

PNEUMATIC CONVEYING COMPONENTS

TUBING, PIPE, BENDS,
COUPLINGS & FITTINGS



H-P Products, Inc. is an ISO 9002 Certified Company

Services

**When Ordering,
Please Specify
Type of Material:**

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

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H-P Products, Inc. is an ISO 9002 certified supplier of tubular and pipe components for pneumatic conveying systems.

TUBING

Our standard catalog items include tube sizes from 1-1/2" through 8" OD in *Carbon, Stainless Steel, Aluminum, and Zinc-Coated (Galvanized)*. Please ask about our additional Bending & Fabricating capabilities in tubing sizes up through 14"OD.

Tube Dimensions

16 Gauge	=	.065 "
14 Gauge	=	.083 "
12 Gauge	=	.109 "
11 Gauge	=	.120 "

PIPE

We also offer pipe sizes from 1" to 8" NPS in *Aluminum, Carbon and Stainless Steel*. Please ask about our *Zinc-Coated (Galvanized)* part availability and additional pipe sizes up to 12" NPS.

Pipe Dimensions

NPS (INCHES)	OD (INCHES)	SCH 5	SCH 10	SCH 40	SCH 80
1"	1.315	.065	.109	.133	.179
1-1/4"	1.660	.065	.109	.140	.191
1-1/2"	1.900	.065	.109	.145	.200
2"	2.375	.065	.109	.154	.218
2-1/2"	2.875	.083	.120	.203	.276
3"	3.500	.083	.120	.216	.300
3-1/2"	4.000	.083	.120	.226	.318
4"	4.500	.083	.120	.237	.337
5"	5.563	.109	.134	.258	.375
6"	6.625	.109	.134	.280	.432
8"	8.625	.109	.148	.322	.500
10"	10.75	.134	.165	.365	.594
12"	12.75	.165	.180	.406	.688

KEY

OD = Outside Diameter
ERW = Electric Welded Resistance
NPS = Nominal Pipe Size
SCH = Schedule
ID = Inside Diameter
All reference dimensions are nominal.

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OVERALL BENDING CAPABILITIES

Our inventories include a wide range of parts: *Short Radius* (1-1/2 times OD / NPS), *Standard Radius* (2-1/2 times OD / NPS) and *Long Radius Bends* (up through 72" center line). Available in *Carbon*, *Stainless Steel* and *Aluminum*. Please ask about our *Zinc-Coated (Galvanized)* part availability.

Tube Bending Capabilities

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

Pipe Bending Capabilities

NPS (INCHES)	OD (INCHES)	CENTER LINE RADIUS (INCHES)	SCHEDULE (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	2-3/8, 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, 60	.083	.120	.203	.276	-
3	3.500	4, 5, 6, 7-1/2, 8, 8-3/4, 9, 12, 13, 15, 18, 24, 30, 32, 36, 48, 60	.083	.120	.216	.300	.188
3-1/2	4.000	4, 6, 8, 9, 10, 12, 18, 24, 30, 32, 36, 48, 60	.083	.120	-	.300	-
4	4.500	9, 12, 16, 18, 20, 24, 30, 32, 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

Services

*When Ordering,
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Type of Material:*

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(Galvanized)

COMPRESSION COUPLINGS

The METFLO™ Compression Coupling is available in 1-1/2" through 14" OD and 1-1/4" through 12" NPS in pipe. The G-90 Galvanized Exterior Coating provides superior corrosion resistance.

FITTINGS

H-P offers an extensive selection of fittings including: *Laterals, Tees, Wyes, various Cam & Groove Couplings, Hose, Quick Connect Adapters, Blast Gates, Tube to Pipe Adapters, Sight Glasses, Super Grips* and *Slip Couplings*. Available in *Carbon, Stainless Steel* and *Aluminum*. Please inquire about our *Zinc-Coated (Galvanized)* part availability.

CATALOG PART VARIATIONS

If our standard catalog items don't meet your needs, please contact us for assistance with making alterations of standard parts, or to fabricate a custom part to your exact specification. We have extensive custom tube fabrication services available to help you meet your required specifications.

DELIVERY

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

PRICING

All prices are FOB factory, Louisville, Ohio
Terms: Net 30 days
Prices are in U.S. dollars

Prices and specifications are subject to change without notice, and without obligation. All material is invoiced at the price in effect at time of shipment. All prices and discounts are based on one shipment to one destination. Please see current price list for pricing.

NOTE

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

INSIDE AND OUTSIDE DIAMETERS POLISHING

Provides smooth ID (180 grit) and OD (150 grit) surfaces. For 2" - 6" OD Long Radius Bends and Straights.

CERAMIC LINING

Ceramic lined parts are used successfully in many pneumatic tube systems conveying highly abrasive materials. This ceramic compound helps many companies save money in material loss, production delays, clean-up and labor costs due to frequency of replacing conventional parts

Specifications

- Available in a single coat thickness (range of .006" to .008")
- Available in a double coat thickness (range of .010" to .012")
- All parts are baked to 1545 degrees F.
- On the Welch Hardness Scale, a scale from 1 to 10, this ceramic lining has a rating of 7. Using this measurement, diamond is the hardest with a rating of 10.
- Only carbon or stainless can be lined (no zinc-coated [galvanized] or aluminum).
- The maximum treatable straight length is 12 feet.

CERAMIC COATING

This wear-resistant ceramic material, is applied to the exterior surface of the part and significantly extends its life in systems conveying highly abrasive material. This special exterior coating helps save money, delays in production, and labor costs.

Specifications

- A wear-resistant ceramic compound, approximately 1/2" thick, is applied to the outside of the tube.
- An exterior fiberglass wrap maintains the grip and strength of the ceramic material.
- Once the interior of the tubular part wears through, the abrasion transfers to the ceramic compound.
- This "ceramic jacket" has a MOHS Hardness of 9, with 10 (diamond), the highest rating on the scale.
- Most of our standard catalog items are available with wear-resistant ceramic coatings
- These parts are modified to provide maximum durability at critical points.

SHOT PEENING

A pattern of indentations on the inside diameter to promote better material flow.

SPIRAL GROOVING

A groove or depression is pressed into the interior wall to improve material flow.

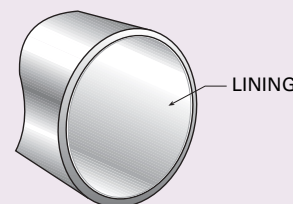
When Ordering, Please Specify Type of Material:

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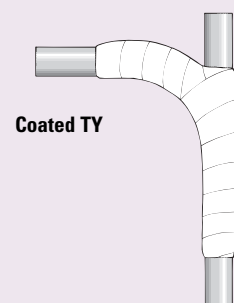
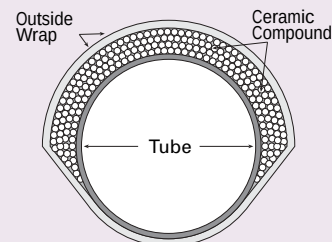
Requesting Specials:

When requesting special parts, you can visit our website at www.peconet.com, use the form in the back of this catalog, or call us for details on special applications.

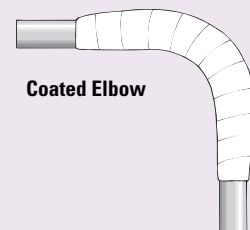
CERAMIC LINING



CERAMIC COATING



Coated TY



Coated Elbow

Frequently Requested Specials

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- Zinc-Coated
(Galvanized)

H-P Tubular Products Division Standard Tolerances

DIMENSIONAL

.X	±0.125
.XX	±0.125
.XXX	±0.125
FRAC	±1/8
ANLR	±1°
OVALITY	±5%
BEND ANGLE	±2°

H-P Procedure Number 08-08

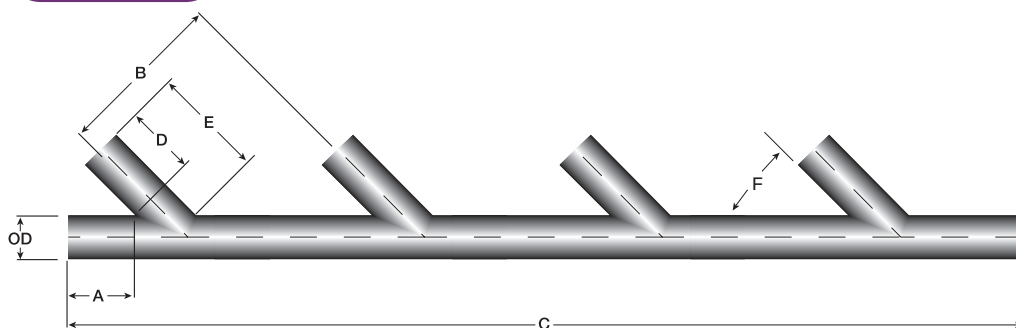
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www.metflo.com, use the form
in the back of this catalog, or
call us for details on special
applications.*

Manifolds

- Typically used for multiple pick up points in vacuum conveying applications

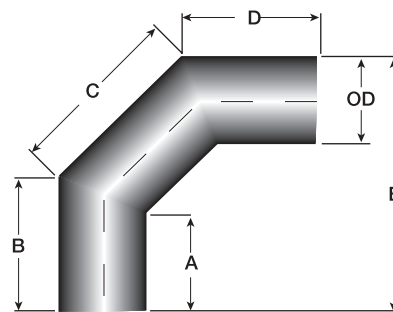
OD	A	B	C	D	E	F
2.00	6.00	8.00	50.25	6.00	8.00	45.00
2.50	6.00	10.00	60.00	5.50	8.00	45.00
3.00	6.00	12.00	69.25	5.00	8.00	45.00
4.00	6.00	16.00	87.50	6.00	10.00	45.00



Segmented Elbow

- Used on vacuum lines for non-conveying applications or for use in air/dust collection

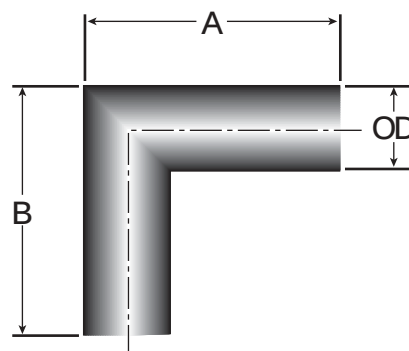
OD	A	B	C	D	E
1.50	6.00	6.625	7.25	6.625	11.75
2.00	6.00	6.875	7.75	6.875	12.25
2.50	6.00	7.125	8.125	7.125	12.75
3.00	6.00	7.25	8.50	7.25	13.25
3.50	6.00	7.50	8.875	7.5	13.75
4.00	6.00	7.75	9.375	7.75	14.25
5.00	6.00	8.125	10.125	8.125	15.25
6.00	8.00	10.50	11.00	10.50	18.25
8.00	8.00	11.375	12.375	11.375	20.25



Mitered Elbow

- Used on vacuum lines for non-conveying applications or for use in air/dust collection

OD	A	B
1.5	6	6
2	6	6
2.5	6	6
3	6	6
3.5	7	7
4	8	8
5	10	10
6	12	12
8	16	16



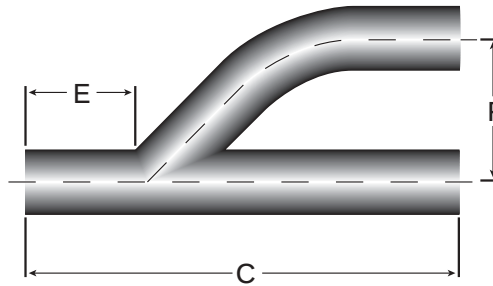
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- Zinc-Coated (Galvanized)

Parallel WYE

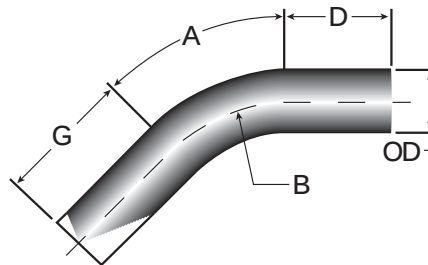
- Used typically in single line pneumatic conveying systems to allow drops to multiple stations

OD	A	B	C	D	E	F	G
1.5	45	4	21.875	6	6	6	8.25
2	45	5	23	6	6	6	8.50
2.5	45	6	24.125	6	6	6	8.75
3	45	7.5	24.75	6	6	6	9
3.5	45	8.75	26	6	6	6	9.125
4	45	10	33	8	8	8	12
5	45	12.5	39.375	10	10	8	12.25
6	45	15	41.625	10	10	8	12.375
8	45	20	46	10	10	8	13



- Branch dimensions

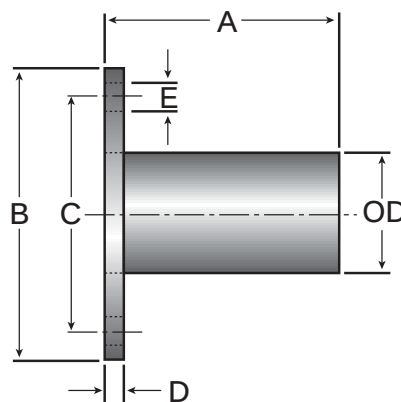
OD	A	B	C	D	E	F	G
1.5	30	4	26.5	6	6	6	14
2	30	5	27.75	6	6	6	14.125
2.5	30	6	28.75	6	6	6	15
3	30	7.5	30	6	6	6	16
3.5	30	8.75	31.25	6	6	6	16.25
4	30	10	40	8	8	8	20.875
5	30	12.5	46.625	10	10	8	22
6	30	15	49.125	10	10	8	23.25
8	30	20	54.125	10	10	8	25.625



Flanged Stub

- For connecting tube to flanged connections. Use METFLO compression coupling to connect tube ends.

OD	A	B	C	D	E
1.5	6	5	3.875	0.5	0.625
2	6	6	4.75	0.5	0.75
2.5	6	7	5.5	0.5	0.75
3	6	7.5	6	0.5	0.75
3.5	6	7.5	6	0.5	0.75
4	6	9	7.5	0.5	0.75
5	6	10	8.5	0.5	0.875
6	6	11	9.5	0.5	0.875
8	6	13.5	11.75	0.5	0.875



Requesting Specials:

When requesting special parts, you can visit our website at www.peconet.com, use the form in the back of this catalog, or call us for details on special applications.

Tubing

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Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 1-1/2" through 10" OD
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Aluminum

• WE ARE CAPABLE OF PROVIDING 1-1/2" TO 14" OD

OD	GAUGE	PART NO.
1-1/2"	16	16ST150A
1-1/2"	14	14ST150A
1-1/2"	11	11ST150A
1-3/4"	16	16ST175A
1-3/4"	14	14ST175A
1-3/4"	11	11ST175A
2"	16	16ST200A
2"	14	14ST200A
2"	11	11ST200A
2-1/8"	16	16ST212A
2-1/8"	11	11ST212A
2-1/4"	16	16ST225A
2-1/4"	14	14ST225A
2-1/4"	11	11ST225A
2-1/2"	16	16ST250A
2-1/2"	14	14ST250A
2-1/2"	11	11ST250A
3"	16	16ST300A
3"	14	14ST300A
3"	11	11ST300A
3-1/2"	16	16ST350A
3-1/2"	14	14ST350A
3-1/2"	11	11ST350A
4"	16	16ST400A
4"	14	14ST400A
4"	11	11ST400A
4-1/2"	14	14ST450A
4-1/2"	11	11ST450A
5"	14	14ST500A
5"	11	11ST500A
6"	14	14ST600A
6"	11	11ST600A
8"	14	14ST800A
8"	11	11ST800A
10"	12	12ST1000A

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
SCH = Schedule
All reference dimensions are nominal.

Carbon Steel

• WE ARE CAPABLE OF PROVIDING 1-1/2" TO 14" OD

OD	GAUGE	PART NO.
1-1/2"	16	16WT150C
1-1/2"	14	14WT150C
1-1/2"	11	11WT150C
1-3/4"	16	16WT175C
1-3/4"	14	14WT175C
1-3/4"	11	11WT175C
2"	16	16WT200C
2"	14	14WT200C
2"	11	11WT200C
2-1/8"	16	16WT212C
2-1/8"	11	11WT212C
2-1/4"	16	16WT225C
2-1/4"	11	11WT225C
2-1/2"	16	16WT250C
2-1/2"	14	14WT250C
2-1/2"	11	11WT250C
3"	16	16WT300C
3"	14	14WT300C
3"	11	11WT300C
3-1/2"	16	16WT350C
3-1/2"	14	14WT350C
3-1/2"	11	11WT350C
4"	16	16WT400C
4"	14	14WT400C
4"	11	11WT400C
4-1/2"	14	14WT450C
4-1/2"	11	11WT450C
5"	14	14WT500C
5"	11	11WT500C
6"	14	14WT600C
6"	11	11WT600C
8"	14	14WT800C
8"	11	11WT800C
10"	12	12WT1000C

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

KEY

3" NPS SCH 5 = 3-1/2" OD 14 GAUGE
3" NPS SCH 10 = 3-1/2" OD 11 GAUGE
3-1/2" NPS SCH 5 = 4" OD 14 GAUGE
3-1/2" NPS SCH 10 = 4" OD 11 GAUGE
4" NPS SCH 5 = 4-1/2" OD 14 GAUGE
4" NPS SCH 10 = 4-1/2" OD 11 GAUGE

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- Aluminum
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Stainless Steel

• WE ARE CAPABLE OF PROVIDING 1-1/2" TO 14" OD

OD	GAUGE	PART NO.
1-1/2"	16	16WT150S
1-1/2"	14	14WT150S
1-1/2"	11	11WT150S
1-3/4"	16	16WT175S
1-3/4"	14	14WT175S
1-3/4"	11	11WT175S
2"	16	16WT200S
2"	14	14WT200S
2"	11	11WT200S
2-1/8"	11	11WT212S
2-1/8"	16	16WT212S
2-1/4"	16	16WT225S
2-1/4"	14	14WT225S
2-1/4"	11	11WT225S
2-1/2"	16	16WT250S
2-1/2"	14	14WT250S
2-1/2"	11	11WT250S
3"	16	16WT300S
3"	14	14WT300S
3"	11	11WT300S
3-1/2"	16	16WT350S
3-1/2"	14	5WP300S
3-1/2"	11	10WP300S
4"	16	16WT400S
4"	14	5WP350S
4"	11	10WP350S
4-1/2"	14	5WP400S
4-1/2"	11	10WP400S
5"	14	14WT500S
5"	11	11WT500S
6"	14	14WT600S
6"	11	11WT600S
8"	14	14WT800S
8"	11	11WT800S
10"	12	12WT1000S

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

Zinc Coated (Galvanized)

• WE ARE CAPABLE OF PROVIDING 1-1/2" TO 14" OD

OD	GAUGE	PART NO.
1-1/2"	16	16WT150Z
1-1/2"	11	11WT150Z
2"	16	16WT200Z
2-1/8"	16	16WT212Z
2-1/8"	11	11WT212Z
2-1/2"	16	16WT250Z
2-1/2"	11	11WT250Z
3"	16	16WT300Z
3"	11	11WT300Z
3-1/2"	16	16WT350Z
3-1/2"	11	11WT350Z
4"	16	16WT400Z
4"	11	11WT400Z
5"	14	14WT500Z
5"	11	11WT500Z
6"	14	14WT600Z
6"	11	11WT600Z
8"	14	14WT800Z
8"	11	11WT800Z
10"	12	12WT1000Z

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

KEY

OD = Outside Diameter

NPS = Nominal Pipe Size

SCH = Schedule

3" NPS SCH 5 = 3-1/2" OD 14 GAUGE

3" NPS SCH 10 = 3-1/2" OD 11 GAUGE

3-1/2" NPS SCH 5 = 4" OD 14 GAUGE

3-1/2" NPS SCH 10 = 4" OD 11 GAUGE

4" NPS SCH 5 = 4-1/2" OD 14 GAUGE

4" NPS SCH 10 = 4-1/2" OD 11 GAUGE

All reference dimensions are nominal.

Tube Bends

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 1-1/2" through 10" OD
- Inventories include a wide range of parts:
 - Short Radius (1-1/2" times OD)
 - Standard Radius (2-1/2" times OD)
 - Long Radius Bends (up through 72" center line)
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

KEY

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions are nominal.

1-1/2" OD

OD	GAUGE	CLR	DEGREE	PART NO.
1-1/2"	16	6"	90	16-150062
1-1/2"	16	6"	60	16-150066
1-1/2"	16	6"	45	16-150061
1-1/2"	16	6"	30	16-150063
1-1/2"	16	7-1/2"	90	16-150752
1-1/2"	16	7-1/2"	60	16-150756
1-1/2"	16	7-1/2"	45	16-150751
1-1/2"	16	7-1/2"	30	16-150753
1-1/2"	16	9"	90	16-150092
1-1/2"	16	9"	60	16-150096
1-1/2"	16	9"	45	16-150091
1-1/2"	16	9"	30	16-150093
1-1/2"	16	12"	90	16-150122
1-1/2"	16	12"	60	16-150126
1-1/2"	16	12"	45	16-150121
1-1/2"	16	12"	30	16-150123
1-1/2"	16	15"	90	16-150152
1-1/2"	16	15"	60	16-150156
1-1/2"	16	15"	45	16-150151
1-1/2"	16	15"	30	16-150153
1-1/2"	16	18"	90	16-150182
1-1/2"	16	18"	60	16-150186
1-1/2"	16	18"	45	16-150181
1-1/2"	16	18"	30	16-150183
1-1/2"	16	24"	90	16-150242
1-1/2"	16	24"	60	16-150246
1-1/2"	16	24"	45	16-150241
1-1/2"	16	24"	30	16-150243
1-1/2"	16	30"	90	16-150302
1-1/2"	16	30"	60	16-150306
1-1/2"	16	30"	45	16-150301
1-1/2"	16	30"	30	16-150303
1-1/2"	16	36"	90	16-150362
1-1/2"	16	36"	60	16-150366
1-1/2"	16	36"	45	16-150361
1-1/2"	16	36"	30	16-150363
1-1/2"	14	6"	90	14-150062
1-1/2"	14	6"	60	14-150066
1-1/2"	14	6"	45	14-150061
1-1/2"	14	6"	30	14-150063
1-1/2"	14	7-1/2"	90	14-150752
1-1/2"	14	7-1/2"	60	14-150756
1-1/2"	14	7-1/2"	45	14-150751
1-1/2"	14	7-1/2"	30	14-150753

- NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

1-1/2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
1-1/2"	14	9"	90	14-150092
1-1/2"	14	9"	60	14-150096
1-1/2"	14	9"	45	14-150091
1-1/2"	14	9"	30	14-150093
1-1/2"	11	6"	60	11-150066
1-1/2"	11	6"	45	11-150061
1-1/2"	11	6"	30	11-150063
1-1/2"	11	6"	90	11-150062
1-1/2"	11	7-1/2"	90	11-150752
1-1/2"	11	7-1/2"	60	11-150756
1-1/2"	11	7-1/2"	45	11-150751
1-1/2"	11	7-1/2"	30	11-150753
1-1/2"	11	9"	90	11-150092
1-1/2"	11	9"	60	11-150096
1-1/2"	11	9"	45	11-150091
1-1/2"	11	9"	30	11-150093
1-1/2"	11	12"	90	11-150122
1-1/2"	11	12"	60	11-150126
1-1/2"	11	12"	45	11-150121
1-1/2"	11	12"	30	11-150123
1-1/2"	11	15"	90	11-150152
1-1/2"	11	15"	60	11-150156
1-1/2"	11	15"	45	11-150151
1-1/2"	11	15"	30	11-150153
1-1/2"	11	18"	90	11-150182
1-1/2"	11	18"	60	11-150186
1-1/2"	11	18"	45	11-150181
1-1/2"	11	18"	30	11-150183

- NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

1-3/4" OD

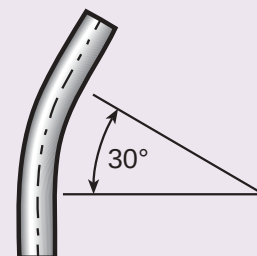
OD	GAUGE	CLR	DEGREE	PART NO.
1-3/4"	16	9"	90	16-175092
1-3/4"	16	9"	60	16-175096
1-3/4"	16	9"	45	16-175091
1-3/4"	16	9"	30	16-175093
1-3/4"	16	12"	90	16-175122
1-3/4"	16	12"	60	16-175126
1-3/4"	16	12"	45	16-175121
1-3/4"	16	12"	30	16-175123
1-3/4"	16	15"	90	16-175152
1-3/4"	16	15"	60	16-175156
1-3/4"	16	15"	45	16-175151
1-3/4"	16	15"	30	16-175153
1-3/4"	16	18"	90	16-175182
1-3/4"	16	18"	60	16-175186
1-3/4"	16	18"	45	16-175181
1-3/4"	16	18"	30	16-175183
1-3/4"	16	24"	90	16-175242
1-3/4"	16	24"	60	16-175246
1-3/4"	16	24"	45	16-175241
1-3/4"	16	24"	30	16-175243
1-3/4"	16	30"	90	16-175302
1-3/4"	16	30"	60	16-175306
1-3/4"	16	30"	45	16-175301
1-3/4"	16	30"	30	16-175303
1-3/4"	16	36"	90	16-175362
1-3/4"	16	36"	60	16-175366
1-3/4"	16	36"	45	16-175361
1-3/4"	16	36"	30	16-175363

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

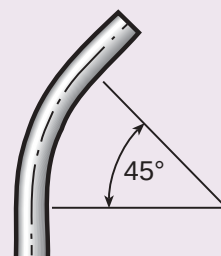
2" OD

OD	GAUGE	CLR	DEGREE	PART NO.
2"	16	6"	90	16-200062
2"	16	6"	60	16-200066
2"	16	6"	45	16-200061
2"	16	6"	30	16-200063
2"	16	9"	90	16-200092
2"	16	9"	60	16-200096
2"	16	9"	45	16-200091
2"	16	9"	30	16-200093
2"	16	10"	90	16-200102
2"	16	10"	60	16-200106
2"	16	10"	45	16-200101
2"	16	10"	30	16-200103
2"	16	12"	90	16-200122
2"	16	12"	60	16-200126
2"	16	12"	45	16-200121
2"	16	12"	30	16-200123
2"	16	18"	90	16-200182
2"	16	18"	60	16-200186
2"	16	18"	45	16-200181
2"	16	18"	30	16-200183
2"	16	24"	90	16-200242
2"	16	24"	60	16-200246
2"	16	24"	45	16-200241
2"	16	24"	30	16-200243
2"	16	30"	90	16-200302
2"	16	30"	60	16-200306
2"	16	30"	45	16-200301
2"	16	30"	30	16-200303
2"	16	36"	90	16-200362
2"	16	36"	60	16-200366
2"	16	36"	45	16-200361
2"	16	36"	30	16-200363
2"	16	48"	90	16-200482
2"	16	48"	60	16-200486
2"	16	48"	45	16-200481
2"	16	48"	30	16-200483

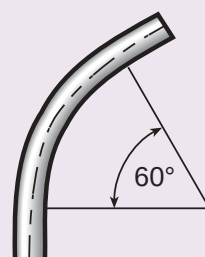
• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM



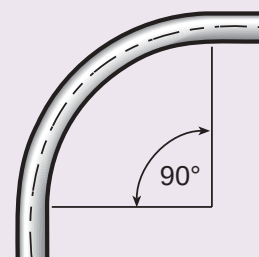
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions
are nominal.

Tube Bends

*When Ordering,
Please Specify
Type of Material:*

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- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

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- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions are nominal.

KEY

2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
2"	14	6"	90	14-200062
2"	14	6"	60	14-200066
2"	14	6"	45	14-200061
2"	14	6"	30	14-200063
2"	14	9"	90	14-200092
2"	14	9"	60	14-200096
2"	14	9"	45	14-200091
2"	14	9"	30	14-200093
2"	14	10"	90	14-200102
2"	14	10"	60	14-200106
2"	14	10"	45	14-200101
2"	14	10"	30	14-200103
2"	14	12"	90	14-200122
2"	14	12"	60	14-200126
2"	14	12"	45	14-200121
2"	14	12"	30	14-200123
2"	14	18"	90	14-200182
2"	14	18"	60	14-200186
2"	14	18"	45	14-200181
2"	14	18"	30	14-200183
2"	14	24"	90	14-200242
2"	14	24"	60	14-200246
2"	14	24"	45	14-200241
2"	14	24"	30	14-200243
2"	14	30"	90	14-200302
2"	14	30"	60	14-200306
2"	14	30"	45	14-200301
2"	14	30"	30	14-200303
2"	14	36"	90	14-200362
2"	14	36"	60	14-200366
2"	14	36"	45	14-200361
2"	14	36"	30	14-200363
2"	14	48"	90	14-200482
2"	14	48"	60	14-200486
2"	14	48"	45	14-200481
2"	14	48"	30	14-200483
2"	11	6"	90	11-200062
2"	11	6"	60	11-200066
2"	11	6"	45	11-200061
2"	11	6"	30	11-200063

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
2"	11	9"	90	11-200092
2"	11	9"	60	11-200096
2"	11	9"	45	11-200091
2"	11	9"	30	11-200093
2"	11	12"	90	11-200122
2"	11	12"	60	11-200126
2"	11	12"	45	11-200121
2"	11	12"	30	11-200123
2"	11	18"	90	11-200182
2"	11	18"	60	11-200186
2"	11	18"	45	11-200181
2"	11	18"	30	11-200183
2"	11	24"	90	11-200242
2"	11	24"	60	11-200246
2"	11	24"	45	11-200241
2"	11	24"	30	11-200243
2"	11	30"	90	11-200302
2"	11	30"	60	11-200306
2"	11	30"	45	11-200301
2"	11	30"	30	11-200303
2"	11	36"	90	11-200362
2"	11	36"	60	11-200366
2"	11	36"	45	11-200361
2"	11	36"	30	11-200363
2"	11	48"	90	11-200482
2"	11	48"	60	11-200486
2"	11	48"	45	11-200481
2"	11	48"	30	11-200483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

2-1/4" OD

OD	GAUGE	CLR	DEGREE	PART NO.
2-1/4"	16	9"	90	16-225092
2-1/4"	16	9"	60	16-225096
2-1/4"	16	9"	45	16-225091
2-1/4"	16	9"	30	16-225093
2-1/4"	16	12"	90	16-225122
2-1/4"	16	12"	60	16-225126
2-1/4"	16	12"	45	16-225121
2-1/4"	16	12"	30	16-225123

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

2-1/4" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
2-1/4"	16	15"	90	16-225152
2-1/4"	16	15"	60	16-225156
2-1/4"	16	15"	45	16-225151
2-1/4"	16	15"	30	16-225153
2-1/4"	16	18"	90	16-225182
2-1/4"	16	18"	60	16-225186
2-1/4"	16	18"	45	16-225181
2-1/4"	16	18"	30	16-225183
2-1/4"	16	24"	90	16-225242
2-1/4"	16	24"	60	16-225246
2-1/4"	16	24"	45	16-225241
2-1/4"	16	24"	30	16-225243
2-1/4"	16	30"	90	16-225302
2-1/4"	16	30"	60	16-225306
2-1/4"	16	30"	45	16-225301
2-1/4"	16	30"	30	16-225303
2-1/4"	16	36"	90	16-225362
2-1/4"	16	36"	60	16-225366
2-1/4"	16	36"	45	16-225361
2-1/4"	16	36"	30	16-225363

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

2-1/2" OD

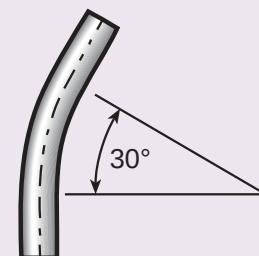
OD	GAUGE	CLR	DEGREE	PART NO.
2-1/2"	16	6"	90	16-250062
2-1/2"	16	6"	60	16-250066
2-1/2"	16	6"	45	16-250061
2-1/2"	16	6"	30	16-250063
2-1/2"	16	9"	90	16-250092
2-1/2"	16	9"	60	16-250096
2-1/2"	16	9"	45	16-250091
2-1/2"	16	9"	30	16-250093
2-1/2"	16	12"	90	16-250122
2-1/2"	16	12"	60	16-250126
2-1/2"	16	12"	45	16-250121
2-1/2"	16	12"	30	16-250123
2-1/2"	16	15"	90	16-250152
2-1/2"	16	15"	60	16-250156
2-1/2"	16	15"	45	16-250151
2-1/2"	16	15"	30	16-250153

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

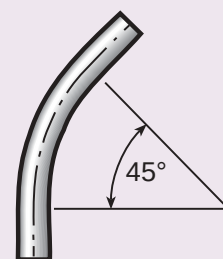
2-1/2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
2-1/2"	16	18"	90	16-250182
2-1/2"	16	18"	60	16-250186
2-1/2"	16	18"	45	16-250181
2-1/2"	16	18"	30	16-250183
2-1/2"	16	24"	90	16-250242
2-1/2"	16	24"	60	16-250246
2-1/2"	16	24"	45	16-250241
2-1/2"	16	24"	30	16-250243
2-1/2"	16	30"	90	16-250302
2-1/2"	16	30"	60	16-250306
2-1/2"	16	30"	45	16-250301
2-1/2"	16	30"	30	16-250303
2-1/2"	16	36"	90	16-250362
2-1/2"	16	36"	60	16-250366
2-1/2"	16	36"	45	16-250361
2-1/2"	16	36"	30	16-250363
2-1/2"	16	48"	90	16-250482
2-1/2"	16	48"	60	16-250486
2-1/2"	16	48"	45	16-250481
2-1/2"	16	48"	30	16-250483
2-1/2"	14	6"	90	14-250062
2-1/2"	14	6"	60	14-250066
2-1/2"	14	6"	45	14-250061
2-1/2"	14	6"	30	14-250063
2-1/2"	14	9"	90	14-250092
2-1/2"	14	9"	60	14-250096
2-1/2"	14	9"	45	14-250091
2-1/2"	14	9"	30	14-250093
2-1/2"	14	12"	90	14-250122
2-1/2"	14	12"	60	14-250126
2-1/2"	14	12"	45	14-250121
2-1/2"	14	12"	30	14-250123
2-1/2"	14	15"	90	14-250152
2-1/2"	14	15"	60	14-250156
2-1/2"	14	15"	45	14-250151
2-1/2"	14	15"	30	14-250153
2-1/2"	14	18"	90	14-250182
2-1/2"	14	18"	60	14-250186
2-1/2"	14	18"	45	14-250181
2-1/2"	14	18"	30	14-250183
2-1/2"	14	24"	90	14-250242
2-1/2"	14	24"	60	14-250246
2-1/2"	14	24"	45	14-250241
2-1/2"	14	24"	30	14-250243

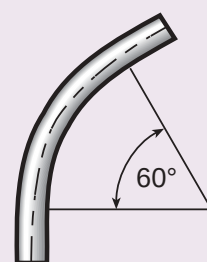
• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM



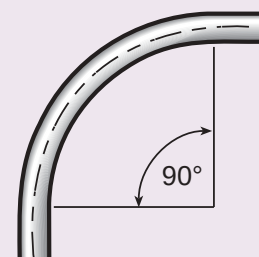
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

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CLR = Center Line Radius
All reference dimensions
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Tube Bends

*When Ordering,
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Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 1-1/2" through 10" OD
- Inventories include a wide range of parts:
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 - Standard Radius (2-1/2" times OD)
 - Long Radius Bends (up through 72" center line)
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

Special services we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions are nominal.

2-1/2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
2-1/2"	14	30"	90	14-250302
2-1/2"	14	30"	60	14-250306
2-1/2"	14	30"	45	14-250301
2-1/2"	14	30"	30	14-250363
2-1/2"	14	36"	90	14-250362
2-1/2"	14	36"	60	14-250366
2-1/2"	14	36"	45	14-250361
2-1/2"	14	36"	30	14-250363
2-1/2"	14	48"	90	14-250482
2-1/2"	14	48"	60	14-250486
2-1/2"	14	48"	45	14-250481
2-1/2"	14	48"	30	14-250483
2-1/2"	11	6"	90	11-250062
2-1/2"	11	6"	60	11-250066
2-1/2"	11	6"	45	11-250061
2-1/2"	11	6"	30	11-250063
2-1/2"	11	9"	90	11-250092
2-1/2"	11	9"	60	11-250096
2-1/2"	11	9"	45	11-250091
2-1/2"	11	9"	30	11-250093
2-1/2"	11	12"	90	11-250122
2-1/2"	11	12"	60	11-250126
2-1/2"	11	12"	45	11-250121
2-1/2"	11	12"	30	11-250123
2-1/2"	11	15"	90	11-250152
2-1/2"	11	15"	60	11-250156
2-1/2"	11	15"	45	11-250151
2-1/2"	11	15"	30	11-250153
2-1/2"	11	18"	90	11-250182
2-1/2"	11	18"	60	11-250186
2-1/2"	11	18"	45	11-250181
2-1/2"	11	18"	30	11-250183
2-1/2"	11	24"	90	11-250242
2-1/2"	11	24"	60	11-250246
2-1/2"	11	24"	45	11-250241
2-1/2"	11	24"	30	11-250243
2-1/2"	11	30"	90	11-250302
2-1/2"	11	30"	60	11-250306
2-1/2"	11	30"	45	11-250301
2-1/2"	11	30"	30	11-250303
2-1/2"	11	36"	90	11-250362
2-1/2"	11	36"	60	11-250366
2-1/2"	11	36"	45	11-250361
2-1/2"	11	36"	30	11-250363

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

2-1/2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
2-1/2"	11	48"	90	11-250482
2-1/2"	11	48"	60	11-250486
2-1/2"	11	48"	45	11-250481
2-1/2"	11	48"	30	11-250483

3" OD

OD	GAUGE	CLR	DEGREE	PART NO.
3"	16	9"	60	16-300092
3"	16	9"	60	16-300096
3"	16	9"	45	16-300091
3"	16	9"	30	16-300093
3"	16	12"	90	16-300122
3"	16	12"	60	16-300126
3"	16	12"	45	16-300121
3"	16	12"	30	16-300123
3"	16	18"	90	16-300182
3"	16	18"	60	16-300186
3"	16	18"	45	16-300181
3"	16	18"	30	16-300183
3"	16	24"	90	16-300242
3"	16	24"	60	16-300246
3"	16	24"	45	16-300241
3"	16	24"	30	16-300243
3"	16	30"	90	16-300302
3"	16	30"	60	16-300306
3"	16	30"	45	16-300301
3"	16	30"	30	16-300303
3"	16	36"	90	16-300362
3"	16	36"	60	16-300366
3"	16	36"	45	16-300361
3"	16	36"	30	16-300363
3"	16	48"	90	16-300482
3"	16	48"	60	16-300486
3"	16	48"	45	16-300481
3"	16	48"	30	16-300483
3"	14	9"	90	14-300092
3"	14	9"	60	14-300096
3"	14	9"	45	14-300091
3"	14	9"	30	14-300093
3"	14	12"	90	14-300122
3"	14	12"	60	14-300126
3"	14	12"	45	14-300121
3"	14	12"	30	14-300123

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

When Ordering,
Please Specify
Type of Material:

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

3" OD - cont.

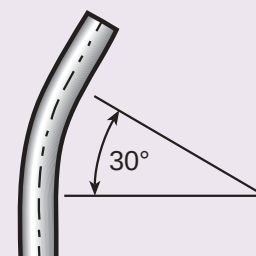
OD	GAUGE	CLR	DEGREE	PART NO.
3"	14	18"	90	14-300182
3"	14	18"	60	14-300186
3"	14	18"	45	14-300181
3"	14	18"	30	14-300183
3"	14	24"	90	14-300242
3"	14	24"	60	14-300246
3"	14	24"	45	14-300241
3"	14	24"	30	14-300243
3"	14	30"	90	14-300302
3"	14	30"	60	14-300306
3"	14	30"	45	14-300301
3"	14	30"	30	14-300303
3"	14	36"	90	14-300362
3"	14	36"	60	14-300366
3"	14	36"	45	14-300361
3"	14	36"	30	14-300363
3"	14	48"	90	14-300482
3"	14	48"	60	14-300486
3"	14	48"	45	14-300481
3"	14	48"	30	14-300483
3"	11	12"	90	11-300122
3"	11	12"	60	11-300126
3"	11	12"	45	11-300121
3"	11	12"	30	11-300123
3"	11	18"	90	11-300182
3"	11	18"	60	11-300186
3"	11	18"	45	11-300181
3"	11	18"	30	11-300183
3"	11	24"	90	11-300242
3"	11	24"	60	11-300246
3"	11	24"	45	11-300241
3"	11	24"	30	11-300243
3"	11	30"	90	11-300302
3"	11	30"	60	11-300306
3"	11	30"	45	11-300301
3"	11	30"	30	11-300303
3"	11	36"	90	11-300362
3"	11	36"	60	11-300366
3"	11	36"	45	11-300361
3"	11	36"	30	11-300363
3"	11	48"	90	11-300482
3"	11	48"	60	11-300486
3"	11	48"	45	11-300481
3"	11	48"	30	11-300483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

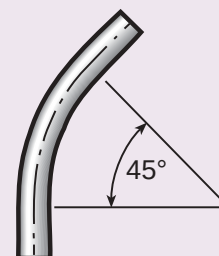
3-1/2" OD

OD	GAUGE	CLR	DEGREE	PART NO.
3-1/2"	14	12"	90	14-350122
3-1/2"	14	12"	60	14-350126
3-1/2"	14	12"	45	14-350121
3-1/2"	14	12"	30	14-350123
3-1/2"	14	15"	90	14-350152
3-1/2"	14	15"	60	14-350156
3-1/2"	14	15"	45	14-350151
3-1/2"	14	15"	30	14-350153
3-1/2"	14	18"	90	14-350182
3-1/2"	14	18"	60	14-350186
3-1/2"	14	18"	45	14-350181
3-1/2"	14	18"	30	14-350183
3-1/2"	14	24"	90	14-350242
3-1/2"	14	24"	60	14-350246
3-1/2"	14	24"	45	14-350241
3-1/2"	14	24"	30	14-350243
3-1/2"	14	30"	90	14-350302
3-1/2"	14	30"	60	14-350306
3-1/2"	14	30"	45	14-350301
3-1/2"	14	30"	30	14-350303
3-1/2"	14	36"	90	14-350362
3-1/2"	14	36"	60	14-350366
3-1/2"	14	36"	45	14-350361
3-1/2"	14	36"	30	14-350363
3-1/2"	14	48"	90	14-350482
3-1/2"	14	48"	60	14-350486
3-1/2"	14	48"	45	14-350481
3-1/2"	14	48"	30	14-350483
3-1/2"	11	9"	90	11-350092
3-1/2"	11	9"	60	11-350096
3-1/2"	11	9"	45	11-350091
3-1/2"	11	9"	30	11-350093
3-1/2"	11	12"	90	11-350122
3-1/2"	11	12"	60	11-350126
3-1/2"	11	12"	45	11-350121
3-1/2"	11	12"	30	11-350123
3-1/2"	11	15"	90	11-350152
3-1/2"	11	15"	60	11-350156
3-1/2"	11	15"	45	11-350151
3-1/2"	11	15"	30	11-350153
3-1/2"	11	18"	90	11-350182
3-1/2"	11	18"	60	11-350186
3-1/2"	11	18"	45	11-350181
3-1/2"	11	18"	30	11-350183

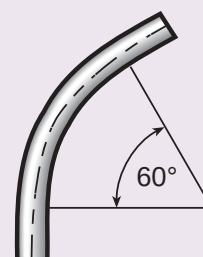
• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM



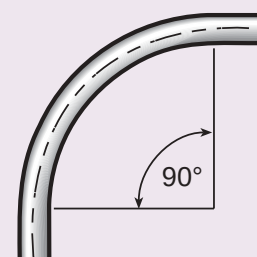
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions
are nominal.

H-P
METFLO™

Tube Bends

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 1-1/2" through 10" OD
- Inventories include a wide range of parts:
 - Short Radius (1-1/2" times OD)
 - Standard Radius (2-1/2" times OD)
 - Long Radius Bends (up through 72" center line)
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions are nominal.

3-1/2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
3-1/2"	11	24"	90	11-350242
3-1/2"	11	24"	60	11-350246
3-1/2"	11	24"	45	11-350241
3-1/2"	11	24"	30	11-350243
3-1/2"	11	30"	90	11-350302
3-1/2"	11	30"	60	11-350306
3-1/2"	11	30"	45	11-350301
3-1/2"	11	30"	30	11-350303
3-1/2"	11	36"	90	11-350362
3-1/2"	11	36"	60	11-350366
3-1/2"	11	36"	45	11-350361
3-1/2"	11	36"	30	11-350363
3-1/2"	11	48"	90	11-350482
3-1/2"	11	48"	60	11-350486
3-1/2"	11	48"	45	11-350481
3-1/2"	11	48"	30	11-350483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

4" OD

OD	GAUGE	CLR	DEGREE	PART NO.
4"	16	10"	90	16-400102
4"	16	10"	60	16-400106
4"	16	10"	45	16-400101
4"	16	10"	30	16-400103
4"	16	12"	90	16-400122
4"	16	12"	60	16-400126
4"	16	12"	45	16-400121
4"	16	12"	30	16-400123
4"	16	18"	90	16-400182
4"	16	18"	60	16-400186
4"	16	18"	45	16-400181
4"	16	18"	30	16-400183
4"	16	24"	90	16-400242
4"	16	24"	60	16-400246
4"	16	24"	45	16-400241
4"	16	24"	30	16-400243
4"	16	30"	90	16-400302
4"	16	30"	60	16-400306
4"	16	30"	45	16-400301
4"	16	30"	30	16-400303

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

4" OD

OD	GAUGE	CLR	DEGREE	PART NO.
4"	16	32"	90	16-400322
4"	16	32"	60	16-400326
4"	16	32"	45	16-400321
4"	16	32"	30	16-400323
4"	16	36"	90	16-400362
4"	16	36"	60	16-400366
4"	16	36"	45	16-400361
4"	16	36"	30	16-400363
4"	16	48"	90	16-400482
4"	16	48"	60	16-400486
4"	16	48"	45	16-400481
4"	16	48"	30	16-400483
4"	14	10"	90	14-400102
4"	14	10"	60	14-400106
4"	14	10"	45	14-400101
4"	14	10"	30	14-400103
4"	14	12"	90	14-400122
4"	14	12"	60	14-400126
4"	14	12"	45	14-400121
4"	14	12"	30	14-400123
4"	14	18"	90	14-400182
4"	14	18"	60	14-400186
4"	14	18"	45	14-400181
4"	14	18"	30	14-400183
4"	14	24"	90	14-400242
4"	14	24"	60	14-400246
4"	14	24"	45	14-400241
4"	14	24"	30	14-400243
4"	14	30"	90	14-400302
4"	14	30"	60	14-400306
4"	14	30"	45	14-400301
4"	14	30"	30	14-400303
4"	14	32"	90	14-400322
4"	14	32"	60	14-400326
4"	14	32"	45	14-400321
4"	14	32"	30	14-400323
4"	14	36"	90	14-400362
4"	14	36"	60	14-400366
4"	14	36"	45	14-400361
4"	14	36"	30	14-400363
4"	14	48"	90	14-400482
4"	14	48"	60	14-400486
4"	14	48"	45	14-400481
4"	14	48"	30	14-400483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

4" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
4"	11	10"	90	11-400102
4"	11	10"	60	11-400106
4"	11	10"	45	11-400101
4"	11	10"	30	11-400103
4"	11	10"	90	11-400102
4"	11	10"	60	11-400106
4"	11	10"	45	11-400101
4"	11	10"	30	11-400103
4"	11	12"	90	11-400122
4"	11	12"	60	11-400126
4"	11	12"	45	11-400121
4"	11	12"	30	11-400123
4"	11	18"	90	11-400182
4"	11	18"	60	11-400186
4"	11	18"	45	11-400181
4"	11	18"	30	11-400183
4"	11	24"	90	11-400242
4"	11	24"	60	11-400246
4"	11	24"	45	11-400241
4"	11	24"	30	11-400243
4"	11	30"	90	11-400302
4"	11	30"	60	11-400306
4"	11	30"	45	11-400301
4"	11	30"	30	11-400303
4"	11	32"	90	11-400322
4"	11	32"	60	11-400326
4"	11	32"	45	11-400321
4"	11	32"	30	11-400323
4"	11	36"	90	11-400362
4"	11	36"	60	11-400366
4"	11	36"	45	11-400361
4"	11	36"	30	11-400363
4"	11	48"	90	11-400482
4"	11	48"	60	11-400486
4"	11	48"	45	11-400481
4"	11	48"	30	11-400483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

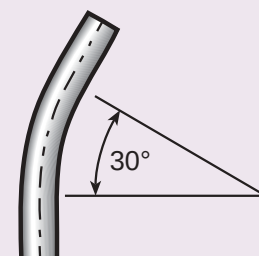
KEY

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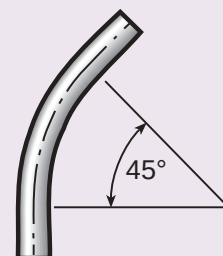
4-1/2" OD

OD	GAUGE	CLR	DEGREE	PART NO.
4-1/2"	14	20"	90	14-450202
4-1/2"	14	20"	60	14-450206
4-1/2"	14	20"	45	14-450201
4-1/2"	14	20"	30	14-450203
4-1/2"	14	30"	90	14-450302
4-1/2"	14	30"	60	14-450306
4-1/2"	14	30"	45	14-450301
4-1/2"	14	30"	30	14-450303
4-1/2"	14	32"	90	14-450322
4-1/2"	14	32"	60	14-450326
4-1/2"	14	32"	45	14-450321
4-1/2"	14	32"	30	14-450323
4-1/2"	14	36"	90	14-450362
4-1/2"	14	36"	60	14-450366
4-1/2"	14	36"	45	14-450361
4-1/2"	14	36"	30	14-450363
4-1/2"	14	48"	90	14-450482
4-1/2"	14	48"	60	14-450486
4-1/2"	14	48"	45	14-450481
4-1/2"	14	48"	30	14-450483
4-1/2"	11	9"	90	11-450092
4-1/2"	11	9"	60	11-450096
4-1/2"	11	9"	45	11-450091
4-1/2"	11	9"	30	11-450093
4-1/2"	11	12"	90	11-450122
4-1/2"	11	12"	60	11-450126
4-1/2"	11	12"	45	11-450121
4-1/2"	11	12"	30	11-450123
4-1/2"	11	18"	90	11-450182
4-1/2"	11	18"	60	11-450186
4-1/2"	11	18"	45	11-450181
4-1/2"	11	18"	30	11-450183
4-1/2"	11	20"	90	11-450202
4-1/2"	11	20"	60	11-450206
4-1/2"	11	20"	45	11-450201
4-1/2"	11	20"	30	11-450203
4-1/2"	11	24"	90	11-450242
4-1/2"	11	24"	60	11-450246
4-1/2"	11	24"	45	11-450241
4-1/2"	11	24"	30	11-450243
4-1/2"	11	30"	90	11-450302
4-1/2"	11	30"	60	11-450306
4-1/2"	11	30"	45	11-450301
4-1/2"	11	30"	30	11-450303

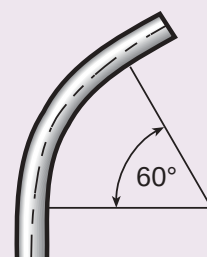
• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM



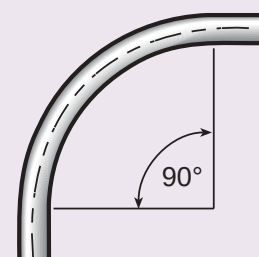
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions
are nominal.

Tube Bends

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 1-1/2" through 10" OD
- Inventories include a wide range of parts:
 - Short Radius (1-1/2" times OD)
 - Standard Radius (2-1/2" times OD)
 - Long Radius Bends (up through 72" center line)
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

4-1/2" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
4-1/2"	11	32"	90	11-450322
4-1/2"	11	32"	60	11-450326
4-1/2"	11	32"	45	11-450321
4-1/2"	11	32"	30	11-450323
4-1/2"	11	36"	90	11-450362
4-1/2"	11	36"	60	11-450366
4-1/2"	11	36"	45	11-450361
4-1/2"	11	36"	30	11-450363
4-1/2"	11	48"	90	11-450482
4-1/2"	11	48"	60	11-450486
4-1/2"	11	48"	45	11-450481
4-1/2"	11	48"	30	11-450483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

5" OD

OD	GAUGE	CLR	DEGREE	PART NO.
5"	14	12"	90	14-500122
5"	14	12"	60	14-500126
5"	14	12"	45	14-500121
5"	14	12"	30	14-500123
5"	14	18"	90	14-500182
5"	14	18"	60	14-500186
5"	14	18"	45	14-500181
5"	14	18"	30	14-500183
5"	14	24"	90	14-500242
5"	14	24"	60	14-500246
5"	14	24"	45	14-500241
5"	14	24"	30	14-500243
5"	14	30"	90	14-500302
5"	14	30"	60	14-500306
5"	14	30"	45	14-500301
5"	14	30"	30	14-500303
5"	14	36"	90	14-500362
5"	14	36"	60	14-500366
5"	14	36"	45	14-500361
5"	14	36"	30	14-500363
5"	14	48"	90	14-500482
5"	14	48"	60	14-500486
5"	14	48"	45	14-500481
5"	14	48"	30	14-500483

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

5" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
5"	14	60"	90	14-500602
5"	14	60"	60	14-500606
5"	14	60"	45	14-500601
5"	14	60"	30	14-500603
5"	11	12"	90	11-500122
5"	11	12"	60	11-500126
5"	11	12"	45	11-500121
5"	11	12"	30	11-500123
5"	11	18"	90	11-500182
5"	11	18"	60	11-500186
5"	11	18"	45	11-500181
5"	11	18"	30	11-500183
5"	11	24"	90	11-500242
5"	11	24"	60	11-500246
5"	11	24"	45	11-500241
5"	11	24"	30	11-500243
5"	11	30"	90	11-500302
5"	11	30"	60	11-500306
5"	11	30"	45	11-500301
5"	11	30"	30	11-500303
5"	11	36"	90	11-500362
5"	11	36"	60	11-500366
5"	11	36"	45	11-500361
5"	11	36"	30	11-500363
5"	11	48"	90	11-500482
5"	11	48"	60	11-500486
5"	11	48"	45	11-500481
5"	11	48"	30	11-500483
5"	11	60"	90	11-500602
5"	11	60"	60	11-500606
5"	11	60"	45	11-500601
5"	11	60"	30	11-500603
5"	11	72"	90	11-500722
5"	11	72"	60	11-500726
5"	11	72"	45	11-500721
5"	11	72"	30	11-500723

• NOMINAL STANDARD TANGENT IS TWO TIMES OD, 6" MINIMUM

KEY

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions are nominal.

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

6" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
6"	14	15"	90	14-600152
6"	14	15"	60	14-600156
6"	14	15"	45	14-600151
6"	14	15"	30	14-600153
6"	14	30"	90	14-600302
6"	14	30"	60	14-600306
6"	14	30"	45	14-600301
6"	14	30"	30	14-600303
6"	14	36"	90	14-600362
6"	14	36"	60	14-600366
6"	14	36"	45	14-600361
6"	14	36"	30	14-600363
6"	14	48"	90	14-600482
6"	14	48"	60	14-600486
6"	14	48"	45	14-600481
6"	14	48"	30	14-600483
6"	14	60"	90	14-600602
6"	14	60"	60	14-600606
6"	14	60"	45	14-600601
6"	14	60"	30	14-600603
6"	11	15"	90	11-600152
6"	11	15"	60	11-600156
6"	11	15"	45	11-600151
6"	11	15"	30	11-600153
6"	11	30"	90	11-600302
6"	11	30"	60	11-600306
6"	11	30"	45	11-600301
6"	11	30"	30	11-600303
6"	11	30"	90	11-600302
6"	11	30"	60	11-600306
6"	11	30"	45	11-600301
6"	11	30"	30	11-600303
6"	11	36"	90	11-600362
6"	11	36"	60	11-600366
6"	11	36"	45	11-600361
6"	11	36"	30	11-600363
6"	11	48"	90	11-600482
6"	11	48"	60	11-600486
6"	11	48"	45	11-600481
6"	11	48"	30	11-600483
6"	11	60"	90	11-600602
6"	11	60"	60	11-600606
6"	11	60"	45	11-600601
6"	11	60"	30	11-600603

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

6" OD - cont.

OD	GAUGE	CLR	DEGREE	PART NO.
6"	11	60"	90	11-600602
6"	11	60"	60	11-600606
6"	11	60"	45	11-600601
6"	11	60"	30	11-600603

• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

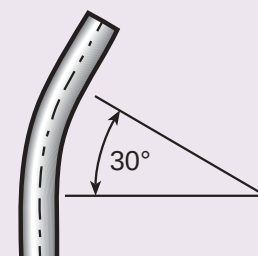
8" OD

OD	GAUGE	CLR	DEGREE	PART NO.
8"	14	48"	90	14-800482
8"	14	48"	60	14-800486
8"	14	48"	45	14-800481
8"	14	48"	30	14-800483
8"	11	48"	90	11-800482
8"	11	48"	60	11-800486
8"	11	48"	45	11-800481
8"	11	48"	30	11-800483
8"	11	60"	90	11-800602
8"	11	60"	60	11-800606
8"	11	60"	45	11-800601
8"	11	60"	30	11-800603
8"	11	72"	90	11-800722
8"	11	72"	60	11-800726
8"	11	72"	45	11-800721
8"	11	72"	30	11-800723

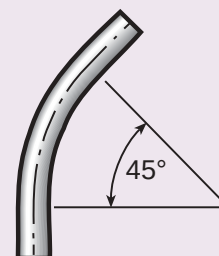
• NOMINAL STANDARD TANGENT IS TWO TIMES OD,
6" MINIMUM

KEY

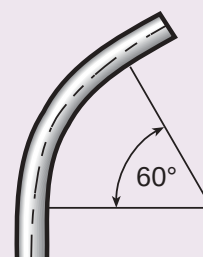
OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions
are nominal.



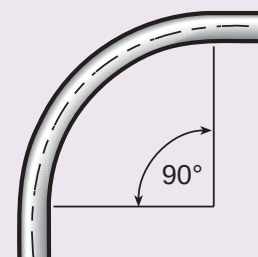
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

OD = Outside Diameter
CLR = Center Line Radius
All reference dimensions
are nominal.

H-P
METFLO™

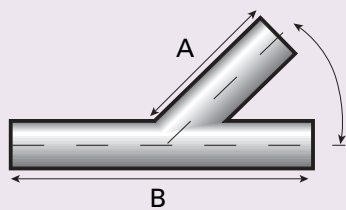
Tube Fittings

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Laterals (Tube)

- 1-1/2" through 8" OD
- Wall Thickness: 16, 14, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)



Lateral

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

KEY

OD = Outside Diameter
All reference dimensions
are nominal.

Laterals (Tube)

OD	GAUGE	DEGREE	PART NO.
1-1/2"	16	30"	16LAT1503
1-1/2"	16	45"	16LAT1501
1-1/2"	16	60"	16LAT1506
1-3/4"	16	30"	16LAT1753
1-3/4"	16	45"	16LAT1751
1-3/4"	16	60"	16LAT1756
2"	16	30"	16LAT2003
2"	16	45"	16LAT2001
2"	16	60"	16LAT2006
2"	14	30"	14LAT2003
2"	14	45"	14LAT2001
2"	14	60"	14LAT2006
2"	11	30"	11LAT2003
2"	11	45"	11LAT2001
2"	11	60"	11LAT2006
2-1/4"	16	30"	16LAT2253
2-1/4"	16	45"	16LAT2251
2-1/4"	16	60"	16LAT2256
2-1/2"	16	30"	16LAT2503
2-1/2"	16	45"	16LAT2501
2-1/2"	16	60"	16LAT2506
2-1/2"	14	30"	14LAT2503
2-1/2"	14	45"	14LAT2501
2-1/2"	14	60"	14LAT2506
2-1/2"	11	30"	11LAT2503
2-1/2"	11	45"	11LAT2501
2-1/2"	11	60"	11LAT2506
3"	16	30"	16LAT3003
3"	16	45"	16LAT3001
3"	16	60"	16LAT3006
3"	14	30"	14LAT3003
3"	14	45"	14LAT3001
3"	14	60"	14LAT3006
3"	11	30"	11LAT3003
3"	11	45"	11LAT3001
3"	11	60"	11LAT3006
3-1/2"	14	30"	14LAT3503
3-1/2"	14	45"	14LAT3501
3-1/2"	14	60"	14LAT3506
3-1/2"	11	30"	11LAT3503
3-1/2"	11	45"	11LAT3501
3-1/2"	11	60"	11LAT3506

OD	GAUGE	DEGREE	PART NO.
4"	16	30"	16LAT4003
4"	16	45"	16LAT4001
4"	16	60"	16LAT4006
4"	14	30"	14LAT4003
4"	14	45"	14LAT4001
4"	14	60"	14LAT4006
4"	11	30"	11LAT4003
4"	11	45"	11LAT4001
4"	11	60"	11LAT4006
4-1/2"	14	30"	14LAT4503
4-1/2"	14	45"	14LAT4501
4-1/2"	14	60"	14LAT4506
4-1/2"	11	30"	11LAT4503
4-1/2"	11	45"	11LAT4501
4-1/2"	11	60"	11LAT4506
5"	14	30"	14LAT5003
5"	14	45"	14LAT5001
5"	14	60"	14LAT5006
5"	11	30"	11LAT5003
5"	11	45"	11LAT5001
5"	11	60"	11LAT5006
6"	14	30"	14LAT6003
6"	14	45"	14LAT6001
6"	14	60"	14LAT6006
6"	11	30"	11LAT6003
6"	11	45"	11LAT6001
6"	11	60"	11LAT6006
8"	14	45"	14LAT8001
8"	11	30"	11LAT8003
8"	11	45"	11LAT8001
8"	11	60"	11LAT8006

Laterals

OD	30°		45°		60°	
	A	B	A	B	A	B
1-1/2"-2-1/2"	8"	16"	8"	16"	8"	16"
3"-3-1/2"	10"	20"	8"	16"	8"	16"
4"	12"	24"	10"	20"	10"	20"
4-1/2"	12"	24"	10"	20"	10"	20"
5"	15"	30"	12"	24"	12"	24"
6"	18"	36"	15"	30"	15"	30"
8"	22"	40"	18"	36"	18"	36"

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Wyes (Tube)

OD	GAUGE	DEGREE	PART NO.
1-1/2"	16	30"	16WYE1503
1-1/2"	16	45"	16WYE1501
1-1/2"	16	60"	16WYE1506
1-3/4"	16	30"	16WYE1753
1-3/4"	16	45"	16WYE1751
1-3/4"	16	60"	16WYE1756
2"	16	30"	16WYE2003
2"	16	45"	16WYE2001
2"	16	60"	16WYE2006
2"	14	30"	14WYE2003
2"	14	45"	14WYE2001
2"	14	60"	14WYE2006
2"	11	30"	11WYE2003
2"	11	45"	11WYE2001
2"	11	60"	11WYE2006
2-1/4"	16	30"	16WYE2253
2-1/4"	16	45"	16WYE2251
2-1/4"	16	60"	16WYE2256
2-1/2"	16	30"	16WYE2503
2-1/2"	16	45"	16WYE2501
2-1/2"	16	60"	16WYE2506
2-1/2"	14	30"	14WYE2503
2-1/2"	14	45"	14WYE2501
2-1/2"	14	60"	14WYE2506
2-1/2"	11	30"	11WYE2503
2-1/2"	11	45"	11WYE2501
2-1/2"	11	60"	11WYE2506
3"	16	30"	16WYE3003
3"	16	45"	16WYE3001
3"	16	60"	16WYE3006
3"	14	30"	14WYE3003
3"	14	45"	14WYE3001
3"	14	60"	14WYE3006
3"	11	30"	11WYE3003
3"	11	45"	11WYE3001
3"	11	60"	11WYE3006
3-1/2"	14	30"	14WYE3503
3-1/2"	14	45"	14WYE3501
3-1/2"	14	60"	14WYE3506
3-1/2"	11	30"	11WYE3503
3-1/2"	11	45"	11WYE3501
3-1/2"	11	60"	11WYE3506

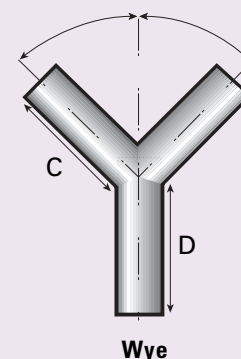
OD	GAUGE	DEGREE	PART NO.
4"	16	30"	16WYE4003
4"	16	45"	16WYE4001
4"	16	60"	16WYE4006
4"	14	30"	14WYE4003
4"	14	45"	14WYE4001
4"	14	60"	14WYE4006
4"	11	30"	11WYE4003
4"	11	45"	11WYE4001
4"	11	60"	11WYE4006
4-1/2"	14	30"	14WYE4503
4-1/2"	14	45"	14WYE4501
4-1/2"	14	60"	14WYE4506
4-1/2"	11	30"	11WYE4503
4-1/2"	11	45"	11WYE4501
4-1/2"	11	60"	11WYE4506
5"	14	30"	14WYE5003
5"	14	45"	14WYE5001
5"	14	60"	14WYE5006
5"	11	30"	11WYE5003
5"	11	45"	11WYE5001
5"	11	60"	11WYE5006
6"	14	30"	14WYE6003
6"	14	45"	14WYE6001
6"	14	60"	14WYE6006
6"	11	30"	11WYE6003
6"	11	45"	11WYE6001
6"	11	60"	11WYE6006
8"	11	30"	11WYE8003
8"	11	45"	11WYE8001
8"	11	60"	11WYE8006

Wyes

OD	30°		45°		60°	
	C	D	C	D	C	D
1-1/2"-4"	8"	8"	8"	8"	8"	8"
4-1/2"	10"	10"	10"	10"	10"	10"
5"	11"	11"	11"	11"	11"	11"
6"	12"	12"	12"	12"	12"	12"
8"	14"	14"	14"	14"	14"	14"

Wyes (Tube)

- 1-1/2" through 8" OD
- Wall Thickness: 16, 14, 11 Gauge
- Materials: Carbon, Stainless, Aluminum Zinc-Coated (Galvanized)



KEY

OD = Outside Diameter
All reference dimensions
are nominal.

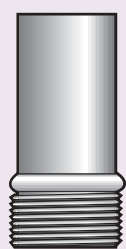
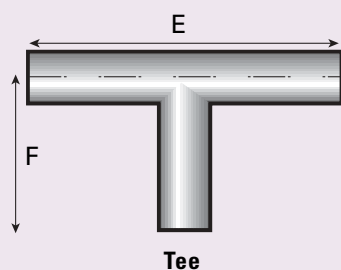
Tube Fittings

*When Ordering,
Please Specify
Type of Material:*

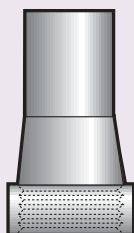
- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Tees (Tube)

- 1-1/2" through 8" OD
- Wall Thickness: 16, 14, 11 Gauge
- Materials: Carbon, Stainless, Aluminum
- Zinc-Coated (Galvanized)



Male Adapter



Female Adapter

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Tees (Tube)

OD	GAUGE	PART NO.
1-1/2"	16	16TEE150
1-3/4"	16	16TEE175
2"	16	16TEE200
2"	14	14TEE200
2"	11	11TEE200
2-1/4"	16	16TEE225
2-1/2"	16	16TEE250
2-1/2"	14	14TEE250
2-1/2"	11	11TEE250
3"	16	16TEE300
3"	14	14TEE300
3"	11	11TEE300
3-1/2"	14	14TEE350
3-1/2"	11	11TEE350
4"	16	16TEE400
4"	14	14TEE400
4"	11	11TEE400
4-1/2"	14	14TEE450
4-1/2"	11	11TEE450
5"	14	14TEE500
5"	11	11TEE500
6"	14	14TEE600
6"	11	11TEE600
8"	11	11TEE800

Tees

OD	E	F
1-1/2" - 4"	16"	8"
4-1/2"	18"	9"
5"	18"	9"
6"	20"	10"
8"	24"	12"

KEY

OD = Outside Diameter
FNPT = Female National Pipe Thread
All reference dimensions are nominal.

Standard Adapters (Tube to Pipe)

- For 1-1/2" through 10" sizes
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

Female Adapters

OD	LENGTH	FNPT	PART NO.
1-1/2"	6"	1-1/2"	FA-151
2"	6"	2"	FA-201
2-1/2"	6"	2-1/2"	FA-251
3"	5-1/4"	3"	FA-301
3-1/2"	6"	3-1/2"	FA-351
4"	6-1/2"	4"	FA-401
5"	6-3/4"	5"	FA-501
6"	7"	6"	FA-601
8"	9"	8"	FA-801
10"	10"	10"	FA-1001

Male Adapters

OD	LENGTH	FNPT	PART NO.
1-1/2"	6"	1-1/2"	MA-152
2"	6"	2"	MA-202
2-1/2"	6"	2-1/2"	MA-252
3"	6"	3"	MA-302
3-1/2"	6"	3-1/2"	MA-352
4"	6"	4"	MA-402
5"	6-1/2"	5"	MA-502
6"	7"	6"	MA-602
8"	8"	8"	MA-802
10"	10"	10"	MA-1002

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Slip Couplings (Tube)

A method of joining that can be used for joining any two straight ends of tubing or fittings. The slip coupling is a solid sleeve that fits the OD of the joint which can then be glued, brazed, welded or covered by a shrink sleeve.

- 1-1/2" through 10" OD
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

ID	GAUGE	LENGTH	PART NO.
1-1/2"	16	3"	SC-153
2"	16	3"	SC-203
2-1/2"	16	3-1/2"	SC-253
3"	16	3"	SC-303
3-1/2"	16	4-1/2"	SC-353
4"	16	5"	SC-403
5"	14	6"	SC-503
6"	14	7"	SC-603
8"	14	8"	SC-803
10"	12	10"	SC-1003

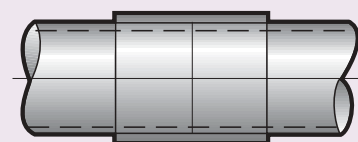
Tube Plate Flanges

- For 2" through 12" OD sizes
- Slip-on, flat face style
- Materials: Carbon, Stainless, Aluminum, Zinc-coated (Galvanized)

- 0.5" THICK, 150 LB. DRILLING
- SLIP-ON, FLAT FACE STYLE

OD	PART NO.
2"	PFT200
3"	PFT300
4"	PFT400
5"	PFT500
6"	PFT600
8"	PFT800
10"	PFT1000
12"	PFT1200

- All bolt pattern dimensions meet ANSI standards



Slip Coupling



Shrink Sleeve

Shrink Sleeve (Tube)

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 slip coupling or when using expanded fittings. Gluing, brazing and welding operations are eliminated.

- 1-1/2" through 10" OD

FOR TUBE OD SIZE	PART NO.
1-1/2"	SS-150
2" to 2-1/8"	SS-212
2-1/2" to 3"	SS-300
3-1/2" to 4"	SS-400
5"	SS-500
6"	SS-600
8"	SS-800
10"	SS-1000
12"	SS-1200

- FOR USE IN SYSTEMS UNDER 15 PSIG

KEY

OD = Outside Diameter
ID = Inside Diameter
All reference dimensions are nominal.

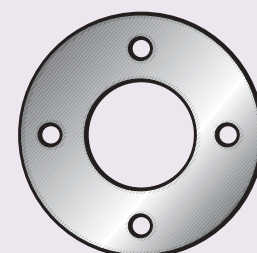


Plate Flange

Pipe

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 2" through 8" NPS
- Wall Thickness: Schedule 5, 10, 40, 80
- Materials: Carbon, Stainless, Aluminum Zinc-Coated, (Galvanized)

Special services we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Aluminum

NPS	SCHEDULE	PART NO.
2"	5	5SP200A
2"	10	10SP200A
2"	40	40SP200A
2-1/2"	10	10SP250A
2-1/2"	40	40SP250A
3"	10	11ST350A
3"	40	40SP300A
3-1/2"	5	14ST400A
3-1/2"	10	11ST400A
3-1/2"	40	40SP350A
4"	10	11ST450A
4"	40	40SP400A
5"	10	10SP500A
5"	40	40SP500A
6"	10	10SP600A
6"	40	40SP600A
8"	10	10SP800A
8"	40	40SP800A

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

Carbon Steel

NPS	SCHEDULE	PART NO.
1"	40	40WP100C
1"	80	80WP100C
1-1/4"	40	40WP125C
1-1/4"	80	80WP125C
1-1/2"	40	40WP150C
2"	5	5WP200C
2"	10	10WP200C
2"	40	40WP200C
2"	80	80WP200C
2-1/2"	5	5WP250C
2-1/2"	10	10WP250C
2-1/2"	40	40WP250C
2-1/2"	80	80WP250C
3"	5	14WT350C
3"	10	11WT350C
3"	40	40WP300C
3"	80	80WP300C
3-1/2"	5	14WT400C
3-1/2"	10	11WT400C
3-1/2"	40	40WP350C
3-1/2"	80	80WP350C
4"	5	14WT450C
4"	10	11WT450C
4"	40	40WP400C
4"	80	80WP400C
5"	10	10WP500C
5"	40	40WP500C
5"	80	80WP500C
6"	10	10WP600C
6"	40	40WP600C
6"	80	80WP600C
8"	10	10WP800C
8"	40	40WP800C
8"	80	80WP800C

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

KEY

NPS = Nominal Pipe Size
All reference dimensions are nominal.

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Stainless Steel

NPS	SCHEDULE	PART NO.
1"	10	10WP100S
1"	40	40WP100S
1"	80	80WP100S
1-1/4"	40	40WP125S
1-1/4"	80	80WP125S
1-1/2"	10	10WP150S
1-1/2"	40	40WP150S
1-1/2"	80	80WP150S
2"	5	5WP200S
2"	10	10WP200S
2"	40	40WP200S
2"	80	80WP200S
2-1/2"	5	5WP250S
2-1/2"	10	10WP250S
2-1/2"	40	40WP250S
3"	5	5WP300S
3"	10	10WP300S
3"	40	40WP300S
3"	80	80WP300S
3-1/2"	5	5WP350S
3-1/2"	10	10WP350S
3-1/2"	40	40WP350S
4"	5	5WP400S
4"	10	10WP400S
4"	40	40WP400S
4"	80	80WP400S
5"	5	5WP500S
5"	10	10WP500S
5"	40	40WP500S
6"	10	10WP600S
6"	40	40WP600S
8"	10	10WP800S
8"	40	40WP800S

• OUR STANDARD STOCK (UNLESS NOTED) IS 20 FT. LENGTHS, BUT WE WILL CUT TO YOUR SPECIFICATIONS

KEY

NPS = Nominal Pipe Size
All reference dimensions are nominal.

Pipe Bends

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Specifications

- 2" through 8" NPS
- Inventories include a wide range of parts:
 - Short Radius (1-1/2" times NPS)
 - Standard Radius (2-1/2" times NPS)
 - Long Radius Bends (up through 72" CLR)
- Wall Thickness: Schedule 5, 10, 40 (SCH 80 available)
- Materials: Carbon, Stainless, Aluminum Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

KEY

NPS = Nominal Pipe Size
CLR = Center Line Radius
All reference dimensions are nominal.

2" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
2"	5	12"	90	5P-200122
2"	5	12"	60	5P-200126
2"	5	12"	45	5P-200121
2"	5	12"	30	5P-200123
2"	5	18"	90	5P-200182
2"	5	18"	60	5P-200186
2"	5	18"	45	5P-200181
2"	5	18"	30	5P-200183
2"	5	24"	90	5P-200242
2"	5	24"	60	5P-200246
2"	5	24"	45	5P-200241
2"	5	24"	30	5P-200243
2"	5	30"	90	5P-200302
2"	5	30"	60	5P-200306
2"	5	30"	45	5P-200301
2"	5	30"	30	5P-200303
2"	5	36"	90	5P-200362
2"	5	36"	60	5P-200366
2"	5	36"	45	5P-200361
2"	5	36"	30	5P-200363
2"	5	48"	90	5P-200482
2"	5	48"	60	5P-200486
2"	5	48"	45	5P-200481
2"	5	48"	30	5P-200483
2"	10	6"	90	10P-200062
2"	10	6"	60	10P-200066
2"	10	6"	45	10P-200061
2"	10	6"	30	10P-200063
2"	10	8"	90	10P-200082
2"	10	8"	60	10P-200086
2"	10	8"	45	10P-200081
2"	10	8"	30	10P-200083
2"	10	12"	90	10P-200122
2"	10	12"	60	10P-200126
2"	10	12"	45	10P-200121
2"	10	12"	30	10P-200123
2"	10	18"	90	10P-200182
2"	10	18"	60	10P-200186
2"	10	18"	45	10P-200181
2"	10	18"	30	10P-200183
2"	10	24"	90	10P-200242
2"	10	24"	60	10P-200246
2"	10	24"	45	10P-200241
2"	10	24"	30	10P-200243

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

2" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
2"	10	30"	90	10P-200302
2"	10	30"	60	10P-200306
2"	10	30"	45	10P-200301
2"	10	30"	30	10P-200303
2"	10	36"	90	10P-200362
2"	10	36"	60	10P-200366
2"	10	36"	45	10P-200361
2"	10	36"	30	10P-200363
2"	10	48"	90	10P-200482
2"	10	48"	60	10P-200486
2"	10	48"	45	10P-200481
2"	10	48"	30	10P-200483
2"	40	24"	90	40P-200242
2"	40	24"	60	40P-200246
2"	40	24"	45	40P-200241
2"	40	24"	30	40P-200243
2"	40	30"	90	40P-200302
2"	40	30"	60	40P-200306
2"	40	30"	45	40P-200301
2"	40	30"	30	40P-200303
2"	40	36"	90	40P-200362
2"	40	36"	60	40P-200366
2"	40	36"	45	40P-200361
2"	40	36"	30	40P-200363
2"	40	48"	90	40P-200482
2"	40	48"	60	40P-200486
2"	40	48"	45	40P-200481
2"	40	48"	30	40P-200483

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

2-1/2" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
2-1/2"	5	12"	90	5P-250122
2-1/2"	5	12"	60	5P-250126
2-1/2"	5	12"	45	5P-250121
2-1/2"	5	12"	30	5P-250123
2-1/2"	5	24"	90	5P-250242
2-1/2"	5	24"	60	5P-250246
2-1/2"	5	24"	45	5P-250241
2-1/2"	5	24"	30	5P-250243

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

2-1/2" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
2-1/2"	5	30"	90	5P-250302
2-1/2"	5	30"	60	5P-250306
2-1/2"	5	30"	45	5P-250301
2-1/2"	5	30"	30	5P-250303
2-1/2"	5	36"	90	5P-250362
2-1/2"	5	36"	60	5P-250366
2-1/2"	5	36"	45	5P-250361
2-1/2"	5	36"	30	5P-250363
2-1/2"	5	48"	90	5P-250482
2-1/2"	5	48"	60	5P-250486
2-1/2"	5	48"	45	5P-250481
2-1/2"	5	48"	30	5P-250483
2-1/2"	10	12"	90	10P-250122
2-1/2"	10	12"	60	10P-250126
2-1/2"	10	12"	45	10P-250121
2-1/2"	10	12"	30	10P-250123
2-1/2"	10	24"	90	10P-250242
2-1/2"	10	24"	60	10P-250246
2-1/2"	10	24"	45	10P-250241
2-1/2"	10	24"	30	10P-250243
2-1/2"	10	30"	90	10P-250302
2-1/2"	10	30"	60	10P-250306
2-1/2"	10	30"	45	10P-250301
2-1/2"	10	30"	30	10P-250303
2-1/2"	10	36"	90	10P-250362
2-1/2"	10	36"	60	10P-250366
2-1/2"	10	36"	45	10P-250361
2-1/2"	10	36"	30	10P-250363
2-1/2"	10	48"	90	10P-250482
2-1/2"	10	48"	60	10P-250486
2-1/2"	10	48"	45	10P-250481
2-1/2"	10	48"	30	10P-250483
2-1/2"	40	12"	90	40P-250122
2-1/2"	40	12"	60	40P-250126
2-1/2"	40	12"	45	40P-250121
2-1/2"	40	12"	30	40P-250123
2-1/2"	40	24"	90	40P-250242
2-1/2"	40	24"	60	40P-250246
2-1/2"	40	24"	45	40P-250241
2-1/2"	40	24"	30	40P-250243
2-1/2"	40	30"	90	40P-250302
2-1/2"	40	30"	60	40P-250306
2-1/2"	40	30"	45	40P-250301
2-1/2"	40	30"	30	40P-250303

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

2-1/2" NPS - cont.

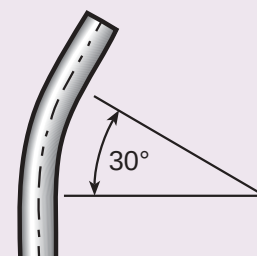
NPS	SCHEDULE	CLR	DEGREE	PART NO.
2-1/2"	40	36"	90	40P-250362
2-1/2"	40	36"	60	40P-250366
2-1/2"	40	36"	45	40P-250361
2-1/2"	40	36"	30	40P-250363
2-1/2"	40	48"	90	40P-250482
2-1/2"	40	48"	60	40P-250486
2-1/2"	40	48"	45	40P-250481
2-1/2"	40	48"	30	40P-250483

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

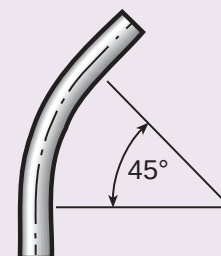
3" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
3"	5	12"	90	14-350122
3"	5	12"	60	14-350126
3"	5	12"	45	14-350121
3"	5	12"	30	14-350123
3"	5	15"	90	14-350152
3"	5	15"	60	14-350156
3"	5	15"	45	14-350151
3"	5	15"	30	14-350153
3"	5	18"	90	14-350182
3"	5	18"	60	14-350186
3"	5	18"	45	14-350181
3"	5	18"	30	14-350183
3"	5	24"	90	14-350242
3"	5	24"	60	14-350246
3"	5	24"	45	14-350241
3"	5	24"	30	14-350243
3"	5	30"	90	14-350302
3"	5	30"	60	14-350306
3"	5	30"	45	14-350301
3"	5	30"	30	14-350303
3"	5	36"	90	14-350362
3"	5	36"	60	14-350366
3"	5	36"	45	14-350361
3"	5	36"	30	14-350363
3"	5	48"	90	14-350482
3"	5	48"	60	14-350486
3"	5	48"	45	14-350481
3"	5	48"	30	14-350483

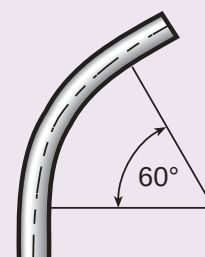
• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM



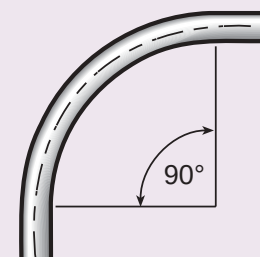
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

NPS = Nominal Pipe Size
CLR = Center Line Radius
All reference dimensions are nominal.

Pipe Bends

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

- 2" through 8" NPS
- Inventories include a wide range of parts:
 - Short Radius (1-1/2" times NPS)
 - Standard Radius (2-1/2" times NPS)
 - Long Radius Bends (up through 72" CLR)
- Wall Thickness: Schedule 5, 10, 40 (SCH 80 available)
- Materials: Carbon, Stainless, Aluminum Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

NPS = Nominal Pipe Size
CLR = Center Line Radius
All reference dimensions are nominal.

3" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
3"	10	9"	90	11-350092
3"	10	9"	60	11-350096
3"	10	9"	45	11-350091
3"	10	9"	30	11-350093
3"	10	12"	90	11-350122
3"	10	12"	60	11-350126
3"	10	12"	45	11-350121
3"	10	12"	30	11-350123
3"	10	15"	90	11-350152
3"	10	15"	60	11-350156
3"	10	15"	45	11-350151
3"	10	15"	30	11-350153
3"	10	18"	90	11-350182
3"	10	18"	60	11-350186
3"	10	18"	45	11-350181
3"	10	18"	30	11-350183
3"	10	24"	90	11-350242
3"	10	24"	60	11-350246
3"	10	24"	45	11-350241
3"	10	24"	30	11-350243
3"	10	30"	90	11-350302
3"	10	30"	60	11-350306
3"	10	30"	45	11-350301
3"	10	30"	30	11-350303
3"	10	36"	90	11-350362
3"	10	36"	60	11-350366
3"	10	36"	45	11-350361
3"	10	36"	30	11-350363
3"	10	48"	90	11-350482
3"	10	48"	60	11-350486
3"	10	48"	45	11-350481
3"	10	48"	30	11-350483
3"	40	9"	90	40P-300092
3"	40	9"	60	40P-300096
3"	40	9"	45	40P-300091
3"	40	9"	30	40P-300093
3"	40	12"	90	40P-300122
3"	40	12"	60	40P-300126
3"	40	12"	45	40P-300121
3"	40	12"	30	40P-300123
3"	40	15"	90	40P-300152
3"	40	15"	60	40P-300156
3"	40	15"	45	40P-300151
3"	40	15"	30	40P-300153

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

3" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
3"	40	18"	90	40P-300182
3"	40	18"	60	40P-300186
3"	40	18"	45	40P-300181
3"	40	18"	30	40P-300183
3"	40	24"	90	40P-300242
3"	40	24"	60	40P-300246
3"	40	24"	45	40P-300241
3"	40	24"	30	40P-300243
3"	40	30"	90	40P-300302
3"	40	30"	60	40P-300306
3"	40	30"	45	40P-300301
3"	40	30"	30	40P-300303
3"	40	36"	90	40P-300362
3"	40	36"	60	40P-300366
3"	40	36"	45	40P-300361
3"	40	36"	30	40P-300363
3"	40	48"	90	40P-300482
3"	40	48"	60	40P-300486
3"	40	48"	45	40P-300481
3"	40	48"	30	40P-300483

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

3-1/2" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
3-1/2"	5	12"	90	14-400122
3-1/2"	5	12"	60	14-400126
3-1/2"	5	12"	45	14-400121
3-1/2"	5	12"	30	14-400123
3-1/2"	5	18"	90	14-400182
3-1/2"	5	18"	60	14-400186
3-1/2"	5	18"	45	14-400181
3-1/2"	5	18"	30	14-400183
3-1/2"	5	24"	90	14-400242
3-1/2"	5	24"	60	14-400246
3-1/2"	5	24"	45	14-400241
3-1/2"	5	24"	30	14-400243
3-1/2"	5	30"	90	14-400302
3-1/2"	5	30"	60	14-400306
3-1/2"	5	30"	45	14-400301
3-1/2"	5	30"	30	14-400303

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

3-1/2" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
3-1/2"	5	32"	90	14-400322
3-1/2"	5	32"	60	14-400326
3-1/2"	5	32"	45	14-400321
3-1/2"	5	32"	30	14-400323
3-1/2"	5	36"	90	14-400362
3-1/2"	5	36"	60	14-400366
3-1/2"	5	36"	45	14-400361
3-1/2"	5	36"	30	14-400363
3-1/2"	5	48"	90	14-400482
3-1/2"	5	48"	60	14-400486
3-1/2"	5	48"	45	14-400481
3-1/2"	5	48"	30	14-400483
3-1/2"	5	60"	90	14-400602
3-1/2"	5	60"	60	14-400606
3-1/2"	5	60"	45	14-400601
3-1/2"	5	60"	30	14-400603
3-1/2"	10	18"	90	11-400182
3-1/2"	10	18"	60	11-400186
3-1/2"	10	18"	45	11-400181
3-1/2"	10	18"	30	11-400183
3-1/2"	10	24"	90	11-400242
3-1/2"	10	24"	60	11-400246
3-1/2"	10	24"	45	11-400241
3-1/2"	10	24"	30	11-400243
3-1/2"	10	30"	90	11-400302
3-1/2"	10	30"	60	11-400306
3-1/2"	10	30"	45	11-400301
3-1/2"	10	30"	30	11-400303
3-1/2"	10	32"	90	11-400322
3-1/2"	10	32"	60	11-400326
3-1/2"	10	32"	45	11-400321
3-1/2"	10	32"	30	11-400323
3-1/2"	10	36"	90	11-400362
3-1/2"	10	36"	60	11-400366
3-1/2"	10	36"	45	11-400361
3-1/2"	10	36"	30	11-400363
3-1/2"	10	48"	90	11-400482
3-1/2"	10	48"	60	11-400486
3-1/2"	10	48"	45	11-400481
3-1/2"	10	48"	30	11-400483
3-1/2"	40	10"	90	40P-350102
3-1/2"	40	10"	60	40P-350106
3-1/2"	40	10"	45	40P-350101
3-1/2"	40	10"	30	40P-350103

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM

3-1/2" NPS - cont.

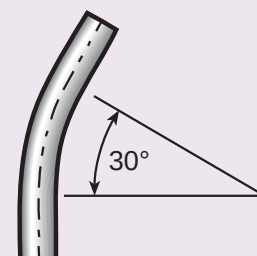
NPS	SCHEDULE	CLR	DEGREE	PART NO.
3-1/2"	40	12"	90	40P-350122
3-1/2"	40	12"	60	40P-350126
3-1/2"	40	12"	45	40P-350121
3-1/2"	40	12"	30	40P-350123
3-1/2"	40	18"	90	40P-350182
3-1/2"	40	18"	60	40P-350186
3-1/2"	40	18"	45	40P-350181
3-1/2"	40	18"	30	40P-350183
3-1/2"	40	24"	90	40P-350242
3-1/2"	40	24"	60	40P-350246
3-1/2"	40	24"	45	40P-350241
3-1/2"	40	24"	30	40P-350243
3-1/2"	40	30"	90	40P-350302
3-1/2"	40	30"	60	40P-350306
3-1/2"	40	30"	45	40P-350301
3-1/2"	40	30"	30	40P-350303
3-1/2"	40	36"	90	40P-350362
3-1/2"	40	36"	60	40P-350366
3-1/2"	40	36"	45	40P-350361
3-1/2"	40	36"	30	40P-350363
3-1/2"	40	48"	90	40P-350482
3-1/2"	40	48"	60	40P-350486
3-1/2"	40	48"	45	40P-350481
3-1/2"	40	48"	30	40P-350483

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM

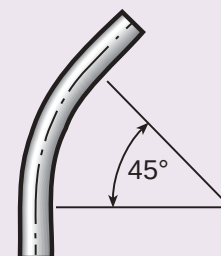
4" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
4"	5	20"	90	14-450202
4"	5	20"	60	14-450206
4"	5	20"	45	14-450201
4"	5	20"	30	14-450203
4"	5	30"	90	14-450302
4"	5	30"	60	14-450306
4"	5	30"	45	14-450301
4"	5	30"	30	14-450303
4"	5	32"	90	14-450322
4"	5	32"	60	14-450326
4"	5	32"	45	14-450321
4"	5	32"	30	14-450323

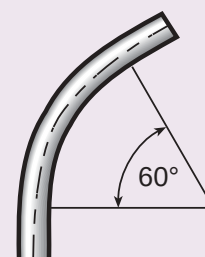
• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM



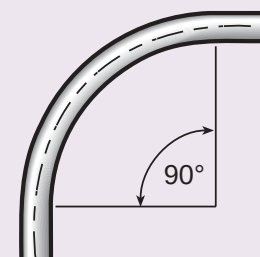
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

NPS = Nominal Pipe Size
CLR = Center Line Radius
All reference dimensions
are nominal.

Pipe Bends

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

- 2" through 8" NPS
- Inventories include a wide range of parts:
 - Short Radius (1-1/2" times NPS)
 - Standard Radius (2-1/2" times NPS)
 - Long Radius Bends (up through 72" CLR)
- Wall Thickness: Schedule 5, 10, 40 (SCH 80 available)
- Materials: Carbon, Stainless, Aluminum Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

NPS = Nominal Pipe Size
CLR = Center Line Radius
All reference dimensions are nominal.

4" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
4"	5	36"	90	14-450362
4"	5	36"	60	14-450366
4"	5	36"	45	14-450361
4"	5	36"	30	14-450363
4"	5	48"	90	14-450482
4"	5	48"	60	14-450486
4"	5	48"	45	14-450481
4"	5	48"	30	14-450483
4"	10	9"	90	11-450092
4"	10	9"	60	11-450096
4"	10	9"	45	11-450091
4"	10	9"	30	11-450093
4"	10	12"	90	11-450122
4"	10	12"	60	11-450126
4"	10	12"	45	11-450121
4"	10	12"	30	11-450123
4"	10	20"	90	11-450202
4"	10	20"	60	11-450206
4"	10	20"	45	11-450201
4"	10	20"	30	11-450203
4"	10	24"	90	11-450242
4"	10	24"	60	11-450246
4"	10	24"	45	11-450241
4"	10	24"	30	11-450243
4"	10	30"	90	11-450302
4"	10	30"	60	11-450306
4"	10	30"	45	11-450301
4"	10	30"	30	11-450303
4"	10	32"	90	11-450322
4"	10	32"	60	11-450326
4"	10	32"	45	11-450321
4"	10	32"	30	11-450323
4"	10	36"	90	11-450362
4"	10	36"	60	11-450366
4"	10	36"	45	11-450361
4"	10	36"	30	11-450363
4"	10	48"	90	11-450482
4"	10	48"	60	11-450486
4"	10	48"	45	11-450481
4"	10	48"	30	11-450483
4"	40	9"	90	40P-400092
4"	40	9"	60	40P-400096
4"	40	9"	45	40P-400091
4"	40	9"	30	40P-400093

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

4" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
4"	40	12"	90	40P-400122
4"	40	12"	60	40P-400126
4"	40	12"	45	40P-400121
4"	40	12"	30	40P-400123
4"	40	18"	90	40P-400182
4"	40	18"	60	40P-400186
4"	40	18"	45	40P-400181
4"	40	18"	30	40P-400183
4"	40	24"	90	40P-400242
4"	40	24"	60	40P-400246
4"	40	24"	45	40P-400241
4"	40	24"	30	40P-400243
4"	40	30"	90	40P-400302
4"	40	30"	60	40P-400306
4"	40	30"	45	40P-400301
4"	40	30"	30	40P-400303
4"	40	36"	90	40P-400362
4"	40	36"	60	40P-400366
4"	40	36"	45	40P-400361
4"	40	36"	30	40P-400363
4"	40	48"	90	40P-400482
4"	40	48"	60	40P-400486
4"	40	48"	45	40P-400481
4"	40	48"	30	40P-400483

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

5" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
5"	10	30"	90	10P-500302
5"	10	30"	60	10P-500306
5"	10	30"	45	10P-500301
5"	10	30"	30	10P-500303
5"	10	36"	90	10P-500362
5"	10	36"	60	10P-500366
5"	10	36"	45	10P-500361
5"	10	36"	30	10P-500363
5"	10	48"	90	10P-500482
5"	10	48"	60	10P-500486
5"	10	48"	45	10P-500481
5"	10	48"	30	10P-500483

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS, 6" MINIMUM

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

5" NPS - cont.

NPS	SCHEDULE	CLR	DEGREE	PART NO.
5"	10	60"	90	10P-500602
5"	10	60"	60	10P-500606
5"	10	60"	45	10P-500601
5"	10	60"	30	10P-500603
5"	40	30"	90	40P-500302
5"	40	30"	60	40P-500306
5"	40	30"	45	40P-500301
5"	40	30"	30	40P-500303
5"	40	36"	90	40P-500362
5"	40	36"	60	40P-500366
5"	40	36"	45	40P-500361
5"	40	36"	30	40P-500363
5"	40	48"	90	40P-500482
5"	40	48"	60	40P-500486
5"	40	48"	45	40P-500481
5"	40	48"	30	40P-500483
5"	40	60"	90	40P-500602
5"	40	60"	60	40P-500606
5"	40	60"	45	40P-500601
5"	40	60"	30	40P-500603

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM

6" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
6"	10	30"	90	10P-600302
6"	10	30"	60	10P-600306
6"	10	30"	45	10P-600301
6"	10	30"	30	10P-600303
6"	10	36"	90	10P-600362
6"	10	36"	60	10P-600366
6"	10	36"	45	10P-600361
6"	10	36"	30	10P-600363
6"	10	48"	90	10P-600482
6"	10	48"	60	10P-600486
6"	10	48"	45	10P-600481
6"	10	48"	30	10P-600483
6"	10	60"	90	10P-600602
6"	10	60"	60	10P-600606
6"	10	60"	45	10P-600601
6"	10	60"	30	10P-600603

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM

6" NPS - cont.

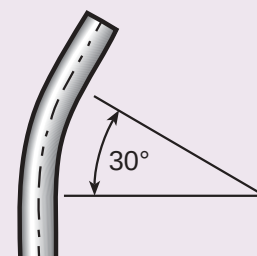
NPS	SCHEDULE	CLR	DEGREE	PART NO.
6"	10	72"	90	10P-600722
6"	10	72"	60	10P-600726
6"	10	72"	45	10P-600721
6"	10	72"	30	10P-600723
6"	40	30"	90	40P-600302
6"	40	30"	60	40P-600306
6"	40	30"	45	40P-600301
6"	40	30"	30	40P-600303
6"	40	36"	90	40P-600362
6"	40	36"	60	40P-600366
6"	40	36"	45	40P-600361
6"	40	36"	30	40P-600363
6"	40	48"	90	40P-600482
6"	40	48"	60	40P-600486
6"	40	48"	45	40P-600481
6"	40	48"	30	40P-600483
6"	40	60"	90	40P-600602
6"	40	60"	60	40P-600606
6"	40	60"	45	40P-600601
6"	40	60"	30	40P-600603
6"	40	72"	90	40P-600722
6"	40	72"	60	40P-600726
6"	40	72"	45	40P-600721
6"	40	72"	30	40P-600723

• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM

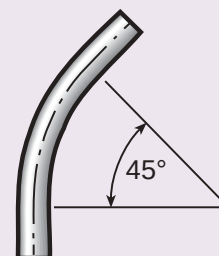
8" NPS

NPS	SCHEDULE	CLR	DEGREE	PART NO.
8"	40	48"	90	40P-800482
8"	40	48"	60	40P-800486
8"	40	48"	45	40P-800481
8"	40	48"	30	40P-800483
8"	40	72"	90	40P-800722
8"	40	72"	60	40P-800726
8"	40	72"	45	40P-800721
8"	40	72"	30	40P-800723

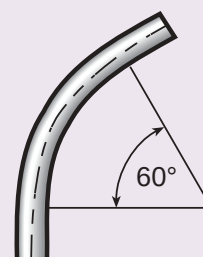
• NOMINAL STANDARD TANGENT IS TWO TIMES NPS,
6" MINIMUM



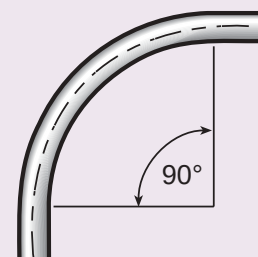
30° Tube Bend



45° Tube Bend



60° Tube Bend



90° Tube Bend

KEY

NPS = Nominal Pipe Size
CLR = Center Line Radius
All reference dimensions
are nominal.

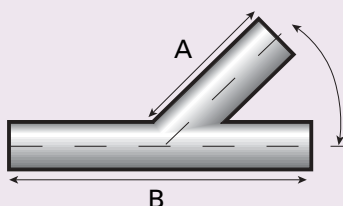
Pipe Fittings

When Ordering,
Please Specify
Type of Material:

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Laterals (Pipe)

- 2" through 8" NPS
- Wall Thickness: Schedule 5, 10, 40 (SCH 80 available)
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)



Lateral

Special services
we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Laterals (Pipe)

NPS	SCHEDULE	DEGREE	PART NO.
2"	5	30"	5PLAT2003
2"	5	45"	5PLAT2001
2"	5	60"	5PLAT2006
2"	10	30"	10PLAT2003
2"	10	45"	10PLAT2001
2"	10	60"	10PLAT2006
2"	40	30"	40PLAT2003
2"	40	45"	40PLAT2001
2"	40	60"	40PLAT2006
2-1/2"	5	30"	5PLAT2503
2-1/2"	5	45"	5PLAT2501
2-1/2"	5	60"	5PLAT2506
2-1/2"	10	30"	10PLAT2503
2-1/2"	10	45"	10PLAT2501
2-1/2"	10	60"	10PLAT2506
2-1/2"	40	30"	40PLAT2503
2-1/2"	40	45"	40PLAT2501
2-1/2"	40	60"	40PLAT2506
3"	5	30"	14LAT3503
3"	5	45"	14LAT3501
3"	5	60"	14LAT3506
3"	10	30"	11LAT3503
3"	10	45"	11LAT3501
3"	10	60"	11LAT3506
3"	40	30"	40PLAT3003
3"	40	45"	40PLAT3001
3"	40	60"	40PLAT3006
3-1/2"	5	30"	14LAT4003
3-1/2"	5	45"	14LAT4001
3-1/2"	5	60"	14LAT4006
3-1/2"	10	30"	11LAT4003
3-1/2"	10	45"	11LAT4001
3-1/2"	10	60"	11LAT4006
4"	5	30"	14LAT4503
4"	5	45"	14LAT4501
4"	5	60"	14LAT4506
4"	10	30"	11LAT4503
4"	10	45"	11LAT4501
4"	10	60"	11LAT4506
4"	40	30"	40PLAT4003
4"	40	45"	40PLAT4001
4"	40	60"	40PLAT4006

NPS	SCHEDULE	DEGREE	PART NO.
5"	10	30"	10PLAT5003
5"	10	45"	10PLAT5001
5"	10	60"	10PLAT5006
5"	40	30"	40PLAT5003
5"	40	45"	40PLAT5001
5"	40	60"	40PLAT5006
6"	10	30"	10PLAT6003
6"	10	45"	10PLAT6001
6"	10	60"	10PLAT6006
6"	40	30"	40PLAT6003
6"	40	45"	40PLAT6001
6"	40	60"	40PLAT6006
8"	10	30"	10PLAT8003
8"	10	45"	10PLAT8001
8"	10	60"	10PLAT8006
8"	40	30"	40PLAT8003
8"	40	45"	40PLAT8001
8"	40	60"	40PLAT8006

Laterals

OD	30°		45°		60°	
	A	B	A	B	A	B
1-1/2"–2-1/2"	8"	16"	8"	16"	8"	16"
3"–3-1/2"	10"	20"	8"	16"	8"	16"
4"	12"	24"	10"	20"	10"	20"
4-1/2"	12"	24"	10"	20"	10"	20"
5"	15"	30"	12"	24"	12"	24"
6"	18"	36"	15"	30"	15"	30"
8"	22"	40"	18"	36"	18"	36"

KEY

NPS = Nominal Pipe Size
All reference dimensions are nominal.

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Wyes (Pipe)

NPS	SCHEDULE	DEGREE	PART NO.
2"	5	30"	5PWYE2003
2"	5	45"	5PWYE2001
2"	5	60"	5PWYE2006
2"	10	30"	10PWYE2003
2"	10	45"	10PWYE2001
2"	10	60"	10PWYE2006
2"	40	30"	40PWYE2003
2"	40	45"	40PWYE2001
2"	40	60"	40PWYE2006
2-1/2"	5	30"	5PWYE2503
2-1/2"	5	45"	5PWYE2501
2-1/2"	5	60"	5PWYE2506
2-1/2"	10	30"	10PWYE2503
2-1/2"	10	45"	10PWYE2501
2-1/2"	10	60"	10PWYE2506
2-1/2"	40	30"	40PWYE2503
2-1/2"	40	45"	40PWYE2501
2-1/2"	40	60"	40PWYE2506
3"	5	30"	14WYE3503
3"	5	45"	14WYE3501
3"	5	60"	14WYE3506
3"	10	30"	11WYE3503
3"	10	45"	11WYE3501
3"	10	60"	11WYE3506
3"	40	30"	40PWYE3003
3"	40	45"	40PWYE3001
3"	40	60"	40PWYE3006
3-1/2"	5	30"	14WYE4003
3-1/2"	5	45"	14WYE4001
3-1/2"	5	60"	14WYE4006
3-1/2"	10	30"	11WYE4003
3-1/2"	10	45"	11WYE4001
3-1/2"	10	60"	11WYE4006
4"	5	30"	14WYE4503
4"	5	45"	14WYE4501
4"	5	60"	14WYE4506
5"	10	30"	10PWYE5003
5"	10	45"	10PWYE5001
5"	10	60"	10PWYE5006
5"	40	30"	40PWYE5003
5"	40	45"	40PWYE5001
5"	40	60"	40PWYE5006

NPS	SCHEDULE	DEGREE	PART NO.
6"	10	30"	10PWYE6003
6"	10	45"	10PWYE6001
6"	10	60"	10PWYE6006
6"	40	30"	40PWYE6003
6"	40	45"	40PWYE6001
6"	40	60"	40PWYE6006
8"	10	30"	10PWYE8003
8"	10	45"	10PWYE8001
8"	10	60"	10PWYE8006
8"	40	30"	40PWYE8003
8"	40	45"	40PWYE8001
8"	40	60"	40PWYE8006

Wyes

OD	30°		45°		60°	
	C	D	C	D	C	D
1-1/2"-4"	8"	8"	8"	8"	8"	8"
4-1/2"	10"	10"	10"	10"	10"	10"
5"	11"	11"	11"	11"	11"	11"
6"	12"	12"	12"	12"	12"	12"
8"	14"	14"	14"	14"	14"	14"

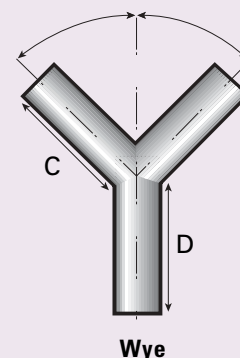
KEY

NPS = Nominal Pipe Size

All reference dimensions are nominal.

Wyes (Pipe)

- 2" through 8" NPS
- Wall Thickness: Schedule 5, 10, 40 (SCH 80 available)
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)



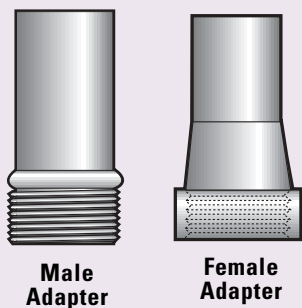
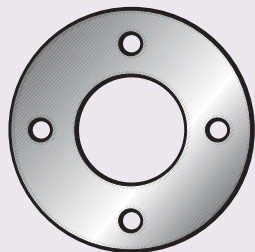
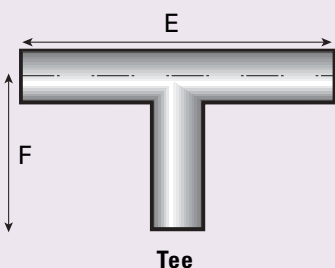
Pipe Fittings

When Ordering,
Please Specify
Type of Material:

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Tees (Pipe)

- 2" through 8" NPS
- Wall Thickness: Schedule 5, 10, 40 (SCH 80 available)
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)



Special services
we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Tees (Pipe)

NPS	SCHEDULE	PART NO.
2"	5	5PTEE200
2"	10	10PTEE200
2"	40	40PTEE200
2-1/2"	5	5PTEE250
2-1/2"	10	10PTEE250
2-1/2"	40	40PTEE250
3"	5	14TEE350
3"	10	11TEE350
3"	40	40PTEE300
3-1/2"	5	14TEE400
3-1/2"	10	11TEE400
4"	5	14TEE450
4"	10	11TEE450
4"	40	40PTEE400
5"	10	10PTEE500
5"	40	40PTEE500
6"	10	10PTEE600
6"	40	40PTEE600
8"	10	10PTEE800
8"	40	40PTEE800

Pipe Plate Flanges

- For 2" through 12" NPS
- Slip-on, flat face style
- Materials: Carbon, Stainless, Aluminum, Zinc-coated (Galvanized)

- SLIP-ON, FLAT FACE STYLE
- 1.2" THICK, 150 LB. DRILLING

NPS	PART NO.
2"	PFP200
3"	PFP300
4"	PFP400
5"	PFP500
6"	PFP600
8"	PFP800
10"	PFP1000
12"	PFP1200

- All bolt pattern dimensions meet ANSI standards

Standard Adapters (Tube to Pipe)

- For 1-1/2" through 10" sizes
- Wall Thickness: 16, 14, 12, 11 Gauge
- Materials: Carbon, Stainless, Aluminum, Zinc-Coated (Galvanized)

Female Adapters

OD	LENGTH	FNPT	PART NO.
1-1/2"	6"	1-1/2"	FA-151
2"	6"	2"	FA-201
2-1/2"	6"	2-1/2"	FA-251
3"	5-1/4"	3"	FA-301
3-1/2"	6"	3-1/2"	FA-351
4"	6-1/2"	4"	FA-401
5"	6-3/4"	5"	FA-501
6"	7"	6"	FA-601
8"	9"	8"	FA-801
10"	10"	10"	FA-1001

Male Adapters

OD	LENGTH	FNPT	PART NO.
1-1/2"	6"	1-1/2"	MA-152
2"	6"	2"	MA-202
2-1/2"	6"	2-1/2"	MA-252
3"	6"	3"	MA-302
3-1/2"	6"	3-1/2"	MA-352
4"	6"	4"	MA-402
5"	6-1/2"	5"	MA-502
6"	7"	6"	MA-602
8"	8"	8"	MA-802
10"	10"	10"	MA-1002

NPS = Nominal Pipe Size
OD = Outside Diameter
FNPT = Female National Pipe Thread
All reference dimensions are nominal.

KEY

Tees

OD	E	F
1-1/2" - 4"	16"	8"
4-1/2"	18"	9"
5"	18"	9"
6"	20"	10"
8"	24"	12"

**When Ordering,
Please Specify
Type of Material:**

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

MetFlo™ Compression Couplings

"Our own signature coupling"

- WE ARE CAPABLE OF PRODUCING STAINLESS AND ALUMINUM COMPRESSION COUPLINGS
- STANDARD GASKET IS BLACK NEOPRENE
- OTHER GASKETS ARE AVAILABLE: WHITE NITRILE, RED RUBBER, SILICONE, EPDM AND VITON
- STAINLESS STEEL GASKET PROTECTORS ARE ALSO AVAILABLE
- WE CAN FURNISH YOU WITH REPLACEMENT NUTS, BOLTS, GASKETS AND STATIC STRIPS

OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
1-1/4"		2	1/2" x 2"	BLACK	-	4	12502B10
1-1/2"		2	1/2" x 2"	BLACK	YES	4	15002B10
1-1/2"		2	1/2" x 2"	BLACK	-	4	15002B11
1-1/2"		2	1/2" x 2"	WHITE	YES	4	15002W10
1-1/2"		2	1/2" x 2"	WHITE	-	4	15002W11
1-1/2"		3	1/2" x 2"	BLACK	YES	6	15003B10
1-1/2"		3	1/2" x 2"	BLACK	-	6	15003B11
1-1/2"		3	1/2" x 2"	RED	YES	6	15003R10
1-1/2"		3	1/2" x 2"	RED	-	6	15003R11
1-1/2"		3	1/2" x 2"	WHITE	YES	6	15003W10
1-1/2"		3	1/2" x 2"	WHITE	-	6	15003W11
1-21/32"	1-1/4"	2	1/2" x 2"	BLACK	-	4	16602B10
1-21/32"	1-1/4"	2	1/2" x 2"	BLACK	YES	4	16602B11
1-21/32"	1-1/4"	2	1/2" x 2"	WHITE	-	4	16602W10
1-21/32"	1-1/4"	2	1/2" x 2"	WHITE	YES	4	16602W11
1-21/32"	1-1/4"	3	1/2" x 2"	BLACK	-	6	16603B10
1-21/32"	1-1/4"	3	1/2" x 2"	BLACK	YES	6	16603B11
1-21/32"	1-1/4"	3	1/2" x 2"	WHITE	-	6	16603W10
1-21/32"	1-1/4"	3	1/2" x 2"	WHITE	YES	6	16603W11
1-3/4"		2	1/2" x 2"	BLACK	-	4	17502B10
1-3/4"		2	1/2" x 2"	BLACK	YES	4	17502B11
1-3/4"		2	1/2" x 2"	WHITE	-	4	17502W10
1-3/4"		2	1/2" x 2"	WHITE	YES	4	17502W11
1-3/4"		3	1/2" x 2"	BLACK	-	6	17503B10
1-3/4"		3	1/2" x 2"	BLACK	YES	6	17503B11
1-3/4"		3	1/2" x 2"	WHITE	-	6	17503W10
1-3/4"		3	1/2" x 2"	WHITE	YES	6	17503W11
1-29/32"	1-1/2"	2	1/2" x 2"	BLACK	-	4	19002B10
1-29/32"	1-1/2"	2	1/2" x 2"	BLACK	YES	4	19002B11
1-29/32"	1-1/2"	2	1/2" x 2"	WHITE	-	4	19002W10
1-29/32"	1-1/2"	2	1/2" x 2"	WHITE	YES	4	19002W11
1-29/32"	1-1/2"	3	1/2" x 2"	BLACK	-	6	19003B10
1-29/32"	1-1/2"	3	1/2" x 2"	BLACK	YES	6	19003B11
1-29/32"	1-1/2"	3	1/2" x 2"	WHITE	-	6	19003W10
1-29/32"	1-1/2"	3	1/2" x 2"	WHITE	YES	6	19003W11
2"		2	1/2" x 2"	BLACK	-	4	20002B10
2"		2	1/2" x 2"	BLACK	YES	4	20002B11
2"		2	1/2" x 2"	WHITE	-	4	20002W10
2"		2	1/2" x 2"	WHITE	YES	4	20002W11
2"		3	1/2" x 2"	BLACK	-	6	20003B10

Specifications

- 1-1/2" through 14" OD for tube
- 1-1/4" through 12" NPS for pipe
- The MetFlo Compression Coupling offers superior strength.
- Zinc plated, steel reinforcement bars provide additional strength and stability.
- Grade 5 stress relieved bolts ensure a trouble-free installation.
- G90 galvanized exterior coating provides superior corrosion resistance.
- Heavy 16 gauge outer shell on all couplings over 3-1/4" in diameter provides added strength and dimensional stability.
- Industry compatible, precision diecut gasket ensures a tight seal.
- Stainless steel strip guards against static electricity build-up.
- Our standard material is Zinc-Coated (Galvanized)

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions are nominal.

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

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*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

KEY

OD = Outside Diameter
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All reference dimensions are nominal.

Metflo™ Compression Couplings - cont.

"Our own signature coupling"

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OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
2"		3	1/2" x 2"	BLACK	YES	6	20003B11
2"		3	1/2" x 2"	WHITE	-	6	20003W10
2"		3	1/2" x 2"	WHITE	YES	6	20003W11
2"		3	1/2" x 2"	RED	-	6	20003R10
2"		3	1/2" x 2"	RED	YES	6	20003R11
2-1/8"		2	1/2" x 2"	BLACK	-	4	21252B10
2-1/8"		2	1/2" x 2"	BLACK	YES	4	21252B11
2-1/8"		2	1/2" x 2"	WHITE	-	4	21252W10
2-1/8"		2	1/2" x 2"	WHITE	YES	4	21252W11
2-1/8"		3	1/2" x 2"	BLACK	-	6	21253B10
2-1/8"		3	1/2" x 2"	BLACK	YES	6	21253B11
2-1/8"		3	1/2" x 2"	WHITE	-	6	21253W10
2-1/8"		3	1/2" x 2"	WHITE	YES	6	21253W11
2-1/8"		3	1/2" x 2"	RED	-	6	21253R10
2-1/8"		3	1/2" x 2"	RED	YES	6	21253R11
2-3/16"		2	1/2" x 2"	BLACK	-	4	21882B10
2-3/16"		2	1/2" x 2"	BLACK	YES	4	21882B11
2-3/16"		2	1/2" x 2"	WHITE	-	4	21882W10
2-3/16"		2	1/2" x 2"	WHITE	YES	4	21882W11
2-3/16"		3	1/2" x 2"	BLACK	-	6	21883B10
2-3/16"		3	1/2" x 2"	BLACK	YES	6	21883B11
2-3/16"		3	1/2" x 2"	WHITE	-	6	21883W10
2-3/16"		3	1/2" x 2"	WHITE	YES	6	21883W11
2-1/4"		2	1/2" x 2"	BLACK	-	4	22502B10
2-1/4"		2	1/2" x 2"	BLACK	YES	4	22502B11
2-1/4"		2	1/2" x 2"	WHITE	-	4	22502W10
2-1/4"		2	1/2" x 2"	WHITE	YES	4	22502W11
2-1/4"		3	1/2" x 2"	BLACK	-	6	22503B10
2-1/4"		3	1/2" x 2"	BLACK	YES	6	22503B11
2-1/4"		3	1/2" x 2"	WHITE	-	6	22503W10
2-1/4"		3	1/2" x 2"	WHITE	YES	6	22503W11
2-3/8"	2"	2	1/2" x 2"	BLACK	-	4	23752B10
2-3/8"	2"	2	1/2" x 2"	BLACK	YES	4	23752B11
2-3/8"	2"	2	1/2" x 2"	WHITE	-	4	23752W10
2-3/8"	2"	2	1/2" x 2"	WHITE	YES	4	23752W11
2-3/8"	2"	3	1/2" x 2"	BLACK	-	6	23753B10
2-3/8"	2"	3	1/2" x 2"	BLACK	YES	6	23753B11
2-3/8"	2"	3	1/2" x 2"	WHITE	-	6	23753W10
2-3/8"	2"	3	1/2" x 2"	WHITE	YES	6	23753W11
2-3/8"	2"	4	1/2" x 2"	BLACK	-	8	23754B10
2-3/8"	2"	4	1/2" x 2"	BLACK	YES	8	23754B11

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Metflo™ Compression Couplings - cont.

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OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
2-3/8"	2"	4	1/2" x 2"	WHITE	-	8	23754W10
2-3/8"	2"	4	1/2" x 2"	WHITE	YES	8	23754W11
2-1/2"		2	1/2" x 2"	BLACK	-	4	25002B10
2-1/2"		2	1/2" x 2"	BLACK	YES	4	25002B11
2-1/2"		2	1/2" x 2"	WHITE	-	4	25002W10
2-1/2"		2	1/2" x 2"	WHITE	YES	4	25002W11
2-1/2"		3	1/2" x 2"	BLACK	-	6	25003B10
2-1/2"		3	1/2" x 2"	BLACK	YES	6	25003B11
2-1/2"		3	1/2" x 2"	RED	-	6	25003R10
2-1/2"		3	1/2" x 2"	RED	YES	6	25003R11
2-1/2"		3	1/2" x 2"	WHITE	-	6	25003W10
2-1/2"		3	1/2" x 2"	WHITE	YES	6	25003W11
2-1/2"		4	1/2" x 2"	BLACK	-	8	25004B10
2-1/2"		4	1/2" x 2"	BLACK	YES	8	25004B11
2-1/2"		4	1/2" x 2"	WHITE	-	8	25004W10
2-1/2"		4	1/2" x 2"	WHITE	YES	8	25004W11
2-7/8"	2-1/2"	2	1/2" x 2"	BLACK	-	4	28752B10
2-7/8"	2-1/2"	2	1/2" x 2"	BLACK	YES	4	28752B11
2-7/8"	2-1/2"	2	1/2" x 2"	WHITE	-	4	28752W10
2-7/8"	2-1/2"	2	1/2" x 2"	WHITE	YES	4	28752W11
2-7/8"	2-1/2"	3	1/2" x 2"	BLACK	-	6	28753B10
2-7/8"	2-1/2"	3	1/2" x 2"	BLACK	YES	6	28753B11
2-7/8"	2-1/2"	3	1/2" x 2"	WHITE	-	6	28753W10
2-7/8"	2-1/2"	3	1/2" x 2"	WHITE	YES	6	28753W11
2-7/8"	2-1/2"	4	1/2" x 2"	BLACK	-	8	28754B10
2-7/8"	2-1/2"	4	1/2" x 2"	BLACK	YES	8	28754B11
2-7/8"	2-1/2"	4	1/2" x 2"	WHITE	-	8	28754W10
2-7/8"	2-1/2"	4	1/2" x 2"	WHITE	YES	8	28754W11
3"		2	5/8" x 2-1/4"	BLACK	-	4	30002B10
3"		2	5/8" x 2-1/4"	BLACK	YES	4	30002B11
3"		2	5/8" x 2-1/4"	WHITE	-	4	30002W10
3"		2	5/8" x 2-1/4"	WHITE	YES	4	30002W11
3"		3	5/8" x 2-1/4"	BLACK	-	6	30003B10
3"		3	5/8" x 2-1/4"	BLACK	YES	6	30003B11
3"		3	5/8" x 2-1/4"	WHITE	-	6	30003W10
3"		3	5/8" x 2-1/4"	WHITE	YES	6	30003W11
3"		3	5/8" x 2-1/4"	RED	-	6	30003R10
3"		3	5/8" x 2-1/4"	RED	YES	6	30003R11
3"		4	5/8" x 2-1/4"	BLACK	-	8	30004B10
3"		4	5/8" x 2-1/4"	BLACK	YES	8	30004B11
3"		4	5/8" x 2-1/4"	WHITE	-	8	30004W10



MetFlo™ Compression Coupling

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions are nominal.

H-P
METFLO™

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

- 1-1/2" through 14" OD for tube
- 1-1/4" through 12" NPS for pipe
- The MetFlo Compression Coupling offers superior strength.
- Zinc plated, steel reinforcement bars provide additional strength and stability.
- Grade 5 stress relieved bolts ensure a trouble-free installation.
- G90 galvanized exterior coating provides superior corrosion resistance.
- Heavy 16 gauge outer shell on all couplings over 3-1/4" in diameter provides added strength and dimensional stability.
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**Special services
we provide include:**

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions are nominal.

Metflo™ Compression Couplings - cont.

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OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
3"		4	5/8" x 2-1/4"	WHITE	YES	8	30004W11
3-1/2"	3"	2	5/8" x 2-1/4"	BLACK	-	4	35002B10
3-1/2"	3"	2	5/8" x 2-1/4"	BLACK	YES	4	35002B11
3-1/2"	3"	2	5/8" x 2-1/4"	WHITE	-	4	35002W10
3-1/2"	3"	2	5/8" x 2-1/4"	WHITE	YES	4	35002W11
3-1/2"	3"	3	5/8" x 2-1/4"	BLACK	-	6	35003B10
3-1/2"	3"	3	5/8" x 2-1/4"	BLACK	YES	6	35003B11
3-1/2"	3"	3	5/8" x 2-1/4"	WHITE	-	6	35003W10
3-1/2"	3"	3	5/8" x 2-1/4"	WHITE	YES	6	35003W11
3-1/2"	3"	3	5/8" x 2-1/4"	RED	-	6	35003R10
3-1/2"	3"	3	5/8" x 2-1/4"	RED	YES	6	35003R11
3-1/2"	3"	4	5/8" x 2-1/4"	BLACK	-	8	35004B10
3-1/2"	3"	4	5/8" x 2-1/4"	BLACK	YES	8	35004B11
3-1/2"	3"	4	5/8" x 2-1/4"	WHITE	-	8	35004W10
3-1/2"	3"	4	5/8" x 2-1/4"	WHITE	YES	8	35004W11
4"	3-1/2"	2	5/8" x 2-1/4"	BLACK	-	4	40002B10
4"	3-1/2"	2	5/8" x 2-1/4"	BLACK	YES	4	40002B11
4"	3-1/2"	2	5/8" x 2-1/4"	WHITE	-	4	40002W10
4"	3-1/2"	2	5/8" x 2-1/4"	WHITE	YES	4	40002W11
4"	3-1/2"	3	5/8" x 2-1/4"	BLACK	-	4	40003B10
4"	3-1/2"	3	5/8" x 2-1/4"	BLACK	YES	6	40003B11
4"	3-1/2"	3	5/8" x 2-1/4"	RED	-	6	40003R10
4"	3-1/2"	3	5/8" x 2-1/4"	RED	YES	6	40003R11
4"	3-1/2"	3	5/8" x 2-1/4"	WHITE	-	6	40003W10
4"	3-1/2"	3	5/8" x 2-1/4"	WHITE	YES	6	40003W11
4"	3-1/2"	4	5/8" x 2-1/4"	BLACK	-	8	40004B10
4"	3-1/2"	4	5/8" x 2-1/4"	BLACK	YES	8	40004B11
4"	3-1/2"	4	5/8" x 2-1/4"	WHITE	-	8	40004W10
4"	3-1/2"	4	5/8" x 2-1/4"	WHITE	YES	8	40004W11
4-1/2"	4"	2	5/8" x 2-1/4"	BLACK	-	4	45002B10
4-1/2"	4"	2	5/8" x 2-1/4"	BLACK	YES	4	45002B11
4-1/2"	4"	2	5/8" x 2-1/4"	WHITE	-	4	45002W10
4-1/2"	4"	2	5/8" x 2-1/4"	WHITE	YES	4	45002W11
4-1/2"	4"	3	5/8" x 2-1/4"	BLACK	-	6	45003B10
4-1/2"	4"	3	5/8" x 2-1/4"	BLACK	YES	6	45003B11
4-1/2"	4"	3	5/8" x 2-1/4"	WHITE	-	6	45003W10
4-1/2"	4"	3	5/8" x 2-1/4"	WHITE	YES	6	45003W11
4-1/2"	4"	4	5/8" x 2-1/4"	BLACK	-	8	45004B10
4-1/2"	4"	4	5/8" x 2-1/4"	BLACK	YES	8	45004B11
4-1/2"	4"	4	5/8" x 2-1/4"	WHITE	-	8	45004W10
4-1/2"	4"	4	5/8" x 2-1/4"	WHITE	YES	8	45004W11

KEY

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Please Specify
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- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Metflo™ Compression Couplings - cont.

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OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
5"		2	5/8" x 2-1/4"	BLACK	-	4	50002B10
5"		2	5/8" x 2-1/4"	BLACK	YES	4	50002B11
5"		2	5/8" x 2-1/4"	WHITE	-	4	50002W10
5"		2	5/8" x 2-1/4"	WHITE	YES	4	50002W11
5"		3	5/8" x 2-1/4"	BLACK	-	6	50003B10
5"		3	5/8" x 2-1/4"	BLACK	YES	6	50003B11
5"		3	5/8" x 2-1/4"	RED	-	6	50003R10
5"		3	5/8" x 2-1/4"	RED	YES	6	50003R11
5"		3	5/8" x 2-1/4"	WHITE	-	6	50003W10
5"		3	5/8" x 2-1/4"	WHITE	YES	6	50003W11
5"		4	5/8" x 2-1/4"	BLACK	-	8	50004B10
5"		4	5/8" x 2-1/4"	BLACK	YES	8	50004B11
5"		4	5/8" x 2-1/4"	WHITE	-	8	50004W10
5"		4	5/8" x 2-1/4"	WHITE	YES	8	50004W11
5"		4	5/8" x 2-1/4"	BLACK	-	8	50004B10
5"		4	5/8" x 2-1/4"	BLACK	YES	8	50004B11
5-1/2"		3	5/8" x 2-1/4"	BLACK	-	6	55003B10
5-1/2"		3	5/8" x 2-1/4"	BLACK	YES	6	55003B11
5-1/2"		3	5/8" x 2-1/4"	WHITE	-	6	55003W10
5-1/2"		3	5/8" x 2-1/4"	WHITE	YES	6	55003W11
5-1/2"		4	5/8" x 2-1/4"	BLACK	-	8	55004B10
5-1/2"		4	5/8" x 2-1/4"	BLACK	YES	8	55004B11
5-1/2"		4	5/8" x 2-1/4"	WHITE	-	8	55004W10
5-1/2"		4	5/8" x 2-1/4"	WHITE	YES	8	55004W11
5-9/16"	5"	3	5/8" x 2-1/4"	BLACK	-	6	55633B10
5-9/16"	5"	3	5/8" x 2-1/4"	BLACK	YES	6	55633B11
5-9/16"	5"	3	5/8" x 2-1/4"	WHITE	-	6	55633W10
5-9/16"	5"	3	5/8" x 2-1/4"	WHITE	YES	6	55633W11
5-9/16"	5"	4	5/8" x 2-1/4"	BLACK	-	8	55634B10
5-9/16"	5"	4	5/8" x 2-1/4"	BLACK	YES	8	55634B11
5-9/16"	5"	4	5/8" x 2-1/4"	WHITE	-	8	55634W10
5-9/16"	5"	4	5/8" x 2-1/4"	WHITE	YES	8	55634W11
6"		2	5/8" x 2-1/4"	BLACK	-	4	60002B10
6"		2	5/8" x 2-1/4"	BLACK	YES	4	60002B11
6"		2	5/8" x 2-1/4"	WHITE	-	4	60002W10
6"		2	5/8" x 2-1/4"	WHITE	YES	4	60002W11
6"		3	5/8" x 2-1/4"	BLACK	-	6	60003B10
6"		3	5/8" x 2-1/4"	BLACK	YES	6	60003B11
6"		3	5/8" x 2-1/4"	WHITE	-	6	60003W10
6"		3	5/8" x 2-1/4"	WHITE	YES	6	60003W11
6"		3	5/8" x 2-1/4"	RED	-	6	60003R10



MetFlo™ Compression Coupling

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions
are nominal.

H-P
METFLO™

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

- 1-1/2" through 14" OD for tube
- 1-1/4" through 12" NPS for pipe
- The MetFlo Compression Coupling offers superior strength.
- Zinc plated, steel reinforcement bars provide additional strength and stability.
- Grade 5 stress relieved bolts ensure a trouble-free installation.
- G90 galvanized exterior coating provides superior corrosion resistance.
- Heavy 16 gauge outer shell on all couplings over 3-1/4" in diameter provides added strength and dimensional stability.
- Industry compatible, precision diecut gasket ensures a tight seal.
- Stainless steel strip guards against static electricity build-up.
- Our standard material is Zinc-Coated (Galvanized)

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Metflo™ Compression Couplings - cont.

"Our own signature coupling"

- WE ARE CAPABLE OF PRODUCING STAINLESS AND ALUMINUM COMPRESSION COUPLINGS
- STANDARD GASKET IS BLACK NEOPRENE
- OTHER GASKETS ARE AVAILABLE: WHITE NITRILE, RED RUBBER, SILICONE, EPDM AND VITON
- STAINLESS STEEL GASKET PROTECTORS ARE ALSO AVAILABLE
- WE CAN FURNISH YOU WITH REPLACEMENT NUTS, BOLTS, GASKETS AND STATIC STRIPS

OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
6"		3	5/8" x 2-1/4"	RED	YES	6	60003R11
6"		4	5/8" x 2-1/4"	BLACK	-	8	60004B10
6"		4	5/8" x 2-1/4"	BLACK	YES	8	60004B11
6"		4	5/8" x 2-1/4"	RED	-	8	60004R10
6"		4	5/8" x 2-1/4"	RED	YES	8	60004R11
6"		4	5/8" x 2-1/4"	WHITE	-	8	60004W10
6"		4	5/8" x 2-1/4"	WHITE	YES	8	60004W11
6"		5	5/8" x 2-1/4"	BLACK	-	10	60005B10
6"		5	5/8" x 2-1/4"	BLACK	YES	10	60005B11
6"		5	5/8" x 2-1/4"	WHITE	-	10	60005W10
6"		5	5/8" x 2-1/4"	WHITE	YES	10	60005W11
6-1/2"		3	5/8" x 2-1/4"	BLACK	-	6	65003B10
6-1/2"		3	5/8" x 2-1/4"	BLACK	YES	6	65003B11
6-1/2"		3	5/8" x 2-1/4"	WHITE	-	6	65003W10
6-1/2"		3	5/8" x 2-1/4"	WHITE	YES	6	65003W11
6-1/2"		4	5/8" x 2-1/4"	BLACK	-	8	65004B10
6-1/2"		4	5/8" x 2-1/4"	BLACK	YES	8	65004B11
6-1/2"		4	5/8" x 2-1/4"	WHITE	-	8	65004W10
6-1/2"		4	5/8" x 2-1/4"	WHITE	YES	8	65004W11
6-5/8"	6"	3	5/8" x 2-1/4"	BLACK	-	6	66253B10
6-5/8"	6"	3	5/8" x 2-1/4"	BLACK	YES	6	66253B11
6-5/8"	6"	3	5/8" x 2-1/4"	WHITE	-	6	66253W10
6-5/8"	6"	3	5/8" x 2-1/4"	WHITE	YES	6	66253W11
6-5/8"	6"	4	5/8" x 2-1/4"	BLACK	-	8	66254B10
6-5/8"	6"	4	5/8" x 2-1/4"	BLACK	YES	8	66254B11
6-5/8"	6"	4	5/8" x 2-1/4"	WHITE	-	8	66254W10
6-5/8"	6"	4	5/8" x 2-1/4"	WHITE	YES	8	66254W11
6-5/8"	6"	5	5/8" x 2-1/4"	BLACK	-	10	66255B10
6-5/8"	6"	5	5/8" x 2-1/4"	BLACK	YES	10	66255B11
6-5/8"	6"	5	5/8" x 2-1/4"	WHITE	-	10	66255W10
6-5/8"	6"	5	5/8" x 2-1/4"	WHITE	YES	10	66255W11
7"		3	5/8" x 2-1/4"	BLACK	-	6	70003B10
7"		3	5/8" x 2-1/4"	BLACK	YES	6	70003B11
7"		3	5/8" x 2-1/4"	WHITE	-	6	70003W10
7"		3	5/8" x 2-1/4"	WHITE	YES	6	70003W11
7"		4	5/8" x 2-1/4"	BLACK	-	8	70004B10
7"		4	5/8" x 2-1/4"	BLACK	YES	8	70004B11
7"		4	5/8" x 2-1/4"	WHITE	-	8	70004W10
7"		4	5/8" x 2-1/4"	WHITE	YES	8	70004W11
7-1/2"		3	5/8" x 2-1/4"	BLACK	-	6	75003B10
7-1/2"		3	5/8" x 2-1/4"	BLACK	YES	6	75003B11

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*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Metflo™ Compression Couplings - cont.

"Our own signature coupling"

- WE ARE CAPABLE OF PRODUCING STAINLESS AND ALUMINUM COMPRESSION COUPLINGS
- STANDARD GASKET IS BLACK NEOPRENE
- OTHER GASKETS ARE AVAILABLE: WHITE NITRILE, RED RUBBER, SILICONE, EPDM AND VITON
- STAINLESS STEEL GASKET PROTECTORS ARE ALSO AVAILABLE
- WE CAN FURNISH YOU WITH REPLACEMENT NUTS, BOLTS, GASKETS AND STATIC STRIPS

OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
7-1/2"		3	5/8" x 2-1/4"	WHITE	-	6	75003W10
7-1/2"		3	5/8" x 2-1/4"	WHITE	YES	6	75003W11
7-1/2"		4	5/8" x 2-1/4"	BLACK	-	8	75004B10
7-1/2"		4	5/8" x 2-1/4"	BLACK	YES	8	75004B11
7-1/2"		4	5/8" x 2-1/4"	WHITE	-	8	75004W10
7-1/2"		4	5/8" x 2-1/4"	WHITE	YES	8	75004W11
8"		2	3/4" x 3"	BLACK	-	6	80002B10
8"		2	3/4" x 3"	BLACK	YES	6	80002B11
8"		2	3/4" x 3"	WHITE	-	6	80002W10
8"		2	3/4" x 3"	WHITE	YES	6	80002W11
8"		3	3/4" x 3"	BLACK	-	8	80003B10
8"		3	3/4" x 3"	BLACK	YES	8	80003B11
8"		3	3/4" x 3"	RED	-	8	80003R10
8"		3	3/4" x 3"	RED	YES	8	80003R11
8"		3	3/4" x 3"	WHITE	-	8	80003W10
8"		3	3/4" x 3"	WHITE	YES	8	80003W11
8"		4	3/4" x 3"	BLACK	-	10	80004B10
8"		4	3/4" x 3"	BLACK	YES	10	80004B11
8"		4	3/4" x 3"	RED	-	10	80004R10
8"		4	3/4" x 3"	RED	YES	10	80004R11
8"		4	3/4" x 3"	WHITE	-	10	80004W10
8"		4	3/4" x 3"	WHITE	YES	10	80004W11
8"		5	3/4" x 3"	BLACK	-	12	80005B10
8"		5	3/4" x 3"	BLACK	YES	12	80005B11
8"		5	3/4" x 3"	WHITE	-	12	80005W10
8"		5	3/4" x 3"	WHITE	YES	12	80005W11
8-5/8"	8"	2	3/4" x 3"	BLACK	-	6	86252B10
8-5/8"	8"	2	3/4" x 3"	BLACK	YES	6	86252B11
8-5/8"	8"	2	3/4" x 3"	WHITE	-	6	86252W10
8-5/8"	8"	2	3/4" x 3"	WHITE	YES	6	86252W11
8-5/8"	8"	3	3/4" x 3"	BLACK	-	8	86253B10
8-5/8"	8"	3	3/4" x 3"	BLACK	YES	8	86253B11
8-5/8"	8"	3	3/4" x 3"	WHITE	-	8	86253W10
8-5/8"	8"	3	3/4" x 3"	WHITE	YES	8	86253W11
8-5/8"	8"	4	3/4" x 3"	BLACK	-	10	86254B10
8-5/8"	8"	4	3/4" x 3"	BLACK	YES	10	86254B11
8-5/8"	8"	4	3/4" x 3"	WHITE	-	10	86254W10
8-5/8"	8"	4	3/4" x 3"	WHITE	YES	10	86254W11
8-5/8"	8"	5	3/4" x 3"	BLACK	-	12	86255B10
8-5/8"	8"	5	3/4" x 3"	BLACK	YES	12	86255B11
8-5/8"	8"	5	3/4" x 3"	WHITE	-	12	86255W10



MetFlo™ Compression Coupling

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions
are nominal.



Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

- 1-1/2" through 14" OD for tube
- 1-1/4" through 12" NPS for pipe
- The MetFlo Compression Coupling offers superior strength.
- Zinc plated, steel reinforcement bars provide additional strength and stability.
- Grade 5 stress relieved bolts ensure a trouble-free installation.
- G90 galvanized exterior coating provides superior corrosion resistance.
- Heavy 16 gauge outer shell on all couplings over 3-1/4" in diameter provides added strength and dimensional stability.
- Industry compatible, precision diecut gasket ensures a tight seal.
- Stainless steel strip guards against static electricity build-up.
- Our standard material is Zinc-Coated (Galvanized)

Special services we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

KEY

OD = Outside Diameter
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Metflo™ Compression Couplings - cont.

"Our own signature coupling"

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- STAINLESS STEEL GASKET PROTECTORS ARE ALSO AVAILABLE
- WE CAN FURNISH YOU WITH REPLACEMENT NUTS, BOLTS, GASKETS AND STATIC STRIPS

OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
8-5/8"	8"	5	3/4" x 3"	WHITE	YES	12	86255W11
9"		3	3/4" x 3"	BLACK	-	8	90003B10
9"		3	3/4" x 3"	BLACK	YES	8	90003B11
9"		3	3/4" x 3"	WHITE	-	8	90003W10
9"		3	3/4" x 3"	WHITE	YES	8	90003W11
9"		4	3/4" x 3"	BLACK	-	10	90004B10
9"		4	3/4" x 3"	BLACK	YES	10	90004B11
9"		4	3/4" x 3"	WHITE	-	10	90004W10
9"		4	3/4" x 3"	WHITE	YES	10	90004W11
10"		3	3/4" x 3"	BLACK	-	8	100003B10
10"		3	3/4" x 3"	BLACK	YES	8	100003B11
10"		3	3/4" x 3"	WHITE	-	8	100003W10
10"		3	3/4" x 3"	WHITE	YES	8	100003W11
10"		3	3/4" x 3"	RED	-	8	100003R10
10"		3	3/4" x 3"	RED	YES	8	100003R11
10"		4	3/4" x 3"	BLACK	-	10	100004B10
10"		4	3/4" x 3"	BLACK	YES	10	100004B11
10"		4	3/4" x 3"	WHITE	-	10	100004W10
10"		4	3/4" x 3"	WHITE	YES	10	100004W11
10"		4	3/4" x 3"	RED	-	10	100004R10
10"		4	3/4" x 3"	RED	YES	10	100004R11
10"		5	3/4" x 3"	BLACK	-	12	100005B10
10"		5	3/4" x 3"	BLACK	YES	12	100005B11
10"		5	3/4" x 3"	WHITE	-	12	100005W10
10"		5	3/4" x 3"	WHITE	YES	12	100005W11
10-3/4"	10"	3	3/4" x 3"	BLACK	-	8	107503B10
10-3/4"	10"	3	3/4" x 3"	BLACK	YES	8	107503B11
10-3/4"	10"	3	3/4" x 3"	WHITE	-	8	107503W10
10-3/4"	10"	3	3/4" x 3"	WHITE	YES	8	107503W11
10-3/4"	10"	4	3/4" x 3"	BLACK	-	10	107504B10
10-3/4"	10"	4	3/4" x 3"	BLACK	YES	10	107504B11
10-3/4"	10"	4	3/4" x 3"	WHITE	-	10	107504W10
10-3/4"	10"	4	3/4" x 3"	WHITE	YES	10	107504W11
10-3/4"	10"	5	3/4" x 3"	BLACK	-	12	107505B10
10-3/4"	10"	5	3/4" x 3"	BLACK	YES	12	107505B11
10-3/4"	10"	5	3/4" x 3"	WHITE	-	12	107505W10
10-3/4"	10"	5	3/4" x 3"	WHITE	YES	12	107505W11
12"		3	3/4" x 3"	BLACK	-	8	120003B10
12"		3	3/4" x 3"	BLACK	YES	8	120003B11
12"		3	3/4" x 3"	WHITE	-	8	120003W10
12"		3	3/4" x 3"	WHITE	YES	8	120003W11

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

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Metflo™ Compression Couplings - cont.

"Our own signature coupling"

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- STANDARD GASKET IS BLACK NEOPRENE
- OTHER GASKETS ARE AVAILABLE: WHITE NITRILE, RED RUBBER, SILICONE, EPDM AND VITON
- STAINLESS STEEL GASKET PROTECTORS ARE ALSO AVAILABLE
- WE CAN FURNISH YOU WITH REPLACEMENT NUTS, BOLTS, GASKETS AND STATIC STRIPS

OD	NPS	NO. BOLT	BOLT SIZE	GASKET	PROTECTOR	LENGTH	PART NO.
12"		4	3/4" x 3"	BLACK	-	10	120004B10
12"		4	3/4" x 3"	BLACK	YES	10	120004B11
12"		4	3/4" x 3"	RED	-	10	120004R10
12"		4	3/4" x 3"	RED	YES	10	120004R11
12"		4	3/4" x 3"	WHITE	-	10	120004W10
12"		4	3/4" x 3"	WHITE	YES	10	120004W11
12"		5	3/4" x 3"	BLACK	-	12	120005B10
12"		5	3/4" x 3"	BLACK	YES	12	120005B11
12"		5	3/4" x 3"	WHITE	-	12	120005W10
12"		5	3/4" x 3"	WHITE	YES	12	120005W11
12"		5	3/4" x 3"	RED	-	12	120005R10
12"		5	3/4" x 3"	RED	YES	12	120005R11
12-3/4"	12"	3	3/4" x 3"	BLACK	-	8	127503B10
12-3/4"	12"	3	3/4" x 3"	BLACK	YES	8	127503B11
12-3/4"	12"	3	3/4" x 3"	WHITE	-	8	127503W10
12-3/4"	12"	3	3/4" x 3"	WHITE	YES	8	127503W11
12-3/4"	12"	4	3/4" x 3"	BLACK	-	10	127504B10
12-3/4"	12"	4	3/4" x 3"	BLACK	YES	10	127504B11
12-3/4"	12"	4	3/4" x 3"	WHITE	-	10	127504W10
12-3/4"	12"	4	3/4" x 3"	WHITE	YES	10	127504W11
12-3/4"	12"	5	3/4" x 3"	BLACK	-	12	127505B10
12-3/4"	12"	5	3/4" x 3"	BLACK	YES	12	127505B11
12-3/4"	12"	5	3/4" x 3"	WHITE	-	12	127505W10
12-3/4"	12"	5	3/4" x 3"	WHITE	YES	12	127505W11
14"	14"	4	3/4" x 3"	BLACK	-	10	140004B10
14"	14"	4	3/4" x 3"	BLACK	YES	10	140004B11
14"	14"	4	3/4" x 3"	WHITE	-	10	140004W10
14"	14"	4	3/4" x 3"	WHITE	YES	10	140004W11
14"	14"	4	3/4" x 3"	RED	-	10	140004R10
14"	14"	4	3/4" x 3"	RED	YES	10	140004R11
14"	14"	5	3/4" x 3"	BLACK	-	12	140005B10
14"	14"	5	3/4" x 3"	BLACK	YES	12	140005B11
14"	14"	5	3/4" x 3"	WHITE	-	12	140005W10
14"	14"	5	3/4" x 3"	WHITE	YES	12	140005W11

KEY

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MetFlo™ Compression Coupling

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Other gaskets available:

White Nitrile, Red Rubber, Silicone, EPDM and Viton

- Stainless Steel gasket protectors are also available
- We can furnish you with Replacement Nuts, Bolts, Gaskets and Static Strips

Special services we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

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Gaskets (Tube & Pipe)

OD	NPS	LENGTH	DESC.	PART NO.
1-1/2"		4	2-Bolt Black	15002B
1-1/2"		4	2-Bolt White	15002W
1-1/2"		4	2-Bolt Protector	15002GP
1-1/2"		6	3-Bolt Black	15003B
1-1/2"		6	3-Bolt White	15003W
1-1/2"		6	3-Bolt Protector	15003GP
1-21/32"	1-1/4"	4	2-Bolt Black	16602B
1-21/32"	1-1/4"	4	2-Bolt White	16602W
1-21/32"	1-1/4"	4	2-Bolt Protector	16602GP
1-21/32"	1-1/4"	6	3-Bolt Black	16603B
1-21/32"	1-1/4"	6	3-Bolt White	16603W
1-21/32"	1-1/4"	6	3-Bolt Protector	16603GP
1-3/4"		4	2-Bolt Black	17502B
1-3/4"		4	2-Bolt White	17502W
1-3/4"		4	2-Bolt Protector	17502GP
1-3/4"		6	3-Bolt Black	17503B
1-3/4"		6	3-Bolt White	17503W
1-3/4"		6	3-Bolt Protector	17503GP
1-29/32"	1-1/2"	4	2-Bolt Black	19002B
1-29/32"	1-1/2"	4	2-Bolt White	19002W
1-29/32"	1-1/2"	4	2-Bolt Protector	19002GP
1-29/32"	1-1/2"	6	3-Bolt Black	19003B
1-29/32"	1-1/2"	6	3-Bolt White	19003W
1-29/32"	1-1/2"	6	3-Bolt Protector	19003GP
2"		4	2-Bolt Black	20002B
2"		4	2-Bolt White	20002W
2"		4	2-Bolt Protector	20002GP
2"		6	3-Bolt Black	20003B
2"		6	3-Bolt White	20003W
2"		6	3-Bolt Protector	20003GP
2-1/8"		4	2-Bolt Black	21252B
2-1/8"		4	2-Bolt White	21252W
2-1/8"		4	2-Bolt Protector	21252GP
2-1/8"		4	2-Bolt Black	21253B
2-1/8"		6	3-Bolt White	21253W
2-1/8"		6	3-Bolt Protector	21253GP
2-1/8"		6	3-Bolt Red	21253R
2-3/16"		4	2-Bolt Black	21882B
2-3/16"		4	2-Bolt White	21882W
2-3/16"		4	2-Bolt Protector	21882GP
2-3/16"		6	3-Bolt Black	21883B
2-3/16"		6	3-Bolt White	21883W
2-3/16"		6	3-Bolt Protector	21883GP

OD	NPS	LENGTH	DESC.	PART NO.
2-1/4"		4	2-Bolt Black	22502B
2-1/4"		4	2-Bolt White	22502W
2-1/4"		4	2-Bolt Protector	22502GP
2-1/4"		6	3-Bolt Black	22503B
2-1/4"		6	3-Bolt White	22503W
2-1/4"		6	3-Bolt Protector	22503GP
2-3/8"	2"	4	2-Bolt Black	23752B
2-3/8"	2"	4	2-Bolt White	23752W
2-3/8"	2"	4	2-Bolt Protector	23752GP
2-3/8"	2"	6	3-Bolt Black	23753B
2-3/8"	2"	6	3-Bolt White	23753W
2-3/8"	2"	6	3-Bolt Protector	23753GP
2-3/8"	2"	8	4-Bolt Black	23754B
2-3/8"	2"	8	4-Bolt White	23754W
2-3/8"	2"	8	4-Bolt Protector	23754GP
2-1/2"		4	2-Bolt Black	25002B
2-1/2"		4	2-Bolt White	25002W
2-1/2"		4	2-Bolt Protector	25002GP
2-1/2"		6	3-Bolt Black	25003B
2-1/2"		6	3-Bolt Silicone	25003S
2-1/2"		6	3-Bolt White	25003W
2-1/2"		6	3-Bolt Protector	25003GP
2-3/4"		4	2-Bolt Black	27502B
2-3/4"		4	2-Bolt White	27502W
2-3/4"		4	2-Bolt Protector	27502GP
2-3/4"		6	3-Bolt Black	27503B
2-3/4"		6	3-Bolt White	27503W
2-3/4"		6	3-Bolt Protector	27503GP
2-7/8"	2-1/2"	4	2-Bolt Black	28752B
2-7/8"	2-1/2"	4	2-Bolt White	28752W
2-7/8"	2-1/2"	4	2-Bolt Protector	28752GP
2-7/8"	2-1/2"	6	3-Bolt	28753B
2-7/8"	2-1/2"	6	3-Bolt White	28753W
2-7/8"	2-1/2"	6	3-Bolt Protector	28753GP
2-7/8"	2-1/2"	8	4-Bolt	28754B
2-7/8"	2-1/2"	8	4-Bolt White	28754W
2-7/8"	2-1/2"	8	4-Bolt Protector	28754GP
3"		4	2-Bolt	30002B
3"		4	2-Bolt White	30002W
3"		4	2-Bolt Protector	30002GP
3"		6	3-Bolt	30003B
3"		6	3-Bolt White	30003W
3"		6	3-Bolt Protector	30003GP

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Gaskets (Tube & Pipe)

OD	NPS	LENGTH	DESC.	PART NO.
3"		8	4-Bolt	30004B
3"		8	4-Bolt White	30004W
3"		8	4-Bolt Protector	30004GP
3-1/4"		6	3-Bolt	32503B
3-1/4"		6	3-Bolt White	32503W
3-1/4"		6	3-Bolt Protector	32503GP
3-1/4"		8	4-Bolt	32504B
3-1/4"		8	4-Bolt White	32504W
3-1/4"		8	4-Bolt Protector	32504GP
3-1/2"	3"	4	2-Bolt	35002B
3-1/2"	3"	4	2-Bolt White	35002W
3-1/2"	3"	4	2-Bolt Protector	35002GP
3-1/2"	3"	6	3-Bolt Protector	35003B
3-1/2"	3"	6	3-Bolt White	35003W
3-1/2"	3"	6	3-Bolt Protector	35003GP
3-1/2"	3"	8	4-Bolt	35004B
3-1/2"	3"	8	4-Bolt White	35004W
3-1/2"	3"	8	4-Bolt Protector	35004GP
3-3/4"		6	3-Bolt	37503B
3-3/4"		6	3-Bolt White	37503W
3-3/4"		6	3-Bolt Protector	37503GP
3-3/4"		8	4-Bolt	37504B
3-3/4"		8	4-Bolt White	37504W
3-3/4"		8	4-Bolt Protector	37504GP
4"	3-1/2"	4	2-Bolt	40002B
4"	3-1/2"	4	2-Bolt White	40002W
4"	3-1/2"	4	2-Bolt Protector	40002GP
4"	3-1/2"	6	3-Bolt	40003B
4"	3-1/2"	6	3-Bolt White	40003W
4"	3-1/2"	6	3-Bolt Protector	40003GP
4"	3-1/2"	8	4-Bolt	40004B
4"	3-1/2"	8	4-Bolt White	40004W
4"	3-1/2"	8	4-Bolt Protector	40004GP
4-1/4"		6	3-Bolt	42503B
4-1/4"		6	3-Bolt White	42503W
4-1/4"		6	3-Bolt Protector	42503GP
4-1/4"		8	4-Bolt	42504B
4-1/4"		8	4-Bolt White	42504W
4-1/4"		8	4-Bolt Protector	42504GP
4-1/2"	4"	4	2-Bolt	45002B
4-1/2"	4"	4	2-Bolt White	45002W
4-1/2"	4"	4	2-Bolt Protector	45002GP
4-1/2"	4"	6	3-Bolt	45003B

OD	NPS	LENGTH	DESC.	PART NO.
4-1/2"	4"	6	3-Bolt White	45003W
4-1/2"	4"	6	3-Bolt Protector	45003GP
4-1/2"	4"	8	4-Bolt	45004B
4-1/2"	4"	8	4-Bolt White	45004W
4-1/2"	4"	8	4-Bolt Protector	45004GP
4-3/4"		6	3-Bolt	47503B
4-3/4"		6	3-Bolt White	47503W
4-3/4"		6	3-Bolt Protector	47503GP
4-3/4"		8	4-Bolt	47504B
4-3/4"		8	4-Bolt White	47504W
4-3/4"		8	4-Bolt Protector	47504GP
5"		4	2-Bolt	50002B
5"		4	2-Bolt White	50002W
5"		4	2-Bolt Protector	50002GP
5"		6	3-Bolt	50003B
5"		6	3-Bolt White	50003W
5"		6	3-Bolt Protector	50003GP
5"		8	4-Bolt	50004B
5"		8	4-Bolt White	50004W
5"		8	4-Bolt Protector	50004GP
5-1/4"		6	3-Bolt Black	52503B
5-1/4"		6	3-Bolt White	52503W
5-1/4"		6	3-Bolt Protector	52503GP
5-1/4"		8	4-Bolt	52504B
5-1/4"		8	4-Bolt White	52504W
5-1/4"		8	4-Bolt Protector	52504GP
5-1/2"		6	3-Bolt Black	55003B
5-1/2"		6	3-Bolt White	55003W
5-1/2"		6	3-Bolt Protector	55003GP
5-1/2"		8	4-Bolt Black	55004B
5-1/2"		8	4-Bolt White	55004W
5-1/2"		8	4-Bolt Protector	55004GP
5-9/16"	5"	6	3-Bolt Black	55633B
5-9/16"	5"	6	3-Bolt White	55633W
5-9/16"	5"	6	3-Bolt Protector	55633GP
5-9/16"	5"	8	4-Bolt Black	55634B
5-9/16"	5"	8	4-Bolt White	55634W
5-9/16"	5"	8	4-Bolt Protector	55634GP
5-3/4"		6	3-Bolt Black	57503B
5-3/4"		6	3-Bolt White	57503W
5-3/4"		6	3-Bolt Protector	57503GP
5-3/4"		8	4-Bolt Black	57504B
5-3/4"		8	4-Bolt White	57504W

Other gaskets available:

White Nitrile, Red Rubber, Silicone, EPDM and Viton

- Stainless Steel gasket protectors are also available
- We can furnish you with Replacement Nuts, Bolts, Gaskets and Static Strips

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions are nominal.

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Other gaskets available:

White Nitrile, Red Rubber,
Silicone, EPDM and Viton

- Stainless Steel gasket
protectors are also
available
- We can furnish you with
Replacement Nuts, Bolts,
Gaskets and Static Strips

Special services we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside
Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

KEY

OD = Outside Diameter
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are nominal.

Gaskets (Tube & Pipe)

OD	NPS	LENGTH	DESC.	PART NO.
5-3/4"		8	4-Bolt Protector	57504GP
6"		4	2-Bolt Black	60002B
6"		4	2-Bolt White	60002W
6"		4	2-Bolt Protector	60002GP
6"		6	3-Bolt Black	60003B
6"		6	3-Bolt White	60003W
6"		6	3-Bolt Protector	60003GP
6"		8	4-Bolt Black	60004B
6"		8	4-Bolt Silicone	60004S
6"		8	4-Bolt White	60004W
6"		10	4-Bolt Protector	60004GP
6"		10	5-Bolt Black	60005B
6"		10	5-Bolt White	60005W
6"		10	5-Bolt Protector	60005GP
6-1/4"		6	3-Bolt Black	62503B
6-1/4"		6	3-Bolt White	62503W
6-1/4"		6	3-Bolt Protector	62503GP
6-1/4"		8	4-Bolt Black	62504B
6-1/4"		8	4-Bolt White	62504W
6-1/4"		8	4-Bolt Protector	62504GP
6-1/2"		6	3-Bolt Black	65003B
6-1/2"		6	3-Bolt White	65003W
6-1/2"		6	3-Bolt Protector	65003GP
6-1/2"		8	4-Bolt Black	65004B
6-1/2"		8	4-Bolt White	65004W
6-1/2"		8	4-Bolt Protector	65004GP
6-5/8"	6"	6	3-Bolt Black	66253B
6-5/8"	6"	6	3-Bolt White	66253W
6-5/8"	6"	6	3-Bolt Protector	66253GP
6-5/8"	6"	8	4-Bolt Black	66254B
6-5/8"	6"	8	4-Bolt White	66254W
6-5/8"	6"	8	4-Bolt Protector	66254GP
6-5/8"	6"	10	5-Bolt Black	66255B
6-5/8"	6"	10	5-Bolt White	66255W
6-5/8"	6"	10	5-Bolt Protector	66255GP
6-3/4"		6	3-Bolt Black	67503B
6-3/4"		6	3-Bolt White	67503W
6-3/4"		6	3-Bolt Protector	67503GP
6-3/4"		8	4-Bolt Black	67504B
6-3/4"		8	4-Bolt White	67504W
6-3/4"		8	4-Bolt Protector	67504GP
7"		6	3-Bolt Black	70003B
7"		6	3-Bolt White	70003W

OD	NPS	LENGTH	DESC.	PART NO.
7"		6	3-Bolt Protector	70003GP
7"		8	4-Bolt Black	70004B
7"		8	4-Bolt White	70004W
7"		8	4-Bolt Protector	70004GP
7-1/4"		6	3-Bolt Black	72503B
7-1/4"		6	3-Bolt White	72503W
7-1/4"		6	3-Bolt Protector	72503GP
7-1/4"		8	4-Bolt Black	72504B
7-1/4"		8	4-Bolt White	72504W
7-1/4"		8	4-Bolt Protector	72504GP
7-1/2"		6	3-Bolt Black	75003B
7-1/2"		6	3-Bolt White	75003W
7-1/2"		6	3-Bolt Protector	75003GP
7-1/2"		8	4-Bolt Protector	75004B
7-1/2"		8	4-Bolt White	75004W
7-1/2"		8	4-Bolt Protector	75004GP
7-3/4"		6	3-Bolt Black	77503B
7-3/4"		6	3-Bolt White	77503W
7-3/4"		6	3-Bolt Protector	77503GP
7-3/4"		8	4-Bolt Black	77504B
7-3/4"		8	4-Bolt White	77504W
7-3/4"		8	4-Bolt Protector	77504GP
8"		6	2-Bolt Black	80002B
8"		6	2-Bolt White	80002W
8"		6	2-Bolt Protector	80002GP
8"		8	3-Bolt Black	80003B
8"		8	3-Bolt White	80003W
8"		8	3-Bolt Protector	80003GP
8"		10	4-Bolt Black	80004B
8"		10	4-Bolt White	80004W
8"		10	4-Bolt Protector	80004GP
8"		12	5-Bolt Black	80005B
8"		12	5-Bolt White	80005W
8"		12	5-Bolt Protector	80005GP
8-5/8"	8"	6	2-Bolt Black	86252B
8-5/8"	8"	6	2-Bolt White	86252W
8-5/8"	8"	6	2-Bolt Protector	86252GP
8-5/8"	8"	8	3-Bolt Black	86253B
8-5/8"	8"	8	3-Bolt White	86253W
8-5/8"	8"	8	3-Bolt Protector	86253GP
8-5/8"	8"	10	4-Bolt Black	86254B
8-5/8"	8"	10	4-Bolt White	86254W
8-5/8"	8"	10	4-Bolt Protector	86254GP

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Gaskets (Tube & Pipe)

OD	NPS	LENGTH	DESC.	PART NO.
8-5/8"	8"	12	5-Bolt Black	86255B
8-5/8"	8"	12	5-Bolt White	86255W
8-5/8"	8"	12	5-Bolt Protector	86255GP
9"		8	3-Bolt Black	90003B
9"		8	3-Bolt Protector	90003GP
9"		8	3-Bolt White	90003W
9"		10	4-Bolt Black	90004B
9"		10	4-Bolt White	90004W
9"		10	4-Bolt Protector	90004GP
10"		8	3-Bolt Black	100003B
10"		8	3-Bolt White	100003W
10"		8	3-Bolt Protector	100003GP
10"		10	4-Bolt Black	100004B
10"		10	4-Bolt White	100004W
10"		10	4-Bolt Protector	100004GP
10"		12	5-Bolt Black	100005B
10"		12	5-Bolt White	100005W
10"		12	5-Bolt Protector	100005GP
10-3/4"	10	8	3-Bolt Black	107503B
10-3/4"	10	8	3-Bolt White	107503W
10-3/4"	10	8	3-Bolt Protector	107503GP
10-3/4"	10	10	4-Bolt Black	107504B
10-3/4"	10	10	4-Bolt White	107504W
10-3/4"	10	10	4-Bolt Protector	107504GP
10-3/4"	10	12	5-Bolt Black	107505B
10-3/4"	10	12	5-Bolt White	107505W
10-3/4"	10	12	5-Bolt Protector	107505GP
12"		8	3-Bolt Black	120003B
12"		8	3-Bolt White	120003W
12"		8	3-Bolt Protector	120003GP
12"		10	4-Bolt Black	120004B
12"		10	4-Bolt White	120004W
12"		10	4-Bolt Protector	120004GP
12"		12	5-Bolt Black	120005B
12"		12	5-Bolt White	120005W
12"		12	5-Bolt Protector	120005GP
12-3/4"	12"	8	3-Bolt Black	127503B
12-3/4"	12"	8	3-Bolt White	127503W
12-3/4"	12"	8	3-Bolt Protector	127503GP
12-3/4"	12"	10	4-Bolt Black	127504B
12-3/4"	12"	10	4-Bolt White	127504W
12-3/4"	12"	10	4-Bolt Protector	127504GP
12-3/4"	12"	12	5-Bolt Black	127505B

OD	NPS	LENGTH	DESC.	PART NO.
12-3/4"	12"	12	5-Bolt White	127505W
12-3/4"	12"	12	5-Bolt Protector	127505GP
14"	14"	10	4-Bolt Black	140004B
14"	14"	10	4-Bolt White	140004W
14"	14"	10	4-Bolt Protector	140004GP
14"	14"	12	5-Bolt Black	140005B
14"	14"	12	5-Bolt White	140005W
14"	14"	12	5-Bolt Protector	140005GP

KEY

OD = Outside Diameter
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All reference dimensions
are nominal.

Other gaskets available:

White Nitrile, Red Rubber, Silicone, EPDM and Viton

- Stainless Steel gasket protectors are also available
- We can furnish you with Replacement Nuts, Bolts, Gaskets and Static Strips

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

The Eliminator, with its extra holding power, is ideal for higher pressure systems. Bands at either end of the Eliminator provide metal to metal "gripping" to eliminate end pull. There is even an Elbow Eliminator that offers extra holding power at problem turns in the system. The Elbow Eliminator allows for minimum tangents and can be used for either side.

- 2" to 12" OD for Tube
- 2" to 12" NPS for Pipe

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside
Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

OD = Outside Diameter
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are nominal.

Eliminators

- KITS ARE AVAILABLE TO CONVERT EXISTING COUPLINGS INTO ELIMINATORS
- STANDARD GASKET IS BLACK NEOPRENE
- GASKETS ALSO AVAILABLE IN WHITE NITRILE, RED RUBBER, SILICONE, EPDM, VITON

OD	NPS	LENGTH	NO. BOLTS	DESCRIPTION	PART NO.
2"		18"	3	Black Gasket	20003B10EL
2"		18"	3	White Gasket	20003W10EL
2-3/8"	2"	18"	3	Pipe Black Gasket	23753B10EL
2-3/8"	2"	18"	3	Pipe White Gasket	23753W10EL
2-1/2"		18"	3	Black Gasket	25003B10EL
2-1/2"		18"	3	White Gasket	25003W10EL
2-7/8"	2-1/2"	18"	3	Pipe Black Gasket	28753B10EL
2-7/8"	2-1/2"	18"	3	Pipe White Gasket	28753W10EL
3"		18"	3	Black Gasket	30003B10EL
3"		18"	3	White Gasket	30003W10EL
3"		20"	4	Black Gasket	30004B10EL
3"		20"	4	White Gasket	30004W10EL
3-1/2"	3"	18"	3	Tube/Pipe Black Gasket	35003B10EL
3-1/2"	3"	18"	3	Tube/Pipe White Gasket	35003W10EL
3-1/2"	3"	20"	4	Tube/Pipe Black Gasket	35004B10EL
3-1/2"	3"	20"	4	Tube/Pipe White Gasket	35004W10EL
4"	3-1/2"	18"	3	Black Gasket	40003B10EL
4"	3-1/2"	18"	3	White Gasket	40003W10EL
4"	3-1/2"	20"	4	Black Gasket	40004B10EL
4"	3-1/2"	20"	4	White Gasket	40004W10EL
4-1/2"	4"	18"	3	Pipe Black Gasket	45003B10EL
4-1/2"	4"	18"	3	Pipe White Gasket	45003W10EL
4-1/2"	4"	20"	4	Pipe Black Gasket	45004B10EL
4-1/2"	4"	20"	4	Pipe White Gasket	45004W10EL
5"		18"	3	5" Black Gasket	50003B10EL
5"		18"	3	5" White Gasket	50003W10EL
5"		20"	4	5" White Gasket	50004W10EL
5-9/16"	5"	18"	3	5" Pipe Black Gasket	55633B10EL
5-9/16"	5"	18"	3	5" Pipe White Gasket	55633W10EL
5-9/16"	5"	20"	4	5" Pipe Black Gasket	55634B10EL
5-9/16"	5"	20"	4	5" Pipe White Gasket	55634W10EL
6"		18"	3	Black Gasket	60003B10EL
6"		18"	3	White Gasket	60003W10EL
6"		20"	4	Black Gasket	60004B10EL
6"		20"	4	White Gasket	60004W10EL
6-5/8"	6"	18"	3	Pipe Black Gasket	66253B10EL
6-5/8"	6"	18"	3	Pipe White Gasket	66253W10EL
6-5/8"	6"	20"	4	Pipe Black Gasket	66254B10EL
6-5/8"	6"	20"	4	Pipe White Gasket	66254W10EL
8"		18"	3	Black Gasket	80003B10EL
8"		18"	3	White Gasket	80003W10EL
8"		20"	4	Black Gasket	80004B10EL
8"		20"	4	White Gasket	80004W10EL
8-5/8"	8"	18"	3	Pipe Black Gasket	86253B10EL

KEY

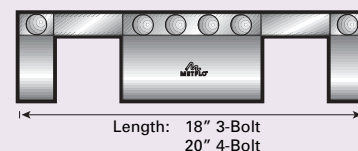
*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Eliminators - cont.

- KITS ARE AVAILABLE TO CONVERT EXISTING COUPLINGS INTO ELIMINATORS
- STANDARD GASKET IS BLACK NEOPRENE
- GASKETS ALSO AVAILABLE IN WHITE NITRILE, RED RUBBER, SILICONE, EPDM, VITON

OD	NPS	LENGTH	NO. BOLTS	DESCRIPTION	PART NO.
8-5/8"	8"	18"	3	Pipe White Gasket	86253W10EL
8-5/8"	8"	20"	4	Pipe Black Gasket	86254B10EL
8-5/8"	8"	20"	4	Pipe White Gasket	86254W10EL
10"		18"	3	Black Gasket	100003B10EL
10"		18"	3	White Gasket	100003W10EL
10"		20"	4	Black Gasket	100004B10EL
10"		20"	4	White Gasket	100004W10EL
10-3/4"	10"	18"	3	Pipe Black Gasket	107503B10EL
10-3/4"	10"	18"	3	Pipe White Gasket	107503W10EL
10-3/4"	10"	20"	4	Pipe Black Gasket	107504B10EL
10-3/4"	10"	20"	4	Pipe White Gasket	107504W10EL
12"		18"	3	Black Gasket	120003B10EL
12"		18"	3	White Gasket	120003W10EL
12"		20"	4	White Gasket	120004W10EL
12"		20"	4	Black Gasket	120004B10EL
12-3/4"	12"	18"	3	Pipe Black Gasket	127503B10EL
12-3/4"	12"	18"	3	Pipe White Gasket	127503W10EL
12-3/4"	12"	20"	4	Pipe Black Gasket	127504B10EL
12-3/4"	12"	20"	4	Pipe White Gasket	127504W10EL



Eliminator

Eliminator Kits

- STANDARD GASKET IS BLACK NEOPRENE
- GASKETS ALSO AVAILABLE IN WHITE NITRILE, RED RUBBER, SILICONE, EPDM, VITON

OD	NPS	LENGTH	NO. BOLTS	DESCRIPTION	PART NO.
2"		18"	3	Eliminator Kit	20003ELK
2-3/8"	2"	18"	3	Eliminator Kit	28753ELK
2-1/2"		18"	3	Eliminator Kit	25003ELK
2-7/8"	2-1/2"	18"	3	Eliminator Kit	281573ELK
3"		18"	3	Eliminator Kit	30003ELK
3"		20"	4	Eliminator Kit	30004ELK
3-1/2"	3"	18"	3	Eliminator Kit	35003ELK
3-1/2"	3"	20"	4	Eliminator Kit	35004ELK
4"	3-1/2"	18"	3	Eliminator Kit	40003ELK
4"	3-1/2"	20"	4	Eliminator Kit	40004ELK
4-1/2"	4"	18"	3	Eliminator Kit	45003ELK
4-1/2"	4"	20"	4	Eliminator Kit	45004ELK
5"		18"	3	Eliminator Kit	50003ELK
5"		20"	4	Eliminator Kit	50004ELK
5-9/16"	5"	18"	3	Eliminator Kit	55633ELK
5-9/16"	5"	20"	4	Eliminator Kit	55634ELK
6"		18"	3	Eliminator Kit	60003ELK
6"		20"	4	Eliminator Kit	60004ELK
6-5/8"	6"	18"	3	Eliminator Kit	66253ELK

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions
are nominal.

Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications Super Grips

The Super Grip was devised as a quick coupler for dry bulk transport tank tubing. This unique coupling slides onto the tubing or wraps around it and is tightened by hand in seconds, and it provides better support than rubber hose and band clamps. Our exclusive fail-safe clamping action keeps its hold despite expansion, contraction and vibration. The Super Grip positive sealing, interlocking gum rubber gasket allows for tube and pipe variations. And because it's made of 100% Stainless Steel, it will not corrode due to harsh weather or road conditions.

- 1-1/2" through 12" OD for tube
- 1-1/4" through 12" NPS for pipe

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions
are nominal.

Eliminator Kits - cont.

- STANDARD GASKET IS BLACK NEOPRENE
- GASKETS ALSO AVAILABLE IN WHITE NITRILE, RED RUBBER, SILICONE, EPDM, VITON

OD	NPS	LENGTH	NO. BOLTS	DESCRIPTION	PART NO.
6-5/8"	6"	20"	4	Eliminator Kit	66254ELK
8"		18"	3	Eliminator Kit	80003ELK
8"		20"	4	Eliminator Kit	80004ELK
8-5/8"	8"	18"	3	Eliminator Kit	86253ELK
8-5/8"	8"	20"	4	Eliminator Kit	86254ELK
10"		18"	3	Eliminator Kit	100003ELK
10"		20"	4	Eliminator Kit	100004ELK
10-3/4"	10"	18"	3	Eliminator Kit	107503ELK
10-3/4"	10"	20"	4	Eliminator Kit	107504ELK
12"		18"	3	Eliminator Kit	120003ELK
12"		20"	4	Eliminator Kit	120004ELK
12-3/4"	12"	18"	3	Eliminator Kit	127503ELK
12-3/4"	12"	20"	4	Eliminator Kit	127504ELK

Super Grips (Standard Gum Rubber Gasket)

- 100% STAINLESS STEEL
- F.D.A. APPROVED GASKETS ARE ALSO AVAILABLE
- STAINLESS STEEL GROUNDING STRIP STANDARD

OD	NPS	LENGTH	DESCRIPTION	PART NO.
1-21/32"	1-1/4"	4"	Pipe 1-Clamp	SG-16601-FDA
1-21/32"	1-1/4"	4"	Pipe 1-Clamp	SG-16601
1-1/2"		4"	1-Clamp	SG-15501-FDA
1-1/2"		4"	1-Clamp	SG-15501
1-29/32"	1-1/2"	4"	Pipe 1-Clamp	SG-19001-FDA
1-29/32"	1-1/2"	4"	Pipe 1-Clamp	SG-19001
1-3/4"		4"	1-Clamp	SG-17501-FDA
1-3/4"		4"	1-Clamp	SG-17501
2"		4"	1-Clamp	SG-20001-FDA
2"		4"	1-Clamp	SG-20001
2-3/8"	2"	4"	Pipe 1-Clamp	SG-23751-FDA
2-3/8"	2"	4"	Pipe 1-Clamp	SG-23751
2-1/8"		4"	1-Clamp	SG-21251-FDA
2-1/8"		4"	1-Clamp	SG-21251
2-1/4"		4"	1-Clamp	SG-22501-FDA
2-1/4"		4"	1-Clamp	SG-22501
2-1/2"		4"	1-Clamp	SG-25001-FDA
2-1/2"		4"	1-Clamp	SG-25001
2-7/8"	2-1/2"	4"	Pipe 1-Clamp	SG-28751-FDA
2-7/8"	2-1/2"	4"	Pipe 1-Clamp	SG-28751
2-3/4"		4"	1-Clamp	SG-27501-FDA
2-3/4"		4"	1-Clamp	SG-27501
3"		4"	1-Clamp	SG-30001-FDA
3"		4"	1-Clamp	SG-30001

KEY

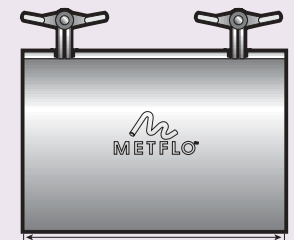
*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Super Grips (Standard Gum Rubber Gasket)

- 100% STAINLESS STEEL
- F.D.A. APPROVED GASKETS ARE ALSO AVAILABLE
- STAINLESS STEEL GROUNDING STRIP STANDARD

OD	NPS	LENGTH	DESCRIPTION	PART NO.
3-1/4"		4"	1-Clamp	SG-32501-FDA
3-1/4"		4"	1-Clamp	SG-32501
3-1/2"	3"	4"	Tube/Pipe 1-Clamp	SG-35001-FDA
3-1/2"	3"	4"	Tube/Pipe 1-Clamp	SG-35001
3-3/4"		4"	1-Clamp	SG-37501-FDA
3-3/4"		4"	1-Clamp	SG-37501
4"	3-1/2"	4"	Tube/Pipe 1-Clamp	SG-40001-FDA
4"	3-1/2"	4"	Tube/Pipe 1-Clamp	SG-40001
4"	3-1/2"	9-1/2"	Tube/Pipe 2-Clamp	SG-40002
4"	3-1/2"	9-1/2"	Tube/Pipe 2-Clamp	SG-40002-FDA
4-1/4"		4"	1-Clamp	SG-42501-FDA
4-1/4"		4"	1-Clamp	SG-42501
4-1/2"	4"	4"	Tube/Pipe 1-Clamp	SG-45001-FDA
4-1/2"	4"	4"	Tube/Pipe 1-Clamp	SG-45001
4-1/2"	4"	9-1/2"	Tube/Pipe 2-Clamp	SG-45002-FDA
4-1/2"	4"	9-1/2"	Tube/Pipe 2-Clamp	SG-45002
5"		4"	1-Clamp	SG-50001-FDA
5"		4"	1-Clamp	SG-50001
5-9/16"	5"	4"	Pipe 1-Clamp	SG-55631-FDA
5-9/16"	5"	4"	Pipe 1-Clamp	SG-55631
5"		9-1/2"	2-Clamp	SG-50002-FDA
5"		9-1/2"	2-Clamp	SG-50002
6"		4"	1-Clamp	SG-60001-FDA
6"		4"	1-Clamp	SG-60001
6"		9-1/2"	2-Clamp	SG-60002-FDA
6"		9-1/2"	2-Clamp	SG-60002
6-5/8"	6"	4"	Pipe 1-Clamp	SG-66251-FDA
6-5/8"	6"	4"	Pipe 1-Clamp	SG-66251
6-5/8"	6"	9-1/2"	Pipe 2-Clamp	SG-66252-FDA
6-5/8"	6"	9-1/2"	Pipe 2-Clamp	SG-66252
6-1/4"		4"	1-Clamp	SG-62501-FDA
6-1/4"		4"	1-Clamp	SG-62501
8"		4"	1-Clamp	SG-80001-FDA
8"		4"	1-Clamp	SG-80001
8"		9-1/2"	2-Clamp	SG-80002-FDA
8"		9-1/2"	2-Clamp	SG-80002
8-5/8"	8"	4"	Pipe 1-Clamp	SG-86251-FDA
8-5/8"	8"	4"	Pipe 1-Clamp	SG-86251
8-5/8"	8"	9-1/2"	Pipe 2-Clamp	SG-86252-FDA
8-5/8"	8"	9-1/2"	Pipe 2-Clamp	SG-86252
9"		4"	1-Clamp	SG-90001-FDA
9"		4"	1-Clamp	SG-90001
10"		4"	1-Clamp	SG-100001-FDA
10"		4"	1-Clamp	SG-100001



4" lengths are 1 handle tightening
9-1/2" lengths are 2 handle tightening

Super Grips

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions
are nominal.



Methods of Joining

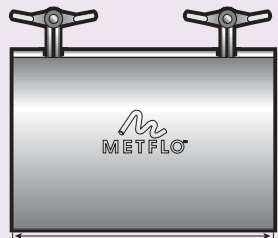
When Ordering,
Please Specify
Type of Material:

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications Super Grips

The Super Grip was devised as a quick coupler for dry bulk transport tank tubing. This unique coupling slides onto the tubing or wraps around it and is tightened by hand in seconds, and it provides better support than rubber hose and band clamps. Our exclusive fail-safe clamping action keeps its hold despite expansion, contraction and vibration. The Super Grip positive sealing, interlocking gum rubber gasket allows for tube and pipe variations. And because it's made of 100% Stainless Steel, it will not corrode due to harsh weather or road conditions.

- 1-1/2" through 12" OD for tube
- 1-1/4" through 12" NPS for pipe



4" lengths are 1 handle tightening
9-1/2" lengths are 2 handle tightening

Super Grips

Special services
we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside
Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Super Grips (Standard Gum Rubber Gasket)

- 100% STAINLESS STEEL
- F.D.A. APPROVED GASKETS ARE ALSO AVAILABLE
- STAINLESS STEEL GROUNDING STRIP STANDARD

OD	NPS	LENGTH	DESCRIPTION	PART NO.
10'		9-1/2"	2-Clamp	SG-100002-FDA
10"		9-1/2"	2-Clamp	SG-100002
10-3/4"	10"	4"	Pipe 1-Clamp	SG-107501-FDA
10-3/4"	10"	4"	Pipe 1-Clamp	SG-107501
10-3/4"	10"	9-1/2"	Pipe 2-Clamp	SG-107502-FDA
10-3/4"	10"	9-1/2"	Pipe 2-Clamp	SG-107502
12"		4"	1-Clamp	SG-120001-FDA
12"		4"	1-Clamp	SG-120001
12"		9-1/2"	2-Clamp	SG-120002-FDA
12"		9-1/2"	2-Clamp	SG-120002
12-3/4"	12"	4"	Pipe 1-Clamp	SG-127501-FDA
12-3/4"	12"	4"	Pipe 1-Clamp	SG-127501
12-3/4"	12"	9-1/2"	Pipe 2-Clamp	SG-127502-FDA
12-3/4"	12"	9-1/2"	Pipe 2-Clamp	SG-127502

KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions are nominal.

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Standard Part A - Adapter X Female NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.25	A150FAL
1-1/2"	STAINLESS STEEL	0.81	A150FSS
2"	ALUMINUM	0.37	A200FAL
2"	STAINLESS STEEL	1.06	A200FSS
2-1/2"	ALUMINUM	0.56	A250FAL
2-1/2"	STAINLESS STEEL	1.56	A250FSS
3"	ALUMINUM	0.75	A300FAL
3"	STAINLESS STEEL	2.0	A300FSS
4"	ALUMINUM	1.56	A400FAL
4"	STAINLESS STEEL	4.12	A400FSS
5"	ALUMINUM	1.81	A500FAL
6"	ALUMINUM	2.44	A600FAL

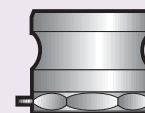
Standard Part C - Coupler X Hose Shank

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

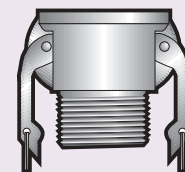
SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.78	C150FAL
1-1/2"	STAINLESS STEEL	1.84	C150FSS
2"	ALUMINUM	1.16	C200FAL
2"	STAINLESS STEEL	2.31	C200FSS
2-1/2"	ALUMINUM	1.56	C250FAL
2-1/2"	STAINLESS STEEL	3.12	C250FSS
3"	ALUMINUM	2	C300FAL
3"	STAINLESS STEEL	4.87	C300FSS
4"	ALUMINUM	3.37	C400FAL
4"	STAINLESS STEEL	8.25	C400FSS
5"	ALUMINUM	4.19	C500FAL
6"	ALUMINUM	6.06	C600FAL

Specifications

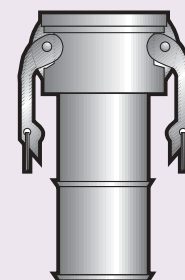
- 1-1/2" through 8"
- Materials: Aluminum and Stainless



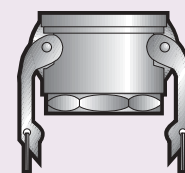
**Part A - Adapter X
Female NPT Thread**



**Part B - Coupler X
Male NPT Thread**



**Part C - Coupler X
Hose Shank**



**Part D - Coupler X
Female NPT Thread**

Standard Part B - Coupler X Male NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.75	B150FAL
1-1/2"	STAINLESS STEEL	1.56	B150FSS
2"	ALUMINUM	0.94	B200FAL
2"	STAINLESS STEEL	2.06	B200FSS
2-1/2"	ALUMINUM	1.25	B250FAL
2-1/2"	STAINLESS STEEL	2.94	B250FSS
3"	ALUMINUM	1.75	B300FAL
3"	STAINLESS STEEL	4	B300FSS
4"	ALUMINUM	2.5	B400FAL
4"	STAINLESS STEEL	6.5	B400FSS
5"	ALUMINUM	3.75	B500FAL
6"	ALUMINUM	5.37	B600FAL

Standard Part D - Coupler X Female NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.84	D150FAL
1-1/2"	STAINLESS STEEL	1.81	D150FSS
2"	ALUMINUM	1	D200FAL
2"	STAINLESS STEEL	2.37	D200FSS
2-1/2"	ALUMINUM	1.41	D250FAL
2-1/2"	STAINLESS STEEL	3.16	D250FSS
3"	ALUMINUM	1.78	D300FAL
3"	STAINLESS STEEL	4.09	D300FSS
4"	ALUMINUM	2.81	D400FAL
4"	STAINLESS STEEL	7	D400FSS
5"	ALUMINUM	4.37	D500FAL
6"	ALUMINUM	6	D600FAL

KEY

NPT = National Pipe Thread

All reference dimensions are nominal.

Why Buy Our Premium Cam & Groove Parts

- Pressure tested with published ratings
- Will handle full vacuum applications
- Meet all military specifications (MIL-C-27487) for sizes through 6"

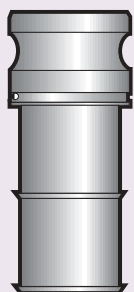
Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

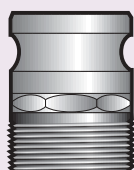
- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

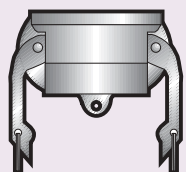
- 1-1/2" through 8"
- Materials: Aluminum and Stainless



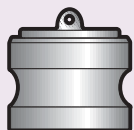
**Part E - Adapter X
Hose Shank**



**Part F - Adapter X
Male NPT Thread**



**Part V
Coupler Dust Plug**



**Part W
Adapter Dust Plug**

Standard Part E - Adapter X Hose Shank

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.37	E150FAL
1-1/2"	STAINLESS STEEL	1.65	E150FSS
2"	ALUMINUM	0.84	E200FAL
2"	STAINLESS STEEL	2.75	E200FSS
2-1/2"	ALUMINUM	0.91	E250FAL
2-1/2"	STAINLESS STEEL	3.5	E250FSS
3"	ALUMINUM	1.47	E300FAL
3"	STAINLESS STEEL	4.06	E300FSS
4"	ALUMINUM	2.5	E400FAL
4"	STAINLESS STEEL	7.81	E400FSS
5"	ALUMINUM	2.69	E500FAL
6"	ALUMINUM	4.56	E600FAL

Standard Part V - Coupler Dust Cap

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.81	V150FAL
1-1/2"	STAINLESS STEEL	1.5	V150FSS
2"	ALUMINUM	0.94	V200FAL
2"	STAINLESS STEEL	2.06	V200FSS
2-1/2"	ALUMINUM	1.19	V250FAL
2-1/2"	STAINLESS STEEL	2.84	V250FSS
3"	ALUMINUM	1.78	V300FAL
3"	STAINLESS STEEL	3.75	V300FSS
4"	ALUMINUM	2.5	V400FAL
4"	STAINLESS STEEL	5.31	V400FSS
5"	ALUMINUM	3.19	V500FAL
6"	ALUMINUM	5.19	V600FAL

Standard Part F - Adapter X Male NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.5	F150FAL
1-1/2"	STAINLESS STEEL	1.28	F150FSS
2"	ALUMINUM	0.53	F200FAL
2"	STAINLESS STEEL	1.75	F200FSS
2-1/2"	ALUMINUM	0.81	F250FAL
2-1/2"	STAINLESS STEEL	3.25	F250FSS
3"	ALUMINUM	1.37	F300FAL
3"	STAINLESS STEEL	4.5	F300FSS
4"	ALUMINUM	2.28	F400FAL
4"	STAINLESS STEEL	7	F400FSS
5"	ALUMINUM	2.72	F500FAL
6"	ALUMINUM	4.31	F600FAL

Standard Part W - Adapter Dust Plug

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.22	W150FAL
1-1/2"	STAINLESS STEEL	1	W150FSS
2"	ALUMINUM	0.34	W200FAL
2"	STAINLESS STEEL	1.44	W200FSS
2-1/2"	ALUMINUM	0.44	W250FAL
2-1/2"	STAINLESS STEEL	2	W250FSS
3"	ALUMINUM	0.87	W300FAL
3"	STAINLESS STEEL	2.62	W300FSS
4"	ALUMINUM	1.37	W400FAL
4"	STAINLESS STEEL	5.25	W400FSS
5"	ALUMINUM	1.5	W500FAL
6"	ALUMINUM	2.31	W600FAL

KEY

NPT = National Pipe Thread
All reference dimensions are nominal.

**Special services
we provide include:**

- Shot Peening
- Spiral Groove
- Inside & Outside
Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Premium Part A - Adapter X Female NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.37	E150FAL
1-1/2"	ALUMINUM	0.25	A150AL
1-1/2"	HARD COAT ALUMINUM	0.25	A150HA
1-1/2"	STAINLESS STEEL	0.81	A150SS
2"	ALUMINUM	0.37	A200AL
2"	HARD COAT ALUMINUM	0.37	A200HA
2"	STAINLESS STEEL	1.06	A200SS
2-1/2"	ALUMINUM	0.56	A250AL
2-1/2"	HARD COAT ALUMINUM	0.56	A250HA
2-1/2"	STAINLESS STEEL	1.56	A250SS
3"	ALUMINUM	0.75	A300AL
3"	HARD COAT ALUMINUM	0.75	A300HA
3"	STAINLESS STEEL	2	A300SS
4"	ALUMINUM	1.56	A400AL
4"	HARD COAT ALUMINUM	1.56	A400HA
4"	STAINLESS STEEL	4.12	A400SS
5"	ALUMINUM	1.81	A500AL
5"	HARD COAT ALUMINUM	1.81	A500HA
5"	STAINLESS STEEL	5	A500SS
6"	ALUMINUM	2.44	A600AL
6"	HARD COAT ALUMINUM	2.44	A600HA
6"	STAINLESS STEEL	7	A600SS
8"	ALUMINUM	6.5	A800AL
8"	HARD COAT ALUMINUM	6.5	A800HA
8"	STAINLESS STEEL	14.75	A800SS

Premium Part B - Coupler X Male NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.75	B150AL
1-1/2"	HARD COAT ALUMINUM	0.75	B150HA
1-1/2"	STAINLESS STEEL	1.56	B150SS
2"	ALUMINUM	0.94	B200AL
2"	HARD COAT ALUMINUM	0.94	B200HA
2"	STAINLESS STEEL	2.06	B200SS
2-1/2"	ALUMINUM	1.25	B250AL
2-1/2"	HARD COAT ALUMINUM	1.25	B250HA
2-1/2"	STAINLESS STEEL	2.94	B250SS
3"	ALUMINUM	1.75	B300AL

Premium Part B - (cont.) Coupler X Male NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
3"	HARD COAT ALUMINUM	1.75	B300HA
3"	STAINLESS STEEL	4	B300SS
4"	ALUMINUM	2.5	B400AL
4"	HARD COAT ALUMINUM	2.5	B400HA
4"	STAINLESS STEEL	6.5	B400SS
5"	ALUMINUM	3.75	B500AL
5"	HARD COAT ALUMINUM	3.75	B500HA
5"	STAINLESS STEEL	9.75	B500SS
6"	ALUMINUM	5.37	B600AL
6"	HARD COAT ALUMINUM	5.37	B600HA
6"	STAINLESS STEEL	13.12	B600SS
8"	ALUMINUM	7.12	B800AL
8"	HARD COAT ALUMINUM	7.12	B800HA
8"	STAINLESS STEEL	29.6	B800SS

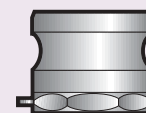
Premium Part C - Coupler X Hose Shank

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

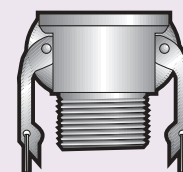
SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.78	C150AL
1-1/2"	HARD COAT ALUMINUM	0.78	C150HA
1-1/2"	STAINLESS STEEL	1.84	C150SS
2"	ALUMINUM	1.16	C200AL
2"	HARD COAT ALUMINUM	1.16	C200HA
2"	STAINLESS STEEL	2.31	C200SS
2-1/2"	ALUMINUM	1.56	C250AL
2-1/2"	HARD COAT ALUMINUM	1.56	C250HA
2-1/2"	STAINLESS STEEL	3.12	C250SS
3"	ALUMINUM	2	C300AL
3"	HARD COAT ALUMINUM	2	C300HA
3"	STAINLESS STEEL	4.87	C300SS
4"	ALUMINUM	3.37	C400AL
4"	HARD COAT ALUMINUM	3.37	C400HA
4"	STAINLESS STEEL	8.25	C400SS
5"	ALUMINUM	4.19	C500AL
5"	HARD COAT ALUMINUM	4.19	C500HA
5"	STAINLESS STEEL	11.75	C500SS
6"	ALUMINUM	6.06	C600AL
6"	HARD COAT ALUMINUM	6.06	C600HA
6"	STAINLESS STEEL	15.25	C600SS

Specifications

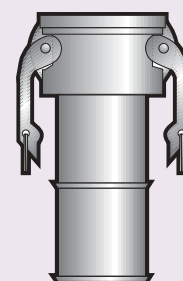
- 1-1/2" through 8"
- Materials: Aluminum and Stainless



**Part A - Adapter X
Female NPT Thread**



**Part B - Coupler X
Male NPT Thread**



**Part C - Coupler X
Hose Shank**

KEY

NPT = National Pipe Thread
All reference dimensions
are nominal.

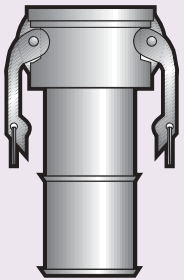
Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

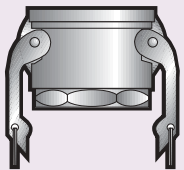
- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Specifications

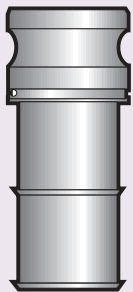
- 1-1/2" through 8"
- Materials: Aluminum and Stainless



**Part C - Coupler X
Hose Shank**



**Part D - Coupler X
Female NPT Thread**



**Part E - Adapter X
Hose Shank**



**Part F - Adapter X
Male NPT Thread**

Premium Part C - (cont.) Coupler X Hose Shank

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
8"	ALUMINUM	10.5	C800AL
8"	HARD COAT ALUMINUM	10.5	C800HA
8"	STAINLESS STEEL	36	C800SS

Premium Part D - Coupler X Female NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.84	D150AL
1-1/2"	HARD COAT ALUMINUM	0.84	D150HA
1-1/2"	STAINLESS STEEL	1.81	D150SS
2"	ALUMINUM	1	D200AL
2"	HARD COAT ALUMINUM	1	D200HA
2"	STAINLESS STEEL	2.37	D200SS
2-1/2"	ALUMINUM	1.41	D250AL
2-1/2"	HARD COAT ALUMINUM	1.41	D250HA
2-1/2"	STAINLESS STEEL	3.16	D250SS
3"	ALUMINUM	1.78	D300AL
3"	HARD COAT ALUMINUM	1.78	D300HA
3"	STAINLESS STEEL	4.09	D300SS
4"	ALUMINUM	2.81	D400AL
4"	HARD COAT ALUMINUM	2.81	D400HA
4"	STAINLESS STEEL	7	D400SS
5"	ALUMINUM	4.37	D500AL
5"	HARD COAT ALUMINUM	4.37	D500HA
5"	STAINLESS STEEL	9.28	D500SS
6"	ALUMINUM	6	D600AL
6"	HARD COAT ALUMINUM	6	D600HA
6"	STAINLESS STEEL	12.25	D600SS
8"	ALUMINUM	8.31	D800AL
8"	HARD COAT ALUMINUM	8.31	D800HA
8"	STAINLESS STEEL	29.6	D800SS

KEY NPT = National Pipe Thread
All reference dimensions are nominal.

Premium Part E - Adapter X Hose Shank

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.37	E150AL
1-1/2"	HARD COAT ALUMINUM	0.37	E150HA
1-1/2"	STAINLESS STEEL	1.65	E150SS
2"	ALUMINUM	0.84	E200AL
2"	HARD COAT ALUMINUM	0.84	E200HA
2"	STAINLESS STEEL	2.75	E200SS
2-1/2"	ALUMINUM	0.91	E250AL
2-1/2"	HARD COAT ALUMINUM	0.91	E250HA
2-1/2"	STAINLESS STEEL	3.5	E250SS
3"	ALUMINUM	1.47	E300AL
3"	HARD COAT ALUMINUM	1.47	E300HA
3"	STAINLESS STEEL	4.06	E300SS
4"	ALUMINUM	2.5	E400AL
4"	HARD COAT ALUMINUM	2.5	E400HA
4"	STAINLESS STEEL	7.8	E400SS
5"	ALUMINUM	2.69	E500AL
5"	HARD COAT ALUMINUM	2.69	E500HA
5"	STAINLESS STEEL	8.56	E500SS
6"	ALUMINUM	4.56	E600AL
6"	HARD COAT ALUMINUM	4.56	E600HA
6"	STAINLESS STEEL	14.56	E600SS
8"	ALUMINUM	6.59	E800AL
8"	HARD COAT ALUMINUM	6.59	E800HA
8"	STAINLESS STEEL	25.33	E800SS

Premium Part F - Adapter X Male NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.5	F150AL
1-1/2"	HARD COAT ALUMINUM	0.5	F150HA
1-1/2"	STAINLESS STEEL	1.28	F150SS
2"	ALUMINUM	0.53	F200AL
2"	HARD COAT ALUMINUM	0.53	F200HA
2"	STAINLESS STEEL	1.75	F200SS
2-1/2"	ALUMINUM	0.81	F250AL
2-1/2"	HARD COAT ALUMINUM	0.81	F250HA
2-1/2"	STAINLESS STEEL	3.25	F250SS
3"	ALUMINUM	1.37	F300AL

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Premium Part F - Adapter X Male NPT Thread

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
3"	HARD COAT ALUMINUM	1.37	F300HA
3"	STAINLESS STEEL	4.5	F300SS
4"	ALUMINUM	2.28	F400AL
4"	HARD COAT ALUMINUM	2.28	F400HA
4"	STAINLESS STEEL	7	F400SS
5"	ALUMINUM	2.72	F500AL
5"	HARD COAT ALUMINUM	2.72	F500HA
5"	STAINLESS STEEL	10.56	F500SS
6"	ALUMINUM	4.31	F600AL
6"	HARD COAT ALUMINUM	4.31	F600HA
6"	STAINLESS STEEL	14.06	F600SS
8"	ALUMINUM	6.75	F800AL
8"	HARD COAT ALUMINUM	6.75	F800HA
8"	STAINLESS STEEL	25	F800SS

Premium Part V - Coupler Dust Cap

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.81	V150AL
1-1/2"	HARD COAT ALUMINUM	0.81	V150HA
1-1/2"	STAINLESS STEEL	1.5	V150SS
2"	ALUMINUM	0.94	V200AL
2"	HARD COAT ALUMINUM	0.94	V200HA
2"	STAINLESS STEEL	2.06	V200SS
2-1/2"	ALUMINUM	1.19	V250AL
2-1/2"	HARD COAT ALUMINUM	1.1	V250HA
2-1/2"	STAINLESS STEEL	2.84	V250SS
3"	ALUMINUM	1.78	V300AL
3"	HARD COAT ALUMINUM	1.78	V300HA
3"	STAINLESS STEEL	3.75	V300SS
4"	ALUMINUM	2.5	V400AL
4"	HARD COAT ALUMINUM	2.5	V400HA
4"	STAINLESS STEEL	5.31	V400SS
5"	ALUMINUM	3.19	V500AL
5"	HARD COAT ALUMINUM	3.19	V500HA
5"	STAINLESS STEEL	7.61	V500SS
6"	ALUMINUM	5.19	V600AL
6"	HARD COAT ALUMINUM	5.19	V600HA

Premium Part V - (cont.) Coupler Dust Cap

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

SIZE	MATERIAL	WEIGHT	PART NO.
6"	STAINLESS STEEL	12.19	V600SS
8"	ALUMINUM	6.62	V800AL
8"	HARD COAT ALUMINUM	6.62	V800HA
8"	STAINLESS STEEL	15	V800SS

Premium Part W - Adapter Dust Plug

- REPLACEMENT GASKETS AND ARMS, PLUS SECURITY CHAINS AVAILABLE
- OTHER SIZES AND MATERIALS ARE AVAILABLE

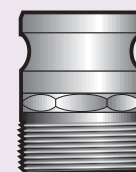
SIZE	MATERIAL	WEIGHT	PART NO.
1-1/2"	ALUMINUM	0.22	W150AL
1-1/2"	HARD COAT ALUMINUM	0.22	W150HA
1-1/2"	STAINLESS STEEL	1	W150SS
2"	ALUMINUM	0.34	W200AL
2"	HARD COAT ALUMINUM	0.34	W200HA
2"	STAINLESS STEEL	1.44	W200SS
2-1/2"	ALUMINUM	0.44	W250AL
2-1/2"	HARD COAT ALUMINUM	0.44	W250HA
2-1/2"	STAINLESS STEEL	2	W250SS
3"	ALUMINUM	0.87	W300AL
3"	HARD COAT ALUMINUM	0.87	W300HA
3"	STAINLESS STEEL	2.62	W300SS
4"	ALUMINUM	1.37	W400AL
4"	HARD COAT ALUMINUM	1.37	W400HA
4"	STAINLESS STEEL	5.25	W400SS
5"	ALUMINUM	1.5	W500AL
5"	HARD COAT ALUMINUM	1.5	W500HA
5"	STAINLESS STEEL	4.75	W500SS
6"	ALUMINUM	2.31	W600AL
6"	HARD COAT ALUMINUM	2.31	W600HA
6"	STAINLESS STEEL	6.21	W600SS
8"	ALUMINUM	4	W800AL
8"	HARD COAT ALUMINUM	6.64	W800HA
8"	STAINLESS STEEL	12.58	W800SS

KEY

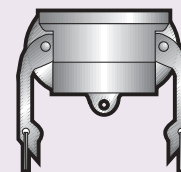
NPT = National Pipe Thread
All reference dimensions are nominal.

Specifications

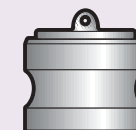
- 1-1/2" through 8"
- Materials: Aluminum and Stainless



**Part F - Adapter X
Male NPT Thread**



**Part V
Coupler Dust Plug**



**Part W
Adapter Dust Plug**

Methods of Joining

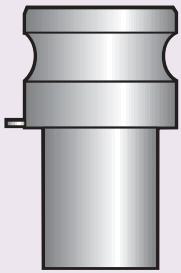
*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

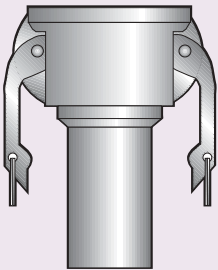
Specifications

Our Quick Adapter (AW) or Coupler (DW) is welded to a short length of tube or pipe for easy installation or dismantling.

- 2" through 6" OD, 16, 14, 11 Gauge Stubs
- 2" through 6" NPS, Schedule 10, 40 Stubs (SCH 5 available)
- Available in Aluminum and Stainless



Part AW Adapter



Part DW Coupler

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Quick Adapters (Tube)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

OD	GAUGE	WEIGHT	PART NO.
2"	16	0.77	AWS200AL-16A
2"	14	0.89	AWS200AL-14A
2"	11	1.2	AWS200AL-11A
2-1/2"	16	0.95	AWS250AL-16A
2-1/2"	14	1.02	AWS250AL-14A
2-1/2"	11	1.3	AWS250AL-11A
3"	16	1.33	AWS300AL-16A
3"	14	1.47	AWS300AL-14A
3"	11	1.75	AWS300AL-11A
4"	16	1.97	AWS400AL-16A
4"	14	2.18	AWS400AL-14A
4"	11	2.53	AWS400AL-11A
5"	14	2.67	AWS500AL-14A
5"	11	3.09	AWS500AL-11A
6"	14	3.76	AWS600AL-14A
6"	11	4.32	AWS600AL-11A

• AVAILABLE IN ALUMINUM ONLY

Quick Adapters (Pipe)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

NPS	SCHED.	WEIGHT	PART NO.
2"	10	1.11	AWSP200AL-10A
2"	40	1.35	AWSP200AL-40A
3"	10	1.89	AWSP300AL-10A
3"	40	2.68	AWSP300AL-40A
4"	10	2.70	AWSP400AL-10A
4"	40	3.95	AWSP400AL-40A
6"	10	4.75	AWSP600AL-10A
6"	40	7.09	AWSP600AL-40A

• AVAILABLE IN ALUMINUM ONLY

Quick Couplers (Tube)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

OD	GAUGE	WEIGHT	PART NO.
2"	16	1.19	DWS200AL-16A
2"	14	1.33	DWS200AL-14A
2"	11	1.54	DWS200AL-11A
2-1/2"	16	1.58	DWS250AL-16A
2-1/2"	14	1.65	DWS250AL-14A
2-1/2"	11	1.93	DWS250AL-11A
3"	16	2.61	DWS300AL-16A
3"	14	2.75	DWS300AL-14A
3"	11	3.03	DWS300AL-11A
4"	16	3.25	DWS400AL-16A
4"	14	3.46	DWS400AL-14A
4"	11	3.81	DWS400AL-11A
6"	14	7.13	DWS600AL-14A
6"	11	7.69	DWS600AL-11A

• AVAILABLE IN ALUMINUM ONLY

Quick Couplers (Pipe)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

NPS	SCHED.	WEIGHT	PART NO.
2"	10		DWSP200AL-10A
2"	40		DWSP200AL-40A
3"	10	3.16	DWSP300AL-10A
3"	40	3.95	DWSP300AL-40A
4"	10	3.98	DWSP400AL-10A
4"	40	5.23	DWSP400AL-40A
5"	10		DWSP500AL-10A
5"	40		DWSP500AL-40A
6"	10	8.12	DWSP600AL-10A
6"	40	10.46	DWSP600AL-40A

• AVAILABLE IN ALUMINUM ONLY

KEY

NPS = Nominal Pipe Size
OD = Outside Diameter
All reference dimensions are nominal.

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Cam & Groove Gaskets (For Standard & Premium Cam & Groove)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

OD	MATERIAL	WEIGHT	PART NO.
1-1/2"	BUNA N - STANDARD	0.019	150B
1-1/2"	BUNA N 5/16" THICK		150BT
1-1/2"	NEOPRENE	0.019	150N
1-1/2"	VITON	0.031	150V
2"	BUNA N - STANDARD	0.03	200B
2"	BUNA N 5/16" THICK		200BT
2"	NEOPRENE	0.025	200N
2"	NEOPRENE 5/16" THICK		200NT
2"	VITON	0.05	200V
2-1/2"	BUNA N - STANDARD	0.038	250B
2-1/2"	NEOPRENE		250N
2-1/2"	VITON	0.064	250V
3"	BUNA N - STANDARD	0.06	300B
3"	BUNA N 5/16" THICK		300BT
3"	NEOPRENE	0.013	300N
3"	NEOPRENE 5/16" THICK		300NT
3"	VITON	0.075	300V
4"	BUNA N - STANDARD	0.09	400B
4"	BUNA N 5/16" THICK		400BT
4"	NEOPRENE		400N
4"	NEOPRENE 5/16" THICK		400NT
4"	VITON	0.013	400V
5"	BUNA N - STANDARD	0.094	500B
5"	NEOPRENE		500N
5"	VITON		500V
6"	BUNA N - STANDARD	0.119	600B
6"	BUNA N 5/16" THICK		600BT
6"	NEOPRENE		600N
6"	VITON	1.81	600V
8"	BUNA N - STANDARD	0.206	800B
8"	NEOPRENE		800N
8"	VITON		800V

KEY

OD = Outside Diameter
All reference dimensions are nominal.

HBS Cam Arm Assembly Sintered Stainless Steel (For Premium Cam & Groove)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

OD	WEIGHT	PART NO.
1-1/2"	0.25	ARM150S
2"	0.25	ARM200S
2-1/2"	0.25	ARM250S
3"	0.269	ARM300S
4"	0.269	ARM400S
5"	0.269	ARM500S

Bronze Forging (For Premium Cam & Groove)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

OD	WEIGHT	PART NO.
1-1/2"	0.25	ARM150B
2"	0.169	ARM200B
2-1/2"	0.169	ARM250B
3"	0.288	ARM300B
4"	0.288	ARM400B
5"	0.288	ARM500B
6"	0.625	ARM600B
8"	0.625	ARM800B

Sintered Stainless Steel (For Premium Cam & Groove)

• REPLACEMENT GASKETS AND ARMS,
PLUS SECURITY CHAINS ARE AVAILABLE

OD	WEIGHT	PART NO.
1-1/2"	0.25	ARMF150S
2"	0.25	ARMF200S
2-1/2"	0.25	ARMF250S
3"	0.269	ARMF300S
4"	0.269	ARMF400S
5"	0.269	ARMF500S

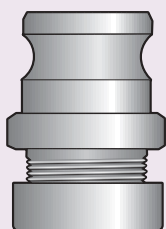
Methods of Joining

*When Ordering,
Please Specify
Type of Material:*

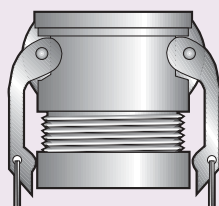
- Carbon
- Stainless
- Aluminum
- Zinc-Coated
(Galvanized)

Compression Quick Adapters & Couplers

- 1-1/2" to 3"
- Designed for quick assembly, with a compression nut, to 16 Gauge (.065") tubing.



Part FC Adapter



Part BC Coupler

*Special services
we provide include:*

- Shot Peening
- Spiral Groove
- Inside & Outside
Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

Bronze Forging (For Standard Cam & Groove)

OD	WEIGHT	PART NO.
1-1/2"	0.25	ARMF150B
2"	0.169	ARMF200B
2-1/2"	0.169	ARMF250B
3"	0.288	ARMF300B
4"	0.288	ARMF400B
5"	0.288	ARMF500B
6"	0.625	ARMF600B

Security Chains (For Standard Cam & Groove)

OD	WEIGHT	PART NO.
6"	0.25	BRCHAIN6H
6"	0.25	BRCHAIN6R
12"	0.5	BRCHAIN12H
12"	0.5	BRCHAIN12R

- BRASS CHAIN WITH HOOKS

Part FC - Compression Quick Adapters (Adapter X Tubing Compression Fitting)

- STANDARD MATERIAL IS ALUMINUM WITH A BUNA GASKET

OD	MATERIAL	PART NO.
1-1/2"	ALUMINUM	FC150AL
2"	ALUMINUM	FC200AL
2-1/2"	ALUMINUM	FC250AL
3"	ALUMINUM	FC300AL

Part BC - Compression Quick Adapters (Coupler X Tubing Compression Fitting)

- STANDARD MATERIAL IS ALUMINUM WITH A BUNA GASKET

OD	MATERIAL	PART NO.
1-1/2"	ALUMINUM	BC150AL
2"	ALUMINUM	BC200AL
2-1/2"	ALUMINUM	BC250AL
3"	ALUMINUM	BC300AL

Replacement Nuts for Part FC & BC

OD	MATERIAL	PART NO.
1-1/2"	ALUMINUM	CNUT150A
2"	ALUMINUM	CNUT200A
2-1/2"	ALUMINUM	CNUT250A
3"	ALUMINUM	CNUT300A

Replacement Gaskets for Part FC & BC

OD	MATERIAL	PART NO.
1-1/2"	BUNA	150GSKT
2"	BUNA	200GSKT
2-1/2"	BUNA	250GSKT
3"	BUNA	300GSKT

KEY

OD = Outside Diameter
All reference dimensions are nominal.

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

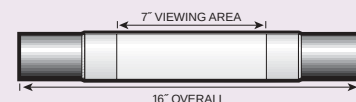
Sight Glasses (Tube)

The Acrylic Sight Glass (ASG) allows you to see at a glance the material flowing through your conveying system. It's precision made by aligning the acrylic with the tube or pipe to insure smooth material flow with no turbulence. A stainless steel ground strip is included to eliminate static build up. The ASG is easy to install in new or existing lines by using two MetFlo™ Compression Couplings.

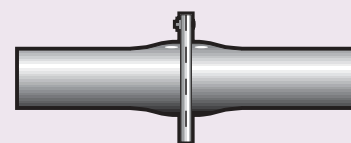
- Tube or pipe ends are made of carbon steel, stainless or aluminum, Zinc-coated (Galvanized)
- Special sight glasses are available upon request.
- Wall Thickness:
Tube - 16, 14, 12, 11 Gauge
Pipe - Schedule 5, 10, 40, 80
- Overall Length is 16" with 7" Viewing Area.

Pipe

NPS	SCHED.	PIPE ENDS	PART NO.
2"	40	ALUMINUM	200040APUSG
2"	40	CARBON	200040CSUSG
2-1/2"	40	ALUMINUM	250040APUSG
2-1/2"	40	CARBON	250040CSUSG
3"	40	ALUMINUM	300040APUSG
3"	40	CARBON	300040CSUSG
3-1/2"	40	ALUMINUM	350040ASUSG
3-1/2"	40	CARBON	350040CPUSG
4"	40	ALUMINUM	400040ASUSG
4"	40	CARBON	400040CPUSG
5"	40	ALUMINUM	500040ASUSG
5"	40	CARBON	500040CPUSG
6"	40	ALUMINUM	600040APUSG
6"	40	CARBON	600040CSUSG



Sight Glass



Blast Gate Assembly

Tube

OD	GAUGE	TUBE ENDS	PART NO.
1-1/2"	16	ALUMINUM	150016ALUSG
2"	16	ALUMINUM	200016ALUSG
2"	11	ALUMINUM	200011ALUSG
2-1/4"	16	ALUMINUM	225016ALUSG
2-1/2"	16	ALUMINUM	250016ALUSG
2-1/2"	11	ALUMINUM	250011ALUSG
3"	16	ALUMINUM	300016ALUSG
3"	11	ALUMINUM	300011ALUSG
3-1/2"	16	ALUMINUM	350016ALUSG
3-1/2"	11	ALUMINUM	350011ALUSG
4"	16	ALUMINUM	400016ALUSG
4"	11	ALUMINUM	400011ALUSG
4-1/2"	16	ALUMINUM	450016ALUSG
4-1/2"	11	ALUMINUM	450011ALUSG
5"	14	ALUMINUM	500014ALUSG
5"	11	ALUMINUM	500011ALUSG
6"	11	ALUMINUM	600011ALUSG

Blast Gate Assemblies (Tube)

Blast Gate consists of an aluminum, full gate, casting with a Zinc-Coated (Galvanized) slide and aluminum stubs (straight ends).

- Available in 2" - 8" Tube OD Sizes
- For other materials and sizes, inquire about our Fabricated Blast Gates.

OD	STUB MAT.	STUB LTH.	WT.	PART NO.
2"	16 GA Aluminum	6"	0.99	BG162000ZA
2-1/8"	16 GA Aluminum	6"	1.02	BG162125ZA
3"	16 GA Aluminum	6"	1.5	BG163000ZA
3-1/2"	16 GA Aluminum	6"	1.91	BG163500ZA
4"	16 GA Aluminum	6"	2.49	BG164000ZA
4-1/2"	16 GA Aluminum	6"	2.58	BG164500ZA
5"	14 GA Aluminum	7"	3.55	BG145000ZA
6"	14 GA Aluminum	7"	4.4	BG146000ZA
8"	14 GA Aluminum	8"	6.62	BG148000ZA

• THESE PARTS CONSIST OF AN ALUMINUM CASTING WITH A ZINC SLIDE AND ALUMINUM STUBS (STRAIGHT ENDS)

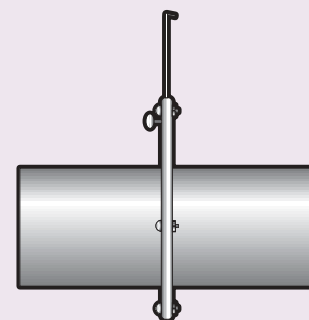
Fabricated Blast Gate Assemblies (Tube & Pipe)

These parts are made to order for your tube or pipe needs.

- Materials: Carbon, Zinc-Coated (Galvanized), Stainless Steel, Aluminum
- Standard slide is Zinc-Coated (Galvanized) Steel.

Standard Stub Lengths:

Tube or Pipe Size	Length (ea. side)
1.5" through 4.5"	6"
5" through 6"	7"
Over 6" - 14"	8"



Fabricated Blast Gate Assembly

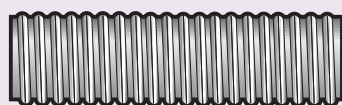
KEY

OD = Outside Diameter
NPS = Nominal Pipe Size
All reference dimensions are nominal.

Accessories

When Ordering,
Please Specify
Type of Material:

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)



PVC Hose

Standard Duty PVC Food Grade Hose - Clear

- 1-1/2" through 4" ID

- COUNTER CLOCKWISE SPIRAL
- SERVICE TEMP. RANGE: -4°F TO 150° F

ID	STD. LTH (FT)	APRX. WT LBS/FT.	TL. WT.	PART NO.
1-1/2"	100	0.29	29	PT0150-100
2"	100	0.46	46	PT0200-100
2-1/2"	100	0.63	63	PT0250-100
3"	100	0.9	90	PT0300-100
4"	100	1.45	145	PT0400-100

- AVAILABLE WITH STATIC WIRE. CHECK WITH YOUR SALES REPRESENTATIVE

Heavy Duty PVC Food Grade Hose - Clear

- 1-1/2" through 8" ID

- COUNTER CLOCKWISE SPIRAL
- SERVICE TEMP. RANGE: -4°F TO 150° F

ID	STD. LTH (FT)	APRX. WT LBS/FT.	TL. WT.	PART NO.
1-1/2"	50	0.35	17.5	WT150-50
1-1/2"	100	0.35	35.0	WT150-100
2"	50	0.56	28.0	WT200-50
2"	100	0.56	56.0	WT200-100
2-1/2"	50	0.77	38.5	WT250-50
2-1/2"	100	0.77	77.0	WT250-100
3"	50	1.1	55.0	WT300-50
3"	100	1.1	110.0	WT300-100
3-1/2"	50	1.4	70.0	WT350-50
3-1/2"	100	1.4	140.0	WT350-100
4"	50	1.8	90.0	WT400-50
4"	100	1.8	180.0	WT400-100
5"	20	2.36	47.2	WT500-20
5"	100	2.36	236.0	WT500-100
6"	20	3.54	70.8	WT600-20
6"	50	3.54	177.0	WT600-50
6"	100	3.54	354.0	WT600-100
8"	20	5.1	102.0	WT800-20

KEY

ID = Inside Diameter
All reference dimensions are nominal.

Heavy Duty PVC Food Grade Hose w/Static Wire - Clear

- 1-1/2" through 6" ID

- COUNTER CLOCKWISE SPIRAL
- SERVICE TEMP. RANGE: -4°F TO 150° F

ID	STD. LTH (FT)	APRX. WT LBS/FT.	TL. WT.	PART NO.
1-1/2"	60	0.43	25.8	WE150-60
2"	60	0.58	34.8	WE200-60
2-1/2"	60	0.88	52.8	WE250-60
3"	60	1.25	75	WE300-60
4"	60	1.93	115.8	WE400-60
5"	20	2.4	48	WE500-20
5"	60	2.4	144	WE500-60
6"	20	3.7	74	WE600-20
6"	60	3.7	222	WE600-60

Standard Duty Polyurethane Abrasion-Resistant PVC Hose-Black Formulated with Anti-Static Compound

- 1-1/2" through 8" ID

- COUNTER CLOCKWISE SPIRAL
- SERVICE TEMP. RANGE: -4°F TO 150° F

ID	STD. LTH (FT)	APRX. WT LBS/FT.	TL. WT.	PART NO.
1-1/2"	50	0.42	21	1UF150-50
1-1/2"	100	0.42	42	1UF150-100
2"	50	0.59	29.5	1UF200-50
2"	100	0.59	59	1UF200-100
2-1/2"	50	0.8	40	1UF250-50
2-1/2"	100	0.8	80	1UF250-100
3"	50	1.17	58.5	1UF300-50
3"	100	1.17	117	1UF300-100
3-1/2"	50	1.48	74	1UF350-50*
3-1/2"	100	1.48	148	1UF350-100*
4"	50	1.94	97	1UF400-50
4"	100	1.94	194	1UF400-100
5"	20	2.41	48.2	1UF500-20
5"	50	2.41	120.5	1UF500-50
5"	100	2.41	241	1UF500-100

- * SPECIAL PRODUCTION ORDER SIZE. CHECK WITH YOUR SALES REPRESENTATIVE

Special services
we provide include:

- Shot Peening
- Spiral Groove
- Inside & Outside Diameter Polishing
- Ceramic Lining
- Ceramic Coating
- Part Variations

*When Ordering,
Please Specify
Type of Material:*

- Carbon
- Stainless
- Aluminum
- Zinc-Coated (Galvanized)

Standard Duty (cont.) Polyurethane Abrasion- Resistant PVC Hose-Black

Formulated with Anti-Static Compound

ID	STD. LTH (FT)	APRX. WT LBS/FT.	TL. WT.	PART NO.
6"	20	3.5	70	1UF600-20
6"	50	3.5	175	1UF600-50
6"	100	3.5	350	1UF600-100
8"	20	5.9	118	1UF800-20
8"	50	5.9	295	1UF800-50

* SPECIAL PRODUCTION ORDER SIZE. CHECK WITH YOUR SALES REPRESENTATIVE

Heavy Duty Polyurethane Abrasion- Resistant PVC Hose-Blue

Formulated with Anti-Static Compound

- 1-1/2" through 8" ID

- COUNTER CLOCKWISE SPIRAL
- SERVICE TEMP. RANGE: -4°F TO 150° F

ID	STD. LTH (FT)	APRX. WT LBS/FT.	TL. WT.	PART NO.
1-1/2"	100	0.46	46	2UF150-100
2"	100	0.65	65	2UF200-100
2-1/2"	100	0.89	89	2UF250-100
3"	50	1.3	65	2UF300-50
3"	100	1.3	130	2UF300-100
4"	50	2.1	105	2UF400-50
4"	100	2.1	210	2UF400-100
5"	20	2.65	53	2UF500-20
5"	50	2.65	132.5	2UF500-50
5"	100	2.65	265	2UF500-100
6"	20	3.8	114	2UF600-20
6"	50	3.8	190	2UF600-50
6"	100	3.8	380	2UF600-100
8"	20	6.5	130	2UF800-20*
8"	50	6.5	325	2UF800-50*

* NON-STANDARD SIZE. CHECK WITH YOUR SALES REPRESENTATIVE

KEY

ID = Inside Diameter

All reference dimensions are nominal.

Spiral Double Bolt Clamps (Counter Clockwise Spiral) For use on PVC Hose

- 1-1/2" through 8"
- Zinc-Coated (Galvanized), double bolt

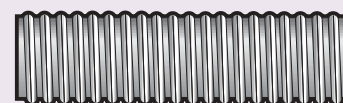
• FOR USE ON COUNTER CLOCKWISE SPIRAL, PVC HOSE

FITS HOSE ID	WEIGHT	PART NO.
1-1/2"	0.18	SDBC150
2"	0.36	SDBC200
2-1/2"	0.48	SDBC250
3"	0.66	SDBC300
4"	1.02	SDBC400
5"	1.76	SDBC500
6"	2.00	SDBC600
8"	2.76	SDBC800

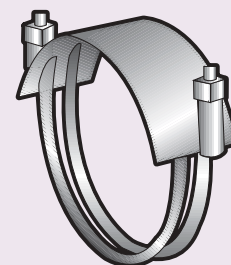
* NOTE: TWO CLAMPS ARE RECOMMENDED FOR EACH END ON 5" ID HOSE AND LARGER

Metal Flexible Hose

- 1-1/2" - 14" ID sizes are made from Stainless or Galvanized Steel.
- Variety of material thicknesses are available.
- Unlined (rough bore) or lined (smooth bore)
- Packing options include cotton, stainless steel wire, apyrous, elastomeric (gas tight) and silicone.
- We offer a wide selection of end fittings, including Cam & Groove, Flanges, Tube Stubs and Nipples.



PVC Hose



PVC Hose Clamp

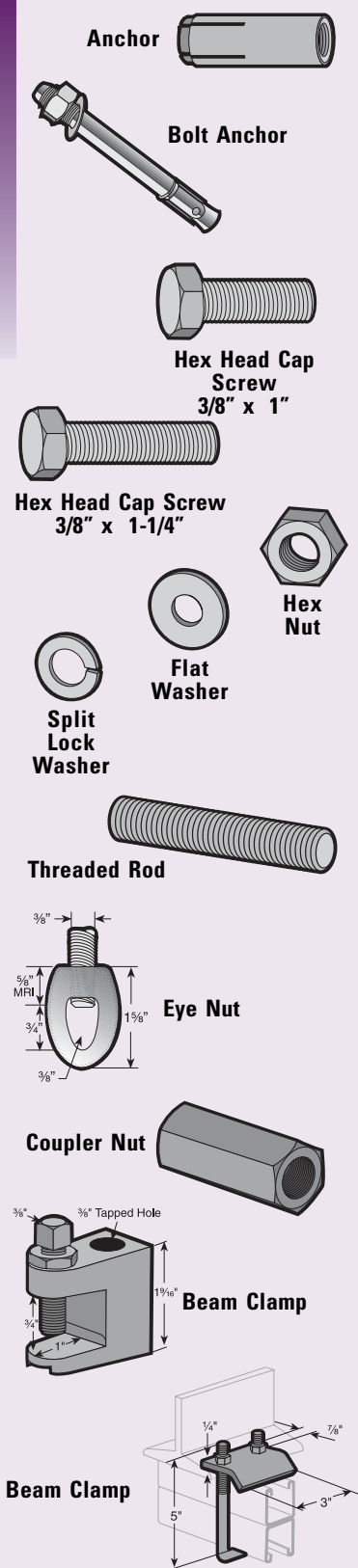


Metal Flexible Hose

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, Includes Washer and Hex Nut	3/8" x 3-3/4" (Overall Length) 1-1/8" Thread Length	Zinc	100 pc.	ANC-0381
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 <i>"More Length When You Need It"</i>	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 Hangers"</i>	3/8" Tapped Hole	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. <i>"The Cost-Effective Solution When You Don't Need Our Heavy-Duty Beam Clamp (BC-037T)"</i>	3/8" Tapped Hole	Malleable Iron - Plain	each	BC-100
Beam Clamp 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		Zinc	2 pc.	BC-2786

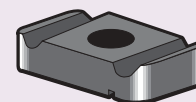


MRI = Minimum Rod Insertion
Zinc = Galvanized Carbon Steel
OD = Outside Diameter
All reference dimensions are nominal.

KEY

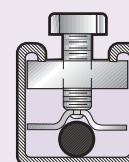
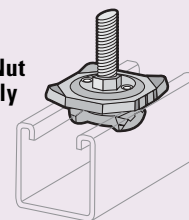
Installation Components - cont.

DESCRIPTION	SIZE	MATERIAL	PKGD.	PART NO.
Channel Nut , without spring	3/8"	Zinc	each	CHN-0380
Saddlenut Assembly <i>"Replaces Square Washer Plate and a Channel Nut Combination"</i>		Zinc	25	SN-0380
Hanger Rod Stiffener Assembly <i>"Adds Rigidity to all Threaded Rod / Strut Channel Combinations where Earthquake Activity is a Concern"</i>		Zinc	each	SA-100
Slotted Strut, 14 Gauge	13/16"(D) x 1-5/8", 10' Length	Zinc	each	UN-100
Slotted Strut, 14 Gauge <i>"An Economical Alternative When You Don't Require Our Heavy-Duty Strut (UN-202)"</i>	1-5/8"(D) x 1-5/8", 10' Length	Zinc	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 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

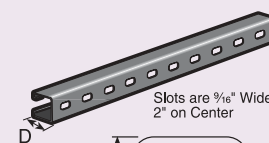


Channel Nut

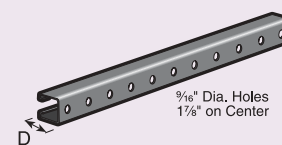
Saddle Nut Assembly



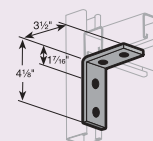
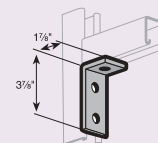
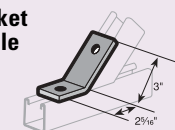
Hanger Rod Stiffener Assembly



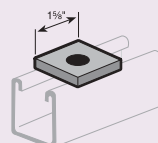
Slotted Strut



Strut

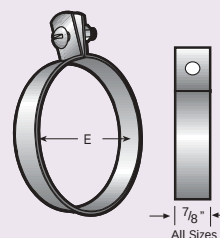
90° Strut Bracket
2 holes x 2 holes90° Strut Bracket
2 holes x 1 hole

45° Strut Bracket

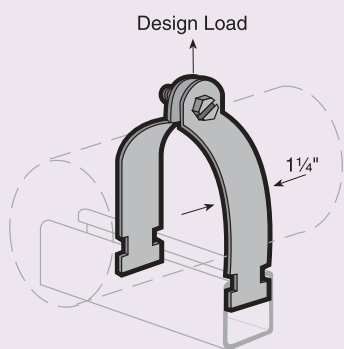


Square Washer Plate

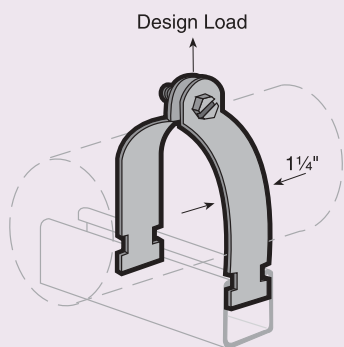
Tube Hanger



All Sizes



Pipe Clamp



Tube Clamp

Installation Components - cont.

DESCRIPTION	SIZE	MATERIAL	PKGD.	PART NO.
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 1-1/2" Pipe Size	Zinc	4 pc.	PCL-150
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 2" Pipe Size	Zinc	4 pc.	PCL-200
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 2-1/2" Pipe Size	Zinc	4 pc.	PCL-250
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 3" Pipe Size	Zinc	4 pc.	TCL-350*
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 3-1/2" Pipe Size	Zinc	4 pc.	TCL-400*
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 4" Pipe Size	Zinc	4 pc.	TCL-450*
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 5" Pipe Size	Zinc	4 pc.	PCL-500
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 6" Pipe Size	Zinc	4 pc.	PCL-600
Pipe Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 8" Pipe Size	Zinc	4 pc.	PCL-800**
* Tube Clamp also fits this pipe size.				
** 2 piece package				
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 600 lbs.	For 1-1/2" OD Tube	Zinc	4 pc.	TCL-150
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 2" OD Tube	Zinc	4 pc.	TCL-200
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 2-1/8" OD Tube	Zinc	4 pc.	TCL-212
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 2-1/2" OD Tube	Zinc	4 pc.	TCL-250
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 3" OD Tube	Zinc	4 pc.	TCL-300
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 800 lbs.	For 3-1/2" OD Tube	Zinc	4 pc.	TCL-350
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 4" OD Tube	Zinc	4 pc.	TCL-400
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 4-1/2" OD Tube	Zinc	4 pc.	TCL-450
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 5" OD Tube	Zinc	4 pc.	TCL-500
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 6" OD Tube	Zinc	4 pc.	TCL-600
Tube Clamp , includes Slotted Hex Head Screw and Nut, Design Load 1000 lbs.	For 8" OD Tube	Zinc	4 pc.	TCL-800**
** 2 piece package				

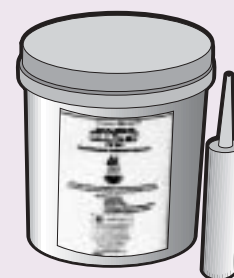
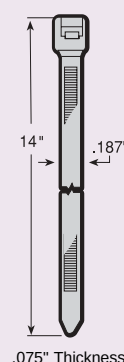
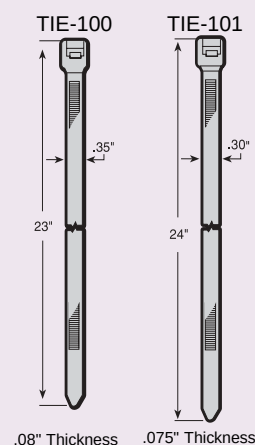
KEY

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

Installation Components - cont.

DESCRIPTION	SIZE	MATERIAL	PKGD.	PART NO.
Cable Tie Features: One-piece construction. Easy to use. Permanent lock. Designed to withstand 90 lbs. of force. Richco Brand.	23" Length	Nylon	100 pc.	TIE-100
Cable Tie Features: One-piece construction. Easy to use. Permanent lock. Designed to withstand 60 lbs. of force. Catamount Brand. <i>"When Our Heavy-Duty Cable Tie (TIE-100) Isn't Necessary"</i>	24" Length	Nylon	50 pc.	TIE-101
Cable Tie Features: One-piece construction. Easy to use. Permanent lock. Designed to withstand 25 lbs. of force. Catamount Brand. <i>"A Light-Duty, Shorter Length Tie"</i>	14" Length	Nylon	100 pc.	TIE-200
Firestop Sealant A non-sag silicone which remains flexible after curing for simple metal pipe penetrations and fire-rated joints where the ability to absorb movement and/or vibration is required. 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®.	4-gallon Bucket	-	each	FSB-100
Firestop Sealant 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®.	10.5-oz. Tube	-	each	FST-100
Metal Sealant An aluminum-colored, medium viscosity, synthetic rubber sealant with excellent 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.	Quart Can	-	each	2084-QT

Cable Ties



Firestop Sealant



Metal Sealant

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

HP
METFLO™

Notes

Most Frequently Requested Specials

The beginning of this catalog shows some of our most frequently requested special fabrications along with typical dimensions. These products are also available made to your unique specifications. To obtain pricing, please use the worksheet below to communicate your design. Our Sales Engineers are standing by to assist you. Typical quote turnaround time is less than 24 hours.

Please Note: All items quoted using standard H-P Products dimensional tolerances. Special requests may require additional tooling, fixtures, or non-standard processing.

FAX Quote Specification Sheet
PECO (804)236-3882
ATTN: TPD Sales

From: _____
Company: _____
Contact: _____
Return Fax: _____
Phone: _____

Product			Dimensions
Parallel Wye	_____	Quantity	A) _____
Flange Stub	_____	Material Type	B) _____
Mitred Elbow	_____	Tube OD	C) _____
Segmented Elbow	_____	Pipe Size	D) _____
Manifold	_____	Wall Thickness	E) _____
			F) _____
			G) _____

Special Requirements or Comments:

Notes



A division of H-P Products, Inc.

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