1CBS-2 ¹ / ₂	2 ¹ / ₂ "	(65)	11.4	(5.2)
1CBS-3	3"	(75)	13.9	(6.8)
1CBS-3 ¹ / ₂	3 ¹ / ₂ "	(90)	16.0	(7.2)
1CBS-4	4"	(100)	18.0	(8.1)
1CBS-5	5"	(125)	27.3	(12.4)
1CBS-6	6"	(150)	32.5	(14.7)
1CBS-8	8"	(200)	42.5	(19.2)
1CBS-10	10"	(250)	72.7	(32.9)
1CBS-12	12"	(300)	86.3	(39.1)
1CBS-14	14"	(350)	157.6	(71.5)
1CBS-16	16"	(400)	183.7	(83.3)
1CBS-18	18"	(450)	224.6	(101.9)
1CBS-20	20"	(500)	254.0	(115.2)



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

Pipe Hangers

B3100 - Standard Clevis Hanger (TOLCO Fig.1)

SLIDE-RITE™ Clevis Hanger Features

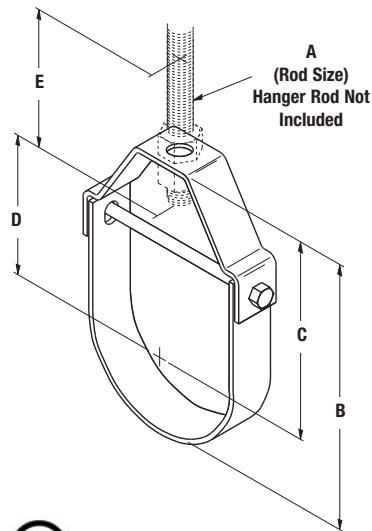
Pipe will not 'pinch' when installing.

15° swing in either direction allows pipe to easily feed thru.

Engineered design aligns bolt holes for quicker overhead installation.

*SLIDE-RITE™ Clevis Hanger design, as shown below, for sizes 2, 2½, 3, 4, 5 & 6.

Pat. No. 5,848,770
5,924,655



Component of State of California OSHPD Approved Seismic Restraints System

- B
Bottom of pipe to top of hanger.
- C
Center of pipe to top of hanger.
- D
Rod Take-Out
Center of pipe to bottom of hanger rod.
- E
Minimum thread length of hanger rod
- F
Adjustment
Top of cross bolt to bottom of hanger rod nut inside the hanger.



Pipe Hangers

Part No.	Nominal Pipe Size		Rod Size A		B		C		D	
	in.	(mm)	Std	NFPA**	in.	(mm)	in.	(mm)	in.	(mm)
B3100-1/2	1/2"	(15)	3/8"-16	3/8"-16	2 1/8"	(54.0)	1 3/4"	(44.4)	1 5/16"	(23.8)
B3100-3/4	3/4"	(20)	3/8"-16	3/8"-16	2 1/2"	(63.5)	2"	(50.8)	1 1/8"	(28.6)
B3100-1	1"	(25)	3/8"-16	3/8"-16	2 7/8"	(73.0)	2 1/4"	(57.1)	1 3/8"	(34.9)
B3100-1 1/4	1 1/4"	(32)	3/8"-16	3/8"-16	3 1/2"	(88.9)	2 11/16"	(68.2)	1 13/16"	(46.0)
B3100-1 1/2	1 1/2"	(40)	3/8"-16	3/8"-16	4"	(101.6)	3 1/16"	(77.8)	2 1/4"	(57.1)
B3100-2 *	2"	(50)	3/8"-16	3/8"-16	4 1/2"	(114.3)	3 5/16"	(84.1)	2 1/2"	(63.5)
B3100-2 1/2 *	2 1/2"	(65)	1/2"-13	3/8"-16	5 3/8"	(136.5)	3 15/16"	(100.0)	3 1/16"	(77.8)
B3100-3 *	3"	(80)	1/2"-13	3/8"-16	6 1/2"	(165.1)	4 3/4"	(120.6)	3 15/16"	(100.0)
B3100-3 1/2	3 1/2"	(90)	1/2"-13	3/8"-16	7 1/4"	(184.1)	5 1/4"	(133.3)	4 1/16"	(103.2)
B3100-4 *	4"	(100)	5/8"-11	3/8"-16	7 3/4"	(196.8)	5 1/2"	(139.7)	5 1/2"	(139.7)
B3100-5 *	5"	(125)	5/8"-11	1/2"-13	8 3/4"	(222.2)	6 1/8"	(155.6)	6"	(152.4)
B3100-6 *	6"	(150)	3/4"-10	1/2"-13	10 5/16"	(261.9)	6 15/16"	(176.2)	7"	(177.8)
B3100-8	8"	(200)	3/4"-10	1/2"-13	12 3/4"	(323.8)	8 7/16"	(214.3)	7 1/8"	(181.0)
B3100-10	10"	(250)	7/8"-9	5/8"-11	15 1/8"	(384.2)	9 3/4"	(247.6)	8 3/8"	(212.7)
B3100-12	12"	(300)	7/8"-9	5/8"-11	17 1/2"	(444.5)	11 1/8"	(282.6)	9 1/16"	(246.1)
B3100-14	14"	(350)	1"-8	--	19 3/8"	(492.1)	12 3/8"	(314.3)	10 5/8"	(269.9)
B3100-16	16"	(400)	1"-8	--	21 3/8"	(542.9)	13 3/8"	(339.7)	11 9/16"	(293.7)
B3100-18	18"	(450)	1"-8	--	25"	(635.0)	16"	(406.4)	14 3/16"	(360.3)
B3100-20	20"	(500)	1 1/4"-7	--	28 3/4"	(730.2)	17 3/4"	(450.8)	16 5/8"	(422.3)
B3100-24	24"	(600)	1 1/4"-7	--	32 3/4"	(831.8)	19 3/4"	(501.6)	18 5/8"	(473.1)
B3100-30	30"	(750)	1 1/4"-7	--	39 15/16"	(1014.4)	24 15/16"	(633.4)	22 3/4"	(577.8)
B3100-36	36"	(900)	1 1/4"-7	--	46"	(1168.4)	28"	(711.2)	25"	(635.0)

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

B3100 - Standard Clevis Hanger (TOLCO Fig.1)

Component of State of California OSHPD Approved Seismic Restraints System

Size Range: 1/2" (15mm) to 36" (900mm)

Material: Steel

Function: Recommended for the suspension of non-insulated pipe or insulated pipe with a B3151 shield.

Note: When an oversized clevis is used, a pipe spacer should be placed over the cross bolt to assure that the lower U-strap will not move in on the bolt. When attaching seismic bracing to the clevis hangers, a B3100PS (cross bolt spacer) must be installed. See Seismic Restraints Approval Guidelines.

Order pipe sleeves Fig. 1CBS-(pipe size) separately.

Approvals: 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 B-Line/TOLCO Seismic Restraint Systems Guidelines. Underwriter's Laboratories Listed in the USA (UL) and Canada (cUL) for sizes 3/4" (20mm) thru 12" (300mm). Factory Mutual Engineering Approved (FM) for 3/4" (20mm) thru 12" (300mm) pipe. Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 1 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 1. Also available to accommodate rod schedule per per National Fire Protection Association (NFPA) Pamphlet 13.

Maximum Temperature: 650°F (343°C).

Standard Finish: Plain, Electro-Galvanized, DURA-GREEN™, or Hot-Dip Galvanized also available in Stainless Steel



Order By: Part number and finish.

For AWWA - Ductile Iron Clevis Hangers, see B3102, page 51.

**** Note:** Do not use the dimensions shown in the B3100 chart for NFPA hanger sizes. Contact B-Line for NFPA rod sizing on 1/2" (15mm) thru 12" (300mm) pipe. Part numbers will be 1NFPA-pipe size.

Part No.	E		Adjustment F		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3100-1/2	2 1/2"	(63.5)	7/16"	(11.1)	730	(3.25)	25	(11.3)
B3100-3/4	2 1/2"	(63.5)	1/2"	(12.7)	730	(3.25)	29	(13.1)
B3100-1	2 1/2"	(63.5)	5/8"	(15.9)	730	(3.25)	35	(15.9)
B3100-1 1/4	2 1/2"	(63.5)	7/8"	(22.2)	730	(3.25)	40	(18.1)
B3100-1 1/2	2 1/2"	(63.5)	1 3/16"	(30.2)	730	(3.25)	42	(19.0)
B3100-2 *	2 1/2"	(63.5)	1 5/8"	(41.3)	730	(3.25)	52	(23.6)
B3100-2 1/2 *	2 1/2"	(63.5)	2"	(50.8)	1350	(6.00)	90	(40.8)
B3100-3 *	2 1/2"	(63.5)	2"	(50.8)	1350	(6.00)	110	(49.9)
B3100-3 1/2	2 1/2"	(63.5)	2"	(50.8)	1350	(6.00)	142	(64.4)
B3100-4 *	2 1/2"	(63.5)	2"	(50.8)	1430	(6.36)	132	(59.9)
B3100-5 *	2 1/2"	(63.5)	2"	(50.8)	1430	(6.36)	215	(97.5)
B3100-6 *	3"	(76.2)	2"	(50.8)	1940	(8.63)	320	(145.1)
B3100-8	3 1/2"	(88.9)	2 5/16"	(58.7)	2000	(8.89)	485	(220.0)
B3100-10	3 1/2"	(88.9)	2 5/16"	(58.7)	3600	(16.01)	846	(383.7)
B3100-12	3 1/2"	(88.9)	2 5/8"	(66.7)	3800	(16.90)	1083	(491.2)
B3100-14	4"	(101.6)	2 7/8"	(73.0)	4200	(18.68)	1432	(649.5)
B3100-16	4"	(101.6)	2 11/16"	(68.3)	4600	(20.46)	2200	(997.9)
B3100-18	4 1/2"	(114.3)	3 15/16"	(100.0)	4800	(21.35)	2500	(1134.0)
B3100-20	5"	(127.0)	5 3/8"	(136.5)	4800	(21.35)	4400	(1995.8)
B3100-24	5"	(127.0)	5 3/8"	(136.5)	4800	(21.35)	5000	(2268.0)
B3100-30	5"	(127.0)	6 1/4"	(158.7)	6000	(26.69)	6600	(2993.7)
B3100-36	5"	(127.0)	5 7/16"	(138.1)	6000	(26.69)	8474	(3843.8)

*SLIDE-RITE™ Clevis Hanger design, as shown above, for sizes 2, 2 1/2, 3, 4, 5 & 6.

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

Pipe Hangers

B3102 - A.W.W.A. Clevis Hanger (TOLCO Fig.1C1)

Size Range: 4" (100mm) to 24" (600mm)

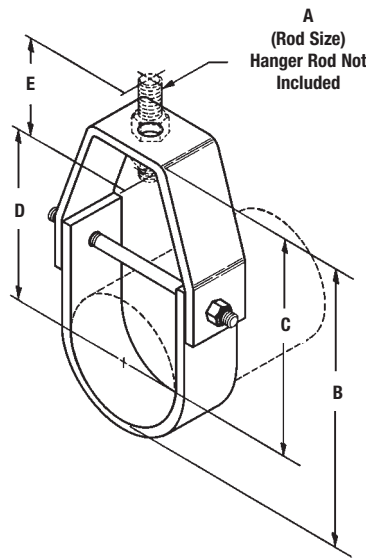
Material: Steel

Function: Recommended for the suspension of flanged or bell and spigot A.W.W.A. cast iron or ductile iron pipe. The O.D. of the A.W.W.A. iron pipe is shown in the data table.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 1 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 1.

Standard Finish: Plain & Electro-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



- B
Bottom of pipe to top of hanger.
- C
Center of pipe to top of hanger.
- D
Rod Take-Out
Center of pipe to bottom of hanger rod.
- E
Minimum thread length of hanger rod
- F
Adjustment
Top of cross bolt to bottom of hanger rod nut inside the hanger.



Part No.	Pipe O.D.		Rod Size A	B		C		D		E		F		Design Load		Approx. Wt./100	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3102-4	4.80	(121.9)	5/8"-11	8 ⁵ / ₁₆ "	(211.1)	5 ¹³ / ₁₆ "	(147.6)	4 ⁵ / ₈ "	(117.5)	2 ¹ / ₂ "	(63.5)	2"	(50.8)	1430	(6.36)	203	(92.1)
B3102-6	6.90	(175.2)	3/4"-10	10 ⁵ / ₈ "	(269.9)	7 ¹ / ₁₆ "	(179.4)	5 ¹³ / ₁₆ "	(147.6)	3"	(76.2)	2"	(50.8)	1940	(8.63)	352	(159.6)
B3102-8	9.05	(229.9)	3/4"-10	13 ¹ / ₄ "	(336.5)	8 ⁵ / ₈ "	(219.1)	7 ³ / ₁₆ "	(182.5)	3 ¹ / ₂ "	(88.9)	2 ¹ / ₈ "	(54.0)	2000	(8.89)	532	(241.3)
B3102-10	11.10	(281.9)	7/8"-9	15 ⁷ / ₈ "	(403.2)	10 ¹ / ₄ "	(260.3)	8 ¹¹ / ₁₆ "	(220.6)	3 ¹ / ₂ "	(88.9)	2 ¹ / ₄ "	(57.1)	3600	(16.01)	800	(362.9)
B3102-12	13.20	(335.3)	7/8"-9	18"	(457.2)	11 ⁵ / ₁₆ "	(287.3)	9 ³ / ₄ "	(247.6)	3 ¹ / ₂ "	(88.9)	2 ¹ / ₄ "	(57.1)	3800	(16.90)	1152	(522.5)
B3102-14	15.30	(388.6)	1"-8	20 ³ / ₈ "	(517.5)	12 ⁵ / ₈ "	(320.7)	11 ³ / ₁₆ "	(281.6)	4"	(101.6)	2 ⁷ / ₈ "	(73.0)	4200	(18.68)	1449	(657.2)
B3102-16	17.40	(441.9)	1"-8	23 ¹ / ₂ "	(569.9)	14 ¹¹ / ₁₆ "	(373.1)	12 ⁷ / ₈ "	(327.0)	4"	(101.6)	3 ³ / ₈ "	(85.7)	4600	(20.46)	2100	(952.6)
B3102-18	19.50	(495.3)	1"-8	25 ⁵ / ₈ "	(650.9)	15 ³ / ₄ "	(400.0)	13 ¹⁵ / ₁₆ "	(354.0)	4 ¹ / ₂ "	(114.3)	3 ³ / ₈ "	(85.7)	4800	(21.35)	2294	(1040.5)
B3102-20	21.60	(548.6)	1 ¹ / ₄ "-7	29 ¹ / ₂ "	(749.3)	18 ⁹ / ₁₆ "	(471.5)	17 ⁷ / ₁₆ "	(442.9)	5"	(127.0)	4 ¹³ / ₁₆ "	(122.2)	4800	(21.35)	3887	(1763.1)
B3102-24	25.80	(655.3)	1 ¹ / ₄ "-7	33"	(838.2)	19 ¹ / ₈ "	(508.0)	20"	(485.8)	5"	(127.0)	5 ¹ / ₄ "	(133.3)	4800	(21.35)	4844	(2197.2)

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

B3108 - Extended Clevis Hanger (TOLCO Fig.1A)

Size Range: 3/4" (20mm) thru 12" (300mm) pipe

Material: Steel

Function: Recommended for the suspension of insulated pipe where the temperature does not require the use of slides, guides, or rollers for movement.

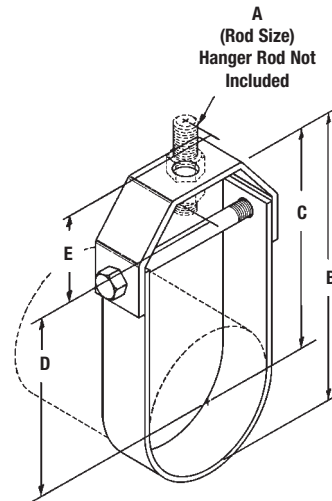
Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 1 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 1.

Maximum Temperature: 650°F (343°C).

Order By: Part number and finish. For service For Stainless Steel add SS to part number.

Standard Finish: Plain, Electro-Galvanized or Hot Dip Galvanized

For service temperatures of 750°F (399°C) thru 1050°F (565°C) specify Type 304 Stainless Steel



- B** Bottom of pipe to top of hanger.
- C** Center of pipe to top of hanger.
- D** Rod Take-Out
Center of pipe to bottom of hanger rod.
- E** Minimum thread length of hanger rod.
- F** Adjustment
Top of cross bolt to bottom of hanger rod nut inside the hanger.
- H** Maximum insulation thickness.

Part No.	Nominal Pipe Size		Rod Size A	B		C		D	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)
B3108-3/4	3/4"	(20)	3/8"-16	4 3/8"	(111.1)	3 13/16"	(96.8)	3 1/16"	(77.8)
B3108-1	1"	(25)	3/8"-16	4 3/4"	(120.6)	4 1/16"	(103.2)	3 1/4"	(82.5)
B3108-1 1/4	1 1/4"	(32)	3/8"-16	5 3/8"	(136.5)	4 1/2"	(114.3)	3 5/16"	(84.1)
B3108-1 1/2	1 1/2"	(40)	3/8"-16	6 7/8"	(174.6)	5 15/16"	(150.8)	5 1/8"	(130.2)
B3108-2	2"	(50)	3/8"-16	8 13/16"	(223.8)	7 5/8"	(193.7)	6 7/8"	(174.6)
B3108-2 1/2	2 1/2"	(65)	1/2"-13	10"	(254.0)	8 1/2"	(215.9)	7 9/16"	(192.1)
B3108-3	3"	(80)	1/2"-13	10 5/8"	(269.9)	8 13/16"	(223.8)	7 7/8"	(200.0)
B3108-4	4"	(100)	5/8"-11	11 13/16"	(300.0)	9 1/2"	(241.3)	8 3/8"	(212.7)
B3108-5	5"	(125)	5/8"-11	13 1/8"	(333.4)	10 5/16"	(261.9)	9 1/8"	(231.8)
B3108-6	6"	(150)	3/4"-10	14 3/8"	(365.1)	11"	(279.5)	9 11/16"	(246.0)
B3108-8	8"	(200)	3/4"-10	16 3/4"	(425.4)	12 3/8"	(314.3)	11 1/8"	(282.6)
B3108-10	10"	(250)	7/8"-9	19 1/4"	(488.9)	13 13/16"	(350.8)	12 5/16"	(312.7)
B3108-12	12"	(300)	7/8"-9	21 5/8"	(549.3)	15 3/16"	(385.8)	13 5/8"	(346.1)



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Part No.	E		F		H		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kg)
B3108-3/4	2 1/2"	(63.5)	1/2"	(12.7)	2"	(50.8)	730	(3.25)	45	(20.4)
B3108-1	2 1/2"	(63.5)	5/8"	(15.9)	2"	(50.8)	730	(3.25)	49	(22.2)
B3108-1 1/4	2 1/2"	(63.5)	7/8"	(22.2)	2"	(50.8)	730	(3.25)	55	(24.9)
B3108-1 1/2	2 1/2"	(63.5)	1 3/16"	(30.2)	2"	(50.8)	730	(3.25)	67	(30.4)
B3108-2	2 1/2"	(63.5)	1 5/8"	(41.3)	4"	(101.6)	730	(3.25)	83	(37.6)
B3108-2 1/2	2 1/2"	(63.5)	2"	(50.8)	4"	(101.6)	1350	(6.00)	177	(80.3)
B3108-3	2 1/2"	(63.5)	2"	(50.8)	4"	(101.6)	1350	(6.00)	191	(86.6)
B3108-4	2 1/2"	(63.5)	2"	(50.8)	4"	(101.6)	1430	(6.36)	237	(107.5)
B3108-5	2 1/2"	(63.5)	2"	(50.8)	4"	(101.6)	1430	(6.36)	302	(137.0)
B3108-6	3"	(76.2)	2"	(50.8)	4"	(101.6)	1940	(8.63)	397	(180.1)
B3108-8	3 1/2"	(88.9)	2 5/16"	(58.7)	4"	(101.6)	2000	(8.89)	582	(264.0)
B3108-10	3 1/2"	(88.9)	2 5/16"	(58.7)	4"	(101.6)	3600	(16.01)	968	(439.1)
B3108-12	3 1/2"	(88.9)	2 5/8"	(66.7)	4"	(101.6)	3800	(16.90)	1221	(553.8)

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

Pipe Hangers

B3100C - Standard Clevis Hanger - Plastic Coated (TOLCO Fig.1PVC)

B3100F - Standard Clevis Hanger - Felt Lined for Copper Tubing (TOLCO Fig.1F)

Size Range: 1/2" (15mm) to 8" (200mm) pipe

Material: Steel

Insulation Material: 3/16" (4.8mm) Felt

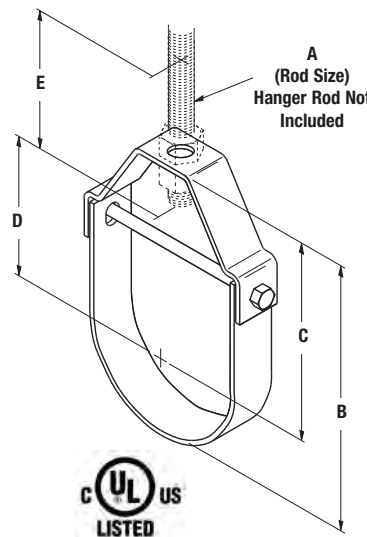
Service: The B3100F is designed for the suspension of copper tube so as to prevent electrolysis between tubing and hanger. The B3100C is designed for steel or other pipe types of the same O.D. Both B3100F and B3100C act to reduce noise and vibration in pipe or tubing systems.

Approvals: Underwriter's Laboratories Listed in the USA (UL) and Canada (cUL).

Maximum Temperature: 650°F (343°C).

Standard Finish: Plain, Electro-Galvanized, or Hot-Dip Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



- B**
Bottom of pipe to top of hanger.
- C**
Center of pipe to top of hanger.
- D**
Rod Take-Out
Center of pipe to bottom of hanger rod.
- E**
Minimum thread length of hanger rod
- F**
Adjustment
Top of cross bolt to bottom of hanger rod nut inside the hanger.

Part No.	Pipe Size		Rod Size A	B		C		D	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)
B3100-1/2	1/2"	(15)	3/8"-16	2 1/8"	(54.0)	1 11/16"	(42.9)	15/16"	(23.8)
B3100-3/4	3/4"	(20)	3/8"-16	2 7/16"	(61.9)	1 7/8"	(47.6)	1 1/8"	(28.6)
B3100-1	1"	(25)	3/8"-16	2 13/16"	(71.4)	2 1/8"	(54.0)	1 3/8"	(34.9)
B3100-1 1/4	1 1/4"	(32)	3/8"-16	3 7/16"	(87.3)	2 9/16"	(65.1)	1 13/16"	(46.0)
B3100-1 1/2	1 1/2"	(40)	3/8"-16	4"	(101.6)	3"	(76.2)	2 1/4"	(57.1)
B3100-2	2"	(50)	3/8"-16	4 1/2"	(114.3)	3 1/4"	(82.5)	2 1/2"	(63.5)
B3100-2 1/2	2 1/2"	(65)	1/2"-13	5 9/16"	(141.3)	4"	(101.6)	3 1/16"	(77.8)
B3100-3	3"	(80)	1/2"-13	6 3/4"	(171.4)	4 7/8"	(123.8)	3 15/16"	(100.0)
B3100-3 1/2	3 1/2"	(90)	1/2"-13	7"	(177.8)	5"	(127.0)	4 1/16"	(103.2)
B3100-4	4"	(100)	5/8"-11	7 13/16"	(198.4)	5 1/2"	(139.7)	4 3/8"	(111.1)
B3100-5	5"	(125)	5/8"-11	9 1/16"	(230.2)	6 1/8"	(155.6)	5"	(127.0)
B3100-6	6"	(150)	3/4"-10	10 7/16"	(265.1)	6 15/16"	(176.2)	5 11/16"	(144.5)
B3100-8	8"	(200)	3/4"-10	12 3/4"	(323.8)	8 3/8"	(212.7)	7 1/8"	(181.0)

Part No.	E		Adjustment F		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3100-1/2	2 1/2"	(63.5)	7/16"	(11.1)	730	(3.25)	25	(11.3)
B3100-3/4	2 1/2"	(63.5)	1/2"	(12.7)	730	(3.25)	29	(13.1)
B3100-1	2 1/2"	(63.5)	5/8"	(15.9)	730	(3.25)	35	(15.9)
B3100-1 1/4	2 1/2"	(63.5)	7/8"	(22.2)	730	(3.25)	40	(18.1)
B3100-1 1/2	2 1/2"	(63.5)	1 3/16"	(30.2)	730	(3.25)	42	(19.0)
B3100-2	2 1/2"	(63.5)	1 5/8"	(41.3)	730	(3.25)	52	(23.6)
B3100-2 1/2	2 1/2"	(63.5)	2"	(50.8)	1350	(6.00)	90	(40.8)
B3100-3	2 1/2"	(63.5)	2"	(50.8)	1350	(6.00)	110	(49.9)
B3100-3 1/2	2 1/2"	(63.5)	2"	(50.8)	1350	(6.00)	142	(64.4)
B3100-4	2 1/2"	(63.5)	2"	(50.8)	1430	(6.36)	132	(59.9)
B3100-5	2 1/2"	(63.5)	2"	(50.8)	1430	(6.36)	215	(97.5)
B3100-6	3"	(76.2)	2"	(50.8)	1940	(8.63)	320	(145.1)
B3100-8	3 1/2"	(88.9)	2 5/16"	(58.7)	2000	(8.89)	485	(220.0)



B3100C



B3100F

B3690 - J-Hanger for Pipe or Conduit (TOLCO Fig. 3)

B3690F - Felt Lined J-Hanger for Copper Tubing (TOLCO Fig. 3F)

B3690C - PVC Coated J-Hanger for Pipe or Conduit (TOLCO Fig. 3PVC)

Size Range: 1/2" (15mm) to 10" (250mm) pipe size

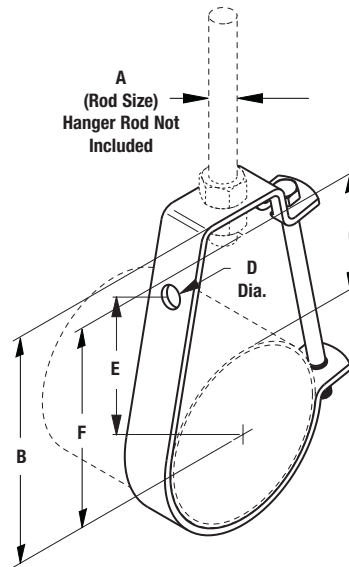
Material: Steel

Function: Recommended for the suspension of non-insulated pipe, or insulated pipe with B3151 shield. Side hole allows for wall mounting. B3690F and B3690C are designed to reduce noise and vibration and/or prevent electrolysis between pipe and hanger.

Approvals: Conforms Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 5.

Standard Finish: Electro-Plated. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



B
Center of pipe to top of hanger.

F
Rod Take-Out
Center of pipe to bottom of hanger rod.



B3690F



B3690C



Part No.	Pipe O.D.		Rod Size		B		C		D		E		F		Design Load		Approx. Wt./100	
	in.	(mm)	A	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)	
B3690-1/2	1/2"	(15)	3/8"-16	2 ⁵ / ₈ "	(66.7)	1 ³ / ₄ "	(44.4)	7/16"	(11.1)	1 ¹ / ₂ "	(38.1)	1 ¹⁵ / ₁₆ "	(49.2)	400	(1.78)	18	(8.1)	
B3690-3/4	3/4"	(20)	3/8"-16	2 ⁷ / ₈ "	(73.0)	1 ⁷ / ₈ "	(47.6)	7/16"	(11.1)	1 ¹¹ / ₁₆ "	(42.9)	2 ¹ / ₈ "	(54.0)	400	(1.78)	21	(9.5)	
B3690-1	1"	(25)	3/8"-16	2 ¹⁵ / ₁₆ "	(74.6)	1 ¹⁵ / ₁₆ "	(49.2)	7/16"	(11.1)	1 ¹³ / ₁₆ "	(46.0)	2 ⁵ / ₁₆ "	(58.7)	400	(1.78)	22	(10.0)	
B3690-1 ¹ / ₄	1 ¹ / ₄ "	(32)	3/8"-16	3 ¹ / ₄ "	(82.5)	2"	(50.8)	7/16"	(11.1)	2 ¹ / ₁₆ "	(52.4)	2 ⁵ / ₈ "	(66.7)	400	(1.78)	25	(11.3)	
B3690-1 ¹ / ₂	1 ¹ / ₂ "	(40)	3/8"-16	3 ⁹ / ₁₆ "	(90.5)	2 ³ / ₁₆ "	(55.6)	7/16"	(11.1)	2 ⁷ / ₁₆ "	(61.9)	2 ⁷ / ₈ "	(73.0)	400	(1.78)	27	(12.2)	
B3690-2	2"	(50)	3/8"-16	3 ¹¹ / ₁₆ "	(93.7)	2 ¹ / ₈ "	(54.0)	7/16"	(11.1)	2 ⁹ / ₁₆ "	(65.1)	3 ¹ / ₁₆ "	(77.8)	400	(1.78)	29	(13.1)	
B3690-2 ¹ / ₂	2 ¹ / ₂ "	(65)	1/2"-13	4 ⁷ / ₁₆ "	(112.7)	2 ⁷ / ₁₆ "	(61.9)	9/16"	(14.3)	3 ³ / ₁₆ "	(81.0)	3 ⁵ / ₈ "	(92.1)	500	(2.22)	64	(29.0)	
B3690-3	3"	(80)	1/2"-13	4 ¹³ / ₁₆ "	(122.2)	2 ⁹ / ₁₆ "	(65.1)	9/16"	(14.3)	3 ¹ / ₂ "	(88.9)	4 ¹ / ₁₆ "	(103.2)	500	(2.22)	72	(32.6)	
B3690-3 ¹ / ₂	3 ¹ / ₂ "	(90)	1/2"-13	5 ¹ / ₈ "	(130.2)	2 ⁵ / ₈ "	(66.7)	9/16"	(14.3)	3 ³ / ₄ "	(95.2)	4 ³ / ₈ "	(111.1)	500	(2.22)	84	(38.1)	
B3690-4	4"	(100)	5/8"-11	6 ¹ / ₈ "	(155.6)	3 ³ / ₁₆ "	(81.0)	9/16"	(14.3)	4 ⁵ / ₈ "	(117.5)	5 ³ / ₁₆ "	(131.8)	550	(2.44)	138	(62.6)	
B3690-5	5"	(125)	5/8"-11	6 ³ / ₄ "	(171.4)	3 ¹ / ₄ "	(82.5)	9/16"	(14.3)	5 ¹ / ₁₆ "	(128.6)	5 ³ / ₄ "	(146.0)	550	(2.44)	162	(73.5)	
B3690-6	6"	(150)	3/4"-10	7 ³ / ₄ "	(196.8)	3 ⁹ / ₁₆ "	(90.5)	9/16"	(14.3)	5 ¹³ / ₁₆ "	(147.6)	6 ⁵ / ₈ "	(168.3)	600	(2.67)	249	(112.9)	
B3690-8	8"	(200)	7/8"-9	9 ³ / ₁₆ "	(233.4)	3 ¹⁵ / ₁₆ "	(100.0)	9/16"	(14.3)	6 ¹⁵ / ₁₆ "	(176.2)	8"	(203.3)	760	(3.38)	291	(132.0)	
B3690-10	10"	(250)	7/8"-9	10 ³ / ₄ "	(273.0)	3 ⁷ / ₈ "	(98.4)	9/16"	(14.3)	7 ⁵ / ₈ "	(193.7)	9 ¹ / ₈ "	(231.8)	760	(3.38)	315	(142.9)	

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

Pipe Hangers

B3109 - Flat Top Clevis Hanger

Size Range: 2" (50mm) to 8" (200mm) pipe size

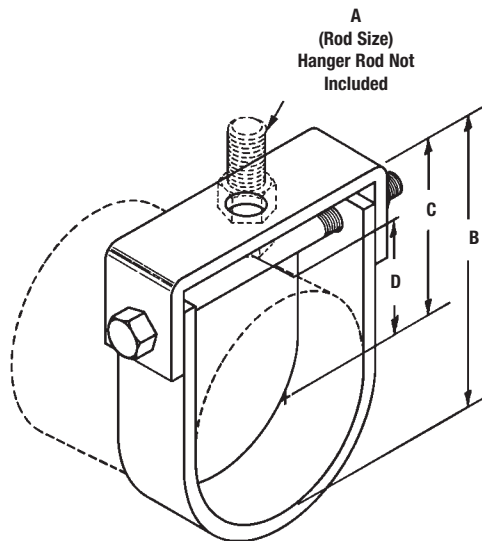
Material: Steel

Function: Recommended for suspending non-insulated, stationary pipe where space is limited.

Approvals: Complies with Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 Type 1.

Standard Finish: Plain or Electro-Galvanized

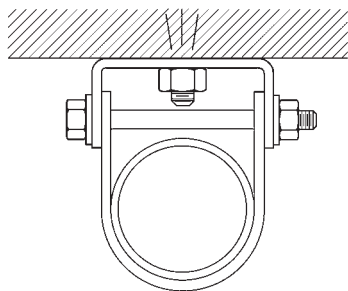
Order By: Part number and finish.



B
Bottom of pipe to top of hanger.

C
Center of pipe to top of hanger.

D
Rod Take-Out Center of pipe to bottom of hanger rod.



Pipe Hangers

Part No.	Pipe Size		Rod Size A	B	
	in.	(mm)		in.	(mm)
B3109-2	2"	(50)	3/8"-16	3 ¹³ / ₁₆ "	(96.8)
B3109-2 ¹ / ₂	2 ¹ / ₂ "	(65)	1/2"-13	4 ⁵ / ₈ "	(117.5)
B3109-3	3"	(80)	1/2"-13	5 ⁵ / ₁₆ "	(134.9)
B3109-3 ¹ / ₂	3 ¹ / ₂ "	(90)	1/2"-13	5 ¹³ / ₁₆ "	(147.6)
B3109-4	4"	(100)	5/8"-11	6 ¹ / ₂ "	(165.1)
B3109-5	5"	(125)	5/8"-11	7 ¹³ / ₁₆ "	(198.4)
B3109-6	6"	(150)	3/4"-10	9 ⁷ / ₁₆ "	(230.2)
B3109-8	8"	(200)	3/4"-10	11 ³ / ₈ "	(288.9)

Part No.	C		Rod Take-Out D		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3109-2	2 ⁵ / ₈ "	(66.7)	1 ⁷ / ₈ "	(47.6)	300	(1.33)	52	(23.6)
B3109-2 ¹ / ₂	3 ³ / ₁₆ "	(81.0)	2 ³ / ₁₆ "	(55.6)	500	(2.22)	116	(52.6)
B3109-3	3 ⁹ / ₁₆ "	(90.5)	2 ⁵ / ₈ "	(66.7)	500	(2.22)	133	(60.3)
B3109-3 ¹ / ₂	3 ¹³ / ₁₆ "	(96.8)	2 ⁷ / ₈ "	(73.0)	500	(2.22)	145	(65.8)
B3109-4	4 ¹ / ₄ "	(107.9)	3 ¹ / ₈ "	(79.4)	700	(3.11)	180	(81.6)
B3109-5	5"	(127.0)	3 ⁷ / ₈ "	(98.4)	700	(3.11)	248	(112.5)
B3109-6	5 ¹¹ / ₁₆ "	(144.5)	4 ⁷ / ₁₆ "	(112.7)	900	(4.00)	332	(150.6)
B3109-8	7"	(177.8)	5 ¹³ / ₁₆ "	(147.6)	1000	(4.45)	513	(232.7)

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

B3106 - Vee Bottom Clevis Hanger (TOLCO Fig. 1V)

Size Range: 1/2" (15mm) to 4" (100mm) pipe

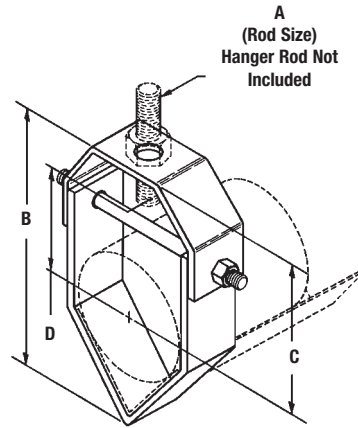
Material: Steel

Function: Recommended for the suspension of flexible plastic pipe. Use with B3106V support trough for plastic pipe.

Approvals: Complies with Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 Type 1.

Standard Finish: Plain & Electro-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



B
Overall Height
C
Center of pipe to top of hanger.
D
Rod Take-Out
Center of pipe to bottom of hanger rod.
E
Minimum thread length of hanger rod.



Part No.	Pipe Size		Rod Size A	B		C	
	in.	(mm)		in.	(mm)	in.	(mm)
B3106-2	1/2" to 2"	(15 to 50)	3/8"-16	5 15/16"	(150.8)	4 1/16"	(103.2)
B3106-4	2 1/2" to 4"	(65 to 100)	1/2"-13	9 3/8"	(238.1)	6"	(152.4)

Part No.	Rod Take-Out D		Adjustment E		Design Load		Approx Wt./100	
	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3106-2	3 5/16"	(84.1)	1 5/8"	(41.3)	150	(.67)	60	(27.2)
B3106-4	4 13/16"	(122.2)	2 3/16"	(55.6)	150	(.67)	143	(64.8)

B3106V - Plastic Pipe Support Channel (TOLCO Fig. 1VT)

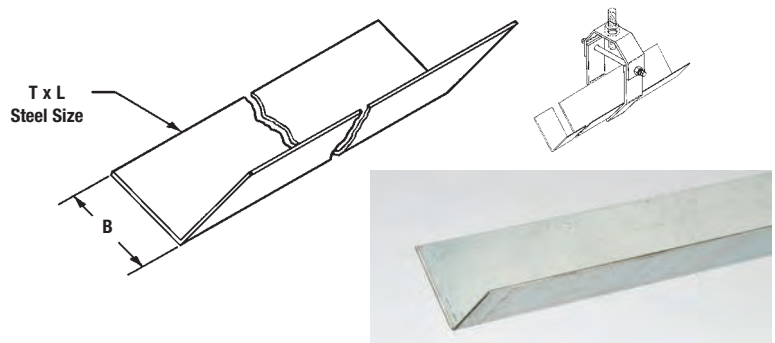
Size Range: 1/2" (15mm) to 4" (100mm) pipe

Material: Steel

Function: Designed for use with B3106 as a support for plastic or other flexible pipe systems.

Standard Finish: Pre-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



Part No.	For Nominal Pipe Sizes		Steel Size T x L		B		Maximum Hanger Spacing		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	in.	(mm)	Ft.	(M)	Lbs.	(kN)	Lbs.	(kg)
B3106V-2	1/2" to 2"	(15 to 50)	18 Ga. x 96"	(1.2 x 2438.4)	1 9/16"	(39.7)	8	(2.44)	150	(.67)	449	(203.6)
B3106V-4	2 1/2" to 4"	(65 to 100)	18 Ga. x 120"	(1.2 x 3048.0)	3 1/8"	(79.4)	10	(3.05)	150	(.67)	1123	(509.4)

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

Pipe Hangers

B3104 - Light-Duty Clevis Hanger B3104F - Light-Duty Clevis Hanger - Felt Lined B3104C - Light-Duty Clevis Hanger - PVC Coated

Size Range: 1/2" (15mm) to 4" (100mm) pipe

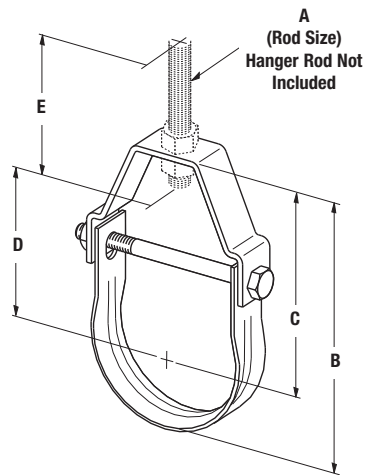
Material: Steel

Function: Recommended for the suspension of light stationary pipe allowing for vertical adjustment.

Approvals: Underwriter's Laboratories Listed in the USA (UL) and Canada (cUL) for sizes 3/4" (20mm) thru 4" (100mm). Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 12 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 1.

Standard Finish: Plain, Electro-Galvanized, or DURA-GREEN™

Order By: Part number and finish.



- B**
Bottom of pipe to top of hanger.
- C**
Center of pipe to top of hanger.
- D**
Rod Take-Out
Center of pipe to bottom of hanger rod.
- E**
Minimum thread length of hanger rod.
- F**
Adjustment
Top of cross bolt to bottom of hanger rod nut inside the hanger.



*Slide-Rite™ Clevis Hanger design for sizes 2, 3 & 4.

Pat. No. 5,848,770
5,924,655



B3104C



B3104F

Part No.	Pipe Size		Rod Size A	B		C	
	in.	(mm)		in.	(mm)	in.	(mm)
B3104-1/2	1/2"	(15)	3/8"-16	1 ¹⁵ / ₁₆ "	(49.2)	1 ¹ / ₂ "	(38.1)
B3104-3/4	3/4"	(20)	3/8"-16	2 ⁵ / ₁₆ "	(58.7)	1 ³ / ₄ "	(44.4)
B3104-1	1"	(25)	3/8"-16	2 ³ / ₄ "	(69.8)	2 ¹ / ₁₆ "	(52.4)
B3104-1 ¹ / ₄	1 ¹ / ₄ "	(32)	3/8"-16	3 ⁵ / ₁₆ "	(84.1)	2 ⁷ / ₁₆ "	(61.9)
B3104-1 ¹ / ₂	1 ¹ / ₂ "	(40)	3/8"-16	3 ⁵ / ₈ "	(92.1)	2 ⁵ / ₈ "	(66.7)
B3104-2 *	2"	(50)	3/8"-16	4 ¹³ / ₁₆ "	(122.2)	3 ⁵ / ₈ "	(92.1)
B3104-2 ¹ / ₂	2 ¹ / ₂ "	(65)	1/2"-13	5 ¹³ / ₁₆ "	(147.6)	4 ⁵ / ₁₆ "	(109.5)
B3104-3 *	3"	(80)	1/2"-13	6 ⁷ / ₁₆ "	(163.5)	4 ⁵ / ₈ "	(117.5)
B3104-3 ¹ / ₂	3 ¹ / ₂ "	(90)	1/2"-13	6 ¹⁵ / ₁₆ "	(176.2)	4 ¹⁵ / ₁₆ "	(125.4)
B3104-4 *	4"	(100)	1/2"-13	7 ³ / ₄ "	(196.8)	5 ¹ / ₂ "	(139.7)

Part No.	Rod Take-Out D		E	Adjustment F		Design Load		Approx. Wt./100		
	in.	(mm)		in.	(mm)	Lbs.	(kN)	Lbs.	(kg)	
B3104-1/2	1 ³ / ₁₆ "	(20.6)	2 ¹ / ₂ "	(63.5)	7 ¹ / ₁₆ "	(11.1)	150	(.67)	13	(5.9)
B3104-3/4	1"	(25.4)	2 ¹ / ₂ "	(63.5)	7 ¹ / ₁₆ "	(11.1)	250	(1.11)	22	(10.0)
B3104-1	1 ³ / ₈ "	(34.9)	2 ¹ / ₂ "	(63.5)	9 ¹ / ₁₆ "	(14.3)	250	(1.11)	24	(10.9)
B3104-1 ¹ / ₄	1 ³ / ₄ "	(44.4)	2 ¹ / ₂ "	(63.5)	1 ³ / ₁₆ "	(20.6)	250	(1.11)	29	(13.1)
B3104-1 ¹ / ₂	2"	(50.8)	2 ¹ / ₂ "	(63.5)	1"	(25.4)	250	(1.11)	30	(13.6)
B3104-2 *	2 ¹⁵ / ₁₆ "	(74.6)	2 ¹ / ₂ "	(63.5)	1 ³ / ₄ "	(44.4)	250	(1.11)	35	(15.9)
B3104-2 ¹ / ₂	3 ⁷ / ₁₆ "	(87.3)	2 ¹ / ₂ "	(63.5)	2"	(50.8)	350	(1.55)	82	(37.2)
B3104-3 *	3 ³ / ₄ "	(95.2)	2 ¹ / ₂ "	(63.5)	2"	(50.8)	350	(1.55)	91	(41.3)
B3104-3 ¹ / ₂	4"	(101.6)	2 ¹ / ₂ "	(63.5)	2"	(50.8)	350	(1.55)	98	(44.4)
B3104-4 *	4 ⁹ / ₁₆ "	(115.9)	2 ¹ / ₂ "	(63.5)	2 ³ / ₁₆ "	(55.6)	400	(1.78)	132	(59.9)

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

B3104CT - Clevis Hanger (TOLCO Fig. 81)
B3104CTC - Clevis Hanger - PVC Coated (TOLCO Fig. 81PVC)

Size Range: 1/2" (15mm) to 6" (150mm) copper tubing

Material: Steel

Function: Recommended for the suspension of non- insulated stationary copper tubing lines. Available with plastic coating to provide additional separation between tubing and hanger.

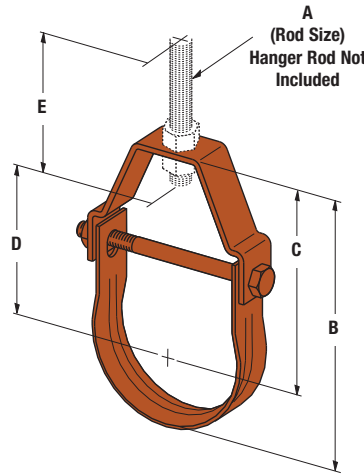
Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 12 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 1.

Standard Finish: DURA-COPPER™

Order By: Part number and finish.



B3104CTC



- B
Bottom of pipe to top of hanger.
- C
Center of pipe to top of hanger.
- D
Rod Take-Out
Center of pipe to bottom
of hanger rod.
- E
Minimum thread length
of hanger rod.
- F
Adjustment
Top of cross bolt to bottom of
hanger rod nut inside the hanger.



B3104CT

Part No.	Tubing Size		Rod Size A	B		C		Rod Take-Out D	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)
B3104CT-1/2	1/2"	(15)	3/8"-16	2 1/4"	(57.1)	1 15/16"	(49.2)	1 1/8"	(28.6)
B3104CT-3/4	3/4"	(20)	3/8"-16	1 15/16"	(49.2)	1 1/2"	(38.1)	1 1/8"	(28.6)
B3104CT-1	1"	(25)	3/8"-16	2 5/16"	(58.7)	1 3/4"	(44.4)	1 5/16"	(33.3)
B3104CT-1 1/4	1 1/4"	(32)	3/8"-16	2 3/4"	(69.8)	2 1/16"	(52.4)	1 9/16"	(39.7)
B3104CT-1 1/2	1 1/2"	(40)	3/8"-16	3 5/16"	(84.1)	2 7/16"	(61.9)	2 1/16"	(52.4)
B3104CT-2	2"	(50)	3/8"-16	4 1/2"	(114.3)	3 7/16"	(87.3)	3 3/8"	(85.7)
B3104CT-2 1/2	2 1/2"	(65)	1/2"-13	5 11/16"	(144.5)	4 1/2"	(114.3)	3 15/16"	(100.0)
B3104CT-3	3"	(80)	1/2"-13	5 3/16"	(131.8)	3 5/8"	(92.1)	4"	(101.6)
B3104CT-3 1/2	3 1/2"	(90)	1/2"-13	6 1/2"	(165.1)	4 9/16"	(115.9)	4 1/8"	(104.8)
B3104CT-4	4"	(100)	1/2"-13	7 3/8"	(187.3)	3 5/16"	(134.9)	4 3/8"	(111.1)
B3104CT-5	5"	(125)	1/2"-13	9"	(228.6)	6 7/16"	(163.5)	5 3/4"	(146.0)
B3104CT-6	6"	(150)	5/8"-11	10 5/16"	(261.9)	7 1/4"	(184.1)	6 1/2"	(165.1)

Part No.	E		Adjustment F		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3104CT-1/2	2 1/2"	(63.5)	3/8"	(9.5)	150	(.67)	12	(5.4)
B3104CT-3/4	2 1/2"	(63.5)	7/16"	(11.1)	250	(1.11)	12	(5.4)
B3104CT-1	2 1/2"	(63.5)	9/16"	(14.3)	250	(1.11)	22	(10.0)
B3104CT-1 1/4	2 1/2"	(63.5)	9/16"	(14.3)	250	(1.11)	24	(10.9)
B3104CT-1 1/2	2 1/2"	(63.5)	1 5/16"	(23.8)	250	(1.11)	30	(13.6)
B3104CT-2	2 1/2"	(63.5)	1 3/4"	(44.4)	250	(1.11)	35	(15.9)
B3104CT-2 1/2	2 1/2"	(63.5)	2 1/8"	(54.0)	350	(1.55)	80	(36.3)
B3104CT-3	2 1/2"	(63.5)	2 1/16"	(52.4)	350	(1.55)	88	(39.9)
B3104CT-3 1/2	2 1/2"	(63.5)	2 1/8"	(54.0)	350	(1.55)	94	(42.6)
B3104CT-4	2 1/2"	(63.5)	2 1/8"	(54.0)	400	(1.78)	116	(52.6)
B3104CT-5	2 1/2"	(63.5)	2 1/2"	(63.5)	550	(2.44)	208	(94.3)
B3104CT-6	2 1/2"	(63.5)	3"	(76.2)	550	(2.44)	247	(112.0)

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

Pipe Hangers

Fig. 2 - Adjustable Band Hanger (B-Line B3170)

Fig. 2F - Adjustable Band Hanger Felt Lined for Copper Tubing (B-Line B3170F)



Size Range:

Fig. 2 - 2 1/2" (65mm) thru 6" (150mm) pipe

Fig. 2F - 2 1/2" (65mm) thru 6" (150mm) pipe

Material: Pre-Galvanized Steel

Function: Recommended for the suspension of non-insulated pipe or insulated pipe with B3151 shield. Fig. 2NFPA accommodates the reduced rod schedule of the National Fire Protection Association Pamphlet 13.

Approvals: Factory Mutual Engineering Approved. Underwriters Laboratories Listed. Conforms to Federal Specification WW-H-171E & A-A-1192A Type 10 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 10.

Standard Finish: Pre-Galvanized

Note: Available in Stainless Steel material.

Order By: Part number and finish.



Fig. 2

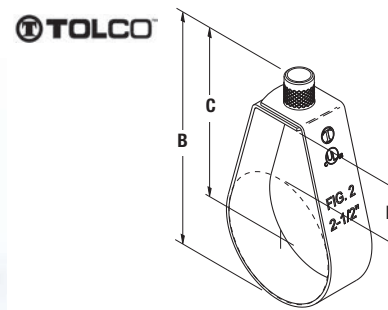


Fig. 2F

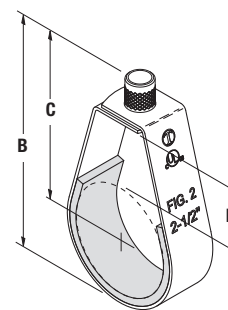


Fig. 2

Nominal Part No.	Pipe Size		Rod Size A	B		C		D		Max. Rec. Load		Approx Wt./100	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kg)
2-2 1/2	2 1/2"	(65)	1/2"-13 *	5 3/4"	(146.0)	4 1/4"	(107.9)	1 5/8"	(41.3)	600	(2.67)	41	(18.6)
2-3	3"	(75)	1/2"-13 *	6"	(152.4)	4 1/8"	(104.8)	1 1/4"	(31.7)	600	(2.67)	45	(20.4)
2-3 1/2	3 1/2"	(90)	1/2"-13 *	7 3/8"	(187.3)	5 1/4"	(133.3)	2 1/8"	(54.0)	600	(2.67)	52	(23.6)
2-4	4"	(100)	5/8"-11 *	7 3/8"	(187.3)	5"	(127.0)	1 5/8"	(41.3)	1000	(4.45)	59	(27.6)
2-5	5"	(125)	5/8"-11 **	9"	(228.6)	6 1/8"	(155.6)	2 1/4"	(57.1)	1250	(5.56)	97	(44.0)
2-6	6"	(150)	3/4"-10 **	9 3/8"	(238.1)	6 1/2"	(165.1)	1 7/8"	(47.6)	1250	(5.56)	139	(63.0)

Fig. 2F

Nominal Part No.	Pipe Size		Rod Size A	B		C		D		Max. Rec. Load		Approx Wt./100	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kg)
2F-2 1/2	2 1/2"	(65)	1/2"-13 *	5 3/4"	(146.0)	4 1/4"	(107.9)	1 5/8"	(41.3)	600	(2.67)	41	(18.6)
2F-3	3"	(75)	1/2"-13 *	6"	(152.4)	4 1/8"	(104.8)	1 1/4"	(31.7)	600	(2.67)	45	(20.4)
2F-3 1/2	3 1/2"	(90)	1/2"-13 *	7 3/8"	(187.3)	5 1/4"	(133.3)	2 1/8"	(54.0)	600	(2.67)	52	(23.6)
2F-4	4"	(100)	5/8"-11 *	7 3/8"	(187.3)	5"	(127.0)	1 5/8"	(41.3)	1000	(4.45)	59	(27.6)
2F-5	5"	(125)	5/8"-11 **	9"	(228.6)	6 1/8"	(155.6)	2 1/4"	(57.1)	1250	(5.56)	97	(44.0)
2F-6	6"	(150)	3/4"-10 **	9 3/8"	(238.1)	6 1/2"	(165.1)	1 7/8"	(47.6)	1250	(5.56)	139	(63.0)

* 3/8" nut is used when requested.

** 1/2" nut is used when requested.

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

B3170CT - Adjustable Swivel Hanger for Copper Tubing (TOLCO Fig. 202) B3170CTC - Adjustable Swivel Hanger for Copper Tubing - Plastic Coated

Size Range: 1/2" (15mm) thru 6" (150mm) copper tubing

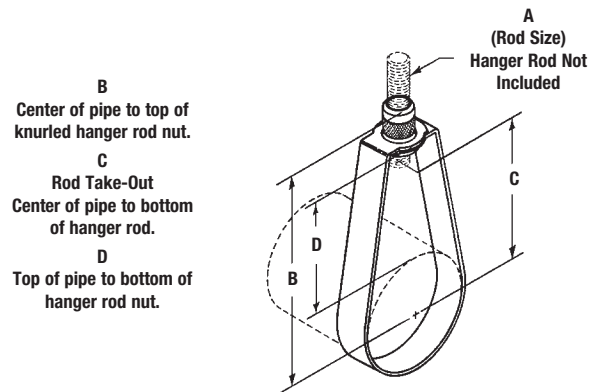
Material: Steel

Function: Recommended for the suspension of copper tubing, allowing for vertical adjustment. (Available with plastic coating to provide additional separation between tubing and hanger.)

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 10 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 10.

Standard Finish: DURA-COPPER™

Order By: Part number and finish.



Part No.	Nominal Pipe Size		Rod Size A	B		C		D	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)
B3170CT-1/2	1/2"	(15)	3/8"-16	2 1/16"	(52.4)	1 1/8"	(28.6)	3 1/32"	(24.6)
B3170CT-3/4	3/4"	(20)	3/8"-16	2 5/16"	(58.7)	1 5/16"	(33.3)	1 1/32"	(26.2)
B3170CT-1	1"	(25)	3/8"-16	2 1/2"	(63.5)	1 9/16"	(39.7)	1 5/32"	(29.3)
B3170CT-1 1/4	1 1/4"	(32)	3/8"-16	2 1/2"	(63.5)	1 9/16"	(39.7)	1"	(25.4)
B3170CT-1 1/2	1 1/2"	(40)	3/8"-16	2 15/16"	(74.6)	2"	(50.8)	1 5/16"	(33.3)
B3170CT-2	2"	(50)	3/8"-16	3 1/8"	(79.4)	2 1/8"	(54.0)	1 3/16"	(30.2)
B3170CT-2 1/2	2 1/2"	(65)	1/2"-13	4 1/16"	(103.2)	2 9/16"	(65.1)	1 3/8"	(34.9)
B3170CT-3	3"	(75)	1/2"-13	3 15/16"	(100.0)	3 3/4"	(95.2)	1 1/4"	(31.7)
B3170CT-3 1/2	3 1/2"	(90)	1/2"-13	4 7/16"	(112.7)	3 1/4"	(82.5)	1 1/2"	(38.1)
B3170CT-4	4"	(100)	1/2"-13	4 11/16"	(119.1)	3 9/16"	(89.6)	1 9/16"	(39.7)
B3170CT-5	5"	(125)	1/2"-13	5 15/16"	(150.8)	4 5/16"	(109.5)	1 25/32"	(45.2)
B3170CT-6	6"	(150)	1/2"-13	6 11/16"	(169.9)	5 3/16"	(131.8)	2 1/8"	(54.0)

Part No.	Max. Rec. Load		Approx. Wt./100	
	lbs.	(kN)	lbs.	(kg)
B3170CT-1/2	180	(0.80)	8	(6.6)
B3170CT-3/4	180	(0.80)	10	(4.5)
B3170CT-1	180	(0.80)	10	(4.5)
B3170CT-1 1/4	180	(0.80)	12	(5.4)
B3170CT-1 1/2	180	(0.80)	12	(5.4)
B3170CT-2	180	(0.80)	12	(5.4)
B3170CT-2 1/2	200	(0.89)	31	(24.0)
B3170CT-3	250	(1.11)	33	(14.9)
B3170CT-3 1/2	300	(1.33)	39	(17.2)
B3170CT-4	360	(1.60)	40	(18.1)
B3170CT-5	480	(2.13)	95	(43.1)
B3170CT-6	630	(2.80)	118	(53.5)



B3170CT



B3170CTC

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

Pipe Hangers

Fig. 200 - “Trimline” Adjustable Band Hanger (B-Line B3170NF)

Fig. 200F - “Trimline” Adjustable Band Hanger with Felt Lining for Copper Tubing (B-Line B3170NFF)

Fig. 200C - “Trimline” Adjustable Band Hanger with Plastic Coated (B-Line B3170NFC)

Size Range:

Fig. 200 - 1/2” (15mm) thru 8” (200mm) pipe

Material: Steel, Pre-Galvanized to G90 specifications

Function: For fire sprinkler and other general piping purposes. Knurled swivel nut design permits hanger adjustment after installation.

Features:

- (1/2” (15mm) thru 2” (50mm)) Flared edges ease installation for all pipe types and protect CPVC plastic pipe from abrasion. Captured design keeps adjusting nut from separating with hanger. Hanger is easily installed around pipe.
- (2 1/2” (65mm) thru 8” (200mm)) Spring tension on nut holds it securely in hanger before installation. Adjusting nut is easily removed.

Approvals: Underwriters Laboratories listed (1/2” (15mm) thru 8” (200mm)) in the USA (**UL**) and Canada (**cUL**) for steel and CPVC plastic pipe and Factory Mutual Engineering Approved (3/4” (20mm) thru 8” (200mm)). Conforms to Federal Specifications WW-H-171E & A-A-1192A, Type 10 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 10.

Maximum Temperature: 650°F (343°C)

Finish: Pre-Galvanized. Stainless Steel materials will be supplied with (2) hex nuts in place of a knurled nut.

Order By: Part number and pipe size

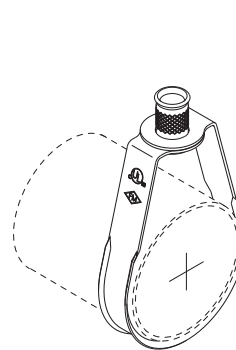


Fig. 200-1/2 to 200-2

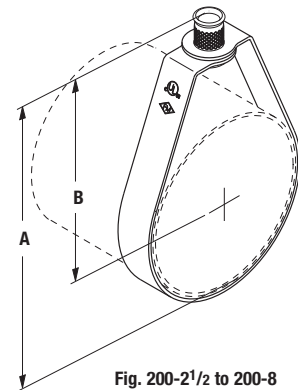


Fig. 200-2 1/2 to 200-8

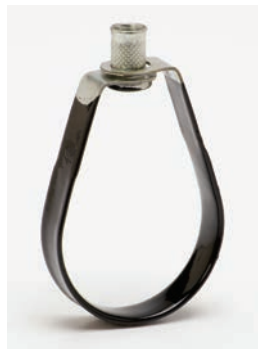


Fig. 200C



Fig. 200F



Fig. 200

**** Note:** For metric hanger rod sizes add the metric rod size to the figure number.
Example: 200M8-1 1/2 or 200M10-1 1/2

Part No.	Pipe Size		Rod Size		A		B		Max. Rec. Load		Approx. Wt./100	
	in.	(mm)	in.	mm**	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kg)
200-1/2	1/2"	(15)	3/8"-16	M8 or M10	3 1/8"	(79.4)	2 5/8"	(66.7)	400	(1.78)	11	(5.0)
200-3/4	3/4"	(20)	3/8"-16	M8 or M10	3 1/8"	(79.4)	2 1/2"	(63.5)	400	(1.78)	11	(5.0)
200-1	1"	(25)	3/8"-16	M8 or M10	3 3/8"	(85.7)	2 5/8"	(66.7)	400	(1.78)	12	(5.5)
200-1 1/4	1 1/4"	(32)	3/8"-16	M8 or M10	3 3/4"	(94.0)	2 7/8"	(73.0)	400	(1.78)	13	(5.9)
200-1 1/2	1 1/2"	(40)	3/8"-16	M8 or M10	3 7/8"	(98.4)	2 7/8"	(73.0)	400	(1.78)	14	(6.4)
200-2	2"	(50)	3/8"-16	M8 or M10	4 1/2"	(114.3)	3"	(76.3)	400	(1.78)	15	(6.9)
200-2 1/2	2 1/2"	(65)	3/8"-16	M10	5 5/8"	(142.9)	4 1/8"	(104.7)	600	(2.67)	27	(12.3)
200-3	3"	(75)	3/8"-16	M10	5 7/8"	(149.1)	4"	(101.6)	600	(2.67)	29	(13.3)
200-3 1/2	3 1/2"	(90)	3/8"-16	M10	7 3/8"	(187.3)	5 1/4"	(133.3)	600	(2.67)	34	(15.6)
200-4	4"	(100)	3/8"-16	M10	7 3/8"	(187.3)	5"	(127.0)	1000	(4.45)	35	(16.0)
200-5	5"	(125)	1/2"-13	M12	9 1/8"	(231.8)	6 1/4"	(158.7)	1250	(5.56)	66	(30.2)
200-6	6"	(150)	1/2"-13	M12	10 1/8"	(257.2)	6 3/4"	(171.4)	1250	(5.56)	73	(33.4)
200-8	8"	(200)	1/2"-13	M12	13 1/8"	(333.4)	8 3/4"	(222.2)	1250	(5.56)	136	(62.3)

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

Fig. 200H - Heavy Duty Band Hanger (For Trapeze)

Size Range: 2" (50mm) thru 4" (100mm) trapeze pipe size.

Material: Steel — Pre-Galvanized to G40 Spec

Function: Designed primarily to support substantially heavier loads than is normally intended for the nominal hanger size. Used extensively to support trapeze installations and the increased loads from both above and below the trapeze assembly.

Features: Furnished with 3/8"-16 or 1/2"-13 adjusting threaded ring nut.

Approvals: Underwriters Laboratories listed in the USA (UL) and Canada** (cUL). Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 10 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 10.

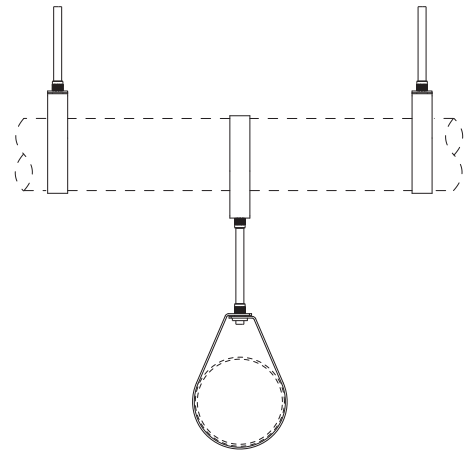
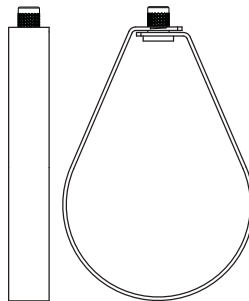
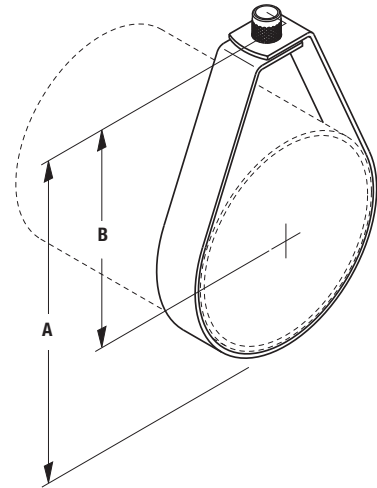
Maximum Temperature: 650°F (343°C)

Finish: Pre-Galvanized

Order By: Part number, pipe size and rod size.

Important Design Note. Because of the increased loads applied to the trapeze assembly, both the upper trapeze supports as well as the lower hanging unit must be able to hold the maximum loads intended.

TOLCO



Part No.	Pipe Size		Rod Size	A		B		Max. Rec. Load		Approx. Wt./100	
	in.	(mm)		in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kg)
200H-2-3/8	2"	(50)	3/8"-16	49/16"	(115.9)	37/32"	(81.7)	1200	(5.34)	48	(21.8)
200H-2-1/2	2"	(50)	1/2"-13	423/32"	(119.8)	33/8"	(85.7)	1200	(5.34)	45	(20.4)
200H-2 1/2-3/8	2 1/2"	(65)	3/8"-16	55/16"	(134.9)	323/32"	(94.4)	1200	(5.34)	59	(26.7)
200H-2 1/2-1/2	2 1/2"	(65)	1/2"-13	515/32"	(138.9)	37/8"	(98.3)	1200	(5.34)	56	(25.4)
200H-3-3/8	3"	(75)	3/8"-16	53/4"	(146.0)	327/32"	(97.6)	1200	(5.34)	63	(28.6)
200H-3-1/2	3"	(75)	1/2"-13	57/8"	(148.1)	331/32"	(100.8)	1200	(5.34)	60	(27.2)
200H-4-3/8	4"	(100)	3/8"-16	67/8"	(174.6)	47/16"	(112.7)	1200	(5.34)	76	(34.5)
200H-4-1/2	4"	(100)	1/2"-13	71/32"	(178.6)	419/32"	(1116.7)	1200	(5.34)	73	(33.1)

* Select trapeze pipe size based on section modulus required for span of trapeze per information provided in NFPA 13 (2002) Table 9.1.1.6.1 (a and b).

** All sizes are UL Listed to support up to 8" pipe at max spacing per NFPA 13. For 6" (150mm) and 8" (200mm) trapeze pipe, consult factory.

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

Pipe Hangers

B3198H - Hinged Extension Split Pipe Clamp (TOLCO Fig. 302)

Size Range: 3/8" (10mm) to 3" (80mm) pipe

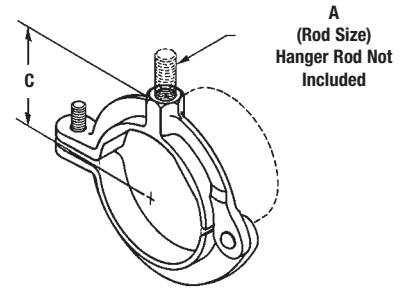
Material: Malleable Iron

Function: Designed for suspending non-insulated pipe horizontally or vertically.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 25 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 12.

Standard Finish: Plain or Electro-Galvanized

Order By: Part number and finish.



Part No.	Pipe Size		Rod Size A	C		Design Load		Approx. Wt./100	
	in.	(mm)		in.	(mm)	Lbs.	kN	Lbs.	kg
B3198H-3/8	3/8"	(10)	3/8"-16	31/32"	(24.6)	180	(.80)	9	(4.1)
B3198H-1/2	1/2"	(15)	3/8"-16	11/16"	(27.0)	180	(.80)	12	(5.4)
B3198H-3/4	3/4"	(20)	3/8"-16	17/32"	(30.9)	180	(.80)	12	(5.4)
B3198H-1	1"	(25)	3/8"-16	111/32"	(34.1)	180	(.80)	13	(5.9)
B3198H-11/4	11/4"	(32)	3/8"-16	119/32"	(39.7)	180	(.80)	18	(8.1)
B3198H-11/2	11/2"	(40)	3/8"-16	123/32"	(43.6)	180	(.80)	21	(9.5)
B3198H-2	2"	(50)	3/8"-16	2"	(50.8)	180	(.80)	44	(19.9)
B3198H-21/2	21/2"	(65)	1/2"-13	211/32"	(59.5)	300	(1.33)	73	(33.1)
B3198H-3	3"	(80)	1/2"-13	223/32"	(69.0)	300	(1.33)	95	(43.1)

B3198R - Extension Split Pipe Clamp

Size Range: 3/8" (10mm) to 4" (100mm) pipe

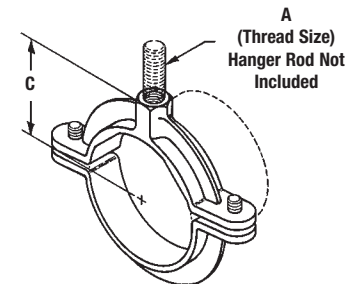
Material: Malleable Iron

Function: Designed for suspending non-insulated pipe horizontally or vertically.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 25 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 12.

Standard Finish: Plain or Electro-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.



Part No. Rod Thread	Pipe Size		Rod Thread Size A	C		Design Load		Approx. Wt./100	
	in.	(mm)		in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3198R-3/8	3/8"	(10)	3/8"-16	31/32"	(24.6)	180	(.80)	12	(5.4)
B3198R-1/2	1/2"	(15)	3/8"-16	11/16"	(27.0)	180	(.80)	16	(7.2)
B3198R-3/4	3/4"	(20)	3/8"-16	17/32"	(30.9)	180	(.80)	18	(8.1)
B3198R-1	1"	(25)	3/8"-16	111/32"	(34.1)	180	(.80)	24	(10.9)
B3198R-11/4	11/4"	(32)	3/8"-16	119/32"	(39.7)	180	(.80)	29	(13.1)
B3198R-11/2	11/2"	(40)	3/8"-16	123/32"	(43.6)	180	(.80)	32	(14.5)
B3198R-2	2"	(50)	3/8"-16	2"	(50.8)	180	(.80)	39	(17.7)
B3198R-21/2	21/2"	(65)	1/2"-13	211/32"	(59.5)	300	(1.33)	115	(52.1)
B3198R-3	3"	(80)	1/2"-13	223/32"	(69.0)	300	(1.33)	140	(63.5)
B3198R-4	4"	(100)	1/2"-13	311/32"	(84.9)	300	(1.33)	160	(72.6)

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

B3198HCT - Hinged Extension Split Pipe Clamp (TOLCO Fig. 301CT)

Size Range: 1/2" (15mm) to 2" (50mm) copper tubing

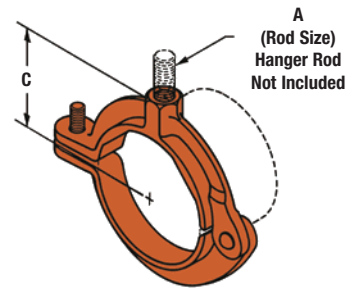
Material: Malleable Iron

Function: A rigid support to suspend tubing horizontally or vertically.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 25 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 12.

Standard Finish: DURA-COPPER™

Order By: Part number and finish.



Part No.	Tubing Size		Rod Size A	C		Design Load		Approx. Wt./100	
	in.	(mm)		in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3198HCT-1/2	1/2"	(15)	3/8"-16	5/8"	(15.9)	180	(.80)	8	(3.6)
B3198HCT-3/4	3/4"	(20)	3/8"-16	13/16"	(20.6)	180	(.80)	10	(4.5)
B3198HCT-1	1"	(25)	3/8"-16	15/16"	(23.8)	180	(.80)	10	(4.5)
B3198HCT-1 1/4	1 1/4"	(32)	3/8"-16	1 1/8"	(28.6)	180	(.80)	14	(6.3)
B3198HCT-1 1/2	1 1/2"	(40)	3/8"-16	1 9/16"	(39.7)	180	(.80)	18	(8.1)
B3198HCT-2	2"	(50)	3/8"-16	1 7/8"	(47.6)	180	(.80)	23	(10.4)

B3198RCT - Extension Split Pipe Clamp

Size Range: 1/2" (15mm) to 2" (50mm) copper tubing

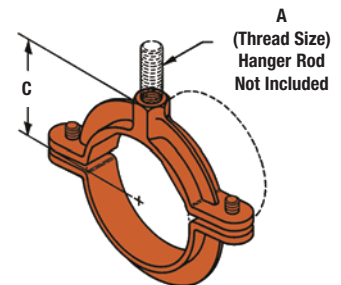
Material: Malleable Iron

Function: A rigid support to suspend tubing horizontally or vertically.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 25 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 12.

Standard Finish: DURA-COPPER™

Order By: Part number and finish.



Part No.	Tubing Size		Rod Size A	C		Design Load		Approx. Wt./100	
	in.	(mm)		in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3198RCT-3/8	3/8"	(10)	3/8"-16	1 1/16"	(17.5)	180	(.80)	12	(5.4)
B3198RCT-1/2	1/2"	(15)	3/8"-16	1 1/16"	(17.5)	180	(.80)	12	(5.4)
B3198RCT-3/4	3/4"	(20)	3/8"-16	7/8"	(22.2)	180	(.80)	14	(6.3)
B3198RCT-1	1"	(25)	3/8"-16	1 1/16"	(27.0)	180	(.80)	17	(7.7)
B3198RCT-1 1/4	1 1/4"	(32)	3/8"-16	1 1/8"	(28.6)	180	(.80)	17	(7.7)
B3198RCT-1 1/2	1 1/2"	(40)	3/8"-16	1 5/16"	(33.3)	180	(.80)	22	(10.0)
B3198RCT-2	2"	(50)	3/8"-16	1 1/2"	(38.1)	180	(.80)	26	(11.8)

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

Pipe Hangers

B3175 - Ring and Bolt Hanger

Size Range: 1/2" (15mm) to 6" (150mm) pipe

Material: Pre-Galvanized Steel

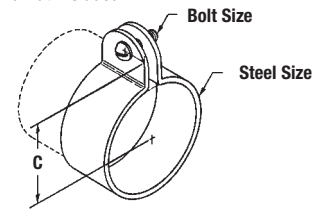
Function: Designed for suspending light-weight non-insulated pipe. (Use with B3222 eye socket or B3224 hanger adjuster).

Standard Finish: Pre-Galvanized

Order By: Part number and finish.



Bolt and Nut Included



Part No.	Pipe Size		C		Bolt Size	Steel Size		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)		in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3175-1/2	1/2"	(15)	1 1/16"	(27.0)	1/4"-20	18 Ga. x 7/8"	(1.2 x 22.2)	275	(1.22)	7.5	(3.4)
B3175-3/4	3/4"	(20)	1 3/16"	(30.2)	1/4"-20	18 Ga. x 7/8"	(1.2 x 22.2)	275	(1.22)	8.0	(3.6)
B3175-1	1"	(25)	1 5/16"	(33.3)	1/4"-20	18 Ga. x 7/8"	(1.2 x 22.2)	275	(1.22)	9.0	(4.1)
B3175-1 1/4	1 1/4"	(32)	1 1/2"	(38.1)	1/4"-20	18 Ga. x 7/8"	(1.2 x 22.2)	275	(1.22)	10.5	(4.7)
B3175-1 1/2	1 1/2"	(40)	1 5/8"	(41.3)	1/4"-20	18 Ga. x 7/8"	(1.2 x 22.2)	275	(1.22)	11.5	(5.2)
B3175-2	2"	(50)	1 13/16"	(46.0)	1/4"-20	18 Ga. x 7/8"	(1.2 x 22.2)	275	(1.22)	13.0	(5.9)
B3175-2 1/2	2 1/2"	(65)	2 5/16"	(58.7)	5/16"-18	16 Ga. x 1 1/4"	(1.5 x 31.7)	500	(2.22)	30.0	(13.6)
B3175-3	3"	(80)	2 5/8"	(66.7)	5/16"-18	16 Ga. x 1 1/4"	(1.5 x 31.7)	500	(2.22)	35.0	(15.9)
B3175-3 1/2	3 1/2"	(90)	2 7/8"	(73.0)	5/16"-18	16 Ga. x 1 1/4"	(1.5 x 31.7)	500	(2.22)	38.5	(17.4)
B3175-4	4"	(100)	3 1/8"	(79.4)	5/16"-18	16 Ga. x 1 1/4"	(1.5 x 31.7)	500	(2.22)	42.0	(19.0)
B3175-5	5"	(125)	3 5/8"	(92.1)	5/16"-18	16 Ga. x 1 1/4"	(1.5 x 31.7)	500	(2.22)	51.0	(23.1)
B3175-6	6"	(150)	4 3/16"	(106.4)	5/16"-18	16 Ga. x 1 1/4"	(1.5 x 31.7)	500	(2.22)	58.5	(26.5)

B3175CT - Ring and Bolt Hanger, DURA-COPPER™ Coated

Size Range: 1/2" (15mm) to 4" (100mm) pipe

Material: Pre-Galvanized Steel

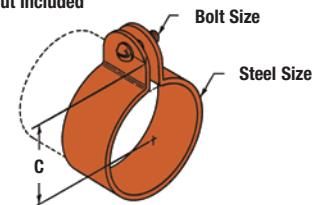
Function: Designed for suspending copper tubing allowing for vertical adjustment. (Use with B3222 eye socket or B3224 hanger adjuster).

Standard Finish: DURA-COPPER™

Order By: Part number and finish.



Bolt and Nut Included



Part No.	Tubing Size		C		Bolt Size	Steel Size		Design Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)		in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3175CT-1/2	1/2"	(15)	1 5/16"	(33.3)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	8	(3.6)
B3175CT-3/4	3/4"	(20)	1 3/8"	(34.9)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	8	(3.6)
B3175CT-1	1"	(25)	1 3/16"	(30.2)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	8	(3.6)
B3175CT-1 1/4	1 1/4"	(32)	1 5/16"	(33.3)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	10	(4.5)
B3175CT-1 1/2	1 1/2"	(40)	1 1/2"	(38.1)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	11	(5.0)
B3175CT-2	2"	(50)	1 15/16"	(49.2)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	11	(5.0)
B3175CT-2 1/2	2 1/2"	(65)	2 9/16"	(55.6)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	12	(5.4)
B3175CT-3	3"	(80)	2 11/16"	(68.3)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	14	(6.3)
B3175CT-3 1/2	3 1/2"	(90)	2 15/16"	(74.6)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	16	(7.2)
B3175CT-4	4"	(100)	3 3/16"	(81.0)	1/4"-20 x 1"	1/16" x 7/8"	(1.6 x 22.2)	200	(.89)	18	(8.1)

B3190 Return Line Offset J-Hook (TOLCO Fig. 40)

Size Range: 1/2" (15mm) to 8" (200mm) pipe

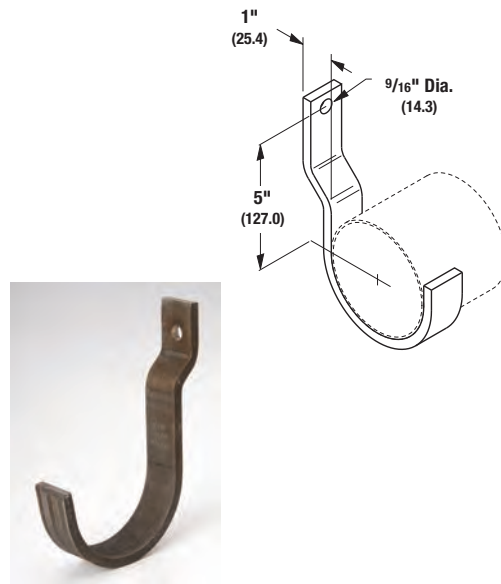
Material: Steel (Stainless steel available)

Function: Recommended for supporting light pipe runs with a 1" (25.4) offset from mounting surfaces.

Standard Finish: Plain or Electro-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.

Part No.	Pipe Size		Design Load		Approx. Wt./100	
	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3190-1/2	1/2"	(15)	200	(.89)	54	(24.5)
B3190-3/4	3/4"	(20)	200	(.89)	55	(24.9)
B3190-1	1"	(25)	200	(.89)	78	(35.4)
B3190-1 1/4	1 1/4"	(32)	200	(.89)	85	(38.5)
B3190-1 1/2	1 1/2"	(40)	200	(.89)	90	(40.8)
B3190-2	2"	(50)	200	(.89)	98	(44.4)
B3190-2 1/2	2 1/2"	(65)	350	(1.55)	126	(57.1)
B3190-3	3"	(80)	350	(1.55)	136	(61.7)
B3190-3 1/2	3 1/2"	(90)	350	(1.55)	147	(66.8)
B3190-4	4"	(100)	450	(2.00)	235	(106.6)
B3190-5	5"	(125)	450	(2.00)	350	(158.7)
B3190-6	6"	(150)	450	(2.00)	383	(173.7)
B3190-8	8"	(200)	450	(2.00)	605	(274.4)



B3191 Return Line Straight J-Hook (TOLCO Fig. 41)

Size Range: 1/2" (15mm) to 8" (200mm) pipe

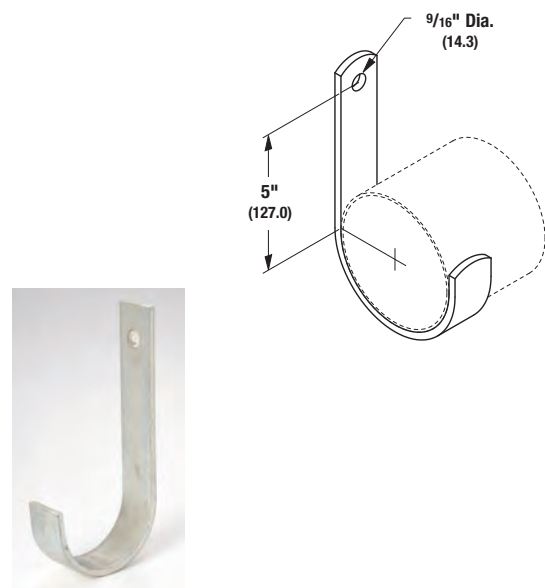
Material: Steel (Stainless steel available)

Function: Recommended for supporting light pipe runs flush with the mounting surfaces.

Standard Finish: Plain or Electro-Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number and finish.

Part No.	Pipe Size		Design Load		Approx. Wt./100	
	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3191-1/2	1/2"	(15)	200	(.89)	54	(24.5)
B3191-3/4	3/4"	(20)	200	(.89)	55	(24.9)
B3191-1	1"	(25)	200	(.89)	76	(34.5)
B3191-1 1/4	1 1/4"	(32)	200	(.89)	82	(37.2)
B3191-1 1/2	1 1/2"	(40)	200	(.89)	87	(39.4)
B3191-2	2"	(50)	200	(.89)	96	(43.5)
B3191-2 1/2	2 1/2"	(65)	350	(1.55)	124	(56.2)
B3191-3	3"	(80)	350	(1.55)	134	(60.8)
B3191-3 1/2	3 1/2"	(90)	350	(1.55)	145	(65.8)
B3191-4	4"	(100)	450	(2.00)	153	(69.4)
B3191-5	5"	(125)	450	(2.00)	348	(157.8)
B3191-6	6"	(150)	450	(2.00)	381	(172.8)
B3191-8	8"	(200)	450	(2.00)	600	(272.1)



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

Pipe Hangers

Fig. 120RWA - (Model B) Retrofit Wrap Around "U" Hanger Clamp

Size Range: 1" (25mm) thru 6" (150mm) pipe

Material: Steel

Function: Designed to restrain movement of the pipe within standard U-hangers as required by NFPA 13. Where retrofit capability is crucial, the Fig. 120RWA is a labor efficient alternative to the standard Cooper B-Line Fig. 120W wrap around U-hanger.

Features Installs easily by tightening two hex nuts. Features a unique bracing slot that locks onto a standard U-hanger to become a solid unit that will stabilize the pipe during seismic activity or sprinkler head activation. Designed to be used in retrofit or new construction applications. Will clamp to existing U-Hangers without restriction to leg angle.

Approvals: Underwriters Laboratories listed in the USA (**UL**) and Canada (**cUL**) as a restrainer. 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 Cooper B-Line Seismic Restraint Systems Guidelines. NFPA 13 (2010) 9.3.6.3.

Finish: Plain and Galvanized. Contact B-Line for alternative finishes and materials.

Order By: Part number, type numbers and pipe size

Ordering Note: Order by the following type and pipe size:

Type 1 – 1" (25mm) and 1 1/4" (32mm) pipe size

Type 2 – 1 1/2" (40mm) and 2" (50mm) pipe size

Type 3 – 2 1/2" (65mm) and 3" (80mm) pipe size

Type 4 – 4" (100mm) pipe size

Type 6 – 5" (125mm) and 6" (150mm) pipe size

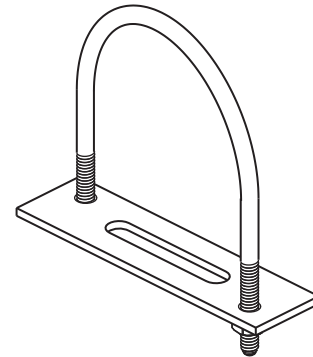
Important Note: The bracing slot feature is sized to fit the U-Hanger rod schedule as required by NFPA 13 as follows:

5/16" (7.9mm) rod for up to 2" (50mm) pipe

3/8" (9.5mm) rod for 2 1/2" (65mm) - 6" (160mm) pipe

For other rod size requirements consult factory.

Component of State of California OSHPD Approved Seismic Restraints System



Part No.	Type	Pipe Size	
		in.	(mm)
120RWA-TYPE1-1	1	1"	(25)
120RWA-TYPE1-1 1/4	1	1 1/4"	(32)
120RWA-TYPE2-1 1/2	2	1 1/2"	(40)
120RWA-TYPE2-2	2	2"	(50)
120RWA-TYPE3-2 1/2	3	2 1/2"	(65)
120RWA-TYPE3-3	3	3"	(80)
120RWA-TYPE4-3 1/2	4	3 1/2"	(90)
120RWA-TYPE4-4	4	4"	(100)
120RWA-TYPE6-5	6	5"	(125)
120RWA-TYPE6-6	6	6"	(150)

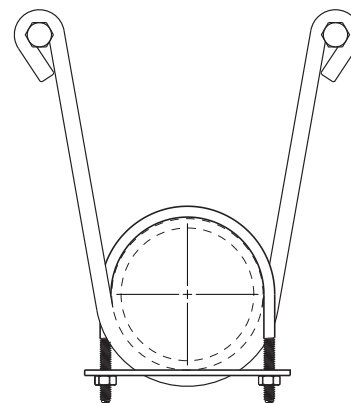


Fig. 120 - "U" Hanger

Size Range: Size 3/4" (20mm) thru 8" (200mm) pipe

Material: Steel

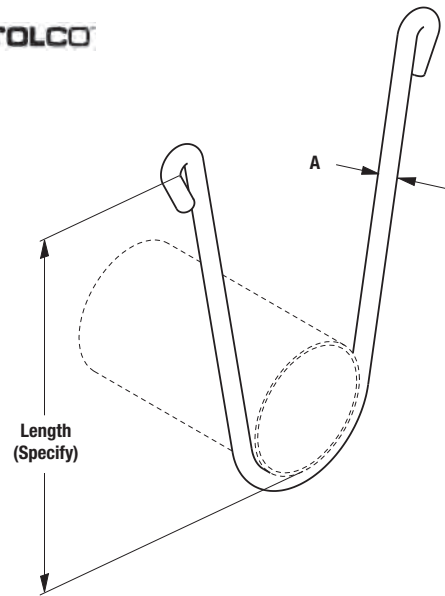
Function: Used to support piping from wood beams where no contraction is expected. Used extensively in automatic fire sprinkler systems.

Approvals: Meets or exceeds the requirements of National Fire Protection Association (NFPA), Pamphlet 13. 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 Seismic Restraint Systems Guidelines.

Maximum Temperature: 750°F (399°C)

Finish: Plain. Contact B-Line for alternative finishes and materials.

Order By: Part number, pipe size, length and finish



Part No.	Pipe Size		A		Fastener Size	Max. Rec. Load***	
	in.	(mm)	in.	(mm)		lbs.	(kN)
120-3/4	3/4"	(20)	5/16"	(7.9)	16 x 2*	250	(1.11)
120-1	1"	(25)	5/16"	(7.9)	16 x 2*	250	(1.11)
120-1 1/4	1 1/4"	(32)	5/16"	(7.9)	16 x 2*	250	(1.11)
120-1 1/2	1 1/2"	(40)	5/16"	(7.9)	16 x 2*	250	(1.11)
120-2	2"	(50)	5/16"	(7.9)	16 x 2*	250	(1.11)
120-2 1/2	2 1/2"	(65)	3/8"	(9.5)	3/8 x 2 1/2**	320	(1.42)
120-3	3"	(80)	3/8"	(9.5)	3/8 x 2 1/2**	320	(1.42)
120-3 1/2	3 1/2"	(90)	3/8"	(9.5)	3/8 x 2 1/2**	560	(2.49)
120-4	4"	(100)	3/8"	(9.5)	1/2 x 3**	560	(2.49)
120-5	5"	(125)	1/2"	(12.7)	1/2 x 3**	560	(2.49)
120-6	6"	(150)	1/2"	(12.7)	1/2 x 3**	760	(3.38)
120-8	8"	(200)	1/2"	(12.7)	5/8 x 3**	--	(--)

* Drive Screw

** Lag Bolt

*** With minimum safety factor of 5
Fastener schedule per NFPA

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

Pipe Hangers

Fig. 120MJ - Mutt & Jeff "U" Hanger

Size Range: Size 3/4" (20mm) thru 8" (200mm) pipe

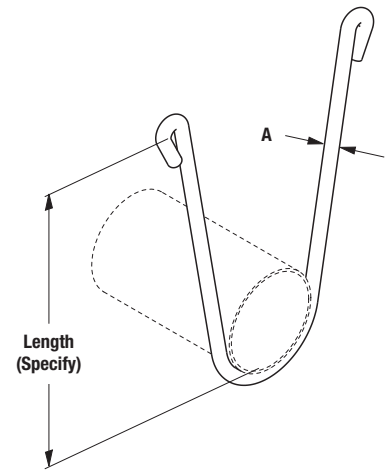
Material: Steel

Function: Used to support piping from wood beams where no contraction is expected. Used extensively in automatic fire sprinkler systems. Fig. 120MJ is used when the wood beam is on a diagonal.

Finish: Plain. Contact B-Line for alternative finishes and materials.

Order By: Part number, side length and finish

Part No.	Pipe Size		A		Fastener Size	Max. Rec. Load***	
	in.	(mm)	in.	(mm)		lbs.	(kN)
120MJ-3/4	3/4"	(20)	5/16"	(7.9)	16 x 2*	250	(1.11)
120MJ-1	1"	(25)	5/16"	(7.9)	16 x 2*	250	(1.11)
120MJ-1 1/4	1 1/4"	(32)	5/16"	(7.9)	16 x 2*	250	(1.11)
120MJ-1 1/2	1 1/2"	(40)	5/16"	(7.9)	16 x 2*	250	(1.11)
120MJ-2	2"	(50)	5/16"	(7.9)	16 x 2*	250	(1.11)
120MJ-2 1/2	2 1/2"	(65)	3/8"	(9.5)	3/8 x 2 1/2**	320	(1.42)
120MJ-3	3"	(80)	3/8"	(9.5)	3/8 x 2 1/2**	320	(1.42)
120MJ-3 1/2	3 1/2"	(90)	3/8"	(9.5)	3/8 x 2 1/2**	560	(2.49)
120MJ-4	4"	(100)	3/8"	(9.5)	1/2 x 3**	560	(2.49)
120MJ-5	5"	(125)	1/2"	(12.7)	1/2 x 3**	560	(2.49)
120MJ-6	6"	(150)	1/2"	(12.7)	1/2 x 3**	760	(3.38)
120MJ-8	8"	(200)	1/2"	(12.7)	5/8 x 3**	--	(--)



- * Drive Screw
- ** Lag Bolt
- *** With minimum safety factor of 5
Fastener schedule per NFPA

Pipe Hangers

Fig. 120W - Wrap Around "U" Hanger

Size Range: Size 3/4" (20mm) thru 2" (50mm) pipe

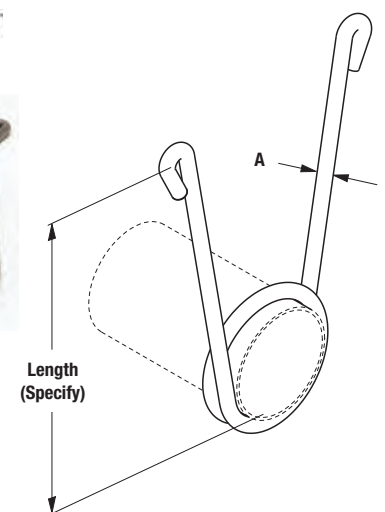
Material: Steel

Function: Required for automatic fire protection agencies to be used on the end of branch lines to prevent pipe from whipping vertical and striking ceiling or beam.

Finish: Plain. Contact B-Line for alternative finishes and materials.

Order By: Part number, side length and finish

Part No.	Pipe Size		A		Fastener Size	Max. Rec. Load***	
	in.	(mm)	in.	(mm)		lbs.	(kN)
120W-3/4	3/4"	(20)	5/16"	(7.9)	16 x 2*	250	(1.11)
120W-1	1"	(25)	5/16"	(7.9)	16 x 2*	250	(1.11)
120W-1 1/4	1 1/4"	(32)	5/16"	(7.9)	16 x 2*	250	(1.11)
120W-1 1/2	1 1/2"	(40)	5/16"	(7.9)	16 x 2*	250	(1.11)
120W-2	2"	(50)	5/16"	(7.9)	16 x 2*	250	(1.11)



- * Drive Screw
- *** With minimum safety factor of 5
Fastener schedule per NFPA

B3262 Light Duty Spring Hanger

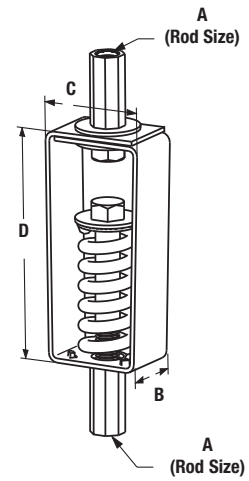
Rod Size Range: 3/8"-16 to 3/4"-10

Material: Steel

Service: Designed for use with a light piping system where vertical movement does not exceed 1 1/4" (31.7).

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 49 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 48.

Order By: Part number.



Part No.	Rod Size A	Spring Color	B		C		D	
			In	(mm)	In	(mm)	In	(mm)
B3262-3/8	3/8"-16	Brown	2"	(50.8)	2 3/4"	(69.8)	4 1/2"	(114.3)
B3262-1/2	1/2"-13	Black	2"	(50.8)	2 3/4"	(69.8)	4 1/2"	(114.3)
B3262-5/8	5/8"-11	Red	2"	(50.8)	2 3/4"	(69.8)	4 1/2"	(114.3)
B3262-3/4	3/4"-10	Orange	2"	(50.8)	3"	(76.2)	7"	(177.8)

Part No.	Spring Deflection		Rated Load		Approx. Wt./100	
	In	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3262-3/8	1.20	(30.1)	100-150	(.44 - .67)	390	(176.2)
B3262-1/2	1.10	(27.7)	150-250	(.67 - 1.11)	410	(186.0)
B3262-5/8	1.00	(25.4)	350-450	(1.56 - 2.00)	470	(213.2)
B3262-3/4	1.20	(30.1)	600-750	(2.67 - 3.34)	1240	(562.6)

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

Pipe Hangers

BH-2-4, BH-5-8, BH-9-12 - Parallel Strap Hangers

BH-2-4-R, BH-5-8-R, BH-9-12-R - Right Angle Strap Hangers

Material: Steel

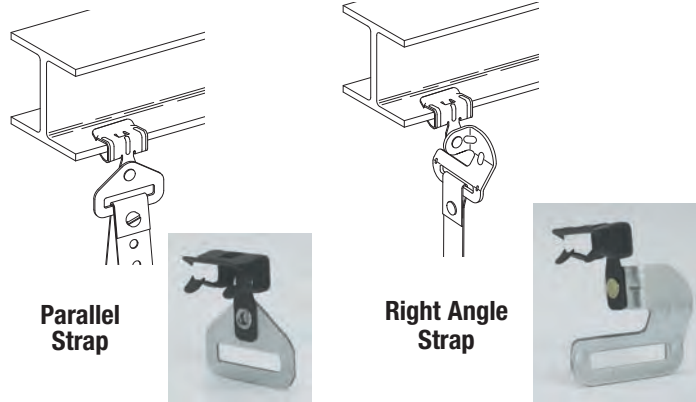
Function: The Parallel Strap Hanger series is designed for suspending up to 1" (50.8) wide straps parallel to beams.

The Right Angle Strap Hanger series is designed for suspending up to 1" (50.8) wide straps at right angle to the beam.

Note: Install clip to beam with hammer.

Standard Finish: Zinc Phosphate

Order By: Part number and finish.



Part No.		Flange Thickness		Maximum Load		Approx. Wt./100			
Parallel	Right Angle	In.	(mm)	Lbs.	(kN)	BH-2-12		BH-2-12R	
						Lbs.	(kg)	Lbs.	(kg)
BH-2-4	BH-2-4-R	1/8" to 1/4"	(3.2 to 6.3)	200	(.89)	4.5	(2.0)	6.0	(2.7)
BH-5-8	BH-5-8-R	5/16" to 1/2"	(7.9 to 12.7)	200	(.89)	5.0	(2.3)	6.5	(2.9)
BH-9-12	BH-9-12-R	9/16" to 3/4"	(14.3 to 19.0)	200	(.89)	5.5	(2.5)	7.0	(3.2)

Design Load is a static straight down load.

BL1400 - Hanger

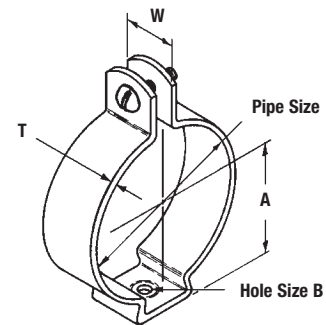
Size Range: 1/2" (15mm) to 4" (100mm) pipe

Material: Steel

Function: Designed to support or suspend light duty stationary pipe runs.

Standard Finish: Electro-Galvanized

Order By: Part number.



Part No.	Pipe Size		A		B		T		W		Approx. Wt./100	
	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	Lbs.	(kg)
BL1400	1/2"	(15)	29/32"	(23.0)	9/32"	(7.1)	16 Ga.	(1.5)	3/4"	(19.0)	6	(2.7)
BL1410	3/4"	(20)	31/32"	(24.6)	9/32"	(7.1)	16 Ga.	(1.5)	3/4"	(19.0)	7	(3.2)
BL1420	1"	(25)	1 1/4"	(31.7)	9/32"	(7.1)	16 Ga.	(1.5)	3/4"	(19.0)	8	(3.6)
BL1430	1 1/4"	(32)	1 13/32"	(35.7)	9/32"	(7.1)	18 Ga.	(1.5)	7/8"	(22.2)	10	(4.5)
BL1440	1 1/2"	(40)	5 5/8"	(41.3)	1 1/32"	(8.7)	16 Ga.	(1.5)	1"	(25.4)	17	(7.7)
BL1450	2"	(50)	1 7/8"	(47.6)	1 1/32"	(8.7)	16 Ga.	(1.5)	1 1/4"	(31.7)	25	(11.3)
BL1460	2 1/2"	(65)	2 1/16"	(52.4)	1 1/32"	(8.7)	16 Ga.	(1.5)	1 1/4"	(31.7)	26	(11.8)
BL1470	3"	(80)	2 1/2"	(63.5)	1 1/32"	(8.7)	16 Ga.	(1.5)	1 1/4"	(31.7)	33	(14.9)
BL1480	3 1/2"	(90)	2 3/4"	(69.8)	1 1/32"	(8.7)	16 Ga.	(1.5)	1 1/4"	(31.7)	36	(16.3)
BL1490	4"	(100)	3 1/2"	(88.9)	1 1/32"	(8.7)	16 Ga.	(1.5)	1 1/4"	(31.7)	40	(18.1)

Designed for positioning only, no load rating.

