CARRIER PNEUMATIC COMPONENTS

METAL / PVC TUBING, BENDS, COUPLINGS, FITTINGS & ACCESSORIES



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H-P Products, Inc. is the leading supplier of tubular components for carrier pneumatic systems. We have... "Thousands of solutions under one roof".

TUBING

Our standard catalog items include tube sizes from 2-1/4" through 6" OD, plus 4" x 7" oval in zinc-coated (galvanized) steel. Also, these metal parts are "ID Friendly" with our PVC line of tubular parts also featured. With "Thousands of solutions under one roof", H-P Products, Inc. gives you maximum flexibility in designing a system with metal and PVC applications.

Tube Dimensions							
14 Gauge 16 Gauge 18 Gauge 20 Gauge	= = =	.083" .065" .049" .035"					

OVERALL BENDING CAPABILITIES

Tube Bending Capabilities

OD (INCHES)	CENTER LINE RADIUS (INCHES)	GAUGE	WALL THICKNESS (INCHES)
1-1/2	1-3/4, 2-1/2, 3, 3-1/4, 4, 6, 7-1/2, 9, 12, 15, 18, 24, 30, 36	11, 14, 16, 18	.120, .083, .065, .049
1-5/8	2-1/8	16	.065
1-3/4	2-1/2, 8, 9, 12, 15, 18, 24, 30, 36	11, 14, 16	.120, .083, .065
2	2, 2-1/2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 18, 24, 30, 36, 48	11, 14, 16, 18, 20	.120, .083, .065, .049, .035
2-1/8	2-7/8, 3-1/2, 4-1/4, 5, 18, 20, 24, 36	11, 16	.120, .065
2-1/4	2-1/2, 3, 4, 5-1/2, 8, 9, 12, 15, 18, 24, 30, 36, 42	11, 13, 14, 16, 18, 20	.120, .095, .083, .065, .049, .035
2-3/8	2-3/8, 6, 8	16, 18	.065, .049
2-1/2	2-1/2, 3-1/4, 3-3/4, 4, 5, 6, 9, 12, 15, 18, 24, 30, 36, 48	11, 13, 14, 16	.120, .095, .083, .065, .049
2-3/4	2-3/4, 3-7/8, 9, 15, 24, 30	11, 14, 16, 18	.120, .083, .065, .049
2-7/8	10, 10-1/2, 60	15, 16	.072, .065
3	3, 4-1/2, 6, 7-1/2, 9, 12, 15, 18, 24, 30, 36, 38, 48	11, 12, 13, 14, 16, 18	.120, .109, .095, .083, .065, .049
3-1/8	6	16	.065
3-1/2	4, 5, 8, 8-3/4, 9, 12, 13, 15, 18, 24, 30, 36, 48, 60	11, 14, 15, 16, 18	.120, .083, .072, .065, .049
4	4, 6, 8, 9, 10, 12, 18, 24, 30, 32, 36, 48, 60	10, 11, 14, 16, 18	.134, .120, .083, .065, .049
4-1/4	60	11, 13, 14	.120, .095, .083
4-1/2	9, 12, 16, 18, 20, 24, 30, 32, 36, 48, 60	11, 14, 16	.120, .083, .065
5	7-1/2, 12, 12-1/2, 18, 24, 30, 36, 48, 60, 72	10, 11, 14, 16	.134, .120, .083, .065
6	9, 15, 24, 30, 36, 48, 60, 72	10, 11, 14, 16	.134, .120, .083, .065
8	12, 20, 32, 48, 60, 72	11, 14	.120, .083
10	32, 48, 60, 72	11, 12	.120, .109
4 x 7	48, 60	16	.065

OD = Outside Diameter

ID = Inside Diameter

ERW = Electric Welded Resistance

NPS = Nominal Pipe Size

All reference dimensions are nominal.

Services

Pipe Bending Capabilities

NPS	OD	CENTER LINE RADIUS	SCHEDULE (INCHES)				HES)
(INCHES)	(INCHES)	(INCHES)	5	10	40	80	OTHER
1-1/4	1.660	5, 12, 18	-	-	.140	-	-
1-1/2	1.900	6, 9, 12, 18, 36	-	-	.145	-	.200
2	2.375	6, 8, 12, 18, 24, 30, 36, 48	.065	.109	.154	.218	.218
2-1/2	2.875	9, 10, 10-1/2, 12, 24, 30, 36, 48	.083	.120	.203	.276	-
3	3.500	5, 8, 8-3/4, 9, 12, 13, 15, 18, 24, 30, 36, 48, 60	.083	.120	.216	.300	.188
3-1/2	4.000	6, 8, 9, 10, 12, 18, 24, 30, 36, 48, 60	.083	.120	-	.300	-
4	4.500	9, 12, 16, 18, 20, 24, 30, 36, 48, 60	.083	.120	.237	.337	.188, .337
5	5.563	24, 30, 36, 48, 60, 72	-	.134	.258	.375	-
6	6.625	24, 30, 36, 48, 60, 72	-	.134	.280	.432	.188, .250
8	8.625	32, 48, 60, 72	-	.148	.322	-	.188, .250

CATALOG PART VARIATIONS

If our standard items don't meet your needs, contact us for immediate assistance Custom tube fabrications are available to meet your exact specifications.

SPECIAL SERVICE

Please call for additional details on this application:

Tapecoat

For additional corrosion protection underground, we can apply a tar-backed tape to the outside of the part.

DELIVERY

Fast delivery is available on a wide selection of in-stock MetFlo Tubing, Bends, Couplings, Fittings and Installation Components. We'll also make every effort to meet emergency requirements for non-stock items.

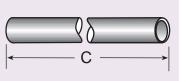


Specifications subject to change without notice, without incurring any obligation on our part.



Standard Tubing





Standard Tubing (Straight End)

Standard Tubing (Straight Ends)

• Zinc-Coated (Galvanized) Steel

OD	C LENGTH	NOMINAL WALL THICKNESS	GAUGE	PART NUMBER			
2-1/4″	12' 6"	.035"	20	29012			
3"	12' 6"	.049"	18	39012			
4"	12' 6"	.065"	16	49012			
4"	10'	.065"	16	49010			
4-1/2"	12' 6"	.065"	16	45012			
4-1/2"	10'	.065"	16	45010			
5"	10'	.083"	14	59010			
6"	12' 6"	.065"	16	69012			
6"	10'	.065"	16	69010			
4" x 7"	10'	.065"	16	79010			
• OUR STANDARD STOCK IS IN 10' AND 12'6" LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS							

Standard Tubing (One End Expanded)*

• Zinc-Coated (Galvanized) Steel

OD	C LENGTH	D EXP DEPTH	NOMINAL WALL THICKNESS	GAUGE	PART NUMBER	
2-1/4"	12' 6"	1-3/4"	.035"	20	29000	
3"	12' 6"	2-1/8″	.049"	18	39000	
4"	12' 6"	3-3/4″	.065"	16	49000	
4"	10'	3-3/4"	.065"	16	49010-1	
4-1/2"	12' 6"	3-3/4″	.065"	16	45000	
4-1/2"	10'	3-3/4"	.065"	16	45010-1	
5"	10'	4"	.083"	14	59010-1	
6"	12' 6"	4-3/4"	.065"	16	69000	
6"	10'	4-3/4"	.065"	16	69010-1	
4" x 7"	10'	4-3/4"	.065"	16	79010-1	
OUR STANDARD STOCK IS IN 10' AND 12'6" LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS * ID OF EXPANSION = TUBE OD						

OD = Outside Diameter

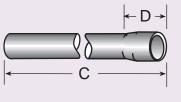
EXP = Expansion

ID = Inside Diameter

KEY CLR = Center Line Radius

TAN = Tangent

All reference dimensions are nominal.



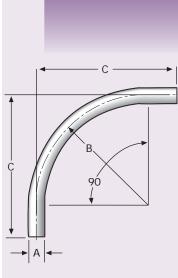
Standard Tubing (One End Expanded)

Standard Long Radius Bends

Straight Ends

• Zinc-Coated (Galvanized) Steel

<u>^</u>	6	0	T ^ NI		DADT
A OD	B CLR	С	TAN	GAUGE	PART NUMBER
2-1/4″	18"	23"	3-7/8″	20	29218
2-1/4″	24"	31-1/4″	6-1/8″	20	29224
2-1/4″	42"	53"	6"	20	29242
3"	24"	31-1/2"	6"	18	39224
3"	30"	37-1/2"	6"	18	39230
3"	38"	50"	8-1/4″	18	39238
3"	48"	62-3/4″	13-1/4″	18	39248
4"	36"	49-1/2″	11-7/16″	16	49236
4"	48"	63-1/4″	13-1/4″	16	49248
4"	60"	74"	12"	16	49260
4-1/2"	20"	27-7/8″	5-5/16″	16	45220
4-1/2"	24"	37-3/4″	11-1/2″	16	45224
4-1/2″	30"	43-3/4″	11-1/2″	16	45230
4-1/2"	48"	63-1/2″	13-1/4″	16	45248
4-1/2"	60"	75-1/8″	12-7/8″	16	45260
6"	30"	46-1/2″	13-1/2″	16	69230
6″	36″	48″	12″	16	69236
6"	48"	73-3/8″	22-3/8"	16	69248
6"	60"	75-7/8″	12-7/8″	16	69260
4"x 7"(FLAT BEND)	48"	74-1/8″	24"	16	70248*
4"x 7" (EDGE BEND)	48"	74-1/8″	24"	16	7E248**
4"x 7" (FLAT BEND)	60″	84″	24″	14	70260*
4"x 7" (edge bend)	60″	_84″	24″	14	7E260**
* NEUTRAL AXIS TH ** NEUTRAL AXIS TH					



90° Long Radius Bend (Straight End)

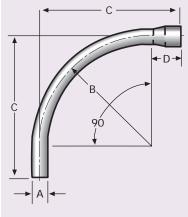
Air Relief Bends are Available

One End Expanded (ID of Expansion = Tube OD)

• Zinc-Coated (Galvanized) Steel

•	D	0	D		CALLOF	DADT
A OD	B CLR	С	D EXP DEPTH	TAN	GAUGE	PART NUMBER
2-1/4″	18"	23"	1-3/4″	3-7/8″	20	29218-1
2-1/4″	24"	31-1/4″	1-3/4″	6-1/8″	20	29224-1
2-1/4"	42"	53"	1-3/4″	6"	20	29242-1
3"	24"	31-1/2″	2-1/8″	6"	18	39224-1
3"	30"	37-1/2″	2-1/8″	6"	18	39230-1
3"	38"	50"	2-1/8″	8-1/4″	18	39238-1
3"	48"	62-3/4″	2-1/8″	13-1/4″	18	39248-1
4"	36"	49-1/2″	3-3/4″	11-7/16″	16	49236-1
4"	48"	63-1/4″	3-3/4"	13-1/4″	16	49248-1
4"	60"	74"	3-3/4"	12"	16	49260-1
4-1/2"	20"	27-7/8″	3-3/4"	5-5/16"	16	45220-1
4-1/2″	24"	37-3/4″	3-3/4"	11-1/2″	16	45224-1
4-1/2"	30"	43-3/4"	3-3/4"	11-1/2″	16	45230-1
4-1/2"	48"	63-1/2″	3-3/4"	13-1/4″	16	45248-1
4-1/2"	60"	75-1/8″	3-3/4"	12-7/8″	16	45260-1
6"	30"	46-1/2″	4-3/4"	13-1/2″	16	69230-1
6″	36″	48″	4-3/4"	12″	16	69236-1
6"	48"	73-3/8″	4-3/4"	22-3/8″	16	69248-1
6"	60"	75-7/8″	4-3/4"	12-7/8″	16	69260-1
4"x7"(FLAT BEND)	48"	74-1/8″	4-3/4"	24"	16	70248-1*
4"x7"(edge bend)	48"	74-1/8″	4-3/4"	24"	16	7E248-1**
		N				

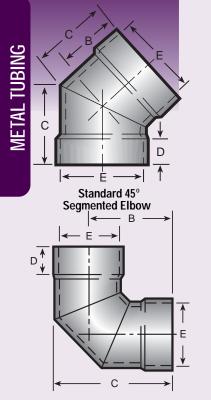
* NEUTRAL AXIS THRU 7" DIMENSION ** NEUTRAL AXIS THRU 4" DIMENSION



90° Long Radius Bend (One End Expanded)

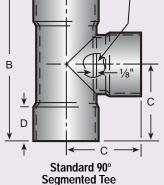


Standard Fittings



Standard 90° Segmented Elbow

> GUIDE: 1/8 x 1/4 Or 3/16 X 3/8 F



Е D В

Standard Windgate

Standard 45° Segmented Elbows

· Zinc-Coated (Galvanized) Steel

E ID	B CENTER TO END	С	D EXP DEPTH	GAUGE	PART NUMBER
2-1/4″	2-1/8″	2-9/16″	1-1/4″	20	29101
3"	2-5/8″	3-1/4″	1-1/4″	16	39101
4"	2-7/8″	3-11/16″	1-1/4″	16	49101
5"	3-5/8"	4-5/8″	1-1/2″	14	59101
6"	3-3/4"	5"	1-1/2″	14	69101

Standard 90° Segmented Elbows

· Zinc-Coated (Galvanized) Steel

E ID	B CENTER TO END	С	D EXP DEPTH	GAUGE	PART NUMBER
2-1/4″	3-1/4"	4-3/8"	1-1/4″	20	29202
3"	3-7/8″	5-3/8″	1-1/4″	16	39202
4"	4-15/16"	6-15/16″	1-1/4″	16	49202*
5"	5-3/8″	7-7/8″	1-1/2″	14	59202
6"	6"	9"	1-1/2″	14	69202
* NOT SEGMEN	NTED				

Standard 90° Segmented Tees

• Zinc-Coated (Galvanized) Steel

E ID	В	С	D EXP DEPTH	GAUGE	PART NUMBER
2-1/4″	5-3/4″	2-7/8″	1-1/4″	20	29303
3"	6-1/2″	3-1/4″	1-1/4″	18	39303
4"	7-3/4″	3-7/8″	1-1/4″	16	49303
4-1/2"	7-1/2″	3-3/4"	1-1/4″	16	45303*
6"	12"	6"	1-1/2″	16	69303
* BRANCH IS 4" ID,	, CENTER TO END 5"				

Standard Windgates

• Zinc-Coated (Galvanized) Steel

E ID	B LENGTH	D EXP DEPTH	GAUGE	PART NUMBER
2-1/4″	5"	1-1/4″	20	WG-290
3"	5"	1-1/4″	18	WG-390
4"	5"	1-1/4″	16	WG-490

ID = Inside Diameter

EXP = Expansion

KEY OD = Outside Diameter

All reference dimensions are nominal.

Standard Fittings

Standard Segmented Bypass

• Zinc-Coated (Galvanized) Steel

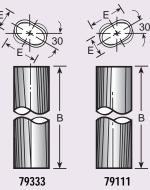
E ID	В	С	D EXP DEPTH	GAUGE	PART NUMBER
2-1/4″	6-1/2"	3"	1-1/4″	20	29404
3"	7-3/4″	4-1/4"	1-1/4″	18	39404
4"	8-11/16″	5-1/2″	1-1/4″	16	49404
4-1/2"	9"	6"	1-1/4″	16	45404
6"	13-1/2″	8"	1-1/2″	16	69404

Standard 30° Twists

- Cross section nominal 4" x 7" 16 gauge.
- Zinc-Coated (Galvanized) Steel.

E ID	В	TWIST	PART NUMBER
4" x 7"	60"	Clockwise (Right Hand)	79111
4" x 7"	60"	Counter Clockwise (Left Hand)	79333
• EXPANDED ENDS NO			





Standard 30° Twists

Standard Tube Caps

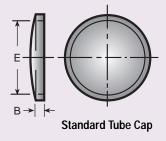
 Zinc-Coated 	(Galvanized)	Steel
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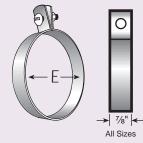
E ID	В	GAUGE	PART NUMBER
2-1/4"	1/2"	18	TC-290
3"	1/2"	18	TC-390
4"	7/16″	18	TC-490
4-1/2"	1-5/16″	18	TC-450
6"	1-5/16″	14	TC-690
4"x 7"	1"	16	2044

Standard Tube Hangers

• Nut and bolt included.

FOR TUBE OD SIZE	E ID	GAUGE	PART NUMBER
2-1/4"	2-1/4"	16	TH-212
3"	3"	16	TH-300
4"	4"	16	TH-400
4-1/2"	4-1/2"	16	TH-450
5"	5"	16	TH-500
6"	6"	16	TH-600

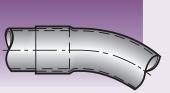




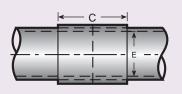
Standard Tube Hanger



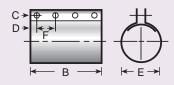
Methods of Joining



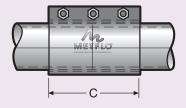
Expanded Fitting



Solid Sleeve



Clamp Sleeve



MetFlo[™] Compression Coupling

PSIG = Pounds Per Sq. Inch In Gravity ID = Inside Diameter EXP = Expansion OD = Outside Diameter

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Expanded Fitting

Zinc-Coated (Galvanized) Steel. This type of connection enables a straight section of tubing to slip inside the expanded end of the fitting. The two pieces can then be "locked" together by any one of several techniques - brazing, welding, industrial adhesive, or shrink sleeve. For use in low pressure (under 15 PSIG) systems.

Standard Solid Sleeves

Zinc-Coated (Galvanized) Steel. Can be used for joining any two straight ends of tubing or fittings. The solid sleeve is a slip coupling that fits the OD of the joint which can then be glued, brazed, welded, or covered by a shrink sleeve. For use in low pressure (under 15 PSIG) systems.

C LENGTH	E ID	GAUGE	PART NUMBER
3-1/2"	2-1/4"	20	29003
4"	3"	18	39003
5"	4"	16	49003
5"	4-1/2"	16	45003
6"	5"	14	59003
6"	6"	16	69003
6"	4"x7"	16	79003

Clamp Sleeves or Compression Couplings

Zinc-Coated (Galvanized) Steel. Offers easy "tear down" function. Straight end tubing or fittings butt together within the ID of the coupling or sleeve, and the joint is mechanically locked simply by tightening the bolts which are included. For use in low pressure (under 15 PSIG) systems.

Standard Clamp Sleeves

Zinc-Coated (Galvanized) Steel. Bolt holes are 9/32". Nuts and bolts are included. For use in low pressure (under 15 PSIG) systems.

		, ,	3			
E ID	B LENGTH	C NO. OF HOLES	D*	F**	GAUGE	PART NUMBER
2-1/4″	4"	3	1/2″	1-1/2″	20	CS-290
3"	4"	3	1/2″	1-1/2"	20	CS-390
4"	5"	4	1/4″	1-1/2″	20	CS-490
4-1/2"	5"	4	1/4″	1-1/2″	20	CS-450
6"	5-7/8″	4	5/16″	1-3/4″	18	CS-690
4"x 7"	5-7/8″	4	5/16″	1-3/4″	16	CS-790
*DIMENSION D =	DISTANCE CENTER	ROUTSIDE HOLE TO END	** DIMESION F =	DISTANCE BETWE	EN CENTER OF I	HOLES

MetFlo[™]Compression Couplings

Zinc-Coated (Galvanized) Steel. With black neoprene liner & stainless steel grounding strip. For use in low pressure (under 15 PSIG) systems.

5 1	1 1	/ /	
FOR TUBE OD SIZE	NO. OF BOLTS	C LENGTH	PART NUMBER
2-1/4"	3	6"	22503B10
3"	3	6"	30003B10
4"	3	6"	40003B10
4-1/2"	3	6"	45003B10
5″	3	8″	50003B10
5"	4	8"	50004B10
6"	3	8″	60003B10
6"	4	8"	60004B10

Can't Find What You Need? Call Us! Catalog Part Variations Available Upon Request.

Shrink Sleeve

A heat shrinkable polyolefin band that literally shrinks and encircles the connection giving it mechanical strength and a positive seal. It can be used in conjunction with a solid sleeve or when using expanded fittings. Either way, gluing, brazing, and welding are eliminated. For use in low pressure (under 15 PSIG) systems.

Shrink Sleeves (4" Long)

FOR TUBE OD SIZE	PART NUMBER
2-1/4"	SS-212
3"	SS-300
4"	SS-400
4-1/2"	SS-450
5"	SS-500
6" & 4"x 7"	SS-600



<u>METAL TUBING</u>

Shrink Sleeve / Protective Sleeve

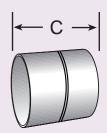
Protection Sleeves (18" Long)

A heat shrinkable polyethelene band that literally shrinks and encircles the joint. It is primarily used for underground joint protection. For use in low pressure (under 15 PSIG) systems.

PART NUMBER
PS-212
PS-300
PS-400
PS-450
PS-500
PS-600

Standard Adapters (PVC to Metal)*

FOR TUBE OD SIZE	C LENGTH	PART NUMBER		
4"	2-1/2"	PMA-400		
4-1/2"	2-1/2"	PMA-450		
* ADAPTERS ARE PVC MATERIAL. • SEE PAGES 10-15 FOR PVC COMPONENTS.				



Adapter



PVC TUBING

Our PVC product line offers you a choice of standard catalog items in 4" and 4-1/2" OD sizes. And these PVC parts are "ID friendly" with our corresponding metal line of tubular components featured in this catalog. With "Thousands of solutions under one roof", H-P Products, Inc. gives you maximum flexibility in designing a system with metal and PVC applications!

OUR MetFIo[™] PVC TUBING & FITTINGS ARE:

- "ID Friendly" with metal tube
- Lightweight
- Non-corrosive
- Easy to assemble into offsets
- Economical to install
- Wrinkle-free bends with a uniform ID throughout

MATERIAL <u>SPECIFICATIONS:</u>

- 1120 Type 1, Grade1, Gray Rigid PVC
- 4" OD parts are 3.875" ID
- 4-1/2" OD Parts are 4.385" ID

Standard Tubing (Straight Ends)

Standard PVC Tubing

OD	C (LENGTH)	WALL THICKNESS	PART NUMBER
4"	10'	.120"	P40010
4"	12'	.120"	P40012
4.5"	10'	.120"	P45010
4.5"	12'	.120"	P45012
OUR STANDARD STOC	CK IN 10' AND 12' LENGTHS, BUT WE WIL	L CUT TO YOUR SPECIFICATIONS	

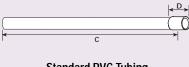
Standard Tubing (Slip Coupling One End*)

Standard PVC Tubing

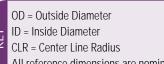
© 1999 H-P Products, Inc.

OD	C (LENGTH)	D	WALL THICKNESS	PART NUMBER	
4"	10'	5"	.120"	P40010-C	
4"	12'	5"	.120"	P40012-C	
4.5"	10'	5"	.120"	P45010-C	
4.5"	12'	5"	.120"	P45012-C	
	OUR STANDARD STOCK IN 10' AND 12' LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS * SLIP COUPLING EXTENDS 2-1/2'' BEYOND TUBE LENGTH (C).				

Standard PVC Tubing (Straight End)



Standard PVC Tubing (Slip Coupling One End)



All reference dimensions are nominal.

PVC TUBING

Standard PVC Long Radius Bends

15° Long Radius Bends

Standard PVC Tubing

OD	CLR	С	D	WALL THICKNESS	PART NUMBER
4"	48"	10.25"	-	.120"	P401548
4.5"	20"	6.5"	-	.120"	P451520
4"	48"	10.25"	5"	.120"	P401548-C*
4.5"	20"	6.5"	5"	.120"	P451520-C*
* SLIP COUPLIN	* SLIP COUPLING ONE END. EXTENDS 2.5" BEYOND TUBE LENGTH (C).				

SLIP COUPLING ONE END. EXTENDS 2.5" BEYOND
 NOMINAL STANDARD TANGENT IS 4"

22.5° Long Radius Bends

Standard PVC Tubing

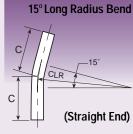
OD	CLR	С	D	WALL THICKNESS	PART NUMBER
4"	48"	13.5"	-	.120"	P4022548
4"	48"	13.5"	5"	.120"	P4022548-C*
	NG ONE END. EXTENDS		NGTH (C).		

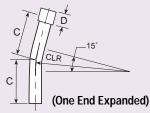
30° Long Radius Bends

Standard PVC Tubing

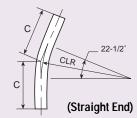
OD	CLR	С	D	WALL THICKNESS	PART NUMBER
4"	48"	17"	-	.120"	P403048
4.5"	20"	9.25"	-	.120"	P453020
4"	48"	17"	5"	.120"	P403048-C*
4.5"	20"	9.25"	5"	.120"	P453020-C*
	* SLIP COUPLING ONE END. EXTENDS 2.5" BEYOND TUBE LENGTH (C).				

NOMINAL STANDARD TANGENT IS 4"





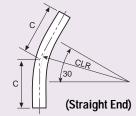
22.5° Long Radius Bend

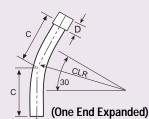




(One End Expanded)

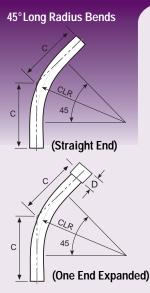
30° Long Radius Bend



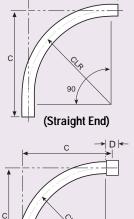




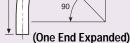
Standard PVC Long Radius Bends



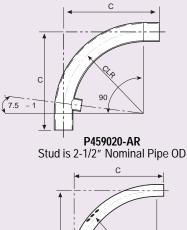




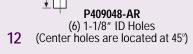
PVC TUBING



90° Long Radius Bend with Air Relief



C



45° Long Radius Bends

Standard PVC Tubing

OD	CLR	С	D	WALL THICKNESS	PART NUMBER
4"	48"	24"	-	.120"	P404548
4.5"	20"	12.25"	-	.120"	P454520
4"	48"	24"	5"	.120"	P404548-C*
4.5"	20"	12.25"	5"	.120"	P454520-C*
	ONE END. EXTENDS 2.	5" BEYOND TUBE LEN	GTH (C).		

90° Long Radius Bends

Standard PVC Tubing

OD	CLR	С	D	WALL THICKNESS	PART NUMBER
4"	48"	52"	-	.120"	P409048
4.5"	20"	24"	-	.120"	P459020
4"	48"	52"	5"	.120"	P409048-C*
4.5"	20"	24"	5"	.120"	P459020-C*
	ONE END. EXTENDS 2.5	" BEYOND TUBE LE	NGTH (C).		

90° Long Radius Bends with Air Relief

- Standard PVC Tubing
- · Part variations are easily accommodated.

OD	CLR	С	D	WALL THICKNESS	PART NUMBER
4"	48"	52"	-	.120"	P409048-AR
4.5"	20"	24"	-	.120"	P459020-AR
NOMINAL STAI	NDARD TANGENT IS 4"				

OD = Outside Diameter CLR = Center Line Radius ID = Inside Diameter

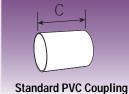
KEY

Methods of Joining PVC

Standard PVC Couplings

Standard PVC Tubing

SIZE	C (LENGTH)	WALL THICKNESS	PART NUMBER	DESCRIPTION
4"	5"	.120"	P40003	
4.5"	5"	.120"	P45003	
4.5″	5″	.120″	P45103	Clear and Tapered



Standard PVC Adhesive

DESCRIPTION	PART NUMBER
1/2 pint can, PVC adhesive	P2862

Standard Adapters (PVC to Metal)

Standard PVC Tubing

SIZE	C (LENGTH)	PART NUMBER
4"	2.5"	PMA-400
4.5"	2.5"	PMA-450

Standard Adapter (PVC to Acrylic)

Standard PVC Tubing

SIZE	C (LENGTH)	PART NUMBER
4.5"	2.5"	PAA-450

Standard Plastic Hangers



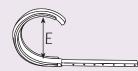
Standard Metal Hangers

- Zinc-coated (Galvanized)
- 16 Gauge Steel

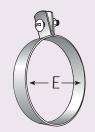
E (ID)	PART NUMBER
4"	TH-400
4.5"	TH-450



Standard PVC Adapter



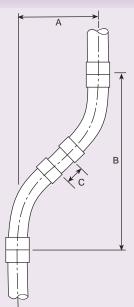
Standard Plastic Hanger



Standard Metal Hanger



Offset Chart for PVC 4" OD Tube Systems



OD = Outside Diameter TAN = Tangent CLR = Center Line Radius All reference dimensions are nominal. A = Vertical or Horizontal offset B = Min. distance needed for offset C = Length of straight between bends

90° / 48" CLR / 4" TAN

А	В	С
8' - 8"	8' - 8"	0"
9' - 1-1/4"	8' - 8"	5-1/4"

45° / 48" CLR / 4" TAN

A	В	С
2' - 9-3/4"	6' - 9-9/16"	0
3' - 1-1/2"	7' - 1-1/4"	5-1/4"
3' - 2"	7' - 1-3/4"	6"
3' - 3"	7' - 2-3/4"	7-3/8"
3' - 4"	7' - 3-3/4"	8-13/16"
3' - 5"	7' - 4-3/4"	10-3/16"
3' - 6"	7' - 5-3/4"	11-5/8"
3' - 7"	7' - 6-3/4"	13-1/16"
3' - 8"	7' - 7-3/4"	14-7/16"
3' - 9"	7' - 8-3/4"	15-7/8"
3' - 10"	7' - 9-3/4"	17-5/16"
4'	7' - 11-3/4"	20-1/8"
4' - 2"	8' - 1-3/4"	22-15/16"
4' - 4"	8' - 3-3/4"	25-3/4"
4' - 6"	8' - 5-3/4"	28-5/8"
4' - 8"	8' - 7-3/4"	31-7/16"
5'	8' - 11-3/4"	37-1/16"

30° / $48^{"}$ CLR / 4" TAN

А	В	С
1' - 4-7/8"	5' - 2-15/16"	0"
1' - 7-1/2"	5' - 7-1/2"	5-1/4"
1' - 8"	5' - 8-3/8"	6-1/4"
1' - 9"	5' - 10-1/8"	8-1/4"
1' - 10"	5' - 11-13/16"	10-1/4"
1' - 11"	6' - 1-9/16"	12-1/4"
2'	6' - 3-5/16"	14-1/4"
2' - 1"	6' - 5"	16-1/4"
2' - 2"	6' - 6-3/4"	18-1/4"
2' - 3"	6' - 8-1/2"	20-1/4"
2' - 4"	6' - 10-1/4"	22-1/4"
2' - 6"	7' - 1-11/16"	26-1/4"
2' - 8"	7' - 5-1/8"	30-1/4"
2' - 10"	7' - 8-5/8"	34-1/4"
3'	8' - 1/16"	38-1/4"
3' - 2"	8' - 3-9/16"	42-1/4"
3' - 4"	8' - 7"	46-1/4"

22.5° / 48" CLR / 4" TAN

А	В	С
10-3/8"	4' - 4-1/8"	0"
1' - 3/8"	4' - 9"	5-1/4"
1' - 1"	4' - 10-1/2"	6-7/8"
1' - 2"	5' - 7/8"	9-1/2"
1' - 3"	5' - 3-5/16"	12-1/8"
1' - 4"	5' - 5-3/4"	14-11/16"
1' - 5"	5' - 8-1/8"	17-5/16"
1' - 6"	5' - 10-9/16"	19-15/16"
1' - 7"	6' - 15/16"	22-9/16"
1' - 8"	6' - 3-3/8"	25-3/16"
1' - 9"	6' - 5-13/16"	27-3/4"
1' - 10"	6' - 8-3/16"	30-3/8"
1' - 11"	6' - 10-5/8"	33"
2'	7' - 1-1/16"	35-5/8"
2' - 1"	7' - 3-7/16"	38-1/4"
2' - 2"	7' - 5-7/8"	40-7/8"
2' - 3"	7' - 8-1/4"	43-7/16"

15° / 48" CLR / 4" TAN

А	В	С
5-5/16"	3' - 4-9/16"	0"
6-11/16"	3' - 9-5/8"	5-1/4"
7"	3' - 10-3/4"	6-7/16"
8"	4' - 2-1/2"	10-1/4"
9"	4' - 6-1/4"	14-1/8"
10"	4' - 9-15/16"	18"
11"	5' - 1-11/16"	21-7/8"
1'	5' - 5-7/16"	25-3/4"
1' - 1"	5' - 9-1/8"	29-9/16"
1' - 2"	6' - 7/8"	33-7/16"
1' - 3"	6' - 4-7/16"	37-1/8"
1' - 4"	6' - 8-3/8"	41-3/16"
1' - 5"	7' - 1/16"	45-1/16"
1' - 6"	7' - 3-13/16"	48-15/16"
1' - 7"	7' - 7-9/16"	52-3/4"
1' - 8"	7' - 11-1/4"	56-5/8"
1' - 9"	8' - 3"	60-1/2"

Offset Chart for PVC 4.5" OD Tube Systems

90° / 20" CLR / 4" TAN

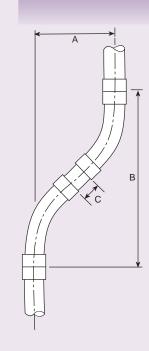
А	В	С
4'	4'	0"
4' - 5-1/4"	4'	5-1/4"

45° / 20" CLR / 4" TAN

1' - 5 - 3/8" $3' - 5 - 15/16"$ $0"$ $1' - 9 - 1/16"$ $3' - 9 - 5/8"$ $5 - 1/4"$ $1' - 10"$ $3' - 10 - 9/16"$ $6 - 9/16"$ $1' - 10"$ $3' - 10 - 9/16"$ $6 - 9/16"$ $1' - 11"$ $3' - 11 - 9/16"$ $7 - 15/16"$ $2'$ $4' - 9/16"$ $9 - 3/8"$ $2' - 1"$ $4' - 1 - 9/16"$ $10 - 13/16"$ $2' - 2"$ $4' - 2 - 9/16"$ $12 - 7/16"$ $2' - 2"$ $4' - 2 - 9/16"$ $13 - 5/8"$ $2' - 3"$ $4' - 3 - 9/16"$ $15"$ $2' - 4"$ $4' - 4 - 9/16"$ $15"$ $2' - 5"$ $4' - 5 - 9/16"$ $16 - 7/16"$ $2' - 5"$ $4' - 6 - 9/16"$ $17 - 7/8"$ $2' - 7"$ $4' - 7 - 9/16"$ $19 - 1/4"$ $2' - 7"$ $4' - 8 - 9/16"$ $20 - 11/16"$ $2' - 9"$ $4' - 9 - 9/16"$ $22 - 1/8"$ $2' - 10"$ $4' - 10 - 9/16"$ $23 - 1/2"$ $2' - 10"$ $4' - 11 - 9/16"$ $24 - 15/16"$ $3'$ $5' - 9/16"$ $26 - 3/8"$	А	В	С
1' - 10" $3' - 10 - 9/16"$ $6 - 9/16"$ $1' - 11"$ $3' - 11 - 9/16"$ $7 - 15/16"$ $2'$ $4' - 9/16"$ $9 - 3/8"$ $2' - 1"$ $4' - 1 - 9/16"$ $10 - 13/16"$ $2' - 2"$ $4' - 2 - 9/16"$ $12 - 7/16"$ $2' - 2"$ $4' - 2 - 9/16"$ $12 - 7/16"$ $2' - 3"$ $4' - 3 - 9/16"$ $13 - 5/8"$ $2' - 4"$ $4' - 4 - 9/16"$ $15"$ $2' - 5"$ $4' - 5 - 9/16"$ $16 - 7/16"$ $2' - 6"$ $4' - 6 - 9/16"$ $17 - 7/8"$ $2' - 6"$ $4' - 7 - 9/16"$ $19 - 1/4"$ $2' - 8"$ $4' - 8 - 9/16"$ $20 - 11/16"$ $2' - 9"$ $4' - 9 - 9/16"$ $22 - 1/8"$ $2' - 10"$ $4' - 10 - 9/16"$ $23 - 1/2"$ $2' - 11"$ $4' - 11 - 9/16"$ $24 - 15/16"$	1' - 5-3/8"	3' - 5-15/16"	0"
1' - 11" $3' - 11 - 9/16"$ $7 - 15/16"$ $2'$ $4' - 9/16"$ $9 - 3/8"$ $2' - 1"$ $4' - 1 - 9/16"$ $10 - 13/16"$ $2' - 2"$ $4' - 2 - 9/16"$ $12 - 7/16"$ $2' - 2"$ $4' - 3 - 9/16"$ $13 - 5/8"$ $2' - 3"$ $4' - 3 - 9/16"$ $13 - 5/8"$ $2' - 4"$ $4' - 4 - 9/16"$ $15"$ $2' - 5"$ $4' - 5 - 9/16"$ $16 - 7/16"$ $2' - 5"$ $4' - 6 - 9/16"$ $17 - 7/8"$ $2' - 7"$ $4' - 7 - 9/16"$ $19 - 1/4"$ $2' - 8"$ $4' - 8 - 9/16"$ $20 - 11/16"$ $2' - 9"$ $4' - 9 - 9/16"$ $22 - 1/8"$ $2' - 10"$ $4' - 10 - 9/16"$ $23 - 1/2"$ $2' - 11"$ $4' - 11 - 9/16"$ $24 - 15/16"$	1' - 9-1/16"	3' - 9-5/8"	5-1/4"
2' 4' - 9/16" 9-3/8" 2' - 1" 4' - 1-9/16" 10-13/16" 2' - 2" 4' - 2-9/16" 12-7/16" 2' - 3" 4' - 3-9/16" 13-5/8" 2' - 4" 4' - 4-9/16" 15" 2' - 5" 4' - 5-9/16" 16-7/16" 2' - 6" 4' - 6-9/16" 17-7/8" 2' - 7" 4' - 7-9/16" 19-1/4" 2' - 8" 4' - 8-9/16" 20-11/16" 2' - 9" 4' - 9-9/16" 22-1/8" 2' - 10" 4' - 10-9/16" 23-1/2" 2' - 11" 4' - 11-9/16" 24-15/16"	1' - 10"	3' - 10-9/16"	6-9/16"
2' - 1" 4' - 1-9/16" 10-13/16" 2' - 2" 4' - 2-9/16" 12-7/16" 2' - 3" 4' - 3-9/16" 13-5/8" 2' - 4" 4' - 4-9/16" 15" 2' - 5" 4' - 5-9/16" 16-7/16" 2' - 6" 4' - 6-9/16" 17-7/8" 2' - 7" 4' - 7-9/16" 19-1/4" 2' - 8" 4' - 8-9/16" 20-11/16" 2' - 9" 4' - 9-9/16" 22-1/8" 2' - 10" 4' - 10-9/16" 23-1/2" 2' - 11" 4' - 11-9/16" 24-15/16"	1' - 11"	3' - 11-9/16"	7-15/16"
2' - 2" $4' - 2 - 9/16"$ $12 - 7/16"$ $2' - 3"$ $4' - 3 - 9/16"$ $13 - 5/8"$ $2' - 4"$ $4' - 4 - 9/16"$ $15"$ $2' - 5"$ $4' - 5 - 9/16"$ $16 - 7/16"$ $2' - 6"$ $4' - 6 - 9/16"$ $17 - 7/8"$ $2' - 7"$ $4' - 7 - 9/16"$ $19 - 1/4"$ $2' - 8"$ $4' - 8 - 9/16"$ $20 - 11/16"$ $2' - 9"$ $4' - 9 - 9/16"$ $22 - 1/8"$ $2' - 10"$ $4' - 10 - 9/16"$ $23 - 1/2"$ $2' - 11"$ $4' - 11 - 9/16"$ $24 - 15/16"$	2'	4' - 9/16"	9-3/8"
2' - 3" $4' - 3 - 9/16"$ $13 - 5/8"$ $2' - 4"$ $4' - 4 - 9/16"$ $15"$ $2' - 5"$ $4' - 5 - 9/16"$ $16 - 7/16"$ $2' - 6"$ $4' - 6 - 9/16"$ $17 - 7/8"$ $2' - 7"$ $4' - 7 - 9/16"$ $19 - 1/4"$ $2' - 8"$ $4' - 8 - 9/16"$ $20 - 11/16"$ $2' - 9"$ $4' - 9 - 9/16"$ $22 - 18"$ $2' - 10"$ $4' - 10 - 9/16"$ $23 - 1/2"$ $2' - 11"$ $4' - 11 - 9/16"$ $24 - 15/16"$	2' - 1"	4' - 1-9/16"	10-13/16"
2' - 4" $4' - 4 - 9/16"$ $15"$ $2' - 5"$ $4' - 5 - 9/16"$ $16 - 7/16"$ $2' - 6"$ $4' - 6 - 9/16"$ $17 - 7/8"$ $2' - 7"$ $4' - 7 - 9/16"$ $19 - 1/4"$ $2' - 8"$ $4' - 8 - 9/16"$ $20 - 11/16"$ $2' - 9"$ $4' - 9 - 9/16"$ $22 - 1/8"$ $2' - 10"$ $4' - 10 - 9/16"$ $23 - 1/2"$ $2' - 11"$ $4' - 11 - 9/16"$ $24 - 15/16"$	2' - 2"	4' - 2-9/16"	12-7/16"
2' - 5" 4' - 5-9/16" 16-7/16" 2' - 6" 4' - 6-9/16" 17-7/8" 2' - 7" 4' - 7-9/16" 19-1/4" 2' - 8" 4' - 8-9/16" 20-11/16" 2' - 9" 4' - 9-9/16" 22-1/8" 2' - 10" 4' - 10-9/16" 23-1/2" 2' - 11" 4' - 11-9/16" 24-15/16"	2' - 3"	4' - 3-9/16"	13-5/8"
2' - 6" 4' - 6-9/16" 17-7/8" 2' - 7" 4' - 7-9/16" 19-1/4" 2' - 8" 4' - 8-9/16" 20-11/16" 2' - 9" 4' - 9-9/16" 22-1/8" 2' - 10" 4' - 10-9/16" 23-1/2" 2' - 11" 4' - 11-9/16" 24-15/16"	2' - 4"	4' - 4-9/16"	15"
2' - 7" 4' - 7-9/16" 19-1/4" 2' - 8" 4' - 8-9/16" 20-11/16" 2' - 9" 4' - 9-9/16" 22-1/8" 2' - 10" 4' - 10-9/16" 23-1/2" 2' - 11" 4' - 11-9/16" 24-15/16"	2' - 5"	4' - 5-9/16"	16-7/16"
2' - 8" 4' - 8-9/16" 20-11/16" 2' - 9" 4' - 9-9/16" 22-1/8" 2' - 10" 4' - 10-9/16" 23-1/2" 2' - 11" 4' - 11-9/16" 24-15/16"	2' - 6"	4' - 6-9/16"	17-7/8"
2' - 9"4' - 9-9/16"22-1/8"2' - 10"4' - 10-9/16"23-1/2"2' - 11"4' - 11-9/16"24-15/16"	2' - 7"	4' - 7-9/16"	19-1/4"
2' - 10"4' - 10-9/16"23-1/2"2' - 11"4' - 11-9/16"24-15/16"	2' - 8"	4' - 8-9/16"	20-11/16"
2' - 11" 4' - 11-9/16" 24-15/16"	2' - 9"	4' - 9-9/16"	22-1/8"
	2' - 10"	4' - 10-9/16"	23-1/2"
3' 5' - 9/16" 26-3/8"	2' - 11"	4' - 11-9/16"	24-15/16"
	3'	5' - 9/16"	26-3/8"

15° / 20" CLR / 4" TAN

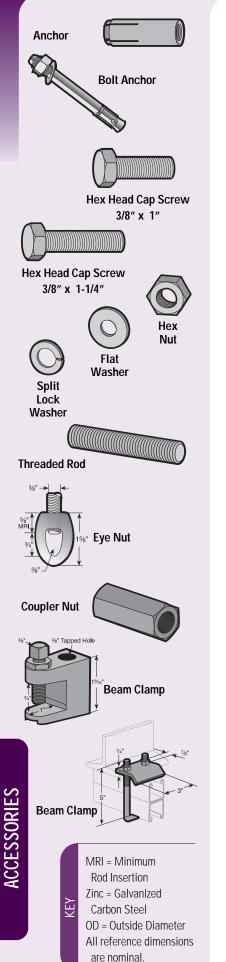
A	В	С
3-7/16"	2' - 2-1/16"	0"
4-13/16"	2' - 7-1/8"	5-1/4"
5"	2' - 7-15/16"	6-1/16"
6"	2' - 11-5/8"	9-15/16"
7"	3' - 3-3/8"	13-3/4"
8"	3' - 7-1/8"	17-5/8"
9"	3' - 10-7/8"	21-1/2"
10"	4' - 2-9/16"	25-3/8"
11"	4' - 6-5/16"	29-1/4"
12"	4' - 10-1/16"	33-1/8"
1' - 1"	5' - 1-13/16"	37"
1' - 2"	5' - 5-1/2"	40-13/16"
1' - 3"	5' - 9-1/4"	44-11/16"
1' - 4"	6' - 1"	48-9/16"
1' - 5"	6' - 4-11/16"	52-7/16"
1' - 6"	6' - 8-7/16"	56-1/4"
1' - 7"	7' - 3/16"	60-1/8"



30° / 20" CLR / 4" TAN

А	В	С
9-3/8"	2' - 10-15/16"	0"
1'	3' - 3-1/2"	5-1/4"
1' - 1"	3' - 5-1/4"	7-1/4"
1' - 2"	3' - 6-15/16"	9-1/4"
1' - 3"	3' - 8-11/16"	11-1/4"
1' - 4"	3' - 10-7/16"	13-1/4"
1' - 5"	4' - 3/16"	15-1/4"
1' - 6"	4' - 1-7/8"	17-1/4"
1' - 7"	4' - 3-5/8"	19-1/4"
1' - 8"	4' - 5-3/8"	21-1/4"
1' - 9"	4' - 7-1/16"	23-1/4"
1' - 10"	4' - 8-13/16"	25-1/4"
1' - 11"	4' - 10-9/16"	27-1/4"
2'	5' - 9/16"	29-1/4"
2' - 1"	5' - 2"	31-1/4"
2' - 2"	5' - 3-3/4"	33-1/4"
2' - 3"	5' - 5-1/2"	35-1/4"





Installation Components

H-P Products, Inc. gives you everything you need to get your system up and running, all in one complete installation package. If you're searching for a particular installation component, we'll be glad to help you find whatever you're looking for. Our "one-stop-shopping" will help you lower your inventory costs and spend less time looking for parts. And, when it's time for installation, you'll have all the components you need on-the-spot.

DESCRIPTION	SIZE	MATERIAL	PKGD.	PART NO.
Anchor, Hilti®	3/8" x 1-9/16" (Length)	Zinc	50 pc.	ANC-0380
Bolt Anchor	3/8" x 3-3/4" (Overall Length)	Zinc	100 pc.	ANC-0381
Includes Washer and Hex Nut	1-1/8" Thread Length			

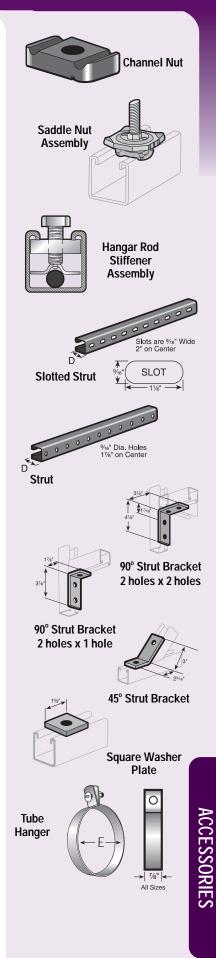
Features: Comprehensive performance testing in concrete, lightweight concrete, and grout-filled block base materials. Can be installed in a bottomless hole. Anchor size is same as hole size for easy installation. Hilti[®] Kwik Bolt II Stud Anchor System.

	•			
Hex Head Cap Screw	3/8" x 1" (Length)	Zinc	50 pc.	HCS-0380
Hex Head Cap Screw "More Length When You Need It"	3/8" x 1-1/4" (Length)	Zinc	50 pc.	HCS-0381
Hex Nut	3/8"	Zinc	50 pc.	HXN-0380
Flat Washer	3/8"	Zinc	50 pc.	FW-0380
Split Lock Washer	3/8"	Zinc	50 pc.	LKW-0380
Threaded Rod	3/8" x 6' (Length)	Zinc	each	ATR-100
Eye Nut , Maximum Allowable Load is 610 lbs. <i>"Works Great With MetFlo[™] Tube Har</i>	3/8" Tapped Hole ngers"	Malleable Iron - Plain.	each	EN-0380
Coupler Nut	3/8" x 1-3/4" (Length)	Zinc	each	CN-0380
Beam Clamp with Zinc Set Screw and Lock Nut. Maximum Allowable Load, in top or bottom position, is 550 lbs.	3/8" Tapped Hole	Malleable Iron - Galv.	each	BC-037T
Beam Clamp with Set Screw and Lock Nut. Maximum Allowable Load, in top position is 500 lbs.; in bottom position, 250 lbs. "The Cost-Effective Solution When Yo		Malleable Iron - Plain ty Beam Cla	each mp (BC-0.	BC-100 377)″
Beam Clamp		Zinc	2 pc.	BC-2786

Beam Clamp	Zinc	2 pc.	BC-2786
with U-Bolt and 3/8" Hex Nuts included,			
for use with Beams up to 3/4" Flanges.			
Design Load is 1000 lbs. Use in pairs only			

Installation Components - cont.

I				
DESCRIPTION Channel Nut, without spring	SIZE 3/8"	MATERIAL	PKGD. each	PART NO. CHN-0380
Saddlenut Assembly "Replaces Square Washer Plate and a	Channel Nut Combination"	Zinc	25	SN-0380
Hanger Rod Stiffener Assembly "Adds Rigidity to all Threaded Rod / St	rut Channel Combinations where a	Zinc Earthquake A	each ctivity is a	SA-100 Concern″
Slotted Strut, 14 Gauge	13/16"(D) x 1-5/8", 10' Length	Zinc	each	UN-100
Slotted Strut, 14 Gauge "An Economical Alternative When You	1-5/8"(D) x 1-5/8", 10' Length Don't Require Our Heavy-Duty Str		each	UN-201
Slotted Strut, 12 Gauge	1-5/8"(D) x 1-5/8", 10' Length	Zinc	each	UN-202
Strut, 12 Gauge	9/16" Hole Strut 1-5/8"(D) x 1-5/8", 10' Length	Zinc	each	UN-200
90° Strut Bracket	2 x 2, 9/16" Holes	Zinc	each	BRKT-0900
90° Strut Bracket	2 x 1, 9/16" Holes	Zinc	each	BRKT-0901
45° Strut Bracket	9/16" Holes	Zinc	each	BRKT-0450
Square Washer Plate	7/16" Hole for 3/8" Bolt Size	Zinc	100 pc.	SQW-0380
Tube Hanger, includes Bolt and Nut	For 1-1/2" OD Tube	Zinc	each	TH-150
Tube Hanger, includes Bolt and Nut	For 2" OD Tube	Zinc	each	TH-200
Tube Hanger includes Bolt and Nut	For 2-1/8" and 2-1/4" OD Tube	Zinc	each	TH-212
Tube Hanger, includes Bolt and Nut	For 2-1/2" OD Tube	Zinc	each	TH-250
Tube Hanger, includes Bolt and Nut	For 3" OD Tube	Zinc	each	TH-300
Tube Hanger, includes Bolt and Nut	For 3-1/2" OD Tube	Zinc	each	TH-350
Tube Hanger, includes Bolt and Nut	For 4" OD Tube	Zinc	each	TH-400
Tube Hanger, includes Bolt and Nut	For 4-1/2" OD Tube	Zinc	each	TH-450
Tube Hanger, includes Bolt and Nut	For 4" to 4.5" Tube	Plastic	each	PTH-400
Tube Hanger, includes Bolt and Nut	For 5" OD Tube	Zinc	each	TH-500
Tube Hanger, includes Bolt and Nut	For 6" OD Tube	Zinc	each	TH-600
Tube Hanger, includes Bolt and Nut	For 8" OD Tube	Zinc	each	TH-800
Tube Hanger, includes Bolt and Nut	For 10" OD Tube	Zinc	each	TH-1000
Tube Hanger, includes Bolt and Nut	For 12" OD Tube	Zinc	each	TH-1200
Tube Hanger, includes Bolt and Nut	For 14" OD Tube	Zinc	each	TH-1400



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Pipe Clamp



Tube Clamp

ACCESSORIES

OD = Outside Diameter Zinc = Galvanized Carbon Steel All reference dimensions are nominal.

Installation Components - cont.

SIZE	MATERIAL	PKGD.	PART NO.
For 1-1/2" Pipe Size	Zinc	4 pc.	PCL-150
For 2" Pipe Size	Zinc	4 pc.	PCL-200
For 2-1/2" Pipe Size	Zinc	4 pc.	PCL-250
For 3" Pipe Size	Zinc	4 pc.	TCL-350*
For 3-1/2" Pipe Size	Zinc	4 pc.	TCL-400*
For 4" Pipe Size	Zinc	4 pc.	TCL-450*
For 5" Pipe Size	Zinc	4 pc.	PCL-500
For 6" Pipe Size	Zinc	4 pc.	PCL-600
For 8" Pipe Size	Zinc	4 pc.	PCL-800**
For 1-1/2" OD Tube	Zinc	4 pc.	TCL-150
For 2" OD Tube	Zinc	4 рс.	TCL-200
For 2-1/8" OD Tube	Zinc	4 рс.	TCL-212
For 2-1/2" OD Tube	Zinc	4 рс.	TCL-250
For 3" OD Tube	Zinc	4 pc.	TCL-300
For 3-1/2" OD Tube	Zinc	4 pc.	TCL-350
For 4" OD Tube	Zinc	4 pc.	TCL-400
For 4-1/2" OD Tube	Zinc	4 pc.	TCL-450
For 5" OD Tube	Zinc	4 pc.	TCL-500
For 6" OD Tube	Zinc	4 pc.	TCL-600
	For 1-1/2" Pipe SizeFor 2" Pipe SizeFor 2-1/2" Pipe SizeFor 3" Pipe SizeFor 3-1/2" Pipe SizeFor 4" Pipe SizeFor 5" Pipe SizeFor 6" Pipe SizeFor 8" Pipe SizeFor 1-1/2" OD TubeFor 2" OD TubeFor 2-1/2" OD TubeFor 3.1/2" OD TubeFor 3.1/2" OD TubeFor 4.1/2" OD TubeFor 3.1/2" OD TubeFor 4.1/2" OD TubeFor 5. OD TubeFor 5. OD Tube	For 1-1/2" Pipe SizeZincFor 2" Pipe SizeZincFor 2-1/2" Pipe SizeZincFor 3-1/2" Pipe SizeZincFor 4" Pipe SizeZincFor 5" Pipe SizeZincFor 6" Pipe SizeZincFor 8" Pipe SizeZincFor 1-1/2" OD TubeZincFor 2-1/2" OD TubeZincFor 2-1/2" OD TubeZincFor 3-1/2" OD TubeZincFor 3" OD TubeZincFor 3-1/2" OD TubeZincFor 4-1/2" OD TubeZincFor 5" OD TubeZinc	For 1-1/2" Pipe SizeZinc4 pc.For 2" Pipe SizeZinc4 pc.For 2-1/2" Pipe SizeZinc4 pc.For 3" Pipe SizeZinc4 pc.For 4" Pipe SizeZinc4 pc.For 5" Pipe SizeZinc4 pc.For 6" Pipe SizeZinc4 pc.For 8" Pipe SizeZinc4 pc.For 1-1/2" OD TubeZinc4 pc.For 2-1/2" OD TubeZinc4 pc.For 2-1/2" OD TubeZinc4 pc.For 3" OD TubeZinc4 pc.For 3-1/2" OD TubeZinc4 pc.For 4" OD TubeZinc4 pc.For 4-1/2" OD TubeZinc4 pc.For 5" OD TubeZinc4 pc.

** 2 piece package

Installation Components - cont.

P				
DESCRIPTION	SIZE	MATERIAL	PKGD.	PART NO.
Cable Tie Features: One-piece construction. Easy to use. Perm	23" Length nanent lock. Designed to withstand 90	Nylon Ibs. of force. Richco I	100 pc. Brand.	TIE-100
Cable Tie Features: One-piece construction. Easy to use. Perm <i>"When Our Heavy-Duty Cable Tie (T</i>	, i	Nylon Ibs. of force. Catamo	50 pc. unt Brand.	TIE-101
Cable Tie Features: One-piece construction. Easy to use. Perm "A Light-Duty, Shorter Length Tie"	14" Length nanent lock. Designed to withstand 25	Nylon Ibs. of force. Catamo	100 pc. unt Brand.	TIE-200
Firestop Sealant A non-sag silicone which remains flexib after curing for simple metal pipe penetrations and fire-rated joints where the ability to absorb movement and/or vibration is required.		-	each	FSB-100
Features: Just 1/4" layer provides up to a 3-hour fire rating when backed with 4" of mineral wool. Superior adhesion characteristics. Resistant to smoke and water. Excellent elongation/compression properties. Distributed by Hilti®.				

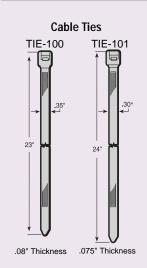
Firestop Sealant	10.5-oz. Tube	-	each	FST-100
Metal Sealant	Quart Can	-	each	2084-QT
An aluminum-colored, medium viscosity,				
synthetic rubber sealant with excellent				

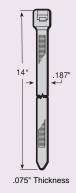
Synthetic rubber Sediditt With excellen

adhesion to many metal, glass, wood

and other surfaces.

Features: Adheres to metal, wood and glass. Seals metal to glass in windows and doors. Resists weather, water, oil and gasoline. Solids wt. approx. 46%, Flash Point (closed cup) 0 F, heavy liquid consistency, aluminum color (dry), brush or flow application. Drying time is 24 hours (1/8" dia. bead), service temp. range of -30 to 200 F. 3M Scotch-Seal™ 2084 Metal Sealant repackaged by H-P Products, Inc.







Firestop Sealant



Metal Sealant "Surface dries tack-free in approx. 5 min."



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