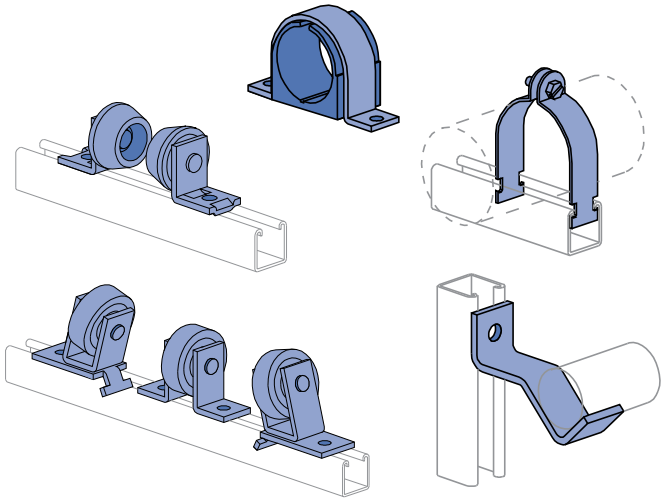
PIPE/CONDUIT SUPPORTS



MATERIAL

Unistrut pipe clamps, unless noted, are punch-press made from hot-rolled, pickled and oiled steel plates, strip, bar or coil, and conform to one or more of the following specifications: ASTM A1008, A575, A576, A635, A1011 SS GR 33, A1011 HSLAS GR 45, A1046 or A36. The fitting steel also meets the or exceeds the physical properties of ASTM A1011 GR 33. The pickling of the steel produces a smooth surface free from scale.

Many items are also available in stainless steel, aluminum and fiberglass.

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)
- Green Powder Coat (GR), conforming to commercial standards for Powder Coating, and plain (PL)
- Unistrut Defender (DF), conforming to ASTM A1059 or A1046

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	¼"-20	5/16"-18	⅜"-16	½"-13	⅝"-11	¾"-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 ¼" screws used with a two piece pipe clamp, a torque of 5 foot pounds (60 inch-pounds) should be used.

DESIGN LOAD

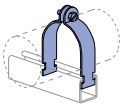
Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 5.0, unless otherwise noted.

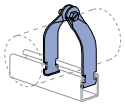
When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping.

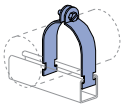
Pipe Clamps In Special Materials (P1109, P1211, P1425, P2024 Series)

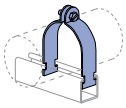
Material/Finish	Part Number Suffix	Pipe Clamp Material / Finish	Fasteners (Screw & Nut) Material / Finish	Example
Electro-galvanized	EG	EG	EG	P1109 EG
Hot-dipped galvanized	HG	HG	SS	P1109 HG
Unistrut Defender	DF	DF	DF	P1109 DF
Stainless Steel Type 304	SS	SS	SS	P1109 SS
Stainless Steel Type 316	ST	ST	SS	P1109 ST
Aluminum	AL	AL	AL	P1109 AL
Copper Coated	CC	CC	CC	P1109 CC
Everdur	E EG	EG	E	P1109E EG

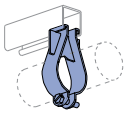
Pipe & Conduit Clamps

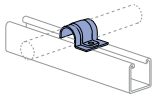

P1109 - Pg 108

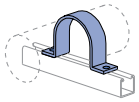

P1211 - Pg 109

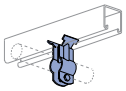

P1425 - Pg 109

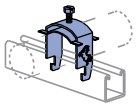

P2024 - Pg 110

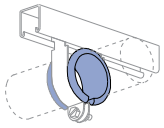

P1563 - Pg 109

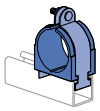

P2008 - Pg 109


P2558 - Pg 110

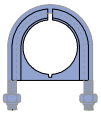

P3409 - Pg 111

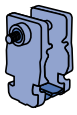

MU025 - Pg 111

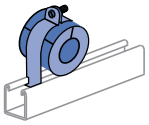

P2600 - Pg 112


004T008 - Pg 113

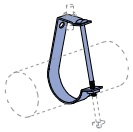

004M007 - Pg 114

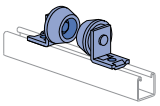

UB½PA - Pg 115

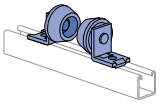

CG-10 - Pg 116

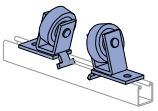

PUX3834 - Pg 116

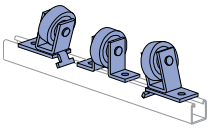
Pipe Rollers


J1205 - Pg 117

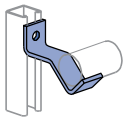

P2474 - Pg 117

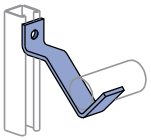

P2474-1 - Pg 118

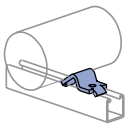

P2475 - Pg 118


P2476 - Pg 119

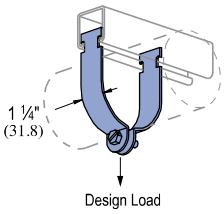
Pipe Brackets

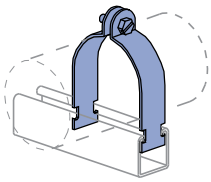

P2481 - Pg 119


P2482 - Pg 119


P2243 - Pg 119

P1109 thru P1126 — Pipe Clamps for Rigid Steel Conduit — EG HG





Part No.	Conduit Size In	O.D. Size In *(mm)*	Thickness Gauge *(mm)*	Wt/100 pcs Lbs *(kg)*	Design Load Lbs *(kN)*
P1109	⅜	0.675 *17.1*	16 *1.5*	10 *4.5*	400 *1.78*
P1111	½	0.840 *21.3*	16 *1.5*	11 *5.0*	400 *1.78*
P1112	¾	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	1¼	1.660 *42.2*	14 *1.9*	19 *8.6*	600 *2.67*
P1115	1½	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*

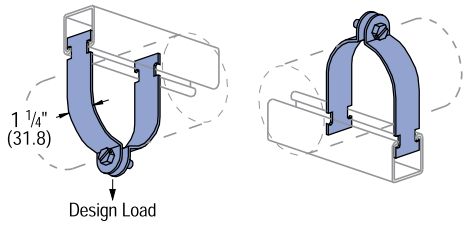
Part No.	Conduit Size In	O.D. Size In *(mm)*	Thickness Gauge *(mm)*	Wt/100 pcs Lbs *(kg)*	Design Load Lbs *(kN)*
P1118	2½	2.875 *73.0*	12 *2.7*	40 *18.1*	800 *3.56*
P1119	3	3.500 *88.9*	12 *2.7*	47 *21.3*	800 *3.56*
P1120	3½	4.000 *101.6*	11 *3.0*	62 *28.1*	1,000 *4.45*
P1121	4	4.500 *114.3*	11 *3.0*	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

Atkore Unistrut

P1425 thru P1431
Pipe Clamps for Thin Wall Conduit (E.M.T.)

DF EG HG

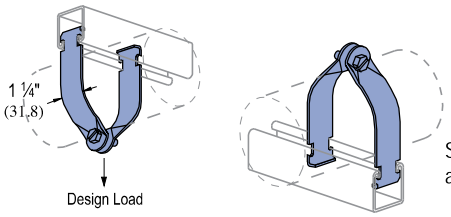


Slotted hex head screw and nut included

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

P1211 thru P1217
Universal Clamps for Rigid or Thinwall Conduit

DF EG HG

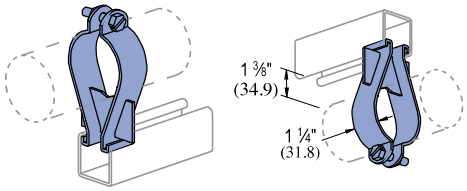


Slotted hex head screw and nut included

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
P1118	2 1/2 63.5	12 2.7	40 18.1	800 3.56
P1119	3 76.2	12 2.7	47 21.3	800 3.56
P1120	3 1/2 88.9	11 3.0	62 28.1	1,000 4.45
P1121	4 101.6	11 3.0	67 30.4	1,000 4.45

P1563 thru P1573
Parallel Clamps for Rigid Conduit and Pipe

EG



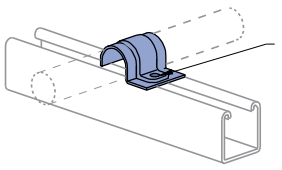
Slotted hex head screw and nut included.

Finish: Electro-galvanized.

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

P2008 thru P2020 One Hole Clamp for O.D. Tubing

EG HG



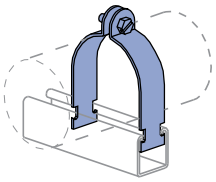
1/4" X 3/4" Round Head Machine Screw and Channel Nut Not Included

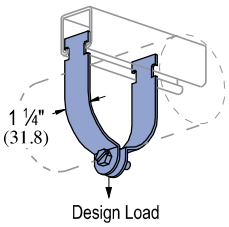
Part No.	O.D. Tube Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)
P2008	1/4 6.4	16 1.5	4 1.8
P2009	5/16 7.9	16 1.5	5 2.3
P2010	3/8 9.5	16 1.5	5 2.3
P2012	1/2 12.7	16 1.5	6 2.7
P2014	5/8 15.9	14 1.9	8 3.6
P2016	3/4 19.1	14 1.9	9 4.1
P2018	7/8 22.2	14 1.9	10 4.5
P2020	1 25.4	14 1.9	11 5.0

P2024 THRU P2070-84

PIPE CLAMPS FOR O.D. TUBING

EG HG





Slotted hex head screw and nut included

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

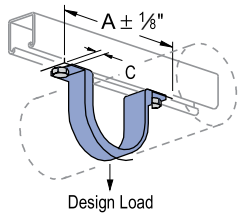
Part Number	O.D. Size In *(mm)*	Wt/100 pcs Lbs *(kg)*	Design Load Lbs *(kN)*
P2024	¼ *(6.4)*	8 *(3.6)*	400 *(1.78)*
P2025	⅜ *(9.5)*	8 *(3.6)*	
P2026	½ *(12.7)*	9 *(4.1)*	
P2027	⅝ *(15.9)*	10 *(4.5)*	
P2028	¾ *(19.1)*	11 *(5.0)*	
P2029	⅞ *(22.2)*	12 *(5.4)*	
P2030	1 *(25.4)*	14 *(6.4)*	600 *(2.67)*
P2031	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	2⅜ *(60.3)*	34 *(15.4)*	
P2042	2½ *(63.5)*	35 *(15.9)*	
P2043	2⅝ *(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	3⅜ *(85.7)*	46 *(20.9)*	
P1119	3½ *(88.9)*	47 *(21.3)*	
P2051	3⅝ *(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	4⅜ *(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	5⅜ *(136.5)*	78 *(35.4)*	
P2066	5½ *(140.0)*	79 *(35.8)*	
P2067	5⅝ *(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	6⅛ *(155.6)*	96 *(43.5)*	
P2070-62	6¼ *(158.8)*	98 *(44.5)*	
P2070-63	6⅜ *(161.9)*	99 *(44.9)*	
P2070-64	6½ *(165.1)*	100 *(45.4)*	
P1124	6⅝ *(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	7⅜ *(187.3)*	114 *(51.7)*	
P2070-74	7½ *(190.5)*	116 *(52.6)*	
P2070-75	7⅝ *(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	8⅛ *(206.4)*	125 *(56.7)*	
P2070-82	8¼ *(209.6)*	126 *(57.2)*	
P2070-83	8⅜ *(212.7)*	128 *(58.1)*	
P2070-84	8½ *(215.9)*	129 *(58.5)*	
P1126	8⅝ *(219.1)*	130 *(59.0)*	

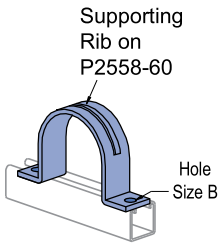
P2558-5 THRU P2558-60

SINGLE PIECE PIPE STRAP

EG GR HG

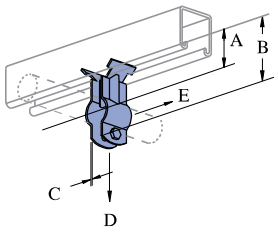


Hardware sold separately.



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*	9/32 *7.1*	7/16 *11.1*	⅛ *3.2*	23 *10.4*	500 *2.22*
P2558-07	¾	3⅛ *79.4*				26 *11.8*	
P2558-10	1	3⅜ *85.7*				31 *14.1*	
P2558-12	1¼	3¾ *95.3*				35 *15.9*	
P2558-15	1½	3⅞ *98.4*				39 *17.7*	
P2558-20	2	5¾ *146.1*	7/16 *11.1*	11/16 *17.5*	¼ *6.4*	94 *42.6*	1,000 *4.45*
P2558-25	2½	6¼ *158.8*				114 *51.7*	
P2558-30	3	6⅞ *174.6*				133 *60.3*	
P2558-35	3½	7⅜ *187.3*				152 *68.9*	
P2558-40	4	7⅞ *200.0*				176 *79.8*	
P2558-50	5	9 *228.6*				198 *89.8*	
P2558-60	6	10 *254.0*				225 *102.1*	

P3409 THRU P3417 — STAND-OFF PIPE CLAMPS EG HG

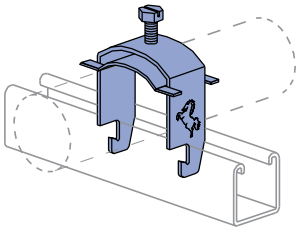


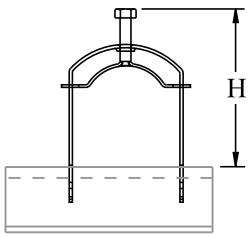
Hardware included.
Finish: Electro-galvanized.
Pipe Clamp 1¼" Wide

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	⅜ 9.5	0.675 17.1	100 0.44	25 0.11	1⅛ 28.6	2⅛ 54.0	14 1.9	14 6.4
P3411	½ 12.7	0.840 21.3	150 0.67	35 0.16	1¼ 31.8	2 5/16 58.7	14 1.9	15 6.8
P3412	¾ 19.1	1.050 26.7	175 0.78	40 0.18	1 5/16 33.3	2½ 63.5	14 1.9	19 8.6
P3413	1 25.4	1.315 33.4	200 0.89	50 0.22	1½ 38.1	2¾ 69.9	14 1.9	22 10.0
P3414	1¼ 31.8	1.660 42.2	300 1.33	70 0.31	1 11/16 42.9	3¼ 82.6	12 2.7	34 15.4
P3415	1½ 38.1	1.900 48.3	400 1.78	80 0.36	1¾ 44.5	3½ 88.9	11 3.0	49 22.2
P3417	2 50.8	2.375 60.3	500 2.22	120 0.53	2 50.8	4 101.6	10 3.4	55 24.9

Safety factor of 5

MU025 THRU MU400 — MUSTANG UNIVERSAL ONE-PIECE PIPE, CONDUIT (GRC, EMT & IMC) AND TUBING CLAMPS EG

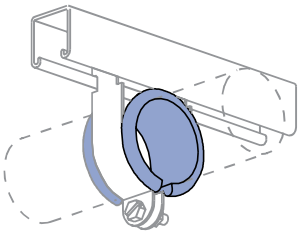


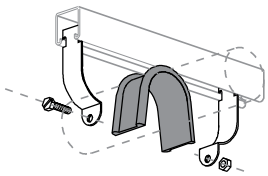


Finish: Electro-galvanized.
Clamps are 14 ga.

Part No.	Nominal Trade Size In (mm)	Trade Size O.D. Min In (mm)	Trade Size O.D. Max In (mm)	Height Above Channel "H" Min In (mm)	Height Above Channel "H" Max. In (mm)
MU025	¼ 6.4	0.375 9.5	0.5 13.7	1¾ 44.5	2 50.8
MU037	⅜ 9.5	0.5 12.7	0.7 17.1	1⅞ 47.6	2⅛ 54.0
MU050	½ 12.7	0.63 15.9	0.84 21.3	2 50.8	2¼ 57.2
MU075	¾ 19.1	0.88 22.2	1.05 26.7	2¼ 57.2	2½ 63.5
MU100	1 25.4	1.13 28.6	1.32 33.4	2⅜ 60.3	2¾ 69.9
MU125	1¼ 31.8	1.38 34.9	1.66 42.2	2¾ 69.9	3⅛ 79.4
MU150	1½ 38.1	1.63 41.3	1.90 48.3	3 76.2	3⅜ 85.7
MU200	2 50.8	2.13 54.0	2.38 60.3	3⅜ 85.7	3⅞ 98.4
MU250	2½ 63.5	2.63 66.7	2.88 73.0	4¼ 108.0	4⅝ 117.5
MU300	3 76.2	3.13 79.4	3.50 88.9	4⅞ 123.8	5⅜ 136.5
MU350	3½ 88.9	3.63 92.1	4.00 101.6	5¼ 133.4	5⅞ 149.2
MU400	4 101.6	4.13 104.8	4.50 114.3	5¾ 146.1	6⅜ 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)*
⅜"	P1426	1¾ *(44.5)*
½"	P1111	2⅛ *(54.0)*
¾"	P1112	2¾ *(69.9)*
1"	P2032	3⅝ *(92.1)*
1¼"	P2035	4¾ *(120.7)*
1½"	P2037	5½ *(139.7)*
2"	P1117	6¾ *(171.5)*

STANDARD PIPE OR RIGID CONDUIT

Nominal Size	Use with Clamp	UNICUSHION Length In *(mm)*
⅜"	P1111	2⅛ *(54.0)*
½"	P2030	3 *(76.2)*
¾"	P2031	3¼ *(82.6)*
1"	P2034	4¼ *(108.0)*
1¼"	P2037	5¼ *(133.4)*
1½"	P2038	6 *(152.4)*
2"	P2042	7½ *(190.5)*
2½"	P2046	9 *(228.6)*
3"	P2051	11 *(279.4)*
3½"	P2055	12¼ *(311.2)*
4"	P2059	14 *(355.6)*
5"	P2067	17½ *(444.5)*
6"	P2070-66	20¾ *(527.1)*

COPPER TUBING TYPE K OR L

Nominal Size	Use with Clamp	UNICUSHION Length In *(mm)*
¼"	P2026	1 1/16 *(27.0)*
⅜"	P2027	1½ *(38.1)*
½"	P2028	2⅛ *(54.0)*
⅝"	P2029	2¼ *(57.2)*
¾"	P2030	3 *(76.2)*
1"	P2032	3⅝ *(92.1)*
1¼"	P2034	4½ *(114.3)*
1½"	P1430	5¼ *(133.4)*
2"	P2040	6¾ *(171.5)*
2½"	P2044	8¼ *(209.6)*
3"	P2048	10 *(254.0)*
3½"	P2052	11¼ *(285.8)*
4"	P2056	12½ *(317.5)*
5"	P2064	16 *(406.4)*
6"	P2070-62	19 *(482.6)*
8"	P2070-82	25 *(635.0)*

UNICUSHION® Clamp Cutting Guide

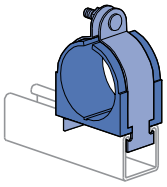
O. D. Size In *(mm)*	Use With Clamp	UNICUSHION Length In *(mm)*
¼ *(6.4)*	P2025	⅞ *(22.2)*
⅜ *(9.5)*	P2026	1 1/16 *(27.0)*
½ *(12.7)*	P2027	1½ *(38.1)*
⅝ *(15.9)*	P2028	2⅛ *(54.0)*
¾ *(19.1)*	P2029	2¼ *(57.2)*
⅞ *(22.2)*	P2030	3 *(76.2)*
1 *(25.4)*	P2031	3¼ *(82.6)*
1⅛ *(28.6)*	P2032	3⅝ *(92.1)*
1¼ *(31.8)*	P2033	4 *(101.6)*
1⅜ *(34.9)*	P2034	4½ *(114.3)*
1½ *(38.1))*	P2035	4⅞ *(123.8)*
1⅝ *(41.3)*	P1430	5¼ *(133.4)*
1¾ *(44.5)*	P2037	5½ *(139.7)*
1⅞ *(47.6)*	P2038	6 *(152.4)*
2 *(50.8)*	P2039	6½ *(165.1)*
2⅛ *(54.0)*	P2040	6¾ *(171.5)*
2¼ *(57.2)*	P1117	7¼ *(184.2)*
2⅜ *(60.3)*	P2042	7½ *(190.5)*
2½ *(63.5)*	P2043	8 *(203.2)*
2⅝ *(66.7)*	P2044	8¼ *(209.6)*
2¾ *(69.9)*	P1118	8¾ *(222.3)*
2⅞ *(73.0)*	P2046	9¼ *(235.0)*
3 *(76.2)*	P2047	9½ .3*(241.3)*

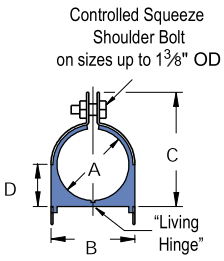
O. D. Size In *(mm)*	Use With Clamp	UNICUSHION Length In *(mm)*
3⅛ *(79.4)*	P2048	10 *(254.0)*
3¼ *(82.6)*	P2049	10½ *(266.7)*
3⅜ *(85.7)*	P1119	10¾ *(273.1)*
3½ *(88.9)*	P2051	11 *(279.4)*
3⅝ *(92.1)*	P2052	11¼ *(285.8)*
3¾ *(95.3)*	P2053	11½ *(292.1)*
3⅞ *(98.4)*	P1120	11¾ *(298.5)*
4 *(101.6)*	P2055	12 *(304.8)*
4⅛ *(104.8)*	P2056	12½ *(317.5)*
4¼ *(108.0)*	P2057	13 *(330.2)*
4⅜ *(111.1)*	P1121	13½ *(342.9)*
4½ *(114.3)*	P2059	14 *(355.6)*
4⅝ *(117.5)*	P2060	14¼ *(362.0)*
4¾ *(120.7)*	P2061	14¾ *(374.7)*
4⅞ *(123.8)*	P2062	15 *(381.0)*
5 *(127.0)*	P2063	15½ *(393.7)*
5⅛ *(130.2)*	P2064	16 *(406.4)*
5¼ *(133.4)*	P2065	16¼ *(412.8)*
5⅜ *(136.5)*	P2066	16½ *(419.1)*
5½ *(139.7)*	P2067	17 *(431.8)*
5⅝ *(142.9)*	P2068	17½ *(444.5)*
5¾ *(146.1)*	P2069	17¾ *(450.9)*
5⅞ *(149.2)*	P2070	18¼ *(463.6)*

O. D. Size In *(mm)*	Use With Clamp	UNICUSHION Length In *(mm)*
6 *(152.4)*	P2070-61	18½ *(469.9)*
6⅛ *(155.6)*	P2070-62	19 *(482.6)*
6¼ *(158.8)*	P2070-63	19¼ *(489.0)*
6⅜ *(161.9)*	P2070-64	19¾ *(501.7)*
6½ *(165.1)*	P1124	20 *(508.0)*
6⅝ *(168.3)*	P2070-66	20½ *(520.7)*
6¾ *(171.5)*	P2070-67	21 *(533.4)*
6⅞ *(174.6)*	P2070-70	21¼ *(539.8)*
7 *(177.8)*	P2070-71	21¾ *(552.5)*
7⅛ *(181.0)*	P2070-72	22 *(558.8)*
7¼ *(184.2)*	P2070-73	22½ *(571.5)*
7⅜ *(187.3)*	P2070-74	22¾ *(577.9)*
7½ *(190.5)*	P2070-75	23¼ *(590.6)*
7⅝ *(193.7)*	P2070-76	23½ *(596.9)*
7¾ *(196.9)*	P2070-77	24 *(609.6)*
7⅞ *(200.0)*	P2070-80	24½ *(622.3)*
8 *(203.2)*	P2070-81	24¾ *(628.7)*
8⅛ *(206.4)*	P2070-82	25 *(635.0)*
8¼ *(209.6)*	P2070-83	25½ *(647.7)*
8⅜ *(212.7)*	P2070-84	26 *(660.4)*
8½ *(215.9)*	P1126	26¼ *(666.8)*

004T008 THRU 098N106, 009N012 THRU 106N114

CUSH-A-CLAMP® ASSEMBLY EG





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 4/16" (6.4)
T - With Controlled Squeeze Shoulder Bolt Available on sizes up to 1 ⅜"
008 - Clamp Size 8/16" (12.7)

009N012 009 - Cushion Size 9/16" (14.3)
N - With Standard Bolt
012 - Clamp Size 12/16" (19.1)

Pipe Series Assembly

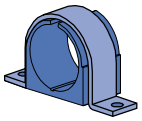
Part No.	Nominal Pipe Size	Dimensions "A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	Wt/100 pcs Lbs(kg)
009N012	¼	0.54 (13.7)	0.98 (24.9)	1.34 (34.0)	0.43 (10.9)	13 (5.9)
011N014	⅜	0.67 (17.0)	1.13 (28.7)	1.54 (39.1)	0.49 (12.4)	14 (6.4)
014N018	½	0.84 (21.3)	1.29 (32.8)	1.82 (46.2)	0.58 (14.7)	15 (6.8)
017N022	¾	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	1¼	1.66 (42.2)	2.17 (55.1)	2.73 (69.3)	0.99 (25.1)	35 (15.9)
030N034*	1½	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	2½	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	3½	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)

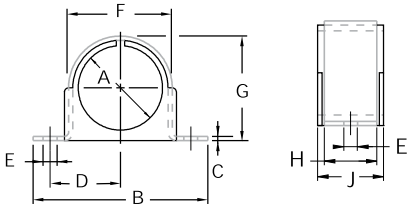
Tube Series Assembly

Part Number	Copper & Steel Tube O. D. Size	Copper Water Pipe (Nominal)	Dimensions "A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	Wt/100 pcs Lbs(kg)
004T008	¼		0.25 (6.4)	0.62 (15.7)	0.98 (24.9)	0.27 (6.9)	10 (4.5)
006T010	⅜	¼	0.37 (9.4)	0.82 (20.8)	1.13 (28.7)	0.33 (8.4)	11 (5.0)
008T012	½	⅜	0.5 (12.7)	0.94 (23.9)	1.34 (34.0)	0.4 (10.2)	13 (5.9)
010T014	⅝	½	0.62 (15.7)	1.06 (26.9)	1.54 (39.1)	0.46 (11.7)	14 (6.4)
012T016	¾	⅝	0.75 (19.1)	1.2 (30.5)	1.68 (42.7)	0.52 (13.2)	14 (6.4)
014T018	⅞	¾	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	1⅛	1	1.12 (28.4)	1.57 (39.9)	2.08 (52.8)	0.7 (17.8)	18 (8.2)
020T024	1¼		1.25 (31.8)	1.7 (43.2)	2.21 (56.1)	0.77 (19.6)	18 (8.2)
022T026	1⅜	1¼	1.37 (34.8)	1.82 (46.2)	2.34 (59.4)	0.83 (21.1)	20 (9.1)
024N028	1½		1.5 (38.1)	1.95 (49.5)	2.47 (62.7)	0.9 (22.9)	33 (15.0)
026N030	1⅝	1½	1.62 (41.1)	2.07 (52.6)	2.6 (66.0)	0.96 (24.4)	35 (15.9)
028N032	1¾		1.75 (44.5)	2.2 (55.9)	2.73 (69.3)	1.02 (25.9)	37 (16.8)
030N034	1⅞		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	2⅛	2	2.12 (53.8)	2.57 (65.3)	3.23 (82.0)	1.27 (32.3)	47 (21.3)
038N044	2⅜		2.37 (60.2)	2.82 (71.6)	3.67 (93.2)	1.41 (35.8)	49 (22.2)
040N046	2½		2.5 (63.5)	2.94 (74.7)	3.79 (96.3)	1.46 (37.1)	51 (23.1)
042N048	2⅝	2½	2.62 (66.5)	3.1 (78.0)	3.92 (99.6)	1.53 (38.9)	55 (24.9)
046N052	2⅞		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	3⅛	3	3.12 (79.2)	3.6 (90.7)	4.42 (112.3)	1.78 (45.2)	60 (27.2)
053N060	3 5/16		3.31 (84.1)	4.0 (100.6)	4.75 (120.7)	1.9 (48.3)	62 (28.1)
056N062	3½		3.5 (88.9)	4.0 (100.3)	4.79 (121.7)	1.97 (50.0)	55 (24.9)
058N064	3⅝	3½	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	4⅛	4	4.12 (104.6)	4.6 (116.1)	5.54 (140.7)	2.34 (59.4)	94 (42.6)
069N076	4 5/16		4.34 (110.2)	5.0 (126.0)	5.84 (148.3)	2.4 (61.0)	100 (45.4)
072N080	4½		4.5 (114.3)	5.0 (125.7)	5.92 (150.4)	2.53 (64.3)	110 (49.9)
082N090	5⅛	5	5.12 (130.0)	5.6 (141.5)	6.54 (166.1)	2.84 (72.1)	125 (56.7)
098N106	6⅛	6	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® EG

Assembly Omega Series™

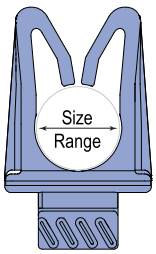




Includes clamp and cushion.
Materials: Clamp: ZD or stainless steel.
Cushion: Thermoplastic elastomer.

Note: 1-1/4 and larger can be used with Unistrut Channel.
Can be mounted to any flat surface.

CUSH–A–CLAW™ EG



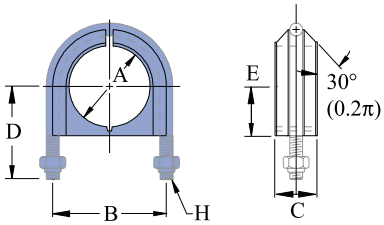
Part Number	Size
CL04	1/4"
CL06	3/8"
CL08	1/2"
CL10	5/8"
CL12	3/4"
CL14	7/8"
CL18	1-1/8"

UV standardized thermo plastic
Temp Range: -50° to 275°F
Sure Grip Base
No Fasteners needed
Corrosion resistant
Prevents Galvanic Corrosion - Great for Unistrut® Defender™

Part Number	Copper & Steel Tubing O. D. In	Copper Water Pipe (Nominal) In	Pipe Size (Nominal) In	Dimensions "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)*	Wt/100 pcs Lbs *(kg)*
004M007	¼			0.25 *6.4*	1.8 *46.0*	0.06 *1.5*	0.6 *15.2*	0 *5.1*	0.53 *13.5*	0.48 *12.2*	0.62 *15.7*	0.78 *19.8*	3.4 *1.5*
006M008	⅜	¼		0.37 *9.4*	1.9 *48.3*	0.06 *1.5*	0.65 *16.5*	0 *5.1*	0.62 *15.7*	0.62 *15.7*	0.62 *15.7*	0.81 *20.6*	4.0 *1.8*
008M011	½	⅜	¼	0.5 *12.7*	2.2 *55.9*	0.06 *1.5*	0.8 *20.3*	0 *6.6*	0.82 *20.8*	0.75 *19.1*	0.75 *19.1*	0.98 *24.9*	5.5 *2.5*
010M013	⅝	½	⅜	0.62 *15.7*	2.3 *58.9*	0.06 *1.5*	0.86 *21.8*	0 *6.6*	0.94 *23.9*	0.87 *22.1*	0.75 *19.1*	0.98 *24.9*	6.0 *2.7*
012M015	¾	⅝		0.75 *19.1*	2.4 *61.2*	0.06 *1.5*	0.9 *22.9*	0 *6.6*	1.03 *26.2*	1.01 *25.7*	0.75 *19.1*	0.98 *24.9*	6.5 *2.9*
014M017	⅞	¾	½	0.87 *22.1*	2.6 *65.0*	0.06 *1.5*	0.98 *24.9*	0 *6.6*	1.18 *30.0*	1.03 *26.2*	0.75 *19.1*	0.98 *24.9*	7.1 *3.2*
016M019	1			1 *25.4*	2.7 *68.1*	0.06 *1.5*	1.04 *26.4*	0 *6.6*	1.31 *33.3*	1.25 *31.8*	0.75 *19.1*	0.98 *24.9*	7.8 *3.5*
018M020			¾	1.05 *26.7*	2.7 *68.1*	0.06 *1.5*	1.04 *26.4*	0 *6.6*	1.31 *33.3*	1.25 *31.8*	0.75 *19.1*	0.98 *24.9*	8.1 *3.7*
018M021	1⅛	1		1.12 *28.4*	2.8 *71.6*	0.06 *1.5*	1.11 *28.2*	0 *6.6*	1.44 *36.6*	1.33 *33.8*	0.75 *19.1*	0.98 *24.9*	8.4 *3.8*
020M024	1¼			1.25 *31.8*	3.0 *76.2*	0.08 *2.0*	1.2 *30.5*	0 *6.6*	1.65 *41.9*	1.47 *37.3*	1.25 *31.8*	1.56 *39.6*	17 *7.7*
021M026			1	1.31 *33.3*	3.1 *79.2*	0.08 *2.0*	1.26 *32.0*	0 *6.6*	1.76 *44.7*	1.71 *43.4*	1.25 *31.8*	1.56 *39.6*	20 *9.1*
022M026	1⅜	1¼		1.37 *34.8*	3.1 *79.2*	0.08 *2.0*	1.26 *32.0*	0 *6.6*	1.76 *44.7*	1.71 *43.4*	1.25 *31.8*	1.56 *39.6*	19 *8.6*
024M028	1½			1.5 *38.1*	3.7 *92.7*	0.08 *2.0*	1.42 *36.1*	0 *6.6*	1.93 *49.0*	1.88 *47.8*	1.25 *31.8*	1.56 *39.6*	20 *9.1*
026M030	1⅝	1½		1.62 *41.1*	3.8 *95.8*	0.08 *2.0*	1.48 *37.6*	0 *6.6*	2.07 *52.6*	2 *50.8*	1.25 *31.8*	1.56 *39.6*	23 *10.4*
027M032			1¼	1.66 *42.2*	3.9 *99.1*	0.1 *2.5*	1.55 *39.4*	0 *8.4*	2.21 *56.1*	2.12 *53.8*	1.25 *31.8*	1.56 *39.6*	32 *14.5*
028M032	1¾			1.75 *44.5*	3.9 *99.1*	0.1 *2.5*	1.55 *39.4*	0 *8.4*	2.21 *56.1*	2.12 *53.8*	1.25 *31.8*	1.56 *39.6*	32 *14.5*
030M034	1⅞		1½	1.87 *47.5*	4.0 *102.1*	0.1 *2.5*	1.61 *40.9*	0 *8.4*	2.33 *59.2*	2.25 *57.2*	1.25 *31.8*	1.56 *39.6*	34 *15.4*
032M036	2			2 *50.8*	4.2 *105.4*	0.1 *2.5*	1.67 *42.4*	0 *8.4*	2.46 *62.5*	2.38 *60.5*	1.25 *31.8*	1.56 *39.6*	36 *16.3*
034M040	2⅛			2.12 *53.8*	4.4 *111.8*	0.1 *2.5*	1.8 *45.7*	0 *8.4*	2.71 *68.8*	2.62 *66.5*	1.25 *31.8*	1.56 *39.6*	41 *18.6*
038M044			2	2.37 *60.2*	4.7 *119.6*	0.1 *2.5*	1.94 *49.3*	0 *8.4*	2.96 *75.2*	2.88 *73.2*	1.25 *31.8*	1.56 *39.6*	44 *20.0*
082M090	5⅛		5	5.12 *130.0*	7.6 *194.1*	0.1 *2.5*	3.41 *86.6*	0 *10.2*	5.83 *148.1*	6.75 *171.5*	1.25 *31.8*	1.56 *39.6*	120 *54.4*

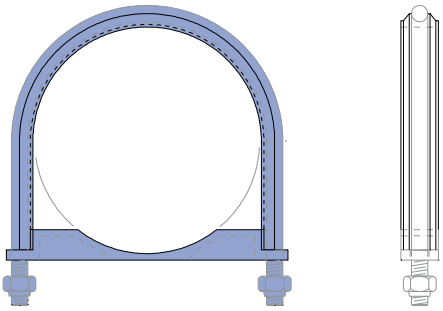
Atkore Unistrut

UB½PA THRU UB12PA



½" thru 6" assembly.

CUSH–A–CLAMP® ASSEMBLY U-BOLT SERIES EG



8" thru 12" assembly.

Includes: U bolt, cushion, and hardware.

Materials:

U Bolt: Electro-galvanized finish or Type 316 SS

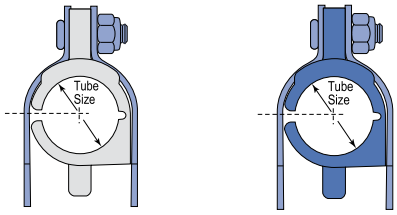
Cushion: Thermoplastic elastomer.

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

Part Number	Pipe Size (Nominal) In *(mm)*	Dimensions "A" In *(mm)*	"B" In *(mm)*	"C" In *(mm)*	"D" In *(mm)*	"E" In *(mm)*	"F" In *(mm)*	H	Wt/100 pcs Lbs *(kg)*
UB1⁄2PA	½	0.84	1.6	0.68	1.5	1	¼	¼-20 UNC-2B	9
	12.7	*21.3*	*40.6*	*17.3*	*38.1*	*17.0*	*6.4*		*4.1*
UB3⁄4PA	¾	1.1	1.8	0.7	1.6	0.8	¼	¼-20 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	¼	¼-20 UNC-2B	12
	25.4	*33.3*	*52.1*	*17.3*	*43.2*	*23.1*	*6.4*		*5.4*
UB1⁄4PA	1¼	1.7	2.5	1.2	2.1	1.1	⅜	⅜-16 UNC-2B	36
	31.8	*42.2*	*64.5*	*31.5*	*53.3*	*27.4*	*9.5*		*16.3*
UB1⁄2PA	1½	1.9	2.8	1.2	2.2	1.2	⅜	⅜-16 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	⅜	⅜-16 UNC-2B	42
	50.8	*60.2*	*84.3*	*31.5*	*63.5*	*36.8*	*9.5*		*19.1*
UB2⁄2PA	2½	2.9	3.9	1.2	3.0	1.7	½	½-13 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	½	½-13 UNC-2B	84
	76.2	*88.9*	*114.3*	*31.5*	*83.8*	*50.8*	*12.7*		*38.1*
UB3⁄2PA	3½	4.0	5.0	1.2	3.7	2.3	½	½-13 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	½	½-13 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	½	½-13 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	⅝	⅝-11 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	⅝	⅝-11 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	¾	¾-10 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	¾	¾-10 UNC-2B	563
	304.8	*323.9*	*362.0*	*41.9*	*221.0*	*169.7*	*19.1*		*255.4*

CUSH–A–NATOR®

STEEL

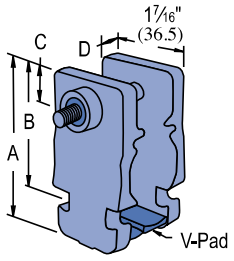


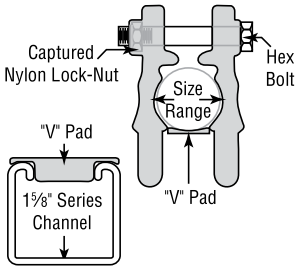
The Cush-A-Nator cushion is made from a new extremely durable thermoplastic rubber that resists high heat and provides longer life against vibration fatigue.

Part Number	Clamp Material	Size
CN04	Steel	1/4"
CN26	Steel	1-5/8"
CN24	Steel	1-1/2"
CN22	Steel	1-3/8"
CN18	Steel	1-1/8"
CN16	Steel	1"
CN14	Steel	7/8"
CN12	Steel	3/4"
CN10	Steel	5/8"
CN08	Steel	1/2"
CN06	Steel	3/8"
CN34	Steel	1-1/8"

Part Number	Clamp Material	Size
HT04	Steel	1/4"
HT26	Steel	1-5/8"
HT24	Steel	1-1/2"
HT22	Steel	1-3/8"
HT18	Steel	1-1/8"
HT16	Steel	1"
HT14	Steel	7/8"
HT10	Steel	5/8"
HT08	Steel	1/2"
HT06	Steel	3/8"
HT34	Steel	2-1/8"

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	¼ 6.4	⅜ 9.5	½ 12.7	¼ 6.4		0.25 - 0.54 6.4 - 13.7	500 2.22	40 0.18
CG-20	⅝ 15.9	¾ 19.1	⅞ 22.2	⅜ 9.5	½ 12.7	0.62 - 0.87 15.7 - 22.1	500 2.22	40 0.18
CG-30	⅞ 22.2	1 25.4	1⅛ 28.6	¾ 19.1		0.87 - 1.12 22.1 - 28.4	500 2.22	40 0.18
CG-40	1 25.4	1⅛ 28.6	1¼ 31.8	¾ 19.1	1 25.4	1.00 - 1.31 25.4 - 33.3	500 2.22	40 0.18

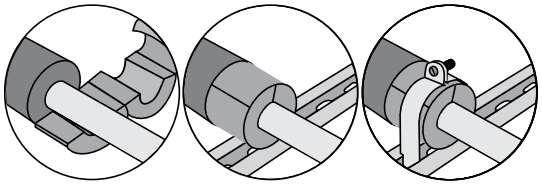
Part Number	Nominal Pipe Size	Dimensions "A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	Hex Head Cap Screw & Lock Nut	Wt/100 pcs Lbs(kg)
CG-10	¼	1 15/16 49.2	1⅜ 34.9	⅜ 9.5	3/16 4.8	¼-20 x 1½"	4 1.8
CG-20	⅜	2⅜ 60.3	1⅝ 41.3	7/16 11	¼ 6.4	¼-20 x 2"	6 2.7
CG-30	½	2 9/16 65.1	1 13/16 46.0	7/16 11	5/16 7.9	¼-20 x 2"	8 3.6
CG-40	¾	2 11/16 68.3	1 15/16 49.2	7/16 11	5/16 7.9	¼-20 x 2"	8 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)

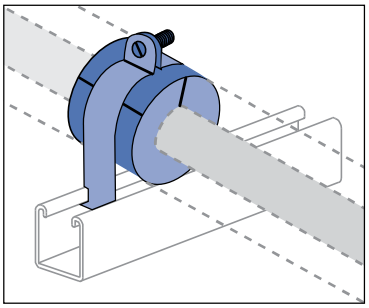
PUX1234 THRU PUX41810 — CUSH–A–THERM™

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

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



1. Insulation slides over pipes
2. Pipe hanger inserts are put in place and glued to insuation.
3. Joints are wrapped and sealed with ProTape.



Nominal ¾" Wall

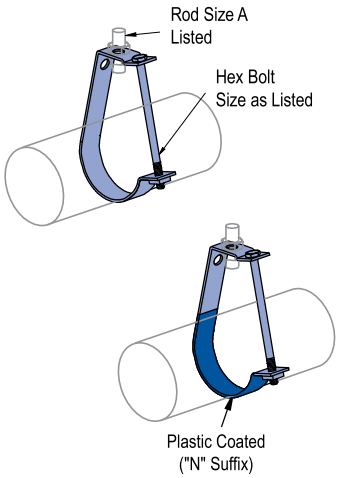
Part Number	Hole Size In(mm)	Copper Nom. I.D. In(mm)	O.D. In(mm)	IPS In(mm)	O.D. In(mm)	Length In(mm)
PUX3834	⅜ ID 9.5	¼ 6.4	⅜ 9.5	- -	1.81 46.0	2.17 55.1
PUX1234	½ ID 12.7	⅜ 9.5	½ 12.7	¼ 6.4	1.89 48.0	2.17 55.1
PUX5834	⅝ ID 15.9	½ 12.7	⅝ 15.9	⅜ 9.5	2.05 52.1	2.17 55.1
PUX3434	¾ ID 19.1	⅝ 15.9	¾ 19.1	- -	2.22 56.4	2.17 55.1
PUX7834	⅞ ID 22.2	¾ 19.1	⅞ 22.2	½ 12.7	2.44 62.0	2.17 55.1
PUX11834	1⅛ ID 28.6	1 25.4	1⅛ 28.6	¾ 19.1	2.76 70.1	2.17 55.1
PUX13834	1⅜ ID 34.9	1¼ 31.8	1⅜ 34.9	1 25.4	3.19 81.0	2.56 65.0
PUX15834	1⅝ ID 41.3	1½ 38.1	1⅝ 41.3	1¼ 31.8	3.35 85.1	2.58 65.5
PUX21834	2⅛ ID 54.0	2 50.8	2⅛ 54.0	- -	3.86 98.0	2.56 65.0
PUX23834	2⅜ ID 60.3	2¼ 57.2	2⅜ 60.3	2 50.8	4.29 109.0	2.96 75.2
PUX25834	2⅝ ID 66.7	2½ 63.5	2⅝ 66.7	- -	4.87 123.7	2.96 75.2
PUX31834	3⅛ ID 79.4	3 76.2	3⅛ 79.4	- -	5 127.0	3.35 85.1
PUX35834	3⅝ ID 92.1	3½ 88.9	3⅝ 92.1	- -	5.94 150.9	3.94 100.1
PUX41834	4⅛ ID 104.8	4 101.6	4⅛ 104.8	3½ 88.9	6.14 156.0	3.94 100.1

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	⅝ ID 15.9	½ 12.7	⅝ 15.9	⅜ 9.5	2.54 64.5	2.2 55.1
PUX3410	¾ ID 19.1	⅝ 15.9	¾ 19.1	- -	2.82 71.6	2.2 55.1
PUX7810	⅞ ID 22.2	¾ 19.1	⅞ 22.2	½ 12.7	2.82 71.6	2.2 55.1
PUX11810	1⅛ ID 28.6	1 25.4	1⅛ 28.6	¾ 19.1	3.06 77.7	2.2 55.1
PUX13810	1⅜ ID 34.9	1¼ 31.8	1⅜ 34.9	1 25.4	3.33 84.6	2.6 65.0
PUX15810	1⅝ ID 41.3	1½ 38.1	1⅝ 41.3	1¼ 31.8	3.65 92.7	2.6 65.0
PUX21810	2⅛ ID 54.0	2 50.8	2⅛ 54.0	- -	4.16 105.7	2.6 65.0
PUX23810	2⅜ ID 60.3	2¼ 57.2	2⅜ 60.3	2 50.8	3.92 99.6	2.6 65.0
PUX25810	2⅝ ID 66.7	2½ 63.5	2⅝ 66.7	- -	4.87 123.7	3.0 75.2
PUX31810	3⅛ ID 79.4	3 76.2	3⅛ 79.4	- -	5.14 130.6	3.4 85.1
PUX35810	3⅝ ID 92.1	3½ 88.9	3⅝ 92.1	- -	6.48 164.6	3.9 100.1
PUX41810	4⅛ ID 104.8	4 101.6	4⅛ 104.8	3½ 88.9	6.48 164.6	3.9 100.1

J1205 thru J1280, J1205 N thru J1280 N (Plastic Coated)

"J" Conduit & Pipe Hanger EG

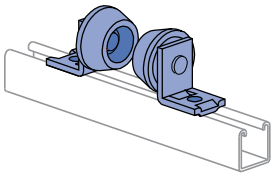


Part No.	Wt/100 pcs Lbs *(kg)*	Part No.	Wt/100 pcs Lbs *(kg)*	Pipe Size In	"A" In *(mm)*	"B" In *(mm)*	"C" In *(mm)*	"D" In *(mm)*	"E" In *(mm)*	"F" In *(mm)*	Load Lbs *(kN)*
J1205	20 *9.1*	J1205N	21 *9.5*	½	⅜ *9.5*	2⅝ *66.7*	1 *25.4*	2 *50.8*	13/32 *10.3*	¼ x 2¼ *6.4 x 57.2*	400 *1.78*
J1207	21 *9.5*	J1207N	22 *10.0*	¾	⅜ *9.5*	2⅞ *73.0*	1 *25.4*	2¼ *57.2*	13/32 *10.3*	¼ x 2¼ *6.4 x 57.2*	400 *1.78*
J1210	24 *10.9*	J1210N*	25 *11.3*	1	⅜ *9.5*	3 *76.2*	1 *25.4*	2⅜ *60.3*	13/32 *10.3*	¼ x 2½ *6.4 x 63.5*	400 *1.78*
J1212	27 *12.2*	J1212N	29 *13.2*	1¼	⅜ *9.5*	3¼ *82.6*	1 *25.4*	2½ *63.5*	13/32 *10.3*	¼ x 2¾ *6.4 x 69.9*	400 *1.78*
J1215	29 *13.2*	J1215N*	31 *14.1*	1½	⅜ *9.5*	3½ *88.9*	1 *25.4*	2⅝ *66.7*	13/32 *10.3*	¼ x 3 *6.4 x 76.2*	400 *1.78*
J1220	33 *15.0*	J1220N*	35 *15.9*	2	⅜ *9.5*	3¾ *95.3*	1⅛ *28.6*	2⅝ *66.7*	13/32 *10.3*	¼ x 3½ *6.4 x 88.9*	400 *1.78*
J1225	71 *32.2*	J1225N	74 *33.6*	2½	½ *12.7*	4⅜ *111.1*	1⅛ *28.6*	3⅝ *92.1*	9/16 *14.3*	⅜ x 4½ *9.5 x 114.3*	800 *3.56*
J1230	78 *35.4*	J1230N*	81 *36.7*	3	½ *12.7*	4⅞ *123.8*	1⅛ *28.6*	4 *101.6*	9/16 *14.3*	⅜ x 5 *9.5 x 127.0*	800 *3.56*
J1235	85 *38.6*	J1235N	88 *39.9*	3½	½ *12.7*	5⅛ *130.2*	1⅛ *28.6*	4¼ *108.0*	9/16 *14.3*	⅜ x 6 *9.5 x 152.4*	800 *3.56*
J1240	178 *80.7*	J1240N*	182 *82.6*	4	⅝ *15.9*	6⅛ *155.6*	1⅛ *28.6*	5⅛ *130.2*	9/16 *14.3*	⅜ x 6 *9.5 x 152.4*	800 *3.56*
J1250	199 *90.3*	J1250N	203 *92.1*	5	⅝ *15.9*	6¾ *171.5*	1⅛ *28.6*	5¾ *146.1*	9/16 *14.3*	⅜ x 7½ *9.5 x 190.5*	800 *3.56*
J1260	231 *104.8*	J1260N*	236 *107.0*	6	¾ *19.1*	7¾ *196.9*	1¼ *31.8*	6½ *165.1*	9/16 *14.3*	⅜ x 8½ *9.5 x 215.9*	1,000 *4.45*
J1280	449 *203.7*	J1280N	458 *207.7*	8	⅞ *22.2*	9¼ *235.0*	1¼ *31.8*	8 *203.2*	9/16 *14.3*	⅜ x 10 *9.5 x 254.0*	1,200 *5.34*

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

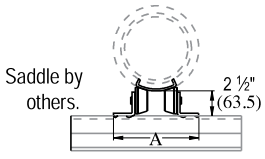
P2474

Pipe Roller for ½" - 4" Pipe EG GR



Sold in pairs.

Requires 2 each ½" x 15/16" 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)

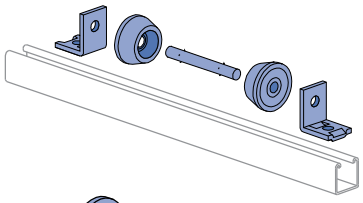
Chart for Dimension A

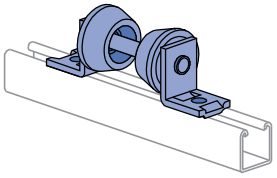
Pipe Size In	No Insulation In *(mm)*	Insulation Thickness 1" In *(mm)*	1½" In *(mm)*	2" In *(mm)*	2½" In *(mm)*	3" In *(mm)*	4" In *(mm)*
½	6½ *165.1*	6½ *165.1*	- -	- -	- -	- -	- -
¾	6½ *165.1*	6½ *165.1*	6⅝ *168.3*	6⅞ *174.6*	- -	- -	- -
1	6½ *165.1*	6½ *165.1*	6⅝ *168.3*	6⅞ *174.6*	- -	- -	- -
1¼	6½ *165.1*	6½ *165.1*	6⅞ *174.6*	7⅛ *181.0*	7⅜ *187.3*	- -	- -
1½	6½ *165.1*	6½ *165.1*	6⅞ *174.6*	7⅛ *181.0*	7⅜ *187.3*	- -	- -
2	6½ *165.1*	6⅝ *168.3*	7⅛ *181.0*	7⅜ *187.3*	7½ *190.5*	8 *203.2*	- -
2½	6½ *165.1*	6⅝ *168.3*	7⅛ *181.0*	7⅜ *187.3*	7½ *190.5*	8 *203.2*	- -
3	6½ *165.1*	7 *177.8*	7½ *190.5*	7¾ *196.9*	7⅛ *200.0*	8⅛ *206.4*	- -
3½	6½ *165.1*	7 *177.8*	7½ *190.5*	7¾ *196.9*	7⅛ *200.0*	8⅛ *206.4*	- -
4	6⅝ *168.3*	7¼ *184.2*	7⅝ *193.7*	7⅛ *200.0*	8 *203.2*	8⅜ *212.7*	9 *228.6*

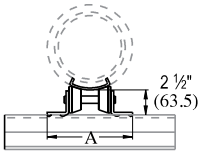
P2474-1 THRU P2474-4

PIPE ROLLER FOR 1" - 8" PIPE

EG GR







Saddle by others.

- Pipe roller will fit standard saddles.
- Select proper roller from chart.
- Requires 2 each ½" x 15⁄16" bolts and ½" channel nuts per assembly. Sold separately.

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	6¾ *171.5*	299 *135.6*
P2474-2	7½ *190.5*	304 *137.9*
P2474-3	8½ *215.9*	311 *141.1*
P2474-4	9 9⁄16 *242.9*	319 *144.7*

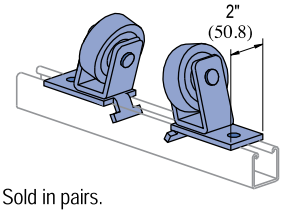
Chart for Roller Part Number Selection

Pipe Size In	No Insulation	Insulation Thickness 1" *(25.4)*	1½" *(38.1)*	2" *(50.8)*	2½" *(63.5)*	3" *(76.2)*	4" *(101.6)*
½	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
¾	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
1	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
1¼	P2474-1	P2474-1	P2474-1	P2474-2	-	-	-
1½	P2474-1	P2474-1	P2474-2	P2474-2	P2474-2	-	-
2	P2474-1	P2474-1	P2474-2	P2474-2	P2474-2	-	-
2½	P2474-1	P2474-1	P2474-2	P2474-2	P2474-2	-	-
3	P2474-1	P2474-2	P2474-2	P2474-3	P2474-3	P2474-3	-
3½	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

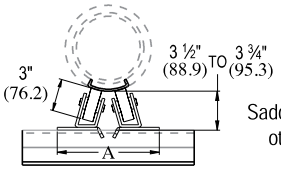
P2475

PIPE ROLLER FOR 6" - 16" PIPE

EG GR



Sold in pairs.



Saddle by others.

Material: Cast iron rollers.

- Requires 2 each ½" x 15⁄16" bolts and ½" channel nuts per assembly. Sold separately.

Design Load
1500 Lbs *(6.67 kN)*

Wt/100 pcs: 680 Lbs (308.4 kg)

Chart for Dimension A

Pipe Size In	No Insulation In *(mm)*	Insulation Thickness 1" In *(mm)*	1½" In *(mm)*	2" In *(mm)*	2½" In *(mm)*	3" In *(mm)*	4" In *(mm)*
6	9½ *241.3*	10¼ *260.4*	10½ *266.7*	10¾ *273*	11 *279.4*	11⅜ *288.9*	11⅞ *301.6*
8	10⅛ *257.2*	*	11 *279.4*	11⅜ *288.9*	11¾ *298.5*	12 *304.8*	12½ *317.5*
10	10¾ *273.1*	*	11⅝ *295.3*	12 *304.8*	12¼ *311.2*	12½ *317.5*	13 *330.2*
12	11¼ *285.8*	*	12⅛ *308.0*	12½ *317.5*	12¾ *323.9*	13 *330.2*	13½ *342.9*
14	11⅝ *295.3*	*	12½ *317.5*	12⅞ *327.0*	13 *330.2*	13⅜ *339.7*	14 *355.6*
16	12⅛ *308.0*	*	13 *330.2*	13⅜ *339.7*	13⅞ *352.4*	14 *355.6*	14½ *368.3*

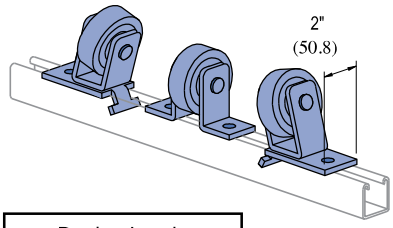
(*Not used for this size)

Standard Dimensions for 1⅝" (41.3mm) width series channel fittings *(Unless Otherwise Shown on Drawing)*

Hole Diameter: 9⁄16" (14.3mm); Hole Spacing - From End: 13⁄16" (20.6mm); Hole Spacing - On Center: 1⅛" (47.6mm); Width: 1⅝"(41.3mm); Thickness: ¼" (6.4mm)

P2476 — Pipe Roller for 16" - 24" Pipe

EG GR



Design Load
2000 Lbs *(8.90 kN)*

Material: Cast iron rollers.

• Requires 4 each ½" x 15⁄16" bolts and ½" channel nuts per assembly. Sold separately.

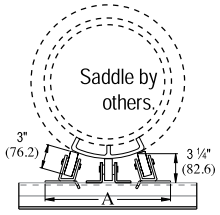
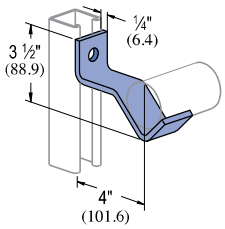


Chart for Dimension A

Pipe Size In	Insulation Thickness 1½" In *(mm)*	2" In *(mm)*	2½" In *(mm)*	3" In *(mm)*	4" In *(mm)*
16	-	-	13⅞	14	14½
	-	-	*352.4*	*355.6*	*368.3*
18	13⅝	14	14⅛	14½	15
	346.1	*355.6*	*358.8*	*368.3*	*381.0*
20	14⅛	14½	14¾	15	15½
	358.8	*368.3*	*374.7*	*381.0*	*393.7*
24	15¼	15½	15⅞	16⅛	16⅝
	387.4	*393.7*	*403.2*	*409.6*	*422.3*

Wt/100 pcs: 1046 Lbs (474.5 kg)

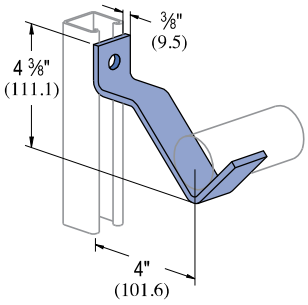
P2481 — Pipe Support Bracket



For ½" pipe to 1½" pipe.

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

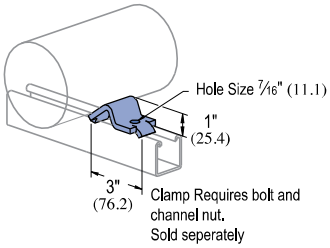
P2482 — Pipe Support Bracket



For 2" pipe to 3" pipe.

Wt/100 pcs Lbs *(kg)*	Design Load (Upright Channel) P1000 Lbs *(kN)*	P1100 Lbs *(kN)*	P2000 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)

Standard Dimensions for 1⅝" (41.3mm) width series channel fittings *(Unless Otherwise Shown on Drawing)*

Hole Diameter: 9⁄16" (14.3mm); Hole Spacing - From End: 13⁄16" (20.6mm); Hole Spacing - On Center: 1⅞" (47.6mm); Width: 1⅝"(41.3mm); Thickness: ¼" (6.4mm)

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 120.7	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
	S	4½ 114.3	4¾ 120.7	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
1" 25.4mm	T	5 127.0	4¾ 120.7	5¼ 133.4	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
	F	6 152.4	5¾ 146.1	6¼ 158.8	7¼ 184.2	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
	S	4¾ 120.7	4½ 114.3	5 127.0	6 152.4	4½ 114.3	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
1¼" 31.8mm	T	5¼ 133.4	5 127.0	5½ 139.7	6½ 165.1	5 127.0	5½ 139.7	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
	F	6¼ 158.8	6 152.4	6½ 165.1	7½ 190.5	6¼ 158.8	6¾ 171.5	7¾ 196.9	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
	S	4¾ 120.7	4½ 114.3	5 127.0	6 152.4	4½ 114.3	5¼ 133.4	6¼ 158.8	4¾ 120.7	– –	– –	– –	– –	– –	– –	– –	– –	– –
1½" 38.1mm	T	5¼ 133.4	5 127.0	5½ 139.7	6½ 165.1	5¼ 133.4	5¾ 146.1	6¾ 171.5	5¼ 133.4	5¾ 146.1	– –	– –	– –	– –	– –	– –	– –	– –
	F	6½ 165.1	6¼ 158.8	6¾ 171.5	7¾ 196.9	6¼ 158.8	6¾ 171.5	8 203.2	6½ 165.1	7 177.8	8 203.2	– –	– –	– –	– –	– –	– –	– –
	S	5 127.0	4¾ 120.7	5¼ 133.4	6¼ 158.8	4¾ 120.7	5¼ 133.4	6 152.4	5 127.0	5½ 139.7	6½ 165.1	5 127.0	– –	– –	– –	– –	– –	– –
2" 50.8mm	T	5¾ 146.1	5½ 139.7	6 152.4	7 177.8	5½ 139.7	6 152.4	7¼ 184.2	5¾ 146.1	6¼ 158.8	7¼ 184.2	5¾ 146.1	6½ 165.1	– –	– –	– –	– –	– –
	F	7 177.8	6¾ 171.5	7¼ 184.2	8¼ 209.6	6¾ 171.5	7¼ 184.2	8½ 215.9	7 177.8	7½ 190.5	8½ 215.9	7 177.8	7¾ 196.9	9 228.6	– –	– –	– –	– –
	S	5¼ 133.4	5 127.0	5½ 139.7	6½ 165.1	5 127.0	5½ 139.7	6¾ 171.5	5¼ 133.4	5¾ 146.1	6¾ 171.5	5¼ 133.4	6 152.4	7¼ 184.2	5½ 139.7	– –	– –	– –
2½" 63.5mm	T	6 152.4	5¾ 146.1	6¼ 158.8	7¼ 184.2	6 152.4	6½ 165.1	7½ 190.5	6 152.4	6½ 165.1	7¾ 196.9	6¼ 158.8	7 177.8	8¼ 209.6	6½ 165.1	7¼ 184.2	– –	– –
	F	7½ 190.5	7¼ 184.2	7¾ 196.9	8¾ 222.3	7¼ 184.2	7¾ 196.9	9 228.6	7½ 190.5	8 203.2	9 228.6	7½ 190.5	8¼ 209.6	9½ 241.3	7¾ 196.9	8¾ 222.3	10 254.0	– –
	S	5½ 139.7	5¼ 133.4	5¾ 146.1	6¾ 171.5	5¼ 133.4	5¾ 146.1	7 177.8	5½ 139.7	6 152.4	7 177.8	5½ 139.7	6¼ 158.8	7½ 190.5	5¾ 146.1	6¾ 171.5	8 203.2	6 152.4
3" 76.2mm	T	6¼ 158.8	6 152.4	6½ 165.1	7½ 190.5	6¼ 158.8	6¾ 171.5	7¾ 196.9	6¼ 158.8	6¾ 171.5	8 203.2	6½ 165.1	7¼ 184.2	8½ 215.9	6¾ 171.5	7½ 190.5	9 228.6	7 177.8
	F	7¾ 196.9	7½ 190.5	8 203.2	9 228.6	7½ 190.5	8 203.2	9¼ 235.0	7¾ 196.9	8¼ 209.6	9¼ 235.0	7¾ 196.9	8½ 215.9	9¾ 247.7	8 203.2	9 228.6	10¼ 260.4	8¼ 209.6
	S	5¾ 146.1	5½ 139.7	6 152.4	7 177.8	5½ 139.7	6 152.4	7¼ 184.2	5¾ 146.1	6¼ 158.8	7¼ 184.2	5¾ 146.1	6½ 165.1	7¾ 196.9	6 152.4	7 177.8	8¼ 209.6	6¼ 158.8
4" 101.6mm	T	7½ 190.5	7¼ 184.2	7¾ 196.9	8¾ 222.3	7¼ 184.2	7¾ 196.9	9 228.6	7½ 190.5	8 203.2	9 228.6	7½ 190.5	8¼ 209.6	9½ 241.3	7¾ 196.9	8¾ 222.3	10 254.0	8 203.2
	F	9 228.6	8¾ 222.3	9¼ 235.0	10¼ 260.4	8¾ 222.3	9¼ 235.0	10½ 266.7	9 228.6	9½ 241.3	10½ 266.7	9 228.6	9¾ 247.7	11 279.4	9¼ 235.0	10¼ 260.4	11½ 292.1	9½ 241.3
	S	6¾ 171.5	6½ 165.1	7 177.8	8 203.2	6½ 165.1	7 177.8	8¼ 209.6	6¾ 171.5	7¼ 184.2	8¼ 209.6	6¾ 171.5	7½ 190.5	8¾ 222.3	7 177.8	8 203.2	9¼ 235.0	7¼ 184.2
5" 127.0mm	T	8 203.2	7¾ 196.9	8¼ 209.6	9¼ 235.0	7¾ 196.9	8¼ 209.6	9½ 241.3	8 203.2	8½ 215.9	9½ 241.3	8 203.2	8¾ 222.3	10 254.0	8¼ 209.6	9¼ 235.0	10½ 266.7	8½ 215.9
	F	9½ 241.3	9¼ 235.0	9¾ 247.7	10¾ 273.1	9¼ 235.0	9¾ 247.7	11 279.4	9½ 241.3	10 254.0	11 279.4	9½ 241.3	10¼ 260.4	11½ 292.1	9¾ 247.7	10¾ 273.1	12 304.8	10 254.0
	S	7¼ 184.2	7 177.8	7½ 190.5	8¼ 209.6	7 177.8	7½ 190.5	8¾ 222.3	7¼ 184.2	7¾ 196.9	8¾ 222.3	7¼ 184.2	8 203.2	9¼ 235.0	7½ 190.5	8½ 215.9	9¾ 247.7	7¾ 196.9
6" 152.4mm	T	8¾ 222.3	8½ 215.9	9 228.6	10 254.0	8½ 215.9	9 228.6	10¼ 260.4	8¾ 222.3	9¼ 235.0	10¼ 260.4	8¾ 222.3	9½ 241.3	10¾ 273.1	9 228.6	10 254.0	11¼ 285.8	9¼ 235.0
	F	10 254.0	9¾ 247.7	10¼ 260.4	11¼ 285.8	9¾ 247.7	10¼ 260.4	11½ 292.1	10 254.0	10½ 266.7	11½ 292.1	10 254.0	10¾ 273.1	12 304.8	10¼ 260.4	11¼ 285.8	12½ 317.5	10½ 266.7
	S	7¾ 196.9	7½ 190.5	8 203.2	9 228.6	7½ 190.5	8 203.2	9¼ 235.0	7¾ 196.9	8¼ 209.6	9¼ 235.0	7¾ 196.9	8½ 215.9	9¾ 247.7	8 203.2	9 228.6	10¼ 260.4	8¼ 209.6
8" 203.2mm	T	8¾ 222.3	9½ 241.3	10 254.0	11 279.4	9¾ 247.7	10½ 266.7	11¼ 285.8	9¾ 247.7	10¼ 260.4	11½ 292.1	10 254.0	10¾ 273.1	12 304.8	10½ 266.7	11 279.4	12½ 317.5	10½ 266.7
	F	11¼ 285.8	11 279.4	11½ 292.1	12½ 317.5	11 279.4	11½ 292.1	12¾ 323.9	11¼ 285.8	11¾ 298.5	12¾ 323.9	11¼ 285.8	12 304.8	13¼ 336.6	11½ 292.1	12½ 317.5	13¾ 349.3	11¾ 298.5
10" 254.0mm	T	11¼ 285.8	11 279.4	11½ 292.1	12½ 317.5	11 279.4	11½ 292.1	12¾ 323.9	11¼ 285.8	11¾ 298.5	12¾ 323.9	11¼ 285.8	12 304.8	13¼ 336.6	11½ 292.1	12½ 317.5	13¾ 349.3	11¾ 298.5
	F	12½ 317.5	12¼ 311.2	12¾ 323.9	13¾ 349.3	12¼ 311.2	12¾ 323.9	14 355.6	12½ 317.5	13 330.2	14 355.6	12½ 317.5	13¼ 336.6	14½ 368.3	12¾ 323.9	13¾ 349.3	15 381.0	13 330.2
12" 304.8mm	T	12¼ 311.2	12 304.8	12½ 317.5	13½ 342.9	12 304.8	12½ 317.5	13¾ 349.3	12¼ 311.2	12¾ 323.9	13¾ 349.3	12¼ 311.2	13 330.2	14¼ 362.0	12½ 317.5	13½ 342.9	14¾ 374.7	12¾ 323.9
	F	14 355.6	13¾ 349.3	14¼ 362.0	15¼ 387.4	13¾ 349.3	14¼ 362.0	15½ 393.7	14 355.6	14½ 368.3	15½ 393.7	14 355.6	14¾ 374.7	16 406.4	14¼ 362.0	15¼ 387.4	16½ 419.1	14½ 368.3

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.

Centerline to Centerline (In/mm)																			
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	F	S	T	F	S	T	F	S	T	F	S	T	F	T	F	T	F		
7¾	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T	3" *76.2mm*
196.9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
9¼	10½	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	F	
235.0	*266.7*	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
7¼	8½	6½	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	S	
184.2	*215.9*	*165.1*	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
9	10¼	8¼	10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T	4" *101.6mm*
228.6	*260.4*	*209.6*	*254.0*	–	–	–	–	–	–	–	–	–	–	–	–	–	–		
10½	11¾	9¾	11½	13	–	–	–	–	–	–	–	–	–	–	–	–	–	F	
266.7	*298.5*	*247.7*	*292.1*	*330.2*	–	–	–	–	–	–	–	–	–	–	–	–	–		
8¼	9½	7½	9¼	10¾	8½	–	–	–	–	–	–	–	–	–	–	–	–	S	
209.6	*241.3*	*190.5*	*235.0*	*273.1*	*215.9*	–	–	–	–	–	–	–	–	–	–	–	–		
9½	10¾	8¾	10¼	12	9¾	11	–	–	–	–	–	–	–	–	–	–	–	T	5" *127.0mm*
241.3	*273.1*	*222.3*	*260.4*	*304.8*	*247.7*	*279.4*	–	–	–	–	–	–	–	–	–	–	–		
11	12¼	10¼	12	13½	11¼	12½	14	–	–	–	–	–	–	–	–	–	–	F	
279.4	*311.2*	*260.4*	*304.8*	*342.9*	*285.8*	*317.5*	*355.6*	–	–	–	–	–	–	–	–	–	–		
8¾	10	8	9¾	11¼	9	10¼	11¾	9½	–	–	–	–	–	–	–	–	–	S	
222.3	*254.0*	*203.2*	*247.7*	*285.8*	*228.6*	*260.4*	*298.5*	*241.3*	–	–	–	–	–	–	–	–	–		
10¼	11½	9½	11¼	12¾	10½	11¾	13¼	11	12½	–	–	–	–	–	–	–	–	T	6" *152.4mm*
260.4	*292.1*	*241.3*	*285.8*	*323.9*	*266.7*	*298.5*	*336.6*	*279.4*	*317.5*	–	–	–	–	–	–	–	–		
11½	12¼	10¾	12½	14	11¾	13	14½	12¼	13¼	15	–	–	–	–	–	–	–	F	
292.1	*311.2*	*273.1*	*317.5*	*355.6*	*298.5*	*330.2*	*368.3*	*311.2*	*336.6*	*381.0*	–	–	–	–	–	–	–		
9¼	10½	8½	10¼	11¾	9½	10¾	12¼	10	11½	12¾	10½	–	–	–	–	–	–	S	
235.0	*266.7*	*215.9*	*260.4*	*298.5*	*241.3*	*273.1*	*311.2*	*254.0*	*292.1*	*323.9*	*266.7*	–	–	–	–	–	–		
11¼	12¾	10¾	12½	14	11¾	13	14½	12¼	13¾	15	12¾	14¾	–	–	–	–	–	T	8" *203.2mm*
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*	–	–	–	–	–		
12¾	14	12	13¾	15¼	13	14¼	15¾	13½	15	16¼	14	16¼	17 .5	–	–	–	–	F	
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*	–	–	–	–		
12¾	14	12	13¾	15¼	13	14¼	15¾	13½	15	16¼	14	16¼	17½	17½	–	–	–	T	10" *254.0mm*
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*	–	–	–		
14	15¼	13¼	15	16½	14¼	15½	17	14¾	16¼	17½	15¼	17½	18¾	18¾	20	–	–	F	
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*	–	–		
13¾	15	13	14¾	16¼	14	15¼	16¾	14½	16	17¼	15	17¼	18½	18½	19¾	19½	–	T	12" *304.8mm*
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*	–		
15½	16¾	14¾	16½	18	15¾	17	18¼	16¼	17¾	19	16¾	14	20¼	20¼	21½	21¼	29	F	
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*		

Channel Selection for Schedule 10 Sprinkler Pipe Trapeze Hangers

Note: Based on NFPA-13-2013-Table 9.1.1.7.1(a). Each of the following tables indicate the allowable span of the trapeeze 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 in³ (*cm³*)
P3000	0.154 *2.52*
P1000	0.202 *3.31*
P5500	0.391 *6.41*
P5000	0.628 *10.29*

Unistrut Channel	Section Modulus in³ (*cm³*)
P3001	0.431 *7.06*
P1001	0.572 *9.37*
P5501	1.153 *18.89*
P5001	1.916 *31.40*

Schedule 10 Pipe						
Nominal Pipe Dia. (in)	O.D. (in)	Wall Thickness (in)	I. D. (in)	Pipe Weight (p/f)	Water Weight (p/f)	Total Weight (p/f)
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

NFPA 13 Required Trapeze Section Modulus for Sch 10 Pipe												
Trapeze Span	Pipe Diameter 1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	0.08	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.15	0.18	0.26	0.34
2' - 0"	0.11	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.2	0.24	0.34	0.45
2' - 6"	0.14	0.14	0.15	0.16	0.18	0.21	0.23	0.25	0.3	0.36	0.5	0.69
3' - 0"	0.16	0.17	0.18	0.19	0.2	0.22	0.24	0.26	0.31	0.36	0.51	0.67
4' - 0"	0.22	0.22	0.24	0.25	0.27	0.30	0.32	0.34	0.41	0.48	0.68	0.89
5' - 0"	0.27	0.28	0.3	0.31	0.34	0.37	0.40	0.43	0.51	0.60	0.85	1.12
6' - 0"	0.33	0.34	0.35	0.38	0.41	0.44	0.48	0.51	0.61	0.71	1.02	1.34
7' - 0"	0.38	0.39	0.41	0.44	0.47	0.52	0.56	0.6	0.71	0.83	1.19	1.56
8' - 0"	0.43	0.45	0.47	0.5	0.54	0.59	0.63	0.68	0.82	0.95	1.36	1.79
9' - 0"	0.49	0.50	0.53	0.56	0.61	0.66	0.71	0.77	0.92	1.07	1.53	2.01
10' - 0"	0.54	0.56	0.59	0.63	0.68	0.74	0.79	0.85	1.02	1.19	1.7	2.23

Values taken from NFPA 13 (2013 Edition), Table 9.1.1.7.1(a)

Single Channel Trapeze for Sch 10 Pipe												
Trapeze Span	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	P5500	P5500	P5500	P5500	P5500	P5000	N/A
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	P5500	P5000	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A
8' - 0"	P5000	P5000	P5000	P5000	P5000	P5000	P5000	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	P5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Double Channel Trapeze for Sch 10 Pipe												
Trapeze Span	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	P1001	P5501
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	P5001	P5001
8' - 0"	P3001	P1001	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5001	P5001
9' - 0"	P1001	P1001	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5001	N/A
10' - 0"	P1001	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5501	P5501	P5001	N/A

Channel Selection for Schedule 40 Sprinkler Pipe Trapeze Hangers

Note: Based on NFPA-13-2013-Table 9.1.1.7.1(a). Each of the following tables indicate the allowable span of the trapeeze 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 in³ *(cm³)*
P3000	0.154 *2.52*
P1000	0.202 *3.31*
P5500	0.391 *6.41*
P5000	0.628 *10.29*

Unistrut Channel	Section Modulus in³ *(cm³)*
P3001	0.431 *7.06*
P1001	0.572 *9.37*
P5501	1.153 *18.89*
P5001	1.916 *31.40*

Schedule 40 Pipe						
Nominal Pipe Dia. (in)	O.D. (in)	Wall Thickness (in)	I. D. (in)	Pipe Weight (p/f)	Water Weight (p/f)	Total Weight (p/f)
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

NFPA 13 Required Trapeze Section Modulus for Sch 40 Pipe												
Trapeze Span	Pipe Diameter 1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"
1' - 6"	0.08	0.09	0.09	0.1	0.11	0.12	0.14	0.15	0.18	0.22	0.3	0.41
2' - 0"	0.11	0.11	0.12	0.13	0.15	0.16	0.18	0.2	0.24	0.29	0.4	0.55
2' - 6"	0.14	0.14	0.15	0.16	0.17	0.18	0.2	0.21	0.25	0.3	0.43	0.56
3' - 0"	0.16	0.17	0.18	0.2	0.22	0.25	0.27	0.3	0.36	0.43	0.6	0.82
4' - 0"	0.22	0.23	0.24	0.26	0.29	0.33	0.36	0.4	0.48	0.58	0.8	1.1
5' - 0"	0.27	0.29	0.3	0.33	0.37	0.41	0.45	0.49	0.6	0.72	1	1.37
6' - 0"	0.33	0.34	0.36	0.39	0.44	0.49	0.54	0.59	0.72	0.87	1.2	1.64
7' - 0"	0.38	0.4	0.43	0.46	0.52	0.58	0.63	0.69	0.84	1.01	1.41	1.92
8' - 0"	0.44	0.46	0.49	0.52	0.59	0.66	0.72	0.79	0.96	1.16	1.61	2.19
9' - 0"	0.49	0.51	0.55	0.59	0.66	0.74	0.81	0.89	1.08	1.3	1.81	2.47
10' - 0"	0.55	0.57	0.61	0.65	0.74	0.82	0.9	0.99	1.2	1.45	2.01	2.74

Values taken from NFPA 13 (2013 Edition), Table 9.1.1.7.1(a)

Single Channel Trapeze for Sch 40 Pipe												
Trapeze Span	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	P1000	P1000	P1000	P5500	P5500	P5000	P5000
3' - 0"	P1000	P1000	P1000	P1000	P5500	P5500	P5500	P5500	P5500	P5000	P5000	N/A
4' - 0"	P5500	P5500	P5500	P5500	P5500	P5500	P5000	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	P5000	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

Double Channel Trapeze for Sch 40 Pipe												
Trapeze Span	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	P3001	P1001
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	P5001
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	P5001	N/A
10' - 0"	P1001	P1001	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)*
⅜	0.577 *14.7*	0.497 *12.6*	0.23 *0.34*
½	0.706 *17.9*	0.626 *15.9*	0.29 *0.43*
¾	0.922 *23.4*	0.830 *21.1*	0.44 *0.65*
1	1.163 *29.5*	1.055 *26.8*	0.64 *0.95*
1¼	1.510 *38.4*	1.388 *35.3*	0.95 *1.41*
1½	1.740 *44.2*	1.618 *41.1*	1.10 *1.64*
2	2.197 *55.8*	2.075 *52.7*	1.40 *2.08*
2½	2.875 *73.0*	2.731 *69.4*	2.30 *3.42*
3	3.500 *88.9*	3.356 *85.2*	2.70 *4.02*
3½	4.000 *101.6*	3.834 *97.4*	3.40 *5.06*
4	4.500 *114.3*	4.334 *110.1*	4.00 *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)*
½	0.815 *20.7*	0.745 *18.9*	0.60 *0.89*	0.12 *0.18*
¾	1.029 *26.1*	0.954 *24.2*	0.82 *1.22*	1.13 *1.68*
1	1.290 *32.8*	1.205 *30.6*	1.16 *1.73*	1.82 *2.71*
1¼	1.638 *41.6*	1.553 *39.4*	1.50 *2.23*	2.67 *3.97*
1½	1.883 *47.8*	1.793 *45.5*	1.82 *2.71*	3.42 *5.09*
2	2.360 *59.9*	2.266 *57.6*	2.42 *3.60*	5.04 *7.50*
2½	2.857 *72.6*	2.727 *69.3*	4.01 *5.97*	7.75 *11.53*
3	3.476 *88.3*	3.346 *85.0*	4.43 *6.59*	10.69 *15.91*
3½	3.971 *100.9*	3.841 *97.6*	5.73 *8.53*	13.46 *20.03*
4	4.466 *113.4*	4.336 *110.1*	6.38 *9.49*	16.37 *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)*
¼"	⅜ *9.5*	0.375 *9.5*	0.030 *0.8*	0.126 *0.19*	0.034 *0.05*
⅜"	½ *12.7*	0.500 *12.7*	0.035 *0.9*	0.198 *0.29*	0.062 *0.09*
½"	⅝ *15.9*	0.625 *15.9*	0.040 *1.0*	0.285 *0.42*	0.100 *0.15*
⅝"	¾ *19.1*	0.750 *19.1*	0.042 *1.1*	0.362 *0.54*	0.151 *0.22*
¾"	⅞ *22.2*	0.875 *22.2*	0.045 *1.1*	0.455 *0.68*	0.209 *0.31*
1"	1⅛ *28.6*	1.125 *28.6*	0.050 *1.3*	0.655 *0.97*	0.357 *0.53*
1¼"	1⅜ *34.9*	1.375 *34.9*	0.055 *1.4*	0.884 *1.32*	0.546 *0.81*
1½"	1⅝ *41.3*	1.625 *41.3*	0.060 *1.5*	1.140 *1.70*	0.767 *1.14*
2"	2⅛ *54.0*	2.125 *54.0*	0.070 *1.8*	1.750 *2.60*	1.341 *2.00*
2½"	2⅝ *66.7*	2.625 *66.7*	0.080 *2.0*	2.480 *3.69*	2.064 *3.07*
3"	3⅛ *79.4*	3.125 *79.4*	0.090 *2.3*	3.330 *4.96*	2.949 *4.39*
3½"	3⅝ *92.1*	3.625 *92.1*	0.100 *2.5*	4.290 *6.38*	3.989 *5.94*
4"	4⅛ *104.8*	4.125 *104.8*	0.110 *2.8*	5.380 *8.01*	5.188 *7.72*
5"	5⅛ *130.2*	5.125 *130.2*	0.125 *3.2*	7.610 *11.32*	8.081 *12.03*
6"	6⅛ *155.6*	6.125 *155.6*	0.140 *3.6*	10.200 *15.18*	11.616 *17.29*
8"	8⅛ *206.4*	8.125 *206.4*	0.200 *5.1*	19.290 *28.71*	20.289 *30.19*
10"	10⅛ *257.2*	10.125 *257.2*	0.250 *6.4*	30.100 *44.79*	31.590 *47.01*
12"	12⅛ *308.0*	12.125 *308.0*	0.280 *7.1*	40.400 *60.12*	45.426 *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)*
¼"	⅜ *9.5*	0.375 *9.53*	0.035 *0.89*	0.145 *0.22*	0.032 *0.05*
⅜"	½ *12.7*	0.500 *12.70*	0.005 *0.13*	0.269 *0.40*	0.055 *0.08*
½"	⅝ *15.9*	0.625 *15.88*	0.049 *1.24*	0.344 *0.51*	0.094 *0.14*
⅝"	¾ *19.1*	0.750 *19.05*	0.049 *1.24*	0.418 *0.62*	0.144 *0.21*
¾"	⅞ *22.2*	0.875 *22.23*	0.065 *1.65*	0.641 *0.95*	0.188 *0.28*
1"	1⅛ *28.6*	1.125 *28.58*	0.065 *1.65*	0.839 *1.25*	0.337 *0.50*
1¼"	1⅜ *34.9*	1.375 *34.93*	0.065 *1.65*	1.040 *1.55*	0.527 *0.78*
1½"	1⅝ *41.3*	1.625 *41.28*	0.072 *1.83*	1.360 *2.02*	0.743 *1.11*
2"	2⅛ *54.0*	2.125 *53.98*	0.083 *2.11*	2.060 *3.07*	1.310 *1.95*
2½"	2⅝ *66.7*	2.625 *66.68*	0.095 *2.41*	2.920 *4.35*	2.000 *2.98*
3"	3⅛ *79.4*	3.125 *79.38*	0.109 *2.77*	4.000 *5.95*	2.960 *4.40*
3½"	3⅝ *92.1*	3.625 *92.08*	0.120 *3.05*	5.120 *7.62*	3.900 *5.80*
4"	4⅛ *104.8*	4.125 *104.78*	0.134 *3.40*	6.510 *9.69*	5.060 *7.53*
5"	5⅛ *130.2*	5.125 *130.18*	0.160 *4.06*	9.670 *14.39*	8.000 *11.91*
6"	6⅛ *155.6*	6.125 *155.58*	0.192 *4.88*	13.870 *20.64*	11.200 *16.67*
8"	8⅛ *206.4*	8.125 *206.38*	0.271 *6.88*	25.900 *38.54*	19.500 *29.02*
10"	10⅛ *257.2*	10.125 *257.18*	0.338 *8.59*	40.300 *59.97*	30.423 *45.27*
12"	12⅛ *308.0*	12.125 *307.98*	0.405 *10.29*	57.800 *86.02*	43.675 *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 Lead Covered Lbs/Ft *(kg/m)*	Not Lead Covered Lbs/Ft *(kg/m)*
½	0.622 *15.8*	0.840 *21.3*	1.063 *27.0*	0.85 *1.26*	1.20 *1.79*	1.00 *1.49*
¾	0.824 *20.9*	1.050 *26.7*	1.297 *32.9*	1.13 *1.68*	1.80 *2.68*	1.40 *2.08*
1	1.049 *26.6*	1.315 *33.4*	1.563 *39.7*	1.68 *2.50*	2.60 *3.87*	2.30 *3.42*
1¼	1.380 *35.1*	1.660 *42.2*	1.969 *50.0*	2.28 *3.39*	4.30 *6.40*	3.60 *5.36*
1½	1.610 *40.9*	1.900 *48.3*	2.234 *56.7*	2.73 *4.06*	5.90 *8.78*	4.50 *6.70*
2	2.067 *52.5*	2.375 *60.3*	2.719 *69.1*	3.68 *5.48*	8.50 *12.65*	7.20 *10.71*
2½	2.469 *62.7*	2.875 *73.0*	3.313 *84.2*	5.82 *8.66*	11.50 *17.11*	10.20 *15.18*
3	3.068 *77.9*	3.500 *88.9*	3.938 *100.0*	7.62 *11.34*	16.50 *24.55*	14.50 *21.58*
3½	3.548 *90.1*	4.000 *101.6*	4.438 *112.7*	9.20 *13.69*	19.00 *28.28*	17.50 *26.04*
4	4.026 *102.3*	4.500 *114.3*	4.938 *125.4*	10.89 *16.21*	24.80 *36.91*	21.50 *32.00*
5	5.047 *128.2*	5.563 *141.3*	6.296 *159.9*	14.81 *22.04*	35.90 *53.43*	30.80 *45.84*
6	6.065 *154.1*	6.625 *168.3*	7.358 *186.9*	19.19 *28.56*	50.70 *75.45*	43.40 *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 *12.7 - 19.1*	10 *3.05*
1 *25.4*	12 *3.66*
1¼- 1½ *31.8 - 38.1*	14 *4.27*
2- 2½ *50.8 - 63.5*	16 *4.88*
3 & larger *76.2 - Larger*	20 *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 *13.7*	0.354 *9.0*	0.081 *0.12*	0.12 *0.18*
⅜	0.675 *17.1*	0.483 *12.3*	0.109 *0.16*	0.19 *0.28*
½	0.840 *21.3*	0.608 *15.4*	0.161 *0.24*	0.29 *0.43*
¾	1.050 *26.7*	0.810 *20.6*	0.214 *0.32*	0.44 *0.65*
1	1.315 *33.4*	1.033 *26.2*	0.315 *0.47*	0.68 *1.01*
1¼	1.660 *42.2*	1.364 *34.6*	0.426 *0.63*	1.06 *1.58*
1½	1.900 *48.3*	1.592 *40.4*	0.509 *0.76*	1.37 *2.04*
2	2.375 *60.3*	2.049 *52.0*	0.682 *1.01*	2.11 *3.14*
2½	2.875 *73.0*	2.445 *62.1*	1.076 *1.60*	3.11 *4.63*
3	3.500 *88.9*	3.042 *77.3*	1.409 *2.10*	4.55 *6.77*
4	4.500 *114.3*	3.998 *101.5*	2.006 *2.99*	7.44 *11.07*
6	6.625 *168.3*	6.031 *153.2*	3.535 *5.26*	15.90 *23.66*
8	8.625 *219.1*	7.943 *201.8*	5.305 *7.89*	26.75 *39.81*
10	10.750 *273.1*	9.976 *253.4*	7.532 *11.21*	41.35 *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)
⅛	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
¼	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
⅜	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
½	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
¾	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
1¼	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
1½	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
2½	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
3½	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
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
	160	4.500 114.3	3.438 87.3	22.48 33.45	26.51 39.45
5	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
	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
6	40	6.625 168.3	6.065 154.1	18.95 28.20	31.48 46.85
	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
	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
	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
10	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
	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
	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