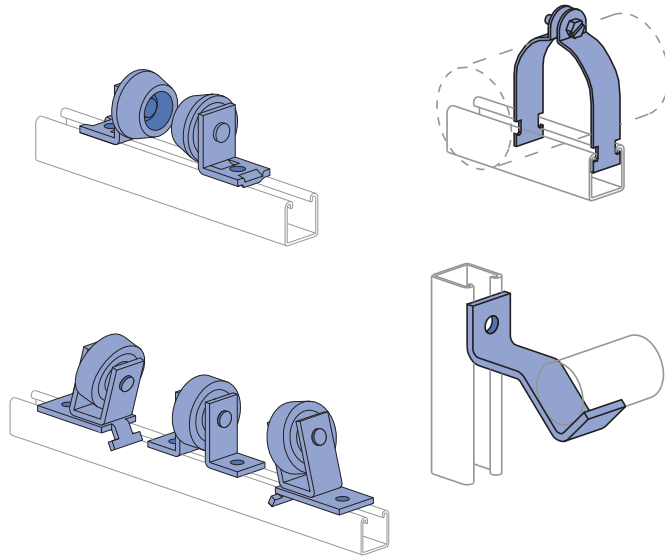




PIPE/CONDUIT SUPPORTS



Pipe/Conduit Clamps 102-105

Unicushion® 106

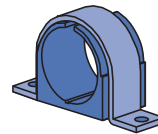
Pipe & Tubing (Cush-A-Clamp®) Clamps 107-110

Pipe Hangers 111

Pipe Rollers 111-112

Pipe Brackets 113

Reference Tables 114-120



MATERIAL

Unistrut pipe clamps, unless noted, are punch-press made from hot-rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A1008, A575, A576, A635, or A36. The fitting steel also meets the physical requirements of ASTM A1011 SS GR 33. The pickling of the steel produces a smooth surface free from scale.

Many items are also available in stainless steel.

Consult factory for ordering information.

FINISHES

Pipe supports are available in:

- Electro-galvanized (EG), conforming to ASTM B633 Type III SC1
- Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 (hardware)
- Perma-Green III (GR), and plain (PL).

APPLICATION

Unistrut pipe clamps, pipe hangers, brackets and rollers are designed for the support of electrical and mechanical services. Supports to meet nearly every requirement can be attained using Unistrut Metal Framing components.

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN BOLT TORQUE

BOLT SIZE	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Rec.Torque Ft/Lbs (N*m)	6 (8)	11 (15)	19 (26)	50 (68)	100 (136)	125 (170)
Max Torque Ft/Lbs (N*m)	7 (9)	15 (20)	25 (34)	70 (95)	125 (170)	135 (183)

Note: When tightening 1/4" screws used with a two piece pipe clamp, a torque of 5 foot pounds (60 inch-pounds) should be used.

DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 5.0, unless otherwise noted.

Pipe Clamps In Special Materials (P1109, P1211, P1425, P2024 Series)

Material	Add Suffix to P/N	Example
Steel Strap, Everdur Hardware	E	P1109 E
Copper Coated Steel Strap & Hardware	CC	P1109 CC
Aluminum Material: Malleable Iron.	AL	P1109 AL
Stainless Steel 304 or 316	SS or ST	P1109 SS



1 5/8" Channel

Telestrut

Nuts & Hardware

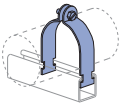
General Fittings

Pipe/Conduit Supports

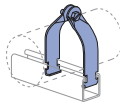
Electrical Fittings

Unipier® Concrete Inserts

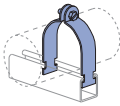
Pipe & Conduit Clamps



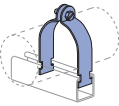
P1109 - Pg 102



P1211 - Pg 103



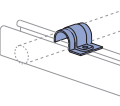
P1425 - Pg 103



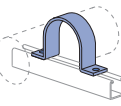
P2024 - Pg 104



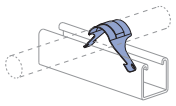
P1563 - Pg 103



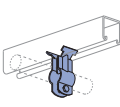
P2008 - Pg 103



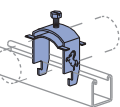
P2558 - Pg 104



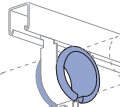
P2609 - Pg 105



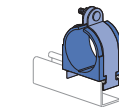
P3409 - Pg 105



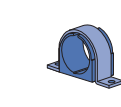
MU025 - Pg 105



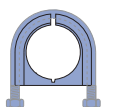
P2600 - Pg 106



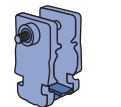
004T008 - Pg 107



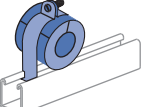
004M007 - Pg 108



UB1/2PA - Pg 109

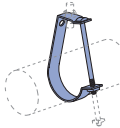


CG-10 - Pg 110

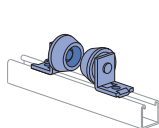


PUX3834 - Pg 110

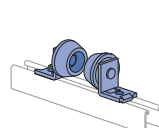
Pipe Rollers



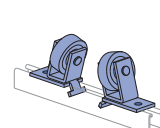
J1205 - Pg 111



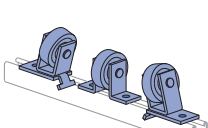
P2474 - Pg 111



P2474-1 - Pg 112

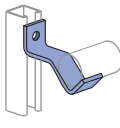


P2475 - Pg 112

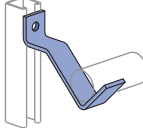


P2476 - Pg 113

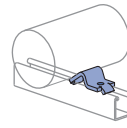
Pipe Brackets



P2481 - Pg 113



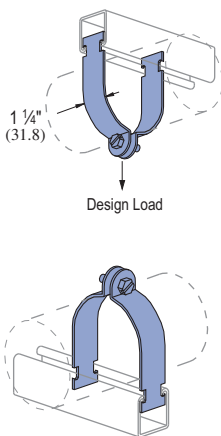
P2482 - Pg 113



P2243 - Pg 113

P1109 THRU P1126

PIPE CLAMPS FOR RIGID STEEL CONDUIT



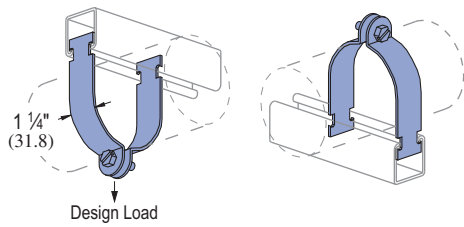
Part No.	Conduit Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)
P1109	3/8	0.675 17.1	16 1.5	10 4.5	400 1.78
P1111	1/2	0.840 21.3	16 1.5	11 5.0	400 1.78
P1112	3/4	1.050 26.7	14 1.9	15 6.8	600 2.67
P1113	1	1.315 33.4	14 1.9	17 7.7	600 2.67
P1114	1 1/4	1.660 42.2	14 1.9	19 8.6	600 2.67
P1115	1 1/2	1.900 48.3	12 2.7	29 13.2	800 3.56
P1117	2	2.375 60.3	12 2.7	34 15.4	800 3.56

Part No.	Conduit Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)
P1118	2 1/2	2.875 73.0	12 2.7	40 18.1	800 3.56
P1119	3	3.500 88.9	12 2.7	47 21.3	800 3.56
P1120	3 1/2	4.000 101.6	11 3.0	62 28.1	1,000 4.45
P1121	4	4.500 114.3	11 3.0	67 30.4	1,000 4.45
P1123	5	5.563 141.3	11 3.0	80 36.3	1,000 4.45
P1124	6	6.625 168.3	10 3.4	102 46.3	1,000 4.45
P1126	8	8.625 219.1	10 3.4	130 59.0	1,000 4.45

Slotted hex head screw and nut included with EG or HG Finish.

P1425 THRU P1431

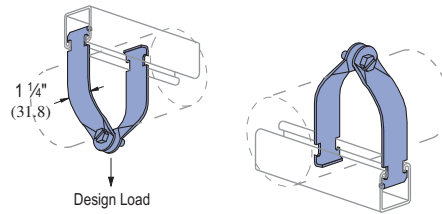
PIPE CLAMPS FOR THIN WALL CONDUIT (E.M.T.)



Slotted hex head screw and nut included with EG or HG Finish.

P1211 THRU P1217

UNIVERSAL CLAMPS FOR RIGID OR THINWALL CONDUIT



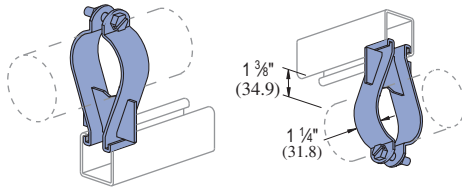
Slotted hex head screw and nut included with EG or HG Finish.

Part No.	Conduit Size In (mm)	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)
P1425	3/8 9.5	0.577 14.7	16 1.5	9 4.1	400 1.78
P1426	1/2 12.7	0.706 17.9	16 1.5	11 5.0	400 1.78
P1427	3/4 19.1	0.922 23.4	16 1.5	12 5.4	400 1.78
P1428	1 25.4	1.163 29.5	14 1.9	15 6.8	600 2.67
P1429	1 1/4 31.8	1.510 38.4	14 1.9	18 8.2	600 2.67
P1430	1 1/2 38.1	1.740 44.2	12 2.7	29 13.2	800 3.56
P1431	2 50.8	2.197 55.8	12 2.7	33 15.0	800 3.56
P1118	2 1/2 63.5	2.875 73.0	12 2.7	40 18.1	800 3.56
P1119	3 76.2	3.500 88.9	12 2.7	47 21.3	800 3.56
P1120	3 1/2 88.9	4.000 101.6	11 3.0	62 28.1	1,000 4.45
P1121	4 101.6	4.500 114.3	11 3.0	67 30.4	1,000 4.45

Part No.	Conduit Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)
P1211	1/2 12.7	16 1.5	10 4.5	400 1.78
P1212	3/4 19.1	16 1.5	11 5.0	400 1.78
P1213	1 25.4	16 1.5	12 5.4	400 1.78
P1214	1 1/4 31.8	14 1.9	18 8.2	600 2.67
P1215	1 1/2 38.1	14 1.9	20 9.1	600 2.67
P1217	2 50.8	14 1.9	22 10.0	600 2.67

P1563 THRU P1573

PARALLEL CLAMPS FOR RIGID CONDUIT AND PIPE

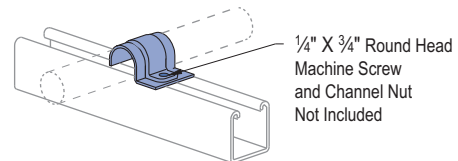


Slotted hex head screw and nut included.

Finish: Electro-galvanized.

P2008 THRU P2020

ONE HOLE CLAMP FOR O.D. TUBING



Finish: Electro-galvanized and Aluminum

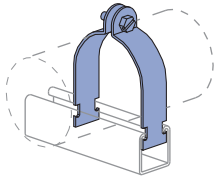
Part No.	Pipe Size In (mm)	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)
P1563	3/8 9.5	0.675 17.1	14 1.9	27 12.2
P1564	1/2 12.7	0.840 21.3	14 1.9	29 13.2
P1565	3/4 19.1	1.050 26.7	14 1.9	30 13.6
P1566	1 25.4	1.315 33.4	14 1.9	31 14.1
P1567	1 1/4 31.8	1.660 42.2	14 1.9	38 17.2
P1568	1 1/2 38.1	1.900 48.3	12 2.7	40 18.1
P1569	2 50.8	2.375 60.3	12 2.7	47 21.3
P1570	2 1/2 63.5	2.875 73.0	12 2.7	66 29.9
P1571	3 76.2	3.500 88.9	12 2.7	78 35.4
P1572	3 1/2 88.9	4.000 101.6	12 2.7	87 39.5
P1573	4 101.6	4.500 114.3	12 2.7	90 40.8

Part No.	O.D. Tube Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)
P2008	1/4 6.4	16 1.5	4 1.8
P2009	5/16 7.9	16 1.5	5 2.3
P2010	3/8 9.5	16 1.5	5 2.3
P2012	1/2 12.7	16 1.5	6 2.7
P2014	5/8 15.9	14 1.9	8 3.6
P2016	3/4 19.1	14 1.9	9 4.1
P2018	7/8 22.2	14 1.9	10 4.5
P2020	1 25.4	14 1.9	11 5.0

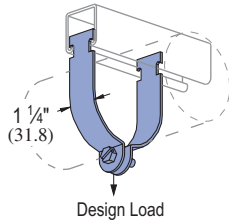


P2024 THRU P2070-84

PIPE CLAMPS FOR O.D. TUBING



- P2024 - P2029 16 ga.
- P2030 - P2035 14 ga.
- P2037 - P2052 12 ga.
- P2053 - P2066 11 ga.
- P2067 - P2070-84 10 ga.



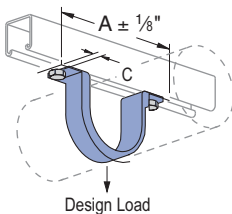
Slotted hex head screw and nut included with EG or HG Finish.

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)
P2024	¼ (6.4)	8 (3.6)	400 (1.78)
P2025	⅜ (9.5)	8 (3.6)	
P2026	½ (12.7)	9 (4.1)	
P2027	⅝ (15.9)	10 (4.5)	
P2028	¾ (19.1)	11 (5.0)	
P2029	⅞ (22.2)	12 (5.4)	
P2030	1 (25.4)	14 (6.4)	600 (2.67)
P2031	1⅛ (28.6)	15 (6.8)	
P2032	1¼ (31.8)	16 (7.3)	
P2033	1⅜ (34.9)	17 (7.7)	
P2034	1½ (38.1)	18 (8.2)	
P2035	1⅝ (41.3)	19 (8.6)	
P1430	1¾ (44.5)	29 (13.2)	800 (3.56)
P2037	1⅞ (47.6)	28 (12.7)	
P2038	2 (50.8)	31 (14.1)	
P2039	2⅛ (54.0)	32 (14.5)	
P2040	2¼ (57.2)	33 (15)	
P1117	2⅝ (60.3)	34 (15.4)	
P2042	2½ (63.5)	35 (15.9)	
P2043	2⅞ (66.7)	37 (16.8)	
P2044	2¾ (69.9)	38 (17.2)	
P1118	2⅞ (73.0)	40 (18.1)	
P2046	3 (76.2)	41 (18.6)	
P2047	3⅛ (79.4)	43 (19.5)	
P2048	3¼ (82.6)	45 (20.4)	
P2049	3⅝ (85.7)	46 (20.9)	
P1119	3½ (88.9)	47 (21.3)	
P2051	3⅞ (92.1)	56 (25.4)	1000 (4.45)
P2052	3¾ (95.3)	58 (26.3)	
P2053	3⅞ (98.4)	60 (27.2)	
P1120	4 (101.6)	62 (28.1)	
P2055	4⅛ (104.8)	62 (28.1)	
P2056	4¼ (108.0)	64 (29.0)	
P2057	4⅝ (111.1)	66 (29.9)	
P1121	4½ (114.3)	67 (30.4)	
P2059	4⅝ (117.5)	70 (31.8)	
P2060	4¾ (120.7)	72 (32.7)	

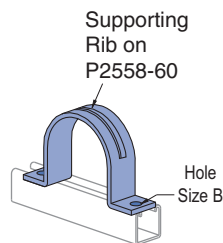
Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)
P2061	4⅞ (123.8)	73 (33.1)	1000 (4.45)
P2062	5 (127.0)	74 (33.6)	
P2063	5⅛ (130.2)	76 (34.5)	
P2064	5¼ (133.4)	77 (34.9)	
P2065	5⅝ (136.5)	78 (35.4)	
P2066	5½ (140.0)	79 (35.8)	
P2067	5⅞ (142.9)	88 (39.9)	
P2068	5¾ (146.1)	90 (40.8)	
P2069	5⅞ (149.2)	92 (41.7)	
P2070	6 (152.4)	94 (42.6)	
P2070-61	6⅞ (155.6)	96 (43.5)	
P2070-62	6¼ (158.8)	98 (44.5)	
P2070-63	6⅝ (161.9)	99 (44.9)	
P2070-64	6½ (165.1)	100 (45.4)	
P1124	6⅞ (168.3)	102 (46.3)	
P2070-66	6¾ (171.5)	104 (47.2)	
P2070-67	6⅞ (174.6)	106 (48.1)	
P2070-70	7 (177.8)	108 (49.0)	
P2070-71	7⅛ (181.0)	110 (49.9)	
P2070-72	7¼ (184.2)	112 (50.8)	
P2070-73	7⅝ (187.3)	114 (51.7)	
P2070-74	7½ (190.5)	116 (52.6)	
P2070-75	7⅞ (193.7)	117 (53.1)	
P2070-76	7¾ (196.9)	119 (54.0)	
P2070-77	7⅞ (200.0)	121 (54.9)	
P2070-80	8 (203.2)	123 (55.8)	
P2070-81	8⅞ (206.4)	125 (56.7)	
P2070-82	8¼ (209.6)	126 (57.2)	
P2070-83	8⅝ (212.7)	128 (58.1)	
P2070-84	8½ (215.9)	129 (58.5)	
P1126	8⅞ (219.1)	130 (59.0)	

P2558-5 THRU P2558-60

SINGLE PIECE PIPE STRAP



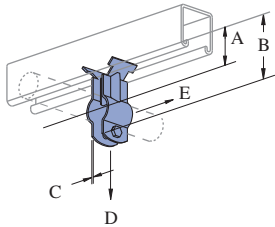
Hardware sold separately.



Part No.	Nom. Pipe Size In	A In (mm)	"B" In (mm)	C In (mm)	Thickness In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kN)															
P2558-05	½	2⅞ 73.0	¾	⅞	⅜	23	500 2.22															
P2558-07	¾	3⅞ 79.4				10.4																
		26																				
P2558-10	1	3⅞ 85.7	7.1	11.1	⅜	31																
P2558-12	1¼	3⅞ 95.3	⅞	17.5	¼	14.1	1,000 4.45															
		35																				
P2558-15	1½	3⅞ 98.4				11.1		17.5	¼	39												
		17.7																				
P2558-20	2	5¼ 146.1				11.1		17.5	¼	94	1,000 4.45											
		42.6																				
P2558-25	2½	6¼ 158.8								11.1		17.5	¼	114								
		51.7																				
P2558-30	3	6⅞ 174.6												11.1	17.5	¼	133					
		60.3																				
P2558-35	3½	7⅞ 187.3															11.1	17.5	¼	152		
		68.9																				
P2558-40	4	7⅞ 200.0	11.1	17.5	¼		176															
		79.8																				
P2558-50	5	9 228.6					11.1													17.5	¼	198
		89.8																				
P2558-60	6	10 254.0				11.1		17.5	¼		225											
		102.1																				

P3409 THRU P3417

STAND-OFF PIPE CLAMPS



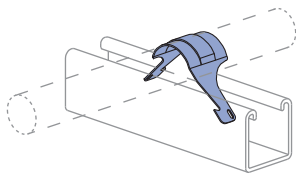
Hardware included.
Finish: Electro-galvanized.
Pipe Clamp 1¼" Wide

Part No.	Pipe Size In (mm)	O.D. Size In (mm)	Load "D" Lbs (kN)	Load "E" Lbs (kN)	A In (mm)	B In (mm)	C Gauge (mm)	Wt/100 pcs Lbs (kg)
P3409	¾	0.675	100	25	1½	2½	14	14
	9.5	17.1	0.44	0.11	28.6	54.0	1.9	6.4
P3411	½	0.840	150	35	1¼	2½	14	15
	12.7	21.3	0.67	0.16	31.8	58.7	1.9	6.8
P3412	¾	1.050	175	40	1½	2½	14	19
	19.1	26.7	0.78	0.18	33.3	63.5	1.9	8.6
P3413	1	1.315	200	50	1½	2¾	14	22
	25.4	33.4	0.89	0.22	38.1	69.9	1.9	10.0
P3414	1¼	1.660	300	70	1¾	3¼	12	34
	31.8	42.2	1.33	0.31	42.9	82.6	2.7	15.4
P3415	1½	1.900	400	80	1¾	3½	11	49
	38.1	48.3	1.78	0.36	44.5	88.9	3.0	22.2
P3417	2	2.375	500	120	2	4	10	55
	50.8	60.3	2.22	0.53	50.8	101.6	3.4	24.9

Safety factor of 5

P2609 THRU P2617, P2426 THRU P2431

UNI-CLIP® SUPPORT



Material: Stainless steel type 301.

The Uni-Clip supports meet or exceed load requirements for American Standard Code for Pressure Piping (1967), and National Electric Code (1971).

UNI-CLIP® SUPPORTS FOR THINWALL CONDUIT (E.M.T.)

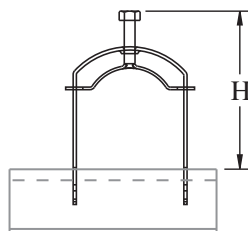
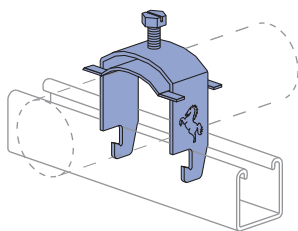
Part Number	Conduit Size In (mm)	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)
P2426	½	0.706	1.7
	12.7	17.9	0.8
P2427	¾	0.922	2.4
	19.1	23.4	1.1
P2428	1	1.163	3.6
	25.4	29.5	1.6
P2429	1¼	1.510	4.6
	31.8	38.4	2.1
P2430	1½	1.740	5.9
	38.1	44.2	2.7
P2431	2	2.197	8
	50.8	55.8	3.6

UNI-CLIP® SUPPORTS FOR RIGID STEEL CONDUIT

Part Number	Conduit Size In (mm)	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)
P2609	¾	0.675	1.6
	9.5	17.1	0.7
P2611	½	0.840	2.3
	12.7	21.3	1.0
P2612	¾	1.050	3.2
	19.1	26.7	1.5
P2613	1	1.315	4.1
	25.4	33.4	1.9
P2614	1¼	1.660	5.1
	31.8	42.2	2.3
P2615	1½	1.900	6.3
	38.1	48.3	2.9
P2617	2	2.375	10
	50.8	60.3	4.5

MU025 THRU MU400

MUSTANG UNIVERSAL ONE-PIECE PIPE, CONDUIT (GRC, EMT & IMC) AND TUBING CLAMPS



Finish: Electro-galvanized.
Clamps are 14 ga.

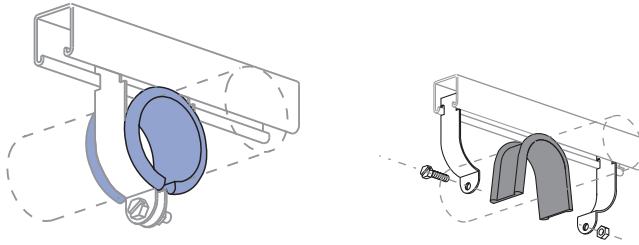
Part No.	Nominal Trade Size In (mm)	Trade Size O.D.		Height Above Channel "H"	
		Min In (mm)	Max In (mm)	Min In (mm)	Max. In (mm)
MU025	¼	0.375	0.5	1¼	2
	6.4	9.5	13.7	44.5	50.8
MU037	¾	0.5	0.7	1½	2½
	9.5	12.7	17.1	47.6	54.0
MU050	½	0.63	0.84	2	2¼
	12.7	15.9	21.3	50.8	57.2
MU075	¾	0.88	1.05	2¼	2½
	19.1	22.2	26.7	57.2	63.5
MU100	1	1.13	1.32	2½	2¾
	25.4	28.6	33.4	60.3	69.9
MU125	1¼	1.38	1.66	2¾	3¼
	31.8	34.9	42.2	69.9	79.4
MU150	1½	1.63	1.90	3	3½
	38.1	41.3	48.3	76.2	85.7
MU200	2	2.13	2.38	3½	3¾
	50.8	54.0	60.3	85.7	98.4
MU250	2½	2.63	2.88	4¼	4½
	63.5	66.7	73.0	108.0	117.5
MU300	3	3.13	3.50	4¾	5½
	76.2	79.4	88.9	123.8	136.5
MU350	3½	3.63	4.00	5¼	5¾
	88.9	92.1	101.6	133.4	149.2
MU400	4	4.13	4.50	5¾	6½
	101.6	104.8	114.3	146.1	161.9



P2600

UNICUSHION®: ISOLATION MATERIAL

Wt/Carton: 2.5 Lbs (1.1 kg)



- 25 feet per carton.
- Cut to length as shown in chart below.

UNICUSHION FEATURES

- Shock absorption
- Protection from corrosion and abrasion
- Allowance for expansion and contraction in pipe diameter
- Sound and vibration isolation
- Stability in use from - 50° F (-47° C) to + 350°F (+177° C)
- Flexible elastomer material
- Will not support combustion

UNICUSHION® CLAMP SELECTION GUIDE

EMT CONDUIT

Nominal Size	Use with Clamp	UNICUSHION Length In (mm)
3/8"	P1426	1 1/4 (44.5)
1/2"	P1111	2 1/8 (54.0)
3/4"	P1112	2 3/4 (69.9)
1"	P2032	3 5/8 (92.1)
1 1/4"	P2035	4 3/4 (120.7)
1 1/2"	P2037	5 1/2 (139.7)
2"	P1117	6 3/4 (171.5)

STANDARD PIPE OR RIGID CONDUIT

Nominal Size	Use with Clamp	UNICUSHION Length In (mm)
3/8"	P1111	2 1/8 (54.0)
1/2"	P2030	3 (76.2)
3/4"	P2031	3 1/4 (82.6)
1"	P2034	4 1/4 (108.0)
1 1/4"	P2037	5 1/4 (133.4)
1 1/2"	P2038	6 (152.4)
2"	P2042	7 1/2 (190.5)
2 1/2"	P2046	9 (228.6)
3"	P2051	11 (279.4)
3 1/2"	P2055	12 1/4 (311.2)
4"	P2059	14 (355.6)
5"	P2067	17 1/2 (444.5)
6"	P2070-66	20 3/4 (527.1)

COPPER TUBING TYPE K OR L

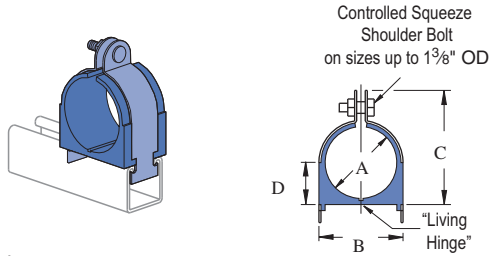
Nominal Size	Use with Clamp	UNICUSHION Length In (mm)
1/4"	P2026	1 1/16 (27.0)
3/8"	P2027	1 1/2 (38.1)
1/2"	P2028	2 1/8 (54.0)
5/8"	P2029	2 1/4 (57.2)
3/4"	P2030	3 (76.2)
1"	P2032	3 5/8 (92.1)
1 1/4"	P2034	4 1/2 (114.3)
1 1/2"	P1430	5 1/4 (133.4)
2"	P2040	6 3/4 (171.5)
2 1/2"	P2044	8 1/4 (209.6)
3"	P2048	10 (254.0)
3 1/2"	P2052	11 1/4 (285.8)
4"	P2056	12 1/2 (317.5)
5"	P2064	16 (406.4)
6"	P2070-62	19 (482.6)
8"	P2070-82	25 (635.0)

UNICUSHION® CLAMP CUTTING GUIDE

O. D. Size In (mm)	Use With Clamp	UNICUSHION Length In (mm)
1/4 (6.4)	P2025	7/8 (22.2)
3/8 (9.5)	P2026	1 1/16 (27.0)
1/2 (12.7)	P2027	1 1/2 (38.1)
5/8 (15.9)	P2028	2 1/8 (54.0)
3/4 (19.1)	P2029	2 1/4 (57.2)
7/8 (22.2)	P2030	3 (76.2)
1 (25.4)	P2031	3 1/4 (82.6)
1 1/8 (28.6)	P2032	3 5/8 (92.1)
1 1/4 (31.8)	P2033	4 (101.6)
1 3/8 (34.9)	P2034	4 1/2 (114.3)
1 1/2 (38.1)	P2035	4 3/4 (123.8)
1 5/8 (41.3)	P1430	5 1/4 (133.4)
1 3/4 (44.5)	P2037	5 1/2 (139.7)
1 7/8 (47.6)	P2038	6 (152.4)
2 (50.8)	P2039	6 1/2 (165.1)
2 1/8 (54.0)	P2040	6 3/4 (171.5)
2 1/4 (57.2)	P1117	7 1/4 (184.2)
2 3/8 (60.3)	P2042	7 1/2 (190.5)
2 1/2 (63.5)	P2043	8 (203.2)
2 5/8 (66.7)	P2044	8 1/4 (209.6)
2 3/4 (69.9)	P1118	8 3/4 (222.3)
2 7/8 (73.0)	P2046	9 1/4 (235.0)
3 (76.2)	P2047	9 1/2 (241.3)

O. D. Size In (mm)	Use With Clamp	UNICUSHION Length In (mm)
3/8 (79.4)	P2048	10 (254.0)
3/4 (82.6)	P2049	10 1/2 (266.7)
3/8 (85.7)	P1119	10 3/4 (273.1)
3 1/2 (88.9)	P2051	11 (279.4)
3 3/8 (92.1)	P2052	11 1/4 (285.8)
3 1/4 (95.3)	P2053	11 1/2 (292.1)
3 3/8 (98.4)	P1120	11 3/4 (298.5)
4 (101.6)	P2055	12 (304.8)
4 1/8 (104.8)	P2056	12 1/2 (317.5)
4 1/4 (108.0)	P2057	13 (330.2)
4 3/8 (111.1)	P1121	13 1/2 (342.9)
4 1/2 (114.3)	P2059	14 (355.6)
4 3/8 (117.5)	P2060	14 1/4 (362.0)
4 1/2 (120.7)	P2061	14 3/4 (374.7)
4 3/8 (123.8)	P2062	15 (381.0)
5 (127.0)	P2063	15 1/2 (393.7)
5 1/8 (130.2)	P2064	16 (406.4)
5 1/4 (133.4)	P2065	16 1/4 (412.8)
5 3/8 (136.5)	P2066	16 1/2 (419.1)
5 1/2 (139.7)	P2067	17 (431.8)
5 3/8 (142.9)	P2068	17 1/2 (444.5)
5 1/2 (146.1)	P2069	17 3/4 (450.9)
5 3/8 (149.2)	P2070	18 1/4 (463.6)

O. D. Size In (mm)	Use With Clamp	UNICUSHION Length In (mm)
6 (152.4)	P2070-61	18 1/2 (469.9)
6 1/8 (155.6)	P2070-62	19 (482.6)
6 1/4 (158.8)	P2070-63	19 1/4 (489.0)
6 3/8 (161.9)	P2070-64	19 3/4 (501.7)
6 1/2 (165.1)	P1124	20 (508.0)
6 3/4 (168.3)	P2070-66	20 1/2 (520.7)
6 3/4 (171.5)	P2070-67	21 (533.4)
6 3/4 (174.6)	P2070-70	21 1/4 (539.8)
7 (177.8)	P2070-71	21 3/4 (552.5)
7 1/8 (181.0)	P2070-72	22 (558.8)
7 1/4 (184.2)	P2070-73	22 1/2 (571.5)
7 3/8 (187.3)	P2070-74	22 3/4 (577.9)
7 1/2 (190.5)	P2070-75	23 1/4 (590.6)
7 3/8 (193.7)	P2070-76	23 1/2 (596.9)
7 3/4 (196.9)	P2070-77	24 (609.6)
7 7/8 (200.0)	P2070-80	24 1/2 (622.3)
8 (203.2)	P2070-81	24 3/4 (628.7)
8 1/8 (206.4)	P2070-82	25 (635.0)
8 1/4 (209.6)	P2070-83	25 1/2 (647.7)
8 3/8 (212.7)	P2070-84	26 (660.4)
8 1/2 (215.9)	P1126	26 1/4 (666.8)



Materials:

Clamp: Electro-galvanized or stainless steel.
Cushion: Thermoplastic elastomer. (UV Resistant)

Includes cushion, clamp and hardware.

Temperature Rating:
-50°F to +275°F (-45°C to +135°C)

Insert Width: 1.56" (39.6)

Part Numbers are "coded" to designate cushion size and clamp size. Examples:

- 004T008** 004 - Cushion Size 1/16" (6.4)
T - With Controlled Squeeze Shoulder Bolt
Available on sizes up to 1 3/8"
- 008 - Clamp Size 3/16" (12.7)
- 009N012** 009 - Cushion Size 3/16" (14.3)
N - With Standard Bolt
- 012 - Clamp Size 1/2" (19.1)

Pipe Series Assembly

Part No.	Nominal Pipe Size	"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	Wt/100 pcs Lbs/(kg)
009N012	1/4	0.54 13.7	0.98 24.9	1.34 34.0	0.43 10.9	13 5.9
011N014	3/8	0.67 17.0	1.13 28.7	1.54 39.1	0.49 12.4	14 6.4
014N018	1/2	0.84 21.3	1.29 32.8	1.82 46.2	0.58 14.7	15 6.8
017N022	3/4	1.05 26.7	1.5 38.1	1.95 49.5	0.7 17.8	17 7.7
021N026	1	1.31 33.3	1.76 44.7	2.34 59.4	0.81 20.6	19 8.6
027N032	1 1/4	1.66 42.2	2.17 55.1	2.73 69.3	0.99 25.1	35 15.9
030N034	1 1/2	1.9 48.3	2.35 59.7	2.86 72.6	1.09 27.7	39 17.7
038N044	2	2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	49 22.2
046N052	2 1/2	2.87 72.9	3.32 84.3	4.17 105.9	1.66 42.2	57 25.9
056N062	3	3.5 88.9	3.95 100.3	4.79 121.7	1.97 50.0	55 24.9
064N072	3 1/2	4 101.6	4.45 113.0	5.42 137.7	2.28 57.9	88 39.9
072N080	4	4.5 114.3	4.95 125.7	5.92 150.4	2.53 64.3	110 49.9
089N096	5	5.56 141.2	6.01 152.7	6.92 175.8	3.06 77.7	130 59.0
106N114	6	6.62 168.1	7.07 179.6	8.23 209.0	3.59 91.2	140 63.5

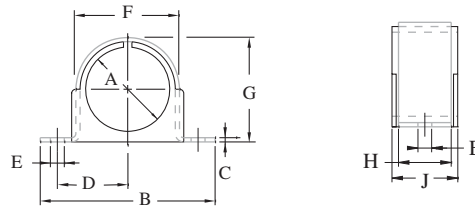
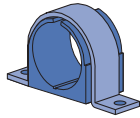
Tube Series Assembly

Part Number	Copper & Steel Tube O. D. Size	Copper Water Pipe (Nominal)	"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	Wt/100 pcs Lbs/(kg)
004T008	1/4		0.25 6.4	0.62 15.7	0.98 24.9	0.27 6.9	10 4.5
006T010	3/8	1/4	0.37 9.4	0.82 20.8	1.13 28.7	0.33 8.4	11 5.0
008T012	1/2	3/8	0.5 12.7	0.94 23.9	1.34 34.0	0.4 10.2	13 5.9
010T014	5/8	1/2	0.62 15.7	1.06 26.9	1.54 39.1	0.46 11.7	14 6.4
012T016	3/4	5/8	0.75 19.1	1.2 30.5	1.68 42.7	0.52 13.2	14 6.4
014T018	7/8	3/4	0.87 22.1	1.31 33.3	1.82 46.2	0.58 14.7	15 6.8
016T020	1		1 25.4	1.44 36.6	1.95 49.5	0.65 16.5	17 7.7
018T022	1 1/8	1	1.12 28.4	1.57 39.9	2.08 52.8	0.7 17.8	18 8.2
020T024	1 1/4		1.25 31.8	1.7 43.2	2.21 56.1	0.77 19.6	18 8.2
022T026	1 3/8	1 1/4	1.37 34.8	1.82 46.2	2.34 59.4	0.83 21.1	20 9.1
024N028	1 1/2		1.5 38.1	1.95 49.5	2.47 62.7	0.9 22.9	33 15.0
026N030	1 5/8	1 1/2	1.62 41.1	2.07 52.6	2.6 66.0	0.96 24.4	35 15.9
028N032	1 3/4		1.75 44.5	2.2 55.9	2.73 69.3	1.02 25.9	37 16.8
030N034	1 7/8		1.9 48.3	2.35 59.7	2.86 72.6	1.09 27.7	39 17.7
032N036	2		2 50.8	2.45 62.2	3.04 77.2	1.15 29.2	46 20.9
034N040	2 1/8	2	2.12 53.8	2.57 65.3	3.23 82.0	1.27 32.3	47 21.3
038N044	2 3/8		2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	49 22.2
040N046	2 1/2		2.5 63.5	2.94 74.7	3.79 96.3	1.46 37.1	51 23.1
042N048	2 5/8		2.62 66.5	3.1 78.0	3.92 99.6	1.53 38.9	55 24.9
046N052	2 7/8		2.87 72.9	3.3 84.3	4.17 105.9	1.66 42.2	57 25.9
050N054	3		3 76.2	3.6 90.7	4.42 112.3	1.78 45.2	60 27.2
050N056	3 1/8		3.12 79.2	3.6 90.7	4.42 112.3	1.78 45.2	60 27.2
053N060	3 1/4		3.31 84.1	4.0 100.6	4.75 120.7	1.9 48.3	62 28.1
056N062	3 1/2		3.5 88.9	4.0 100.3	4.79 121.7	1.97 50.0	55 24.9
058N064	3 3/8		3.62 91.9	4.2 106.7	4.99 126.7	2.03 51.6	70 31.8
064N072	4		4 101.6	4.5 113.0	5.42 137.7	2.28 57.9	88 39.9
066N074	4 1/8		4.12 104.6	4.6 116.1	5.54 140.7	2.34 59.4	94 42.6
069N076	4 1/4		4.34 110.2	5.0 126.0	5.84 148.3	2.4 61.0	100 45.4
072N080	4 1/2		4.5 114.3	5.0 125.7	5.92 150.4	2.53 64.3	110 49.9
082N090	5 1/8		5.12 130.0	5.6 141.5	6.54 166.1	2.84 72.1	125 56.7
098N106	6 1/8		6.12 155.4	6.6 166.9	7.54 191.5	3.34 84.8	130 59.0



004M007 THRU 034M040

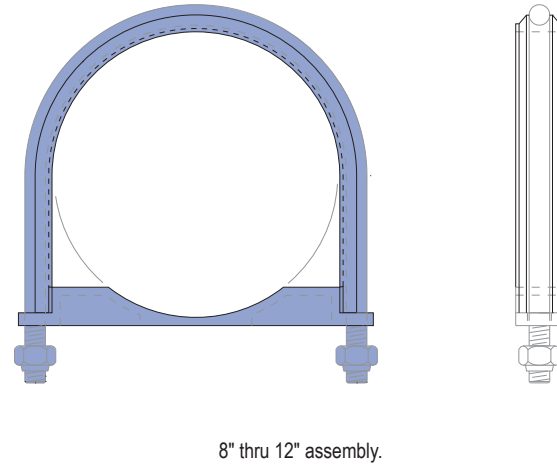
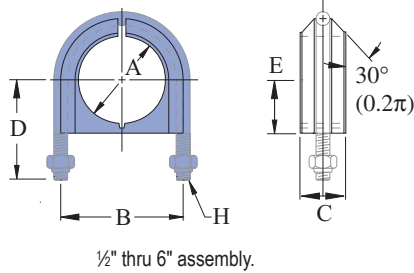
CUSH-A-CLAMP® ASSEMBLY OMEGA SERIES™



Includes clamp and cushion.
 Materials: Clamp: ZD or stainless steel.
 Cushion: Thermoplastic elastomer.

Note: Not to be used with Unistrut Channel.
 Can be mounted to any flat surface.

Part Number	Copper & Steel Tubing O. D. In	Copper Water Pipe (Nominal) In	Pipe Size (Nominal) In	Dimensions									Wt/100 pcs Lbs (kg)
				"A" In (mm)	"B" In (mm)	"C" In (mm)	"D" In (mm)	"E" In (mm)	"F" In (mm)	"G" In (mm)	"H" In (mm)	"J" In (mm)	
004M007	¼			0.25	1.8	0.06	0.6	0	0.53	0.48	0.62	0.78	3.4
				6.4	46.0	1.5	15.2	5.1	13.5	12.2	15.7	19.8	1.5
006M008	¾	¼		0.37	1.9	0.06	0.65	0	0.62	0.62	0.62	0.81	4.0
				9.4	48.3	1.5	16.5	5.1	15.7	15.7	15.7	20.6	1.8
008M011	½	¾	¼	0.5	2.2	0.06	0.8	0	0.82	0.75	0.75	0.98	5.5
				12.7	55.9	1.5	20.3	6.6	20.8	19.1	19.1	24.9	2.5
010M013	⅝	½	¾	0.62	2.3	0.06	0.86	0	0.94	0.87	0.75	0.98	6.0
				15.7	58.9	1.5	21.8	6.6	23.9	22.1	19.1	24.9	2.7
012M015	¾	⅝		0.75	2.4	0.06	0.9	0	1.03	1.01	0.75	0.98	6.5
				19.1	61.2	1.5	22.9	6.6	26.2	25.7	19.1	24.9	2.9
014M017	⅞	¾	½	0.87	2.6	0.06	0.98	0	1.18	1.03	0.75	0.98	7.1
				22.1	65.0	1.5	24.9	6.6	30.0	26.2	19.1	24.9	3.2
016M019	1			1	2.7	0.06	1.04	0	1.31	1.25	0.75	0.98	7.8
				25.4	68.1	1.5	26.4	6.6	33.3	31.8	19.1	24.9	3.5
018M020			¾	1.05	2.7	0.06	1.04	0	1.31	1.25	0.75	0.98	8.1
				26.7	68.1	1.5	26.4	6.6	33.3	31.8	19.1	24.9	3.7
018M021	1½	1		1.12	2.8	0.06	1.11	0	1.44	1.33	0.75	0.98	8.4
				28.4	71.6	1.5	28.2	6.6	36.6	33.8	19.1	24.9	3.8
020M024	1¼			1.25	3.0	0.08	1.2	0	1.65	1.47	1.25	1.56	17
				31.8	76.2	2.0	30.5	6.6	41.9	37.3	31.8	39.6	7.7
021M026			1	1.31	3.1	0.08	1.26	0	1.76	1.71	1.25	1.56	20
				33.3	79.2	2.0	32.0	6.6	44.7	43.4	31.8	39.6	9.1
022M026	1¾	1¼		1.37	3.1	0.08	1.26	0	1.76	1.71	1.25	1.56	19
				34.8	79.2	2.0	32.0	6.6	44.7	43.4	31.8	39.6	8.6
024M028	1½			1.5	3.7	0.08	1.42	0	1.93	1.88	1.25	1.56	20
				38.1	92.7	2.0	36.1	6.6	49.0	47.8	31.8	39.6	9.1
026M030	1¾	1½		1.62	3.8	0.08	1.48	0	2.07	2	1.25	1.56	23
				41.1	95.8	2.0	37.6	6.6	52.6	50.8	31.8	39.6	10.4
027M032			1¼	1.66	3.9	0.1	1.55	0	2.21	2.12	1.25	1.56	32
				42.2	99.1	2.5	39.4	8.4	56.1	53.8	31.8	39.6	14.5
028M032	1¾			1.75	3.9	0.1	1.55	0	2.21	2.12	1.25	1.56	32
				44.5	99.1	2.5	39.4	8.4	56.1	53.8	31.8	39.6	14.5
030M034	1¾		1½	1.87	4.0	0.1	1.61	0	2.33	2.25	1.25	1.56	34
				47.5	102.1	2.5	40.9	8.4	59.2	57.2	31.8	39.6	15.4
032M036	2			2	4.2	0.1	1.67	0	2.46	2.38	1.25	1.56	36
				50.8	105.4	2.5	42.4	8.4	62.5	60.5	31.8	39.6	16.3
034M040	2½			2.12	4.4	0.1	1.8	0	2.71	2.62	1.25	1.56	41
				53.8	111.8	2.5	45.7	8.4	68.8	66.5	31.8	39.6	18.6
038M044			2	2.37	4.7	0.1	1.94	0	2.96	2.88	1.25	1.56	44
				60.2	119.6	2.5	49.3	8.4	75.2	73.2	31.8	39.6	20.0
082M090	5½			5.12	7.6	0.1	3.41	0	5.83	6.75	1.25	1.56	120
				130.0	194.1	2.5	86.6	10.2	148.1	171.5	31.8	39.6	54.4



Includes U bolt, cushion, and hardware.

Materials:

U Bolt: Electro-galvanized finish or Type 316SS

Cushion: Thermoplastic elastomer.

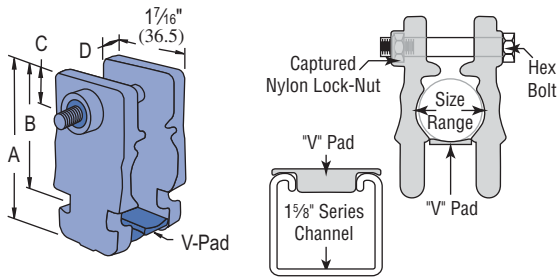
Note: Not intended for use with metal framing components due to the length of the thread.

Part Number	Pipe Size (Nominal) In (mm)	Dimensions							H	Wt/100 pcs Lbs (kg)
		"A" In (mm)	"B" In (mm)	"C" In (mm)	"D" In (mm)	"E" In (mm)	"F" In (mm)			
UB $\frac{1}{2}$ PA	$\frac{1}{2}$	0.84	1.6	0.68	1.5	1	$\frac{1}{4}$	$\frac{1}{4}$ -20 UNC-2B	9	
	12.7	21.3	40.6	17.3	38.1	17.0	6.4		4.1	
UB $\frac{3}{4}$ PA	$\frac{3}{4}$	1.1	1.8	0.7	1.6	0.8	$\frac{1}{4}$	$\frac{1}{4}$ -20 UNC-2B	10	
	19.1	26.7	45.7	17.3	40.6	19.8	6.4		4.5	
UB1PA	1	1.3	2.1	0.7	1.7	0.9	$\frac{1}{4}$	$\frac{1}{4}$ -20 UNC-2B	12	
	25.4	33.3	52.1	17.3	43.2	23.1	6.4		5.4	
UB1 $\frac{1}{4}$ PA	1 $\frac{1}{4}$	1.7	2.5	1.2	2.1	1.1	$\frac{3}{8}$	$\frac{3}{8}$ -16 UNC-2B	36	
	31.8	42.2	64.5	31.5	53.3	27.4	9.5		16.3	
UB1 $\frac{1}{2}$ PA	1 $\frac{1}{2}$	1.9	2.8	1.2	2.2	1.2	$\frac{3}{8}$	$\frac{3}{8}$ -16 UNC-2B	32	
	38.1	48.3	70.6	31.5	55.9	30.2	9.5		14.5	
UB2PA	2	2.4	3.3	1.2	2.5	1.5	$\frac{3}{8}$	$\frac{3}{8}$ -16 UNC-2B	42	
	50.8	60.2	84.3	31.5	63.5	36.8	9.5		19.1	
UB2 $\frac{1}{2}$ PA	2 $\frac{1}{2}$	2.9	3.9	1.2	3.0	1.7	$\frac{1}{2}$	$\frac{1}{2}$ -13 UNC-2B	72	
	63.5	72.9	98.6	31.5	76.2	42.9	12.7		32.7	
UB3PA	3	3.5	4.5	1.2	3.3	2.0	$\frac{1}{2}$	$\frac{1}{2}$ -13 UNC-2B	84	
	76.2	88.9	114.3	31.5	83.8	50.8	12.7		38.1	
UB3 $\frac{1}{2}$ PA	3 $\frac{1}{2}$	4.0	5.0	1.2	3.7	2.3	$\frac{1}{2}$	$\frac{1}{2}$ -13 UNC-2B	93	
	88.9	101.6	127.0	31.5	94.0	57.2	12.7		42.2	
UB4PA	4	4.5	5.5	1.2	3.9	2.5	$\frac{1}{2}$	$\frac{1}{2}$ -13 UNC-2B	102	
	101.6	114.3	139.7	31.5	99.1	63.5	12.7		46.3	
UB5PA	5	5.6	6.6	1.2	4.5	3.0	$\frac{1}{2}$	$\frac{1}{2}$ -13 UNC-2B	123	
	127.0	141.2	167.4	31.5	114.3	77.0	12.7		55.8	
UB6PA	6	6.6	7.8	1.4	5.4	3.6	$\frac{5}{8}$	$\frac{5}{8}$ -11 UNC-2B	123	
	152.4	168.1	198.4	36.6	137.2	90.4	15.9		55.8	
UB8PA	8	8.6	9.8	1.4	6.4	4.6	$\frac{5}{8}$	$\frac{5}{8}$ -11 UNC-2B	243	
	203.2	218.9	249.9	36.6	162.6	115.8	15.9		110.2	
UB10PA	10	10.8	12.3	1.7	7.7	5.7	$\frac{3}{4}$	$\frac{3}{4}$ -10 UNC-2B	492	
	254.0	273.1	311.2	41.9	195.6	144.3	19.1		223.2	
UB12PA	12	12.8	14.3	1.7	8.7	6.7	$\frac{3}{4}$	$\frac{3}{4}$ -10 UNC-2B	563	
	304.8	323.9	362.0	41.9	221.0	169.7	19.1		255.4	



CG-10 THRU CG-40

CUSH-A-GRIP®



Part Number	O.D. Tube Sizes In(mm)			Nominal Pipe Sizes In(mm)		Diameters In(mm)	PullOut Load Lbs(kN)	Slip Load Lbs(kN)
CG-10	1/4	3/8	1/2	1/4		0.25 - 0.54	500	40
	6.4	9.5	12.7	6.4		6.4 - 13.7	2.22	0.18
CG-20	3/8	1/2	3/4	3/8	1/2	0.62 - 0.87	500	40
	15.9	19.1	22.2	9.5	12.7	15.7 - 22.1	2.22	0.18
CG-30	1/2	3/4	1	3/4		0.87 - 1.12	500	40
	22.2	25.4	28.6	19.1		22.1 - 28.4	2.22	0.18
CG-40	3/4	1	1 1/4	3/4	1	1.00 - 1.31	500	40
	25.4	28.6	31.8	19.1	25.4	25.4 - 33.3	2.22	0.18

Part Number	Nominal Pipe Size	Dimensions				Hex Head Cap Screw & Lock Nut	Wt/100 pcs Lbs(kg)
		"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)		
CG-10	1/4	1 1/16	1 3/8	3/8	3/16	1/4-20 x 1 1/2"	4
		49.2	34.9	9.5	4.8		1.8
CG-20	3/8	2 3/8	1 5/8	7/16	1/4	1/4-20 x 2"	6
		60.3	41.3	11	6.4		2.7
CG-30	1/2	2 9/16	1 3/16	7/16	5/16	1/4-20 x 2"	8
		65.1	46.0	11	7.9		3.6
CG-40	3/4	2 1/4	1 1/16	7/16	5/16	1/4-20 x 2"	8
		68.3	49.2	11	7.9		3.6

Includes Cushion, V-pad, and Hardware.

Materials: Cushion: Thermoplastic elastomer.

Hardware: Stainless Steel with Captured Nylon Locknut

Temperature Rating:

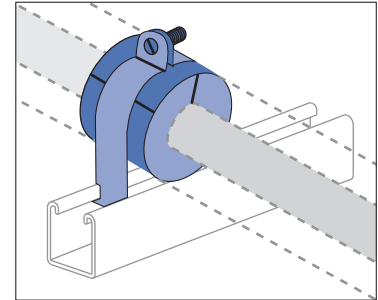
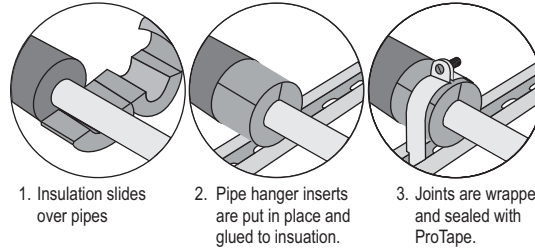
-40°F to +275°F (-40°C to 135°C)

PUX3834 THRU PUX41810

CUSH-A-THERM™

The only airtight, crush-resistant insulation clamp on the market.

- Maintains thermal barrier protection
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration



Nominal 3/4" Wall

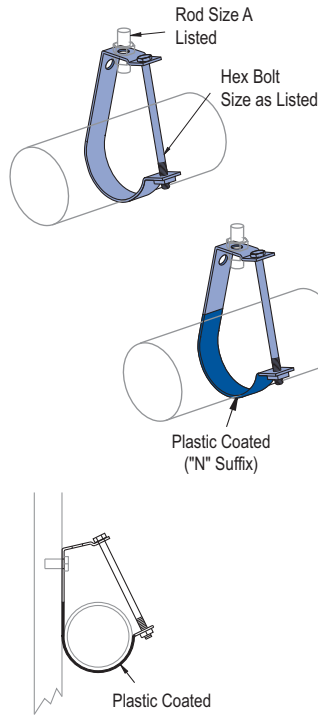
Part Number	Hole Size In(mm)	Copper Nom. I.D. In(mm)	O.D. In(mm)	IPS In(mm)	O.D. In(mm)	Length In(mm)
PUX3834	3/8 ID	1/4	3/8	-	1.81	2.17
	9.5	6.4	9.5	-	46.0	55.1
PUX1234	1/2 ID	3/8	1/2	1/4	1.89	2.17
	12.7	9.5	12.7	6.4	48.0	55.1
PUX5834	5/8 ID	1/2	5/8	3/8	2.05	2.17
	15.9	12.7	15.9	9.5	52.1	55.1
PUX3434	3/4 ID	5/8	3/4	-	2.22	2.17
	19.1	15.9	19.1	-	56.4	55.1
PUX7834	7/8 ID	3/4	7/8	1/2	2.44	2.17
	22.2	19.1	22.2	12.7	62.0	55.1
PUX11834	1 1/8 ID	1	1 1/8	3/4	2.76	2.17
	28.6	25.4	28.6	19.1	70.1	55.1
PUX13834	1 1/4 ID	1 1/4	1 1/4	1	3.19	2.56
	34.9	31.8	34.9	25.4	81.0	65.0
PUX15834	1 1/2 ID	1 1/2	1 1/2	1 1/4	3.35	2.58
	41.3	38.1	41.3	31.8	85.1	65.5
PUX21834	2 ID	2	2	-	3.86	2.56
	54.0	50.8	54.0	-	98.0	65.0
PUX23834	2 1/2 ID	2 1/2	2 1/2	2	4.29	2.96
	60.3	57.2	60.3	50.8	109.0	75.2
PUX25834	2 3/4 ID	2 3/4	2 3/4	-	4.87	2.96
	66.7	63.5	66.7	-	123.7	75.2
PUX31834	3 ID	3	3	-	5	3.35
	79.4	76.2	79.4	-	127.0	85.1
PUX35834	3 1/2 ID	3 1/2	3 1/2	-	5.94	3.94
	92.1	88.9	92.1	-	150.9	100.1
PUX41834	4 ID	4	4	3 1/2	6.14	3.94
	104.8	101.6	104.8	88.9	156.0	100.1

Nominal 1" Wall

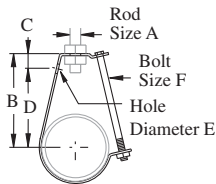
Part Number	Hole Size In(mm)	Copper Nom. I.D. In(mm)	O.D. In(mm)	IPS In(mm)	O.D. In(mm)	Length In(mm)
PUX5810	5/8 ID	1/2	5/8	3/8	2.54	2.2
	15.9	12.7	15.9	9.5	64.5	55.1
PUX3410	3/4 ID	5/8	3/4	-	2.82	2.2
	19.1	15.9	19.1	-	71.6	55.1
PUX7810	7/8 ID	3/4	7/8	1/2	2.82	2.2
	22.2	19.1	22.2	12.7	71.6	55.1
PUX11810	1 1/8 ID	1	1 1/8	3/4	3.06	2.2
	28.6	25.4	28.6	19.1	77.7	55.1
PUX13810	1 1/4 ID	1 1/4	1 1/4	1	3.33	2.6
	34.9	31.8	34.9	25.4	84.6	65.0
PUX15810	1 1/2 ID	1 1/2	1 1/2	1 1/4	3.65	2.6
	41.3	38.1	41.3	31.8	92.7	65.0
PUX21810	2 ID	2	2	-	4.16	2.6
	54.0	50.8	54.0	-	105.7	65.0
PUX23810	2 1/2 ID	2 1/2	2 1/2	2	3.92	2.6
	60.3	57.2	60.3	50.8	99.6	65.0
PUX25810	2 3/4 ID	2 3/4	2 3/4	-	4.87	3.0
	66.7	63.5	66.7	-	123.7	75.2
PUX31810	3 ID	3	3	-	5.14	3.4
	79.4	76.2	79.4	-	130.6	85.1
PUX35810	3 1/2 ID	3 1/2	3 1/2	-	6.48	3.9
	92.1	88.9	92.1	-	164.6	100.1
PUX41810	4 ID	4	4	3 1/2	6.48	3.9
	104.8	101.6	104.8	88.9	164.6	100.1

J1205 THRU J1280, J1205 N THRU J 1280 N (PLASTIC COATED)

"J" CONDUIT & PIPE HANGER



"T" Bolt and Nut Included



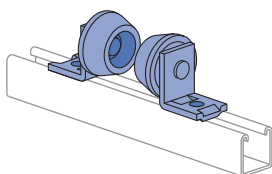
Hanger Rod Suspended

Part No.	Wt/100 pcs Lbs (kg)	Part No.	Wt/100 pcs Lbs (kg)	Pipe Size In	"A" In (mm)	"B" In (mm)	"C" In (mm)	"D" In (mm)	"E" In (mm)	"F" In (mm)	Load Lbs (kN)
J1205	20 9.1	J1205N	21 9.5	½	¾	2½	1	2	1½	¼ x 2¼	400 1.78
J1207	21 9.5	J1207N	22 10.0	¾	¾	2½	1	2¼	1½	¼ x 2¼	400 1.78
J1210	24 10.9	J1210N*	25 11.3	1	¾	3	1	2½	1½	¼ x 2½	400 1.78
J1212	27 12.2	J1212N	29 13.2	1¼	¾	3¼	1	2½	1½	¼ x 2¾	400 1.78
J1215	29 13.2	J1215N*	31 14.1	1½	¾	3½	1	2½	1½	¼ x 3	400 1.78
J1220	33 15.0	J1220N*	35 15.9	2	¾	3¾	1½	2½	1½	¼ x 3½	400 1.78
J1225	71 32.2	J1225N	74 33.6	2½	½	4¾	1½	3½	¾	¾ x 4½	800 3.56
J1230	78 35.4	J1230N*	81 36.7	3	½	4¾	1½	4	¾	¾ x 5	800 3.56
J1235	85 38.6	J1235N	88 39.9	3½	½	5½	1½	4¼	¾	¾ x 6	800 3.56
J1240	178 80.7	J1240N*	182 82.6	4	¾	6½	1½	5½	¾	¾ x 6	800 3.56
J1250	199 90.3	J1250N	203 92.1	5	¾	6¾	1½	5¾	¾	¾ x 7½	800 3.56
J1260	231 104.8	J1260N*	236 107.0	6	¾	7¾	1¼	6½	¾	¾ x 8½	1,000 4.45
J1280	449 203.7	J1280N	458 207.7	8	¾	9¼	1¼	8	¾	¾ x 10	1,200 5.34

*Standard glass drainline and glass process pipe sizes. Minimum safety factor of five (5) on ultimate load.

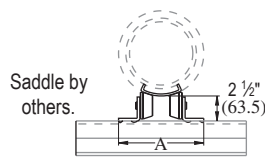
P2474

PIPE ROLLER FOR ½" - 4" PIPE



Sold in pairs.

Requires 2 each ½" x 1½" bolts and ½" channel nuts per assembly. Sold separately.



Cast iron rollers.

Design Load
500 Lbs (2.22kN)

Wt/100 pcs: 268 Lbs (121.6 kg)

Chart for Dimension A

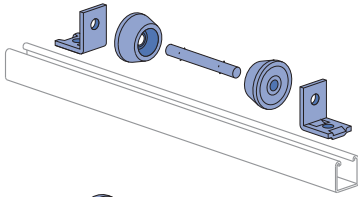
Pipe Size In	Insulation Thickness							
	No Insulation In (mm)	1" In (mm)	1½" In (mm)	2" In (mm)	2½" In (mm)	3" In (mm)	4" In (mm)	
½	6½ 165.1	6½ 165.1	-	-	-	-	-	
¾	6½ 165.1	6½ 165.1	6½ 168.3	6½ 174.6	-	-	-	
1	6½ 165.1	6½ 165.1	6½ 168.3	6½ 174.6	-	-	-	
1¼	6½ 165.1	6½ 165.1	6½ 174.6	7½ 181.0	7½ 187.3	-	-	
1½	6½ 165.1	6½ 165.1	6½ 174.6	7½ 181.0	7½ 187.3	-	-	
2	6½ 165.1	6½ 168.3	7½ 181.0	7½ 187.3	7½ 190.5	8 203.2	-	
2½	6½ 165.1	6½ 168.3	7½ 181.0	7½ 187.3	7½ 190.5	8 203.2	-	
3	6½ 165.1	7 177.8	7½ 190.5	7½ 196.9	7½ 200.0	8½ 206.4	-	
3½	6½ 165.1	7 177.8	7½ 190.5	7½ 196.9	7½ 200.0	8½ 206.4	-	
4	6½ 168.3	7¼ 184.2	7½ 193.7	7½ 200.0	8 203.2	8½ 212.7	9 228.6	



1 5/8" Channel
Telestrut
Nuts & Hardware
General Fittings
Pipe/Conduit Supports
Electrical Fittings
Concrete Inserts
Unipier®

P2474-1 THRU P2474-4

PIPE ROLLER FOR 1" - 8" PIPE



Parts are shipped loose and are easily assembled during installation.

Design Load
750 Lbs (3.34 kN)

Part Number	A In (mm)	Wt/100 pcs Lbs (kg)
P2474-1	6 3/4 171.5	299 135.6
P2474-2	7 1/2 190.5	304 137.9
P2474-3	8 1/2 215.9	311 141.1
P2474-4	9 1/8 242.9	319 144.7

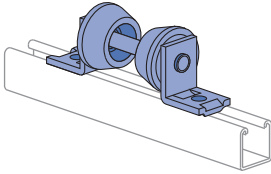
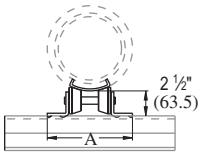


Chart for Roller Part Number Selection

Pipe Size In	No Insulation	Insulation Thickness					
		1" (25.4)	1 1/2" (38.1)	2" (50.8)	2 1/2" (63.5)	3" (76.2)	4" (101.6)
1/2	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
3/4	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
1	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
1 1/4	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
1 1/2	P2474-1	P2474-1	P2474-2	P2474-2	P2474-2	-	-
2	P2474-1	P2474-1	P2474-2	P2474-2	P2474-2	-	-
2 1/2	P2474-1	P2474-1	P2474-2	P2474-2	P2474-2	-	-
3	P2474-1	P2474-2	P2474-2	P2474-3	P2474-3	P2474-3	-
3 1/2	P2474-1	P2474-2	P2474-2	P2474-3	P2474-3	P2474-3	-
4	P2474-1	P2474-2	P2474-2	P2474-3	P2474-3	P2474-3	-
5	P2474-2	P2474-3	P2474-3	P2474-3	P2474-3	P2474-4	P2474-4
6	P2474-2	P2474-3	P2474-3	P2474-3	P2474-3	P2474-4	P2474-4
8	P2474-2	P2474-3	P2474-4	P2474-4	P2474-4	P2474-4	P2474-4

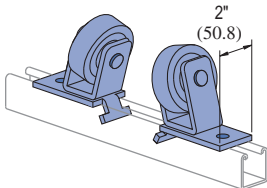


Saddle by others.

- Pipe roller will fit standard saddles.
- Select proper roller from chart.
- Requires 2 each 1/2" x 15/16" bolts and 1/2" channel nuts per assembly. Sold separately.

P2475

PIPE ROLLER FOR 6" - 16" PIPE



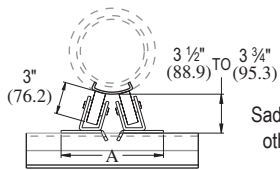
Material: Cast iron rollers.
• Requires 2 each 1/2" x 15/16" bolts and 1/2" channel nuts per assembly. Sold separately.

Chart for Dimension A

Pipe Size In	No Insulation In (mm)	Insulation Thickness					
		1" In (mm)	1 1/2" In (mm)	2" In (mm)	2 1/2" In (mm)	3" In (mm)	4" In (mm)
6	9 1/2	10 1/4	10 1/2	10 3/4	11	11 3/8	11 7/8
	241.3	260.4	266.7	273	279.4	288.9	301.6
8	10 1/8	*	11	11 3/8	11 3/4	12	12 1/2
	257.2		279.4	288.9	298.5	304.8	317.5
10	10 3/4	*	11 1/8	12	12 1/4	12 1/2	13
	273.1		295.3	304.8	311.2	317.5	330.2
12	11 1/4	*	12 1/8	12 1/2	12 3/4	13	13 1/2
	285.8		308.0	317.5	323.9	330.2	342.9
14	11 3/8	*	12 1/2	12 3/4	13	13 3/8	14
	295.3		317.5	327.0	330.2	339.7	355.6
16	12 1/8	*	13	13 3/8	13 3/4	14	14 1/2
	308.0		330.2	339.7	352.4	355.6	368.3

(*Not used for this size)

Sold in pairs.



Saddle by others.

Design Load
1500 Lbs (6.67 kN)

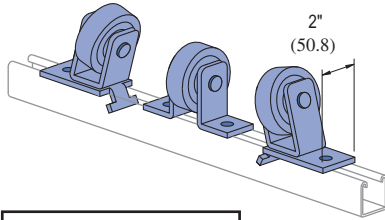
Wt/100 pcs: 680 Lbs (308.4 kg)

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21 mm); Hole Spacing - On Center: 1 7/8" (48 mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)

P2476

PIPE ROLLER FOR 16" - 24" PIPE



• Requires 4 each 1/2" x 1 5/16" bolts and 1/2" channel nuts per assembly. Sold separately.

Design Load
2000 Lbs (8.90 kN)

Material: Cast iron rollers.

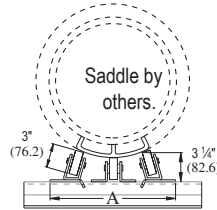


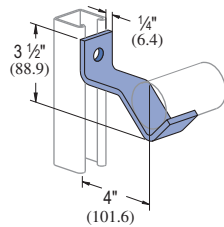
Chart for Dimension A

Pipe Size In	Insulation Thickness				
	1 1/2" In (mm)	2" In (mm)	2 1/2" In (mm)	3" In (mm)	4" In (mm)
16	-	-	13 3/8	14	14 1/2
	-	-	352.4	355.6	368.3
18	13 3/8	14	14 1/8	14 1/2	15
	346.1	355.6	358.8	368.3	381.0
20	14 1/8	14 1/2	14 3/4	15	15 1/2
	358.8	368.3	374.7	381.0	393.7
24	15 1/4	15 1/2	15 7/8	16 1/8	16 3/4
	387.4	393.7	403.2	409.6	422.3

Wt/100 pcs: 1046 Lbs (474.5 kg)

P2481

PIPE SUPPORT BRACKET

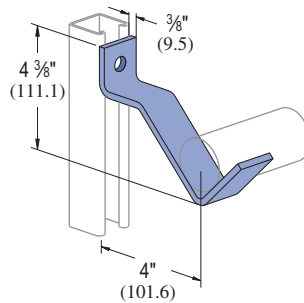


For 1/2" pipe to 1 1/2" pipe.

Wt/100 pcs Lbs (kg)	Design Load (Upright Channel)		
	P1000	P1100	P2000
	Lbs (kN)	Lbs (kN)	Lbs (kN)
90	85	85	85
40.8	0.38	0.38	0.38

P2482

PIPE SUPPORT BRACKET

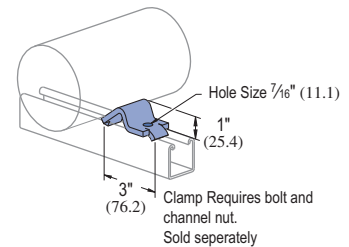


For 2" pipe to 3" pipe.

Wt/100 pcs Lbs (kg)	Design Load (Upright Channel)		
	P1000	P1100	P2000
	Lbs (kN)	Lbs (kN)	Lbs (kN)
139	185	120	95
63.0	0.82	0.53	0.42

P2243

PIPE BLOCK



For 2" (50.8) to 8" (203.2) Pipes

Wt/100 pcs: 40 Lbs (18.1 kg)



Nominal Pipe Dia.	Centerline to Centerline (In/mm)																	
	¾" (19.1mm)			1" (25.4mm)			1¼" (31.8mm)			1½" (38.1mm)			2" (50.8mm)			2½" (63.5mm)		
	T	S		T	F	S	T	F	S	T	F	S	T	F	S	T	F	S
¾" 19.1mm	T	4¾	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	S	4½	4¾	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1" 25.4mm	T	5	4¾	5½	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	6	5¾	6¼	7¼	-	-	-	-	-	-	-	-	-	-	-	-	-
	S	4¾	4½	5	6	4½	-	-	-	-	-	-	-	-	-	-	-	-
1¼" 31.8mm	T	5½	5	5½	6½	5	5½	-	-	-	-	-	-	-	-	-	-	-
	F	6¼	6	6½	7½	6¼	6¾	7¼	-	-	-	-	-	-	-	-	-	-
	S	4¾	4½	5	6	4½	5¼	6¼	4¾	-	-	-	-	-	-	-	-	-
1½" 38.1mm	T	5¾	5	5½	6½	5¼	5¾	6¾	5¼	5¾	-	-	-	-	-	-	-	-
	F	6½	6¼	6¾	7¾	6¼	6¾	8	6½	7	8	-	-	-	-	-	-	-
	S	5	4¾	5¼	6¼	4¾	5¼	6	5	5½	6½	5	-	-	-	-	-	-
2" 50.8mm	T	5¾	5½	6	7	5½	6	7¼	5¼	6¼	7¼	5¼	6½	-	-	-	-	-
	F	7	6¾	7¼	8¼	6¾	7¼	8½	7	7½	8½	7	7¼	9	-	-	-	-
	S	5¼	5	5½	6½	5	5½	6¼	5¼	5¼	6¼	5¼	6	7¼	5½	-	-	-
2½" 63.5mm	T	6	5¾	6¼	7¼	6	6½	7½	6	6½	7¼	6¼	7	8¼	6½	7¼	-	-
	F	7½	7¼	7¾	8¾	7¼	7¾	9	7½	8	9	7½	8¼	9½	7¾	8¾	10	-
	S	5½	5¼	5¾	6¾	5¼	5¾	7	5½	6	7	5½	6¼	7½	5¼	6¾	8	6
3" 76.2mm	T	6¼	6	6½	7½	6¼	6¾	7¾	6¼	6¾	8	6½	7¼	8½	6¾	7½	9	7
	F	7¾	7½	8	9	7½	8	9¼	7¾	8¼	9¼	7¾	8½	9¾	8	9	10¼	8¼
	S	5¾	5½	6	7	5½	6	7¼	5¾	6¼	7¼	5¾	6½	7¾	6	7	8¼	6¼
4" 101.6mm	T	7½	7¼	7¾	8¾	7¼	7¾	9	7½	8	9	7½	8¼	9½	7¾	8¾	10	8
	F	9	8¾	9¼	10¼	8¾	9¼	10½	9	9½	10½	9	9¾	11	9¼	10¼	11½	9½
	S	6¾	6½	7	8	6½	7	8¼	6¾	7¼	8¼	6¾	7½	8¾	7	8	9¼	7¼
5" 127.0mm	T	8	7¾	8¼	9¼	7¾	8¼	9½	8	8½	9½	8	8¾	10	8¼	9¼	10½	8½
	F	9½	9¼	9¾	10¾	9¾	9¾	11	9½	10	11	9½	10¼	11½	9¾	10¾	12	10
	S	7¼	7	7½	8¼	7	7½	8¾	7¼	7¾	8¾	7¼	8	9¼	7½	8½	9¾	7¾
6" 152.4mm	T	8¾	8½	9	10	8½	9	10¼	8¾	9¼	10¼	8¾	9½	10¾	9	10	11¼	9¼
	F	10	9¾	10¼	11¼	9¾	10¼	11½	10	10½	11½	10	10¾	12	10¼	11¼	12½	10½
	S	7¾	7½	8	9	7½	8	9¼	7¾	8¼	9¼	7¾	8½	9¾	8	9	10¼	8¼
8" 203.2mm	T	8¾	9½	10	11	9¾	10½	11¼	9¾	10¼	11½	10	10¾	12	10½	11	12½	10½
	F	11¼	11	11½	12½	11	11½	12¾	11¼	11¼	12¾	11¼	12	13¼	11½	12½	13¾	11¾
10" 254.0mm	T	11¼	11	11½	12½	11	11½	12¾	11¼	11¼	12¾	11¼	12	13¼	11½	12½	13¾	11¾
	F	12½	12¼	12¾	13¾	12¼	12¾	14	12½	13	14	12½	13¼	14½	12¾	13¾	15	13
12" 304.8mm	T	12¾	12	12½	13½	12	12½	13¾	12¼	12¾	13¾	12¼	13	14¼	12½	13½	14¾	12¾
	F	14	13¾	14¼	15¼	13¾	14¼	15½	14	14½	15½	14	14¾	16	14¼	15¼	16½	14½

PIPE SPACING TABLE

This chart, developed by Julius Getlan of Seelye Stevenson Value & Knect, consulting engineers, New York City, enables one to quickly determine the centerline-to-centerline dimension between any two size pipes on a rack.

Select the smaller pipe size at top and select the other at the side of the table. Where the appropriate columns intersect, the dimension is given.

These factors are included in the dimensions given:

- O.D. of flanges and fittings.
- 1" insulation over flanges and fittings.
- All fractional dimensions less than ¼" were increased to the next larger ¼".
- Clear space between fittings as follows:
 1. 1" between piping 3" and smaller.
 2. 1½" between a pipe 3" and smaller and a pipe 4" or larger.
 3. 2" between piping 4" and larger.

T – denotes threaded IPS pipe. F – denotes flanged fittings on pipe. S – denotes soldered or brazed tubing.

3" (76.2mm)		4" (101.6mm)			5" (127.0mm)			6" (152.4mm)			8" (203.2mm)		10" (254.0mm)		12" (304.8mm)		Nominal Pipe Dia.	
																		T
7¼	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	3" 76.2mm
196.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	
9¼	10½	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	
235.0	266.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	4" 101.6mm
7¼	8½	6½	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	
184.2	215.9	165.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	
9	10¼	8¼	10	-	-	-	-	-	-	-	-	-	-	-	-	-	T	5" 127.0mm
228.6	260.4	209.6	254.0	-	-	-	-	-	-	-	-	-	-	-	-	-	F	
10½	11¾	9¾	11½	13	-	-	-	-	-	-	-	-	-	-	-	-	S	
266.7	298.5	247.7	292.1	330.2	-	-	-	-	-	-	-	-	-	-	-	-	T	6" 152.4mm
8¼	9½	7½	9¼	10¾	8½	-	-	-	-	-	-	-	-	-	-	-	F	
209.6	241.3	190.5	235.0	273.1	215.9	-	-	-	-	-	-	-	-	-	-	-	S	
9½	10¾	8¾	10¼	12	9¾	11	-	-	-	-	-	-	-	-	-	-	T	8" 203.2mm
241.3	273.1	222.3	260.4	304.8	247.7	279.4	-	-	-	-	-	-	-	-	-	-	F	
11	12¼	10¼	12	13½	11¼	12½	14	-	-	-	-	-	-	-	-	-	S	
279.4	311.2	260.4	304.8	342.9	285.8	317.5	355.6	-	-	-	-	-	-	-	-	-	T	10" 254.0mm
8¾	10	8	9¾	11¼	9	10¼	11¼	9½	-	-	-	-	-	-	-	-	F	
222.3	254.0	203.2	247.7	285.8	228.6	260.4	298.5	241.3	-	-	-	-	-	-	-	-	T	
10¼	11½	9½	11¼	12¾	10½	11¾	13¼	11	12½	-	-	-	-	-	-	-	F	12" 304.8mm
260.4	292.1	241.3	285.8	323.9	266.7	298.5	336.6	279.4	317.5	-	-	-	-	-	-	-	S	
11½	12¼	10¾	12½	14	11¼	13	14½	12¼	13¾	15	-	-	-	-	-	-	T	
292.1	311.2	273.1	317.5	355.6	298.5	330.2	368.3	311.2	336.6	381.0	-	-	-	-	-	-	F	
9¼	10½	8½	10¼	11¾	9½	10¾	12¼	10	11½	12¾	10½	-	-	-	-	-	S	10" 254.0mm
235.0	266.7	215.9	260.4	298.5	241.3	273.1	311.2	254.0	292.1	323.9	266.7	-	-	-	-	-	T	
11¼	12¾	10¾	12½	14	11¾	13	14½	12¼	13¾	15	12¾	14¾	-	-	-	-	F	
285.8	323.9	273.1	317.5	355.6	298.5	330.2	368.3	311.2	349.3	381.0	323.9	374.7	-	-	-	-	T	
12¾	14	12	13¾	15¼	13	14¼	15¾	13½	15	16¼	14	16¼	17.5	-	-	-	S	8" 203.2mm
323.9	355.6	304.8	349.3	387.4	330.2	362.0	400.1	342.9	381.0	412.8	355.6	412.8	17.5	-	-	-	F	
12¾	14	12	13¾	15¼	13	14¼	15¾	13½	15	16¼	14	16¼	17½	17½	-	-	T	
323.9	355.6	304.8	349.3	387.4	330.2	362.0	400.1	342.9	381.0	412.8	355.6	412.8	444.5	444.5	-	-	F	
14	15¼	13¾	15	16½	14¼	15½	17	14¾	16¼	17½	15¼	17½	18¾	18¾	20	-	-	T
355.6	387.4	336.6	381.0	419.1	362.0	393.7	431.8	374.7	412.8	444.5	387.4	444.5	476.3	476.3	508.0	-	-	F
13¾	15	13	14¾	16¼	14	15¾	16¾	14½	16	17¼	15	17¼	18½	18½	19¾	19½	-	T
349.3	381.0	330.2	374.7	412.8	355.6	387.4	425.5	368.3	406.4	438.2	381.0	438.2	469.9	469.9	501.7	495.3	-	F
15½	16¾	14¾	16½	18	15¾	17	18¼	16¼	17¾	19	16¾	14	20¼	20¼	21½	21¼	29	T
393.7	425.5	374.7	419.1	457.2	400.1	431.8	463.6	412.8	450.9	482.6	425.5	355.6	514.4	514.4	546.1	539.8	736.6	F



CHANNEL SELECTION FOR SCHEDULE 10 SPRINKLER PIPE TRAPEZE HANGERS

Note: Based on NFPA-13-1996 Section Modulus Table 3-10.1.7(a). Each of the following tables indicate the allowable span of the trapeze and the nominal pipe size for the specified channel. An entry of "N/A" indicates that the channel cannot be used for this span/pipe size combination. The table is based on a maximum allowable bending stress of 15 KSI and a midspan concentrated load from 15 ft of water-filled pipe, plus 250 lb.

Unistrut Channel	Section Modulus in ³ (cm ³)
P3000	0.154 2.52
P1000	0.202 3.31
P5500	0.391 6.41
P5000	0.628 10.29

Unistrut Channel	Section Modulus in ³ (cm ³)
P3001	0.431 7.06
P1001	0.572 9.37
P5501	1.153 18.89
P5001	1.916 31.40

Nominal Pipe Dia. (in)	O.D. (in)	Schedule 10 Pipe		Pipe Weight (p/f)	Water Weight (p/f)	Total Weight (p/f)
		Wall Thickness (in)	I. D. (in)			
1	1.315	0.109	1.097	1.41	0.42	1.83
1¼	1.660	0.109	1.442	1.81	0.73	2.54
1½	1.900	0.109	1.682	2.09	0.99	3.08
2	2.375	0.109	2.157	2.64	1.63	4.28
2½	2.875	0.120	2.635	3.53	2.44	5.97
3	3.500	0.120	3.260	4.34	3.73	8.07
3½	4.000	0.120	3.760	4.98	4.97	9.95
4	4.500	0.120	4.260	5.62	6.38	12.00
5	5.563	0.134	5.295	7.78	9.85	17.63
6	6.625	0.134	6.357	9.30	14.20	23.50
8	8.625	0.188	8.249	16.96	23.91	40.87
10	10.750	0.188	10.374	21.23	37.82	59.04

Trapeze Span	NFPA 13 Required Trapeze Section Modulus for Sch 10 Pipe											
	Pipe Diameter											
	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	0.08	0.09	0.09	0.09	0.10	0.11	0.12	0.13	0.15	0.18	0.24	0.32
2' - 0"	0.11	0.12	0.12	0.13	0.13	0.15	0.16	0.17	0.20	0.24	0.32	0.43
2' - 6"	0.14	0.14	0.15	0.16	0.17	0.18	0.20	0.21	0.25	0.30	0.40	0.54
3' - 0"	0.17	0.17	0.18	0.19	0.20	0.22	0.24	0.26	0.31	0.36	0.48	0.65
4' - 0"	0.22	0.23	0.24	0.25	0.27	0.29	0.32	0.34	0.41	0.48	0.64	0.87
5' - 0"	0.28	0.29	0.30	0.31	0.34	0.37	0.40	0.43	0.51	0.59	0.80	1.08
6' - 0"	0.33	0.35	0.36	0.38	0.41	0.44	0.48	0.51	0.61	0.71	0.97	1.30
7' - 0"	0.39	0.40	0.41	0.44	0.47	0.52	0.55	0.60	0.71	0.83	1.13	1.52
8' - 0"	0.44	0.46	0.47	0.50	0.54	0.59	0.63	0.68	0.81	0.95	1.29	1.73
9' - 0"	0.50	0.52	0.53	0.56	0.61	0.66	0.71	0.77	0.92	1.07	1.45	1.95
10' - 0"	0.56	0.58	0.59	0.63	0.68	0.74	0.79	0.85	1.02	1.19	1.61	2.17

Values taken from NFPA 13 (1996 Edition), Table 2-6.1.5(a)

Trapeze Span	Single Channel Trapeze for Sch 10 Pipe											
	Pipe Diameter											
	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	P3000	P3000	P3000	P3000	P3000	P3000	P3000	P3000	P3000	P1000	P5500	P5500
2' - 0"	P3000	P3000	P3000	P3000	P3000	P3000	P1000	P1000	P1000	P5500	P5500	P5000
2' - 6"	P3000	P3000	P3000	P1000	P1000	P1000	P1000	P5500	P5500	P5500	P5000	P5000
3' - 0"	P1000	P1000	P1000	P1000	P1000	P5500	P5500	P5500	P5500	P5500	P5000	N/A
4' - 0"	P5500	P5500	P5500	P5500	P5500	P5500	P5500	P5500	P5000	P5000	N/A	N/A
5' - 0"	P5500	P5500	P5500	P5500	P5500	P5500	P5000	P5000	P5000	P5000	N/A	N/A
6' - 0"	P5500	P5500	P5500	P5500	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A
7' - 0"	P5500	P5000	P5000	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A
8' - 0"	P5000	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A
9' - 0"	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10' - 0"	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Trapeze Span	Double Channel Trapeze for Sch 10 Pipe											
	Pipe Diameter											
	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001
2' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001
2' - 6"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001
3' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001	P5501
4' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001	P5501	P5501
5' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001	P5501	P5501	P5501
6' - 0"	P3001	P3001	P3001	P3001	P3001	P1001	P1001	P1001	P5501	P5501	P5501	P5001
7' - 0"	P3001	P3001	P3001	P1001	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5001
8' - 0"	P1001	P1001	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5001	N/A
9' - 0"	P1001	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5001	N/A
10' - 0"	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5501	P5501	P5001	P5001	N/A

CHANNEL SELECTION FOR SCHEDULE 40 SPRINKLER PIPE TRAPEZE HANGERS

Note: Based on NFPA-13-1996 Section Modulus Table 3-10.1.7(a). Each of the following tables indicate the allowable span of the trapeze and the nominal pipe size for the specified channel. An entry of "N/A" indicates that the channel cannot be used for this span/pipe size combination. The table is based on a maximum allowable bending stress of 15 KSI and a midspan concentrated load from 15 ft of water-filled pipe, plus 250 lb.

Unistrut Channel	Section Modulus in ³ (cm ³)
P3000	0.154 2.52
P1000	0.202 3.31
P5500	0.391 6.41
P5000	0.628 10.29

Unistrut Channel	Section Modulus in ³ (cm ³)
P3001	0.431 7.06
P1001	0.572 9.37
P5501	1.153 18.89
P5001	1.916 31.40

Nominal Pipe Dia. (in)	O.D. (in)	Schedule 40 Pipe		Pipe Weight (p/f)	Water Weight (p/f)	Total Weight (p/f)
		Wall Thickness (in)	I. D. (in)			
1	1.315	0.133	1.049	1.68	0.39	2.07
1¼	1.660	0.140	1.380	2.27	0.67	2.94
1½	1.900	0.145	1.610	2.72	0.91	3.63
2	2.375	0.154	2.067	3.66	1.50	5.16
2½	2.875	0.203	2.469	5.80	2.14	7.94
3	3.500	0.216	3.068	7.58	3.31	10.89
3½	4.000	0.226	3.548	9.12	4.42	13.54
4	4.500	0.237	4.026	10.80	5.70	16.50
5	5.563	0.258	5.047	14.63	8.95	23.58
6	6.625	0.280	6.065	18.99	12.93	31.92
8	8.625	0.322	7.981	28.58	22.38	50.96
10	10.750	0.365	10.020	40.52	35.28	75.80

Trapeze Span	NFPA 13 Required Trapeze Section Modulus for Sch 40 Pipe											
	Pipe Diameter											
	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.15	0.18	0.22	0.30	0.41
2' - 0"	0.11	0.12	0.12	0.13	0.15	0.16	0.18	0.20	0.24	0.29	0.40	0.55
2' - 6"	0.14	0.15	0.15	0.16	0.18	0.21	0.22	0.25	0.30	0.36	0.50	0.68
3' - 0"	0.17	0.18	0.18	0.20	0.22	0.25	0.27	0.30	0.36	0.43	0.60	0.82
4' - 0"	0.22	0.24	0.24	0.26	0.29	0.33	0.36	0.40	0.48	0.58	0.80	1.09
5' - 0"	0.28	0.29	0.30	0.33	0.37	0.41	0.45	0.49	0.60	0.72	1.00	1.37
6' - 0"	0.34	0.35	0.36	0.39	0.44	0.49	0.54	0.59	0.72	0.87	1.20	1.64
7' - 0"	0.39	0.41	0.43	0.46	0.51	0.58	0.63	0.69	0.84	1.01	1.41	1.92
8' - 0"	0.45	0.47	0.49	0.52	0.59	0.66	0.72	0.79	0.96	1.16	1.61	2.19
9' - 0"	0.50	0.53	0.55	0.59	0.66	0.74	0.81	0.89	1.08	1.30	1.81	2.46
10' - 0"	0.56	0.59	0.61	0.65	0.74	0.82	0.90	0.99	1.20	1.44	2.01	2.74

Values taken from NFPA 13 (1996 Edition), Table 2-6.1.5(a)

Trapeze Span	Single Channel Trapeze for Sch 40 Pipe											
	Pipe Diameter											
	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	P3000	P3000	P3000	P3000	P3000	P3000	P3000	P3000	P1000	P5500	P5500	P5000
2' - 0"	P3000	P3000	P3000	P3000	P3000	P1000	P1000	P1000	P5500	P5500	P5000	P5000
2' - 6"	P3000	P3000	P3000	P1000	P1000	P5500	P5500	P5500	P5500	P5500	P5000	N/A
3' - 0"	P1000	P1000	P1000	P1000	P5500	P5500	P5500	P5500	P5500	P5000	P5000	N/A
4' - 0"	P5500	P5500	P5500	P5500	P5500	P5500	P5500	P5000	P5000	P5000	N/A	N/A
5' - 0"	P5500	P5500	P5500	P5500	P5500	P5000	P5000	P5000	P5000	N/A	N/A	N/A
6' - 0"	P5500	P5500	P5500	P5500	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A
7' - 0"	P5500	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A
8' - 0"	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9' - 0"	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10' - 0"	P5000	P5000	P5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Trapeze Span	Double Channel Trapeze for Sch 40 Pipe											
	Pipe Diameter											
	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001
2' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001
2' - 6"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001	P5501
3' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P5501	P5501
4' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P3001	P1001	P5501	P5501	P5501
5' - 0"	P3001	P3001	P3001	P3001	P3001	P3001	P1001	P1001	P5501	P5501	P5501	P5001
6' - 0"	P3001	P3001	P3001	P3001	P1001	P1001	P1001	P5501	P5501	P5501	P5001	P5001
7' - 0"	P3001	P3001	P3001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5001	N/A
8' - 0"	P1001	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5001	P5001	N/A
9' - 0"	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5001	N/A	N/A
10' - 0"	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5501	P5001	P5001	N/A	N/A



ELECTRICAL METALLIC TUBING (EMT) - THIN WALL

Tubing Size (Nominal) In	Outside Diameter In (mm)	Inside Diameter In (mm)	Weight Of Tubing Lbs/Ft (kg/m)
3/8	0.577	0.497	0.23
	14.7	12.6	0.34
1/2	0.706	0.626	0.29
	17.9	15.9	0.43
3/4	0.922	0.830	0.44
	23.4	21.1	0.65
1	1.163	1.055	0.64
	29.5	26.8	0.95
1 1/4	1.510	1.388	0.95
	38.4	35.3	1.41
1 1/2	1.740	1.618	1.10
	44.2	41.1	1.64
2	2.197	2.075	1.40
	55.8	52.7	2.08
2 1/2	2.875	2.731	2.30
	73.0	69.4	3.42
3	3.500	3.356	2.70
	88.9	85.2	4.02
3 1/2	4.000	3.834	3.40
	101.6	97.4	5.06
4	4.500	4.334	4.00
	114.3	110.1	5.95

INTERMEDIATE METALLIC CONDUIT (IMC)

Conduit Size (Nominal) In	Outside Diameter In (mm)	Inside Diameter In (mm)	Weight Of Conduit Lbs/Ft (kg/m)	Weight of Conduit and Conductor Lbs/Ft (kg/m)
1/2	0.815	0.745	0.60	0.12
	20.7	18.9	0.89	0.18
3/4	1.029	0.954	0.82	1.13
	26.1	24.2	1.22	1.68
1	1.290	1.205	1.16	1.82
	32.8	30.6	1.73	2.71
1 1/4	1.638	1.553	1.50	2.67
	41.6	39.4	2.23	3.97
1 1/2	1.883	1.793	1.82	3.42
	47.8	45.5	2.71	5.09
2	2.360	2.266	2.42	5.04
	59.9	57.6	3.60	7.50
2 1/2	2.857	2.727	4.01	7.75
	72.6	69.3	5.97	11.53
3	3.476	3.346	4.43	10.69
	88.3	85.0	6.59	15.91
3 1/2	3.971	3.841	5.73	13.46
	100.9	97.6	8.53	20.03
4	4.466	4.336	6.38	16.37
	113.4	110.1	9.49	24.36

COPPER TUBE (TYPE L)

Nom. Tube Size	O.D. Tubing In (mm)	O.D. In (mm)	Wall Thick. In (mm)	Weight Lbs/Ft (kg/m)	Weight Water Lbs/Ft (kg/m)
1/4"	3/8	0.375	0.030	0.126	0.034
	9.5	9.5	0.8	0.19	0.05
3/8"	1/2	0.500	0.035	0.198	0.062
	12.7	12.7	0.9	0.29	0.09
1/2"	5/8	0.625	0.040	0.285	0.100
	15.9	15.9	1.0	0.42	0.15
5/8"	3/4	0.750	0.042	0.362	0.151
	19.1	19.1	1.1	0.54	0.22
3/4"	7/8	0.875	0.045	0.455	0.209
	22.2	22.2	1.1	0.68	0.31
1"	1"	1.125	0.050	0.655	0.357
	28.6	28.6	1.3	0.97	0.53
1 1/4"	1 1/8	1.375	0.055	0.884	0.546
	34.9	34.9	1.4	1.32	0.81
1 1/2"	1 1/4	1.625	0.060	1.140	0.767
	41.3	41.3	1.5	1.70	1.14
2"	2"	2.125	0.070	1.750	1.341
	54.0	54.0	1.8	2.60	2.00
2 1/2"	2 1/8	2.625	0.080	2.480	2.064
	66.7	66.7	2.0	3.69	3.07
3"	3"	3.125	0.090	3.330	2.949
	79.4	79.4	2.3	4.96	4.39
3 1/2"	3 1/8	3.625	0.100	4.290	3.989
	92.1	92.1	2.5	6.38	5.94
4"	4"	4.125	0.110	5.380	5.188
	104.8	104.8	2.8	8.01	7.72
5"	5"	5.125	0.125	7.610	8.081
	130.2	130.2	3.2	11.32	12.03
6"	6"	6.125	0.140	10.200	11.616
	155.6	155.6	3.6	15.18	17.29
8"	8"	8.125	0.200	19.290	20.289
	206.4	206.4	5.1	28.71	30.19
10"	10"	10.125	0.250	30.100	31.590
	257.2	257.2	6.4	44.79	47.01
12"	12"	12.125	0.280	40.400	45.426
	308.0	308.0	7.1	60.12	67.60

COPPER TUBE (TYPE K)

Nom. Tube Size	O.D. Tubing In (mm)	O.D. In (mm)	Wall Thick. In (mm)	Weight Lbs/Ft (kg/m)	Weight Water Lbs/Ft (kg/m)
1/4"	3/8	0.375	0.035	0.145	0.032
	9.5	9.5	0.89	0.22	0.05
3/8"	1/2	0.500	0.005	0.269	0.055
	12.7	12.70	0.13	0.40	0.08
1/2"	5/8	0.625	0.049	0.344	0.094
	15.9	15.88	1.24	0.51	0.14
5/8"	3/4	0.750	0.049	0.418	0.144
	19.1	19.05	1.24	0.62	0.21
3/4"	7/8	0.875	0.065	0.641	0.188
	22.2	22.23	1.65	0.95	0.28
1"	1"	1.125	0.065	0.839	0.337
	28.6	28.58	1.65	1.25	0.50
1 1/4"	1 1/8	1.375	0.065	1.040	0.527
	34.9	34.93	1.65	1.55	0.78
1 1/2"	1 1/4	1.625	0.072	1.360	0.743
	41.3	41.28	1.83	2.02	1.11
2"	2"	2.125	0.083	2.060	1.310
	54.0	53.98	2.11	3.07	1.95
2 1/2"	2 1/8	2.625	0.095	2.920	2.000
	66.7	66.68	2.41	4.35	2.98
3"	3"	3.125	0.109	4.000	2.960
	79.4	79.38	2.77	5.95	4.40
3 1/2"	3 1/8	3.625	0.120	5.120	3.900
	92.1	92.08	3.05	7.62	5.80
4"	4"	4.125	0.134	6.510	5.060
	104.8	104.78	3.40	9.69	7.53
5"	5"	5.125	0.160	9.670	8.000
	130.2	130.18	4.06	14.39	11.91
6"	6"	6.125	0.192	13.870	11.200
	155.6	155.58	4.88	20.64	16.67
8"	8"	8.125	0.271	25.900	19.500
	206.4	206.38	6.88	38.54	29.02
10"	10"	10.125	0.338	40.300	30.423
	257.2	257.18	8.59	59.97	45.27
12"	12"	12.125	0.405	57.800	43.675
	308.0	307.98	10.29	86.02	65.00

RIGID STEEL (HEAVY DUTY) CONDUIT

Conduit Size (Nominal) In	I. D. Of Conduit In (mm)	O. D. Of Conduit In (mm)	O. D. Of Coupling In (mm)	Weight of Conduit Lbs/Ft (kg/m)	Maximum Weight* Of Conduit And Conductor		Not Lead Covered Lbs/Ft (kg/m)
					Lead Covered Lbs/Ft (kg/m)	Lead Covered Lbs/Ft (kg/m)	
½	0.622	0.840	1.063	0.85	1.20	1.00	1.00
	15.8	21.3	27.0	1.26	1.79	1.49	1.49
¾	0.824	1.050	1.297	1.13	1.80	1.40	1.40
	20.9	26.7	32.9	1.68	2.68	2.08	2.08
1	1.049	1.315	1.563	1.68	2.60	2.30	2.30
	26.6	33.4	39.7	2.50	3.87	3.42	3.42
1¼	1.380	1.660	1.969	2.28	4.30	3.60	3.60
	35.1	42.2	50.0	3.39	6.40	5.36	5.36
1½	1.610	1.900	2.234	2.73	5.90	4.50	4.50
	40.9	48.3	56.7	4.06	8.78	6.70	6.70
2	2.067	2.375	2.719	3.68	8.50	7.20	7.20
	52.5	60.3	69.1	5.48	12.65	10.71	10.71
2½	2.469	2.875	3.313	5.82	11.50	10.20	10.20
	62.7	73.0	84.2	8.66	17.11	15.18	15.18
3	3.068	3.500	3.938	7.62	16.50	14.50	14.50
	77.9	88.9	100.0	11.34	24.55	21.58	21.58
3½	3.548	4.000	4.438	9.20	19.00	17.50	17.50
	90.1	101.6	112.7	13.69	28.28	26.04	26.04
4	4.026	4.500	4.938	10.89	24.80	21.50	21.50
	102.3	114.3	125.4	16.21	36.91	32.00	32.00
5	5.047	5.563	6.296	14.81	35.90	30.80	30.80
	128.2	141.3	159.9	22.04	53.43	45.84	45.84
6	6.065	6.625	7.358	19.19	50.70	43.40	43.40
	154.1	168.3	186.9	28.56	75.45	64.59	64.59

* Maximum weight equals weight of rigid conduit plus weight of heaviest conductor combination (from the National Electrical Code Handbook.)

WATER FILLED PIPE SUPPORT SPACING

Nominal Pipe Size In	Max. Span Ft (m)	Nominal Pipe Size In	Max. Span Ft (m)
1	7 2.13	8	19 5.79
1½	9 2.74	10	22 6.71
2	10 3.05	12	23 7.01
2½	11 3.35	14	25 7.62
3	12 3.66	16	27 8.23
3½	13 3.96	18	28 8.53
4	14 4.27	20	30 9.14
5	16 4.88	24	32 9.75

The above spacing based on a combined bending and shear stress of 1500 PSI when pipe is filled with water and the pitch of the line is such that a sag of 0.1 in. between supports is permissible.

CONDUIT SUPPORT SPACING

346-12. Supports. Rigid metal conduit shall be installed as a complete system as provided in Article 344 and shall be securely fastened in place. Conduit shall be firmly fastened within 3 feet (914.4 mm) of each outlet box, junction box, cabinet, or fitting. Conduit shall be supported at least every 10 feet (3.05 m).

Exception: If made up with threaded couplings, it shall be permissible to support straight runs of rigid metal conduit in accordance with Table 344.30 (B)(2), provided such supports prevent transmission of stresses to termination where conduit is deflected between supports.

Table 344.30 (B)(2)
Support for Rigid Metal Conduit

Conduit Size In (mm)	Maximum Distance Between Supports Ft (m)
½-¾	10
12.7 - 19.1	3.05
1	12
25.4	3.66
1¼- 1½	14
31.8 - 38.1	4.27
2- 2½	16
50.8 - 63.5	4.88
3 & larger	20
76.2 - Larger	6.10

SCHEDULE 40: PVC PLASTIC PIPE

Pipe Size (Nominal) In	Outside Diameter In (mm)	Inside Diameter In (mm)	Pipe Weight Lbs/Ft (kg/m)	Pipe and Water Weight Lbs/Ft (kg/m)
¼	0.540	0.354	0.081	0.12
	13.7	9.0	0.12	0.18
⅜	0.675	0.483	0.109	0.19
	17.1	12.3	0.16	0.28
½	0.840	0.608	0.161	0.29
	21.3	15.4	0.24	0.43
¾	1.050	0.810	0.214	0.44
	26.7	20.6	0.32	0.65
1	1.315	1.033	0.315	0.68
	33.4	26.2	0.47	1.01
1¼	1.660	1.364	0.426	1.06
	42.2	34.6	0.63	1.58
1½	1.900	1.592	0.509	1.37
	48.3	40.4	0.76	2.04
2	2.375	2.049	0.682	2.11
	60.3	52.0	1.01	3.14
2½	2.875	2.445	1.076	3.11
	73.0	62.1	1.60	4.63
3	3.500	3.042	1.409	4.55
	88.9	77.3	2.10	6.77
4	4.500	3.998	2.006	7.44
	114.3	101.5	2.99	11.07
6	6.625	6.031	3.535	15.90
	168.3	153.2	5.26	23.66
8	8.625	7.943	5.305	26.75
	219.1	201.8	7.89	39.81
10	10.750	9.976	7.532	41.35
	273.1	253.4	11.21	61.54



DATA FOR SCHEDULE STEEL PIPE

Nom. Size In	Pipe Schedule	Outside Dia. In(mm)	Inside Dia. In(mm)	Pipe Weight Lbs/Ft (kg/m)	Pipe and Water Weight Lbs/Ft (kg/m)
1/8	40	0.405 10.3	0.269 6.8	0.24 0.36	0.27 0.40
	80	0.405 10.3	0.215 5.5	0.31 0.46	0.33 0.49
1/4	40	0.540 13.7	0.364 9.2	0.42 0.63	0.47 0.70
	80	0.540 13.7	0.302 7.7	0.53 0.79	0.57 0.85
3/8	40	0.675 17.1	0.493 12.5	0.57 0.85	0.65 0.97
	80	0.675 17.1	0.423 10.7	0.74 1.10	0.80 1.19
1/2	40	0.840 21.3	0.622 15.8	0.85 1.26	0.98 1.46
	80	0.840 21.3	0.546 13.9	1.09 1.62	1.19 1.77
	160	0.840 21.3	0.464 11.8	1.31 1.95	1.38 2.05
3/4	40	1.050 26.7	0.824 20.9	1.13 1.68	1.36 2.02
	80	1.050 26.7	0.742 18.8	1.47 2.19	1.66 2.47
	160	1.050 26.7	0.612 15.5	1.94 2.89	2.07 3.08
1	40	1.315 33.4	1.049 26.6	1.68 2.50	2.05 3.05
	80	1.315 33.4	0.957 24.3	2.17 3.23	2.48 3.69
	160	1.315 33.4	0.815 20.7	2.84 4.23	3.07 4.57
1 1/4	40	1.660 42.2	1.380 35.1	2.27 3.38	2.92 4.35
	80	1.660 42.2	1.278 32.5	2.99 4.45	3.55 5.28
	160	1.660 42.2	1.160 29.5	3.76 5.60	4.22 6.28
1 1/2	40	1.900 48.3	1.610 40.9	2.71 4.03	3.60 5.36
	80	1.900 48.3	1.500 38.1	3.63 5.40	4.39 6.53
	160	1.900 48.3	1.338 34.0	4.85 7.22	5.46 8.13
2	40	2.375 60.3	2.067 52.5	3.65 5.43	5.10 7.59
	80	2.375 60.3	1.939 49.3	5.02 7.47	6.30 9.38
	160	2.375 60.3	1.687 42.8	7.45 11.09	8.42 12.53
2 1/2	40	2.875 73.0	2.469 62.7	5.79 8.62	7.86 11.70
	80	2.875 73.0	2.323 59.0	7.65 11.38	9.49 14.12
	160	2.875 73.0	2.125 54.0	10.00 14.88	11.54 17.17
3	40	3.500 88.9	3.068 77.9	7.57 11.27	10.77 16.03
	80	3.500 88.9	2.900 73.7	10.24 15.24	13.11 19.51
	160	3.500 88.9	2.624 66.6	14.31 21.30	16.65 24.78
3 1/2	40	4.000 101.6	3.548 90.1	9.10 13.54	13.39 19.93
	80	4.000 101.6	3.364 85.4	12.49 18.59	16.35 24.33

Nom. Size In	Pipe Schedule	Outside Dia. In(mm)	Inside Dia. In(mm)	Pipe Weight Lbs/Ft (kg/m)	Pipe and Water Weight Lbs/Ft (kg/m)
4	40	4.500 114.3	4.026 102.3	10.78 16.04	16.30 24.26
	80	4.500 114.3	3.826 97.2	14.97 22.28	19.95 29.69
	120	4.500 114.3	3.624 92.0	18.98 28.25	23.45 34.90
5	160	4.500 114.3	3.438 87.3	22.48 33.45	26.51 39.45
	40	5.563 141.3	5.047 128.2	14.60 21.73	23.27 34.63
	80	5.563 141.3	4.813 122.2	20.75 30.88	28.64 42.62
6	120	5.563 141.3	4.563 115.9	27.01 40.20	34.09 50.73
	160	5.563 141.3	4.313 109.5	32.92 48.99	39.26 58.43
	40	6.625 168.3	6.065 154.1	18.95 28.20	31.48 46.85
7	80	6.625 168.3	5.761 146.3	28.54 42.47	39.84 59.29
	120	6.625 168.3	5.501 139.7	36.35 54.09	46.66 69.44
	160	6.625 168.3	5.187 131.7	45.30 67.41	54.47 81.06
8	20	8.625 219.1	8.125 206.4	22.34 33.25	44.82 66.70
	30	8.625 219.1	8.071 205.0	24.67 36.71	46.85 69.72
	40	8.625 219.1	7.981 202.7	28.52 42.44	50.21 74.72
9	60	8.625 219.1	7.813 198.5	35.60 52.98	56.39 83.92
	80	8.625 219.1	7.625 193.7	43.34 64.50	63.14 93.96
	100	8.625 219.1	7.437 188.9	50.89 75.73	69.73 103.77
10	120	8.625 219.1	7.187 182.5	60.65 90.26	78.23 116.42
	140	8.625 219.1	7.001 177.8	67.68 100.72	84.37 125.56
	160	8.625 219.1	6.813 173.1	74.61 111.03	90.42 134.56
11	20	10.750 273.1	10.250 260.4	28.01 41.68	63.78 94.92
	30	10.750 273.1	10.136 257.5	34.20 50.90	69.19 102.97
	40	10.750 273.1	10.020 254.5	40.44 60.18	74.63 111.06
12	60	10.750 273.1	9.750 247.7	54.68 81.37	87.05 129.54
	80	10.750 273.1	9.562 242.9	64.36 95.78	95.50 142.12
	100	10.750 273.1	9.312 236.5	76.95 114.51	106.47 158.44
13	120	10.750 273.1	9.062 230.2	89.20 132.74	117.16 174.35
	140	10.750 273.1	8.750 222.3	104.02 154.80	130.09 193.60
	160	10.750 273.1	8.500 215.9	115.52 171.91	140.13 208.54