



**OmegaFlex TracPipe**

**Raychem HTS**

**PORTALSPLUS**

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# COPPER TUBING

## REFRIGERATION SERVICE



### TYPE ACR

Copper tube pressurized with nitrogen provides maximum protection against the formation of harmful oxides generated during brazing operations. "ACR" tube used in the Refrigeration & Air Conditioning Industry is "L" type

tube that is cleaned and capped and specified by the OD.

"ACR" type seamless copper tubing is available cleaned, capped and charged with nitrogen in sizes 3/8" OD thru 3 1/8" OD. Available cleaned, capped, but not charged to 4 1/8" OD.

OD sizes 3/8" through 1 3/8" are suitable for use with R410A.

PRICED PER FOOT

Part No.	OD Size (In.)	Wall Thickness (In.)	Length (Ft.)	Wt./Ft. (Lbs.)	Price/Ft.
14ACR10	1/4	0.025	10	0.0685	☞
14TCT <sup>1</sup>	1/4	0.025	20	0.0685	☞
38ACR10	3/8	0.030	10	0.1260	☞
38ACR	3/8	0.030	20	0.1260	☞
12ACR10	1/2	0.035	10	0.1980	☞
12ACR	1/2	0.035	20	0.1980	☞
58ACR10	5/8	0.040	10	0.2850	☞
58ACR	5/8	0.040	20	0.2850	☞
34ACR10	3/4	0.042	10	0.3620	☞
34ACR	3/4	0.042	20	0.3620	☞
78ACR10	7/8	0.045	10	0.4550	☞
78ACR	7/8	0.045	20	0.4550	☞
118ACR10	1-1/8	0.050	10	0.6550	☞
118ACR	1-1/8	0.050	20	0.6550	☞
138ACR10	1-3/8	0.055	10	0.8840	☞
138ACR	1-3/8	0.055	20	0.8840	☞
158ACR10	1-5/8	0.060	10	1.1400	☞
158ACR	1-5/8	0.060	20	1.1400	☞
218ACR10	2-1/8	0.070	10	1.7500	☞
218ACR	2-1/8	0.070	20	1.7500	☞
258ACR	2-5/8	0.080	20	2.4800	☞
318ACR	3-1/8	0.090	20	3.3300	☞
358ACR	3-5/8	0.100	20	4.2900	☞
418ACR	4-1/8	0.110	20	5.3800	☞
518ACR	5-1/8	0.125	20	7.61	☞

<sup>1</sup>Not cleaned and capped.

## WATER SERVICE



### TYPE L

"L" type tube is used in the Plumbing Industry for water service and is specified by its nominal ID dimension.

Part No.	Nom. ID Size (In.)	OD Size (In.)	Wall Thickness (In.)	Wt./Ft. (Lbs.)	Price/Ft.
12LCOPPER	1/2	5/8	0.040	0.285	☞
34LCOPPER	3/4	7/8	0.045	0.455	☞
1LCOPPER	1	1-1/8	0.050	0.655	☞
114LCOPPER	1-1/4	1-3/8	0.055	0.884	☞
112LCOPPER	1-1/2	1-5/8	0.060	1.140	☞
2LCOPPER	2	2-1/8	0.070	1.750	☞
212LCOPPER	2-1/2	2-5/8	0.080	2.480	☞
3LCOPPER	3	3-1/8	0.090	3.330	☞
4LCOPPER	4	4-1/8	0.110	5.380	☞
5LCOPPER	5	5-1/8	0.125	7.610	☞
6LCOPPER	6	6-1/8	0.122	10.20	☞



### TYPE K

"K" type copper, traditionally used in underground service, is heavier walled than "L" tube. It is used in underground water service and oxygen service. It could be specified by OD or ID. So, please specify exact dimension.

Cleaned for oxygen service to ASTM B819 specifications. 20' length standard.

OD sizes 3/8" through 2 5/8" are suitable for use with R410A.

PRICED PER FOOT

Part No.	OD Size (In.)	Nom. ID Size (In.)	Wall Thickness (In.)	Wt./Ft. (Lbs.)	Price/Ft.
38KACR	3/8	1/4	0.035	0.145	☞
12KACR	1/2	3/8	0.049	0.269	☞
58KACR	5/8	1/2	0.049	0.344	☞
34KACR	3/4	5/8	0.049	0.418	☞
78KACR	7/8	3/4	0.065	0.641	☞
118KACR	1-1/8	1	0.065	0.839	☞
138KACR	1-3/8	1-1/4	0.065	1.040	☞
158KACR	1-5/8	1-1/2	0.072	1.360	☞
218KACR	2-1/8	2	0.083	2.060	☞
258KACR	2-5/8	2-1/2	0.095	2.930	☞
318KACR	3-1/8	3	0.109	4.000	☞

☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.



## TYPE M

"M" type copper, is thin walled, low cost tube that is used in water service and drain. It is specified by nominal ID.

Part No.	Nom. ID Size (In.)	OD Size (In.)	Wall Thickness (In.)	Wt./Ft. (Lbs.)	Price/Ft.
12M	1/2	5/8	0.028	0.204	☞
58MCOPPER	5/8	3/4	0.030	0.263	☞
34M	3/4	7/8	0.032	0.328	☞
1M	1	1-1/8	0.035	0.465	☞
114M	1-1/4	1-3/8	0.042	0.682	☞
112M	1-1/2	1-5/8	0.049	0.940	☞
2M	2	2-1/8	0.058	1.460	☞
212M	2-1/2	2-5/8	0.065	2.030	☞
3M	3	3-1/8	0.072	2.680	☞
4M	4	4-1/8	0.095	4.660	☞
5M	5	5-1/8	0.109	6.6600	☞
6M	6	6-1/8	0.122	8.9200	☞

## REFRIGERATION SERVICE



Refrigeration service tube is dehydrated and nitrogen purged sealed copper tube of a consistent fully annealed temper. Tube is manufactured in accordance with ASTM B 280 and ANSI B9.1, refrigeration industry standards.

OD sizes 1/8" through 1 1/8" are suitable for use with R410A.

Part No.	OD Size (In.)	Wall Thickness (In.)	Length (Ft.)	Wt./Coil	Price
18X50	1/8	0.030	50	1.74	☞
316X50	3/16	0.030	50	2.88	☞
14X10	1/4	0.030	10	0.804	☞
14X30	1/4	0.030	30	2.41	☞
14X50	1/4	0.030	50	4.02	☞
14X100	1/4	0.030	100	8.04	☞
516X10	5/16	0.032	10	1.09	☞
516X30	5/16	0.032	30	3.27	☞
516X50	5/16	0.032	50	5.45	☞
516X100	5/16	0.032	100	10.90	☞
38X10	3/8	0.032	10	1.34	☞
38X30	3/8	0.032	30	4.02	☞
38X50	3/8	0.032	50	6.70	☞
38X100	3/8	0.032	100	13.40	☞
12X10	1/2	0.032	10	1.82	☞
12X30	1/2	0.032	30	5.46	☞
12X50	1/2	0.032	50	9.10	☞
12X100	1/2	0.032	100	18.20	☞
58X10	5/8	0.035	10	2.51	☞
58X30	5/8	0.035	30	7.53	☞
58X50	5/8	0.035	50	12.55	☞
58X100	5/8	0.035	100	25.10	☞
34X10	3/4	0.035	10	3.05	☞
34X30	3/4	0.035	30	9.15	☞
34X50	3/4	0.035	50	15.25	☞
34X100	3/4	0.035	100	30.50	☞

## REFRIGERATION SERVICE (Cont'd.)

Part No.	OD Size (In.)	Wall Thickness (In.)	Length (Ft.)	Wt./Coil	Price
78X10	7/8	0.045	10	4.55	☞
78X30	7/8	0.045	30	13.65	☞
78X50	7/8	0.045	50	22.75	☞
78X100	7/8	0.045	100	45.50	☞
118X50	1-1/8	0.050	50	32.75	☞
118X100	1-1/8	0.050	100	65.50	☞
138X50	1-3/8	0.055	50	44.20	☞
138X100	1-3/8	0.055	100	88.40	☞
158X50	1-5/8	0.060	50	57.00	☞
158X100	1-5/8	0.060	100	114.00	☞

## PREINSULATED SUCTION LINE



- Does not include liquid line
- 50' lengths
- Insulation wall thickness available: 3/8, 1/2, 3/4 inch

Part No.	Tubing OD Size (In.)	Insulation Wall Thickness (In.)	Price
14X12X50ISL	1/4	1/2	☞
14X1X50ISL	1/4	1	☞
38X12X50ISL	3/8	1/2	☞
38X1X50ISL	3/8	1	☞
12X12X50ISL	1/2	1/2	☞
12X1X50ISL	1/2	1	☞
58X12X50ISL	5/8	1/2	☞
58X34X50ISL	5/8	3/4	☞
58X1X50ISL	5/8	1	☞
34X12X50ISL	3/4	1/2	☞
34X34X50ISL	3/4	3/4	☞
34X1X50ISL	3/4	1	☞
78X12X50ISL	7/8	1/2	☞
78X34X50ISL	7/8	3/4	☞
118X12X50ISL	1 1/8	1/2	☞
118X34X50ISL	1 1/8	3/4	☞

☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

# COPPER TUBING

## PREINSULATED LINE SET



Streamline Line Sets are now available with our DuraGuard Tear-Resistant Insulation. This unique polyethylene insulation has a tough, tear resistant outer layer which protects the line set and its insulation during rough job site handling and tight-space remodel/replacement projects.

- 10 year warranty
- Tear resistant outer layer
- UV resistant
- Meets 25/50 flame and smoke rating per ASTM E84
- Numbered every foot for easy measurement
- Mold and mildew resistant
- Increased condensation control



Part No.	OD Size (In.)	Wall Thickness (In.)	Length (Ft.)	Weight (Lbs.)	Price
00470500	1/4	1/2	50	4.02	125.04
00490500	1/4	3/4	50	4.02	156.78
00670500	3/8	1/2	50	6.70	177.24
00690500	3/8	3/4	50	6.70	222.86
00870500	1/2	1/2	50	9.10	199.96
00890500	1/2	3/4	50	9.10	255.56
01070500	5/8	1/2	50	12.55	251.54
01090500	5/8	3/4	50	12.55	301.52
01270500	3/4	1/2	50	15.24	300.50
01271000	3/4	1/2	100	31.00	631.02
01290500	3/4	3/4	50	15.24	376.40
01470500	7/8	1/2	50	22.75	399.48
01471000	7/8	1/2	100	46.00	838.90
00471640	1/4	1/2	164	13.19	403.98
00671640	3/8	1/2	164	21.98	556.70
00871640	1/2	1/2	164	29.85	709.96
01071640	5/8	1/2	164	41.16	863.44



- Includes insulated suction line and non-insulated liquid line.
- Insulation wall thickness 3/8" or 3/4"
- Suitable for use with R410A

Part No.	Liquid Line OD (In.)	Suction Line OD (In.)	Wall Thickness (In.)	Length (Ft.)	Price
61030-1/2	3/8	5/8	1/2	30	⌘
61050-1/2	3/8	5/8	1/2	50	⌘
61225-1/2	3/8	3/4	1/2	25	⌘
61230-1/2	3/8	3/4	1/2	30	⌘
61235-1/2	3/8	3/4	1/2	35	⌘
61250-1/2	3/8	3/4	1/2	50	⌘
61425-1/2	3/8	7/8	1/2	25	⌘
61430-1/2	3/8	7/8	1/2	30	⌘
61450-1/2	3/8	7/8	1/2	50	⌘
61830-1/2	3/8	1-1/8	1/2	30	⌘
61850-1/2	3/8	1-1/8	1/2	50	⌘
61030-3/4	3/8	5/8	3/4	30	⌘
61050-3/4	3/8	5/8	3/4	50	⌘
61230-3/4	3/8	3/4	3/4	30	⌘

## PREINSULATED LINE SET (Cont'd.)

Part No.	Liquid Line OD (In.)	Suction Line OD (In.)	Wall Thickness (In.)	Length (Ft.)	Price
61250-3/4	3/8	3/4	3/4	50	⌘
61430-3/4	3/8	7/8	3/4	30	⌘
61450-3/4	3/8	7/8	3/4	50	⌘
61850-3/4	3/8	1-1/8	3/4	50	⌘

## LINE SET WITH POWER CABLE



### WALL THICKNESS, 1/2"

Mini-split line set kits with tube and insulation pre-assembled and packaged with pre-cut cable

- 14-4 Cable (except MSLS385825 and MSLS385850)
- Stranded bare copper THHN conductors
- Sunlight resistant
- RoHS compliant, black PVC Jacket
- 600V
- R410A rated
- Insulation: closed-cell construction ensures excellent thermal conductivity, prevents mold and mildew and fire resistant
- 25/50 rating
- UL Listed

Part No.	Liquid Line OD (In.)	Suction Line OD (In.)	Length (Ft.)	Price
MSLS141214425-1/2	1/4	1/2	25	269.46
MSLS141214450-1/2	1/4	1/2	50	447.74
MSLS143814425-1/2	1/4	3/8	25	260.92
MSLS143814450-1/2	1/4	3/8	50	435.20
MSLS145814425-1/2	1/4	5/8	25	303.64
MSLS145814450-1/2	1/4	5/8	50	489.96
MSLS385814425-1/2	3/8	5/8	25	300.06
MSLS385814450-1/2	3/8	5/8	50	493.00
<b>No Cable</b>				
MSLS141225-1/2	1/4	1/2	25	180.22
MSLS141250-1/2	1/4	1/2	50	305.60
MSLS143825-1/2	1/4	3/8	25	170.38
MSLS143850-1/2	1/4	3/8	50	290.64
MSLS145825-1/2	1/4	5/8	25	214.42
MSLS145850-1/2	1/4	5/8	50	347.80
MSLS385825-1/2	3/8	5/8	25	210.76
MSLS385850-1/2	3/8	5/8	50	350.84

⌘ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

## EXTRA HIGH PERFORMANCE COPPER-IRON TUBES AND FITTINGS

Mueller Industries' Streamline® XHP system consists of copper-iron alloy tube and fittings specially designed to manage the extended high pressures and broad temperature fluctuations associated with modern refrigerants.

Ideally suited for commercial CO<sub>2</sub> refrigeration applications, this technically advanced tubing is a more practical alternative to steel piping due in part to familiar copper properties and the traditional joining method of brazing.



### TUBING

- 1885 PSI - Alloy C194 (CuFe2P)
- ACR Cleaning Process
- High Corrosion Resistance
- Traditional Brazed Joining
- Magnetic Identification
- Green Caps
- XHP Tube is Made in USA

PRICED PER FOOT



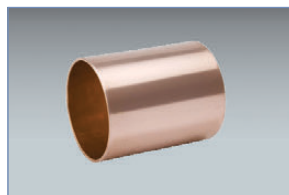
Part No.	OD Size (In.)	Length (Ft.)	Wt./Ft. (Lbs.)	Price/Ft.
130X10020	1 1/8	20	0.9967	33.06
130X12020	1 3/8	20	1.4883	49.08
130X14020	1 5/8	20	2.0781	68.24



### COUPLING, ROLLED STOP



Part No.	OD Size (In.)	Price
X01047	1 1/8	26.30
X01055	1 3/8	44.68



### COUPLING, STAKED STOP



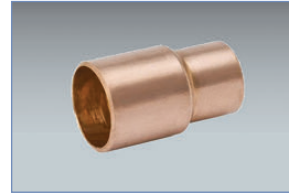
Part No.	OD Size (In.)	Price
X10146	7/8	24.40
X10147	1 1/8	26.30
X10148	1 3/8	44.68
X10149	1 5/8	73.86



### COUPLING REDUCER



Part No.	OD Size (In.)		Price
	1	2	
X01049	1 1/8	7/8	73.86
X01056	1 3/8	1 1/8	65.96
X01064	1 5/8	1 3/8	95.56



### FITTING REDUCER



Part No.	OD Size (In.)		Price
	1	2	
X01343	1 3/8	1 1/8	65.96
X01350	1 5/8	1 3/8	53.10



### 90° ELBOW



Part No.	OD Size (In.)	Price
X02847	1 1/8	52.84
X02355	1 5/8	140.42



### 90° ELBOW LONG RADIUS



Part No.	OD Size (In.)	Price
X02734	7/8	46.56
X02063	1 5/8	140.02
X02747	1 1/8	54.42



### 90° ELBOW LONG RADIUS STREET



Part No.	OD Size (In.)	Price
X02834	7/8	45.56



### TEE



Part No.	OD Size (In.)	Price
X04048	1 1/8	68.14
X04068	1 3/8	109.12
X04084	1 5/8	158.08

# TUBING INSULATION

## EXPANDED ELASTOMER



A flexible elastomeric thermal insulation, supplied in cylindrical lengths in nominal wall thicknesses of 3/8", 1/2", 3/4", and 1". The expanded closed-cell structure of pipe insulation makes it an efficient insulator, effectively retards the flow of moisture vapor and is considered a low-transmittance vapor retarder.

This insulation consistently provides actual values on these key performance criteria for mechanical system insulation: thermal conductivity: approx. 0.27; water vapor transmission: approx. 0.10.

Pipe insulation, in 3/8", 1/2", 3/4", and 1" thicknesses has a flame-spread rating of 25 or less and a smoke-developed rating of 50 or less as tested by ASTM E 84-91A, "Methods of Test for Surface Burning Characteristics of Building Materials."

Used to retard heat gain and control condensation drip from cold-water plumbing, chilled-water, and refrigeration lines. It also efficiently reduces heat flow for hot-water plumbing and liquid-heating and dual-temperature piping. The recommended temperature usage range -70°F to +220°F (-57°C to 105°C)

- Copper tubing and iron pipe sizes are recommended fit
- Sold in 6 foot lengths; priced per foot

Design Conditions	Tubing Size (In.)	Line Temperature			
		50°F	32°F	0°F	-20°F
		Insulation Thickness - Nominal (In.)			
Normal	3/8 to 1 1/8 ID	3/8	1/2	3/4	1
89°F, 70% RH max	1 1/8 to 2 1/8 ID	3/8	1/2	1	1
	2 1/8 to 2 5/8 ID	3/8	1/2	1	1 1/4
	2 5/8 ID to 5 IPS	1/2	3/4	1	1 1/4
Mild	3/8 to 2 5/8 ID	3/8	3/8	1/2	3/4
	2 5/8 ID to 5 IPS	1/2	1/2	1/2	3/4
Severe	3/8 to 1 5/8 ID	3/4	1	1 1/2	1 1/2
	1 5/8 ID to 3 IPS	3/4	1	1 1/2	1 3/4
	3 IPS to 5 IPS	3/4	1	1 1/2	2

Normal: Indoor conditions in the United States seldom exceed these conditions.

Mild: Most air conditioned spaces and arid climates.

Severe: Excessive moisture introduced or poorly ventilated confined areas below ambient.

Thickness over 1" achieved by layering.

### UNSLIT 1/4" WALL

Part No.	Copper Tubing			Iron Pipe	Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)		
38X14	3/8	1/4	3/8	—	0.42

### UNSLIT 3/8" WALL

Part No.	Copper Tubing			Iron Pipe	Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)		
14X38	1/4	1/8	1/4	—	0.68
38X38	3/8	1/4	3/8	—	0.72
12X38	1/2	3/8	1/2	1/4	0.78
58X38	5/8	1/2	5/8	3/8	0.88
34X38	3/4	5/8	3/4	—	0.94
78X38	7/8	3/4	7/8	1/2	0.98
118X38	1-1/8	1	1-1/8	3/4	1.12
138X38	1-3/8	1-1/4	1-3/8	1	1.26
158X38	1-5/8	1-1/2	1-5/8	1-1/4	1.58
178X38	1-7/8	—	—	1-1/2	1.72
218X38	2-1/8	2	2-1/8	—	1.88
258X38	2-5/8	2-1/2	2-5/8	—	2.82
318X38	3-1/8	3	3-1/8	—	3.48
358X38	3-5/8	—	—	3	3.40

### UNSLIT 1/2" WALL

Part No.	Copper Tubing			Iron Pipe	Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)		
14X12	1/4	1/8	1/4	—	1.00
38X12	3/8	1/4	3/8	—	1.10
12X12	1/2	3/8	1/2	1/4	1.16
58X12	5/8	1/2	5/8	3/8	1.28
34X12	3/4	5/8	3/4	—	1.32
78X12	7/8	3/4	7/8	1/2	1.44
118X12	1-1/8	1	1-1/8	3/4	1.60
138X12	1-3/8	1-1/4	1-3/8	1	1.76
158X12	1-5/8	1-1/2	1-5/8	1-1/4	2.02
218X12	2-1/8	2	2-1/8	—	2.60
258X12	2-5/8	2-1/2	2-5/8	—	3.50
278X12	2-7/8	—	—	2-1/2	3.70
318X12	3-1/8	3	3-1/8	—	4.12
312X12	3-1/2	—	—	3	4.34
358X12	3-5/8	3-1/2	3-5/8	3	5.42
418X12	4-1/8	4	4-1/8	3-1/2	5.66

## UNSLIT 3/4" WALL

Part No.	Insulation ID (In.)	Copper Tubing		Iron Pipe (In.)	Price/Ft.
		Nom. Size (In.)	OD Size (In.)		
14X34	1/4	1/8	1/4	—	1.52
38X34	3/8	1/4	3/8	—	1.64
12X34	1/2	3/8	1/2	1/4	1.80
58X34	5/8	1/2	5/8	3/8	1.96
34X34	3/4	5/8	3/4	—	2.14
78X34	7/8	3/4	7/8	1/2	2.34
118X34	1-1/8	1	1-1/8	3/4	2.86
138X34	1-3/8	1-1/4	1-3/8	1	3.26
158X34	1-5/8	1-1/2	1-5/8	1-1/4	4.32
178X34	1-7/8	—	—	1-1/2	4.62
218X34	2-1/8	2	2-1/8	—	5.26
238X34	2-3/8	—	—	2	5.78
212X34	2-1/2 IPS	—	—	2-1/2	7.44
258X34	2-5/8	2-1/2	2-5/8	—	6.64
278X34	2-7/8	—	—	2-1/2	7.02
318X34	3-1/8	3	3-1/8	—	7.60
358X34	3-5/8	3-1/2	3-5/8	3	8.68
418X34	4-1/8	4	4-1/8	3-1/2	9.92

## UNSLIT 1" WALL

Part No.	Insulation ID (In.)	Copper Tubing		Iron Pipe (In.)	Price/Ft.
		Nom. Size (In.)	OD Size (In.)		
14X1	1/4	1/8	1/4	—	2.84
12X1	1/2	3/8	1/2	1/4	3.28
58X1	5/8	1/2	5/8	3/8	3.50
34X1	3/4	5/8	3/4	—	3.86
78X1	7/8	3/4	7/8	1/2	4.30
118X1	1-1/8	1	1-1/8	3/4	5.24
138X1	1-3/8	1-1/4	1-3/8	1	6.06
158X1	1-5/8	1-1/2	1-5/8	1-1/4	6.72
218X1	2-1/8	2	2-1/8	—	8.08
258X1	2-5/8	2-1/2	2-5/8	—	11.42
318X1	3-1/8	3	3-1/8	—	13.84
358X1	3-5/8	3-1/2	3-5/8	3	15.12
418X1	4-1/8	4	4-1/8	3-1/2	17.76

## UNSLIT 1 1/2" WALL

Part No.	Insulation ID (In.)	Copper Tubing		Iron Pipe (In.)	Price/Ft.
		Nom. Size (In.)	OD Size (In.)		
38X112	3/8	1/4	3/8	—	8.90
58X112	5/8	1/2	5/8	3/8	9.38
34X112	3/4	5/8	3/4	—	9.76
78X112	7/8	3/4	7/8	1/2	10.16
118X112	1-1/8	1	1-1/8	3/4	10.50
138X112	1-3/8	1-1/4	1-3/8	1	11.06
158X112	1-5/8	1-1/2	1-5/8	1-1/4	11.34
218X112	2-1/8	2	2-1/8	—	11.88
258X112	2-5/8	2-1/2	2-5/8	—	16.86
318X112	3-1/8	3	3-1/8	—	20.34
358X112	3-5/8	3-1/2	3-5/8	3	22.22
418X112	4-1/8	4	4-1/8	3-1/2	25.98

## UNSLIT, 2" WALL

Part No.	Insulation ID (In.)	Copper Tubing		Iron Pipe (In.)	Price/Ft.
		Nom. Size (In.)	OD Size (In.)		
58X2	5/8	1/2	5/8	3/8	18.12
78X2	7/8	3/4	7/8	1/2	20.74
118X2	1-1/8	1	1-1/8	3/4	20.94
138X2	1-3/8	1 1/4	1-3/8	1	23.66
218X2	2-1/8	2	2-1/8	—	28.60



## UNSLIT 1/2" WALL WHITE

Part No.	Insulation ID (In.)	Copper Tubing		Iron Pipe (In.)	Price/Ft.
		Nom. Size (In.)	OD Size (In.)		
38X12WT	3/8	1/4	3/8	—	1.24
12X12WT	1/2	3/8	1/2	1/4	1.32
58X12WT	5/8	1/2	5/8	3/8	1.44
34X12WT	3/4	5/8	3/4	—	1.50
78X12WT	7/8	3/4	7/8	1/2	1.62
118X12WT	1-1/8	1	1-1/8	3/4	1.80
138X12WT	1-3/8	1-1/4	1-3/8	1	1.98
158X12WT	1-5/8	1-1/2	1-5/8	1-1/4	2.28
218X12WT	2-1/8	2	2-1/8	—	3.46
258X12WT	2-5/8	2-1/2	2-5/8	—	4.64
318X12WT	3-1/8	3	3-1/8	—	4.94

## UNSLIT 3/4" WALL WHITE

Part No.	Insulation ID (In.)	Copper Tubing		Iron Pipe (In.)	Price/Ft.
		Nom. Size (In.)	OD Size (In.)		
12X34WT	1/2	3/8	1/2	1/4	2.04
58X34WT	5/8	1/2	5/8	3/8	2.20
34X34WT	3/4	5/8	3/4	—	2.42
78X34WT	7/8	3/4	7/8	1/2	2.64
118X34WT	1-1/8	1	1-1/8	3/4	3.22
138X34WT	1-3/8	1-1/4	1-3/8	1	3.68
158X34WT	1-5/8	1-1/2	1-5/8	1-1/4	4.86
218X34WT	2-1/8	2	2-1/8	—	5.88
258X34WT	2-5/8	2-1/2	2-5/8	—	6.84
318X34WT	3-1/8	3	3-1/8	—	8.04
358X34WT	3-5/8	3-1/2	3-5/8	3	9.74
418X34WT	4-1/8	4	4-1/8	—	9.74

# TUBING INSULATION

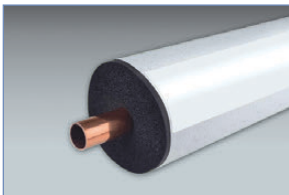
## EXPANDED ELASTOMER

### UNSLIT 1" WALL WHITE

Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
12X1WT	1/2	3/8	1/2	1/4	2.26
58X1WT	5/8	1/2	5/8	3/8	3.92
78X1WT	7/8	3/4	7/8	1/2	4.84
118X1WT	1-1/8	1	1-1/8	3/4	5.86
138X1WT	1-3/8	1-1/4	1-3/8	1	6.80
158X1WT	1-5/8	1-1/2	1-5/8	1-1/4	7.56
218X1WT	2-1/8	2	2-1/8	—	9.12
258X1WT	2-5/8	2-1/2	2-5/8	—	9.96
318X1WT	3-1/8	3	3-1/8	—	12.14
358X1WT	3-5/8	3-1/2	3-5/8	—	4.34
418X1WT	4-1/8	4	4-1/8	—	9.74

### UNSLIT 1 1/2" WALL WHITE

Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
38X112WT	3/8	1/4	3/8	—	1.82
12X112WT	1/2	3/8	1/2	1/4	4.62
58X112WT	5/8	1/2	5/8	3/8	1.82
78X112WT	7/8	3/4	7/8	1/2	11.30
118X112WT	1-1/8	1	1-1/8	3/4	11.68
138X112WT	1-3/8	1-1/4	1-3/8	1	12.32
158X112WT	1-5/8	1-1/2	1-5/8	1-1/4	12.62
218X112WT	2-1/8	2	2-1/8	—	13.42
258X112WT	2-5/8	2-1/2	2-5/8	—	18.86
318X112WT	3-5/8	3-1/2	3-1/8	—	22.84
418X112WT	4-1/8	4	4-1/8	—	29.32



### AP ARMAFLEX® SHIELD, UNSLIT 1 1/2" WHITE CLAD TUBES

• The Armaflex insulation, along with the laminated cladding, provides zero water vapor permeability

- The white embossed jacketing surface does not require painting and is easy to maintain
- The combined insulation and jacketing construction decreases field-applied installation steps to reduce labor costs
- Applications ranging from -297°F to 220°F
- 3 Foot long

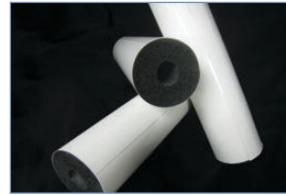


Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
AST01215	1/2	3/8	1/2	1/4	33.76
AST03815	3/8	1/4	3/8	—	33.26
AST05815	5/8	1/2	5/8	3/8	34.34
AST07815	7/8	3/4	7/8	1/2	37.50
AST11815	1 1/8	1	1 1/8	3/4	40.22
AST15815	1 5/8	1 1/2	1 5/8	1 1/4	46.32
AST21815	2 1/8	2	2 1/8	—	52.40
AST25815	2 5/8	2 1/2	2 5/8	—	58.18



### ARMASHIELD CLAD TAPE

Part No.	Thickness (In.)	Width (In.)	Length (Ft.)	Price
AST10240150	0.4	4	150	502.36



K-Flex Clad® WT NS combines a flexible elastomeric tube insulation with a white-finish clad covering that is moisture and abuse resistant, low in VOCs and mold-resistant.

- Applications ranging from -297°F to 220°F

### K-FLEX CLAD®, UNSLIT 1" WALL WHITE

Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
6RY100078WTS	7/8	3/4	7/8	1/2	14.40
6RY100118WTS	1 1/8	1	1 1/8	3/4	15.22
6RY100138WTS	1 3/8	1 1/4	1 3/8	1	16.22
6RY100158WTS	1 5/8	1 1/2	1 5/8	1 1/4	16.82
6RY100218WTS	2 1/8	2	2 1/8	—	22.34
6RY100258WTS	2 5/8	2 1/2	2 5/8	—	26.00

### K-FLEX CLAD®, UNSLIT 1 1/2" WALL WHITE

Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
6RY148058WTS	5/8	1/2	5/8	3/8	42.14
6RY148068WTS	3/4	5/8	3/4	—	42.88
6RY148078WTS	7/8	3/4	7/8	1/2	46.10
6RY148118WTS	1 1/8	1	1 1/8	3/4	49.48
6RY148138WTS	1 3/8	1 1/4	1 3/8	1	53.72
6RY148158WTS	1 5/8	1 1/2	1 5/8	1 1/4	57.10
6RY148218WTS	2 1/8	2	2 1/8	—	64.72
6RY148258WTS	2 5/8	2 1/2	2 5/8	—	71.90



### K-FLEX CLAD® AL

K-Flex Clad® AL Tube is elastomeric tube insulation (black) fully-adhered to an aluminum-finish jacketing that protects the insulation against damage from UV rays, mechanical abuse, moisture, and chemicals. It also serves

as a second moisture vapor barrier.

It comes equipped with a dual closure system: self-seal adhesive strips on the longitudinal seam and an overlap jacket closure system.

For use outdoors to insulate hot water, chilled water or refrigeration lines.

- Applications ranging from -297°F to 220°F

### K-FLEX CLAD® AL, PRE-SLIT 1/2" WALL

Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
6RYL048048AL	1/2	3/8	1/2	1/4	12.16
6RYL048058AL	5/8	1/2	5/8	3/8	12.16



## K-FLEX CLAD® AL, PRE-SLIT 1" WALL



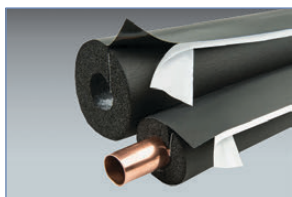
Part No.	Copper Tubing				Price/Ft
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
6RYL100058AL	5/8	1/2	5/8	3/8	12.58
6RYL100078AL	7/8	3/4	7/8	1/2	13.72
6RYL100118AL	1-1/8	1	1-1/8	3/4	14.50
6RYL100138AL	1-3/8	1-1/4	1-3/8	1	15.46
6RYL100158AL	1-5/8	1-1/2	1-5/8	1-1/4	16.02
6RYL100218AL	2-1/8	2	2-1/8	—	21.28
6RYL100318AL	3-1/8	3	3-1/8	—	28.48
6RYL100358AL	3-5/8	3-1/2	3-5/8	—	36.38
6RYL100418AL	4-1/8	4	4-1/8	—	38.06

## K-FLEX CLAD® AL, TAPE

Specially designed to complement the K-Flex Clad® AL line of products. The tape has a similar composition to the K-Flex Clad® AL tube. It provides a quick, easy and uniform way to complete a sealing system.



Part No.	Roll Length (Ft.)	Width (In.)	Price
800TAPEAL2B	65	2	48.98



## PRE-SLIT 3/8" WALL, SELF SEAL

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
38X38SSL	3/8	1/4	3/8	—	1.06
58X38SSL	5/8	1/2	5/8	3/8	1.70
34X38SSL	3/4	5/8	3/4	—	1.82
78X38SSL	7/8	3/4	7/8	1/2	1.96
118X38SSL	1-1/8	1	1-1/8	3/4	2.22
138X38SSL	1-3/8	1-1/4	1-3/8	1	2.40
158X38SSL	1-5/8	1-1/2	1-5/8	1-1/4	2.76
218X38SSL	2-1/8	2	2-1/8	—	3.38

## PRE-SLIT 1/2" WALL, SELF SEAL

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
38X12SSL	3/8	1/4	3/8	—	2.04
12X12SSL	1/2	3/8	1/2	1/4	2.16
58X12SSL	5/8	1/2	5/8	3/8	2.28
34X12SSL	3/4	5/8	3/4	—	2.56
78X12SSL	7/8	3/4	7/8	1/2	2.78
118X12SSL	1-1/8	1	1-1/8	3/4	3.12
138X12SSL	1-3/8	1-1/4	1-3/8	1	3.54
158X12SSL	1-5/8	1-1/2	1-5/8	1-1/4	3.86
218X12SSL	2-1/8	2	2-1/8	—	4.68
258X12SSL	2-5/8	2-1/2	2-5/8	—	4.14
318X12SSL	3-1/8	3	3-1/8	—	8.28

## PRE-SLIT 3/4" WALL, SELF SEAL

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
38X34SSL	3/8	1/4	3/8	—	3.28
12X34SSL	1/2	3/8	1/2	1/4	3.36
58X34SSL	5/8	1/2	5/8	3/8	3.88
34X34SSL	3/4	5/8	3/4	—	4.20
78X34SSL	7/8	3/4	7/8	1/2	4.30
118X34SSL	1-1/8	1	1-1/8	3/4	4.96
138X34SSL	1-3/8	1-1/4	1-3/8	1	5.62
158X34SSL	1-5/8	1-1/2	1-5/8	1-1/4	6.26
218X34SSL	2-1/8	2	2-1/8	—	6.70
258X34SSL	2 5/8	2 1/2	2 5/8	—	7.98
318X34SSL	3 1/8	3	3 1/8	—	9.74
418X34SSL	4 1/8	4	4 1/8	3 1/2	12.14

## PRE-SLIT 1" WALL, SELF SEAL

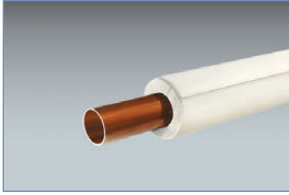
Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
58X1SSL	5/8	1/2	5/8	3/8	5.56
34X1SSL	3/4	5/8	3/4	—	5.76
78X1SSL	7/8	3/4	7/8	1/2	6.58
118X1SSL	1-1/8	1	1-1/8	3/4	7.16
138X1SSL	1-3/8	1-1/4	1-3/8	1	8.28
158X1SSL	1-5/8	1-1/2	1-5/8	1-1/4	8.88
218X1SSL	2-1/8	2	2-1/8	—	10.10
258X1SSL	2-5/8	2-1/2	2-5/8	—	13.74
318X1SSL	3-1/8	3	3-1/8	—	16.44
358X1SSL	3-5/8	3-1/2	3-5/8	3	16.98
418X1SSL	4 1/8	4	4 1/8	3 1/2	21.90

## PRE-SLIT 1 1/2" WALL, SELF SEAL

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
78X112SSL	7/8	3/4	7/8	1/2	15.20
118X112SSL	1 1/8	1	1-1/8	3/4	15.70
138X112SSL	1-3/8	1-1/4	1-3/8	1	16.54
158X112SSL	1-5/8	1-1/2	1-5/8	1-1/4	17.44
218X112SSL	2-1/8	2	2-1/8	—	19.82
258X112SSL	2-5/8	2-1/2	2-5/8	—	25.96

# TUBING INSULATION

## EXPANDED ELASTOMER



**PRE-SLIT 1/2" WALL, SELF SEAL, WHITE**

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
38X12WTSSL	3/8	1/4	3/8	—	1.84
12X12WTSSL	1/2	3/8	1/2	1/4	2.26
58X12WTSSL	5/8	1/2	5/8	3/8	2.36
34X12WTSSL	3/4	5/8	3/4	—	2.58
78X12WTSSL	7/8	3/4	7/8	1/2	2.54
118X12WTSSL	1-1/8	1	1-1/8	3/4	2.76
138X12WTSSL	1-3/8	1-1/4	1-3/8	1	3.14
158X12WTSSL	1-5/8	1-1/2	1-5/8	1-1/4	3.44
218X12WTSSL	2-1/8	2	2-1/8	—	4.36
258X12WTSSL	2-5/8	2-1/2	2-5/8	—	6.26
318X12WTSSL	3-1/8	3	3-1/8	—	8.50
418X12WTSSL	4-1/8	4	4-1/8	—	11.10

## PRE-SLIT 3/4" WALL, SELF SEAL, WHITE

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
38X34WTSSL	3/8	1/4	3/8	—	3.36
12X34WTSSL	1/2	3/8	1/2	1/4	3.64
58X34WTSSL	5/8	1/2	5/8	3/8	3.94
34X34WTSSL	3/4	5/8	3/4	—	4.26
78X34WTSSL	7/8	3/4	7/8	1/2	4.34
118X34WTSSL	1-1/8	1	1-1/8	3/8	5.02
138X34WTSSL	1-3/8	1-1/4	1-3/8	1	5.68
158X34WTSSL	1-5/8	1-1/2	1-5/8	1-1/4	6.40
218X34WTSSL	2-1/8	2	2-1/8	—	6.88
258X34WTSSL	2-5/8	2-1/2	2-5/8	—	7.98
318X34WTSSL	3-1/8	3	3-1/8	—	10.16
418X34WTSSL	4-1/8	4	4-1/8	3-1/2	13.60

## PRE-SLIT 1" WALL, SELF SEAL, WHITE

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
58X1WTSSL	5/8	1/2	5/8	3/8	4.92
34X1WTSSL	3/4	5/8	3/4	—	6.40
78X1WTSSL	7/8	3/4	7/8	1/2	5.84
118X1WTSSL	1-1/8	1	1-1/8	3/4	6.36
138X1WTSSL	1-3/8	1-1/4	1-3/8	1	7.36
158X1WTSSL	1-5/8	1-1/2	1-5/8	1-1/4	7.88
218X1WTSSL	2-1/8	2	2-1/8	—	9.08
258X1WTSSL	2-5/8	2-1/2	2-5/8	—	12.20
318X1WTSSL	3-1/8	3	3-1/8	—	18.16
418X1WTSSL	4-1/8	4	4-1/8	3-1/2	24.46

## PRE-SLIT 1 1/2" WALL, SELF SEAL, WHITE

Part No.	Copper Tubing				Price/Ft.
	Insulation ID (In.)	Nom. Size (In.)	OD Size (In.)	Iron Pipe (In.)	
158X112WTSSL	1-5/8	1-1/2	1-5/8	1-1/4	4.86
218X112WTSSL	2-1/8	2	2-1/8	—	7.36

## COIL INSULATION

Closed cell elastomeric thermal insulation supplied in a continuous length, un-slit. Designed to minimize waste, eliminate joints, facilitate speed and ease of insulation in a compact easy to handle package. Coil insulation has relaxed ID tolerance to accommodate elbows and fittings.

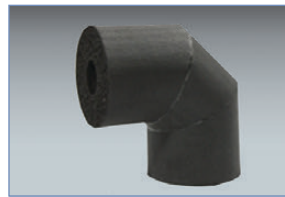


	ID (In.)	Wall Thickness (In.)	Coil Length (Ft.)	Price
34X38COIL	3/4	3/8	110	97.76
78X38COIL	7/8	3/8	95	88.54
118X38COIL	1 1/8	3/8	75	79.56
78X12COIL	7/8	1/2	75	101.94

## K-FIT™ ELASTOMERIC FITTING

Flexible closed cell elastomeric fittings used to retard heat gain and prevent condensation or frost formation on refrigerant lines, cold water plumbing, and chilled water systems. They also retard heat loss for hot water plumbing, liquid heating, dual temperature piping, and solar systems.

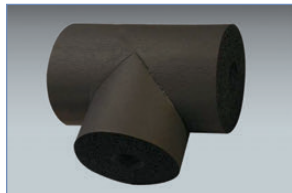
- Applications ranging from -297°F to 220°F



**K-FIT™, 90 DEGREE ELBOW, BLACK**



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
801LRE048038	1/2	3/8	6.04
801LRE048048	1/2	1/2	6.26
801LRE048058	1/2	5/8	6.32
801LRE048068	1/2	3/4	6.52
801LRE048078	1/2	7/8	6.70
801LRE048118	1/2	1 1/8	6.98
801LRE048138	1/2	1 3/8	7.22
801LRE068058	3/4	5/8	7.58
801LRE068068	3/4	3/4	7.88
801LRE068078	3/4	7/8	8.20
801LRE068118	3/4	1 1/8	9.06
801LRE068138	3/4	1 3/8	9.72
801LRE068158	3/4	1 5/8	11.58
801LRE068218	3/4	2 1/8	14.02
801LRE100038	1	3/8	8.40
801LRE100048	1	1/2	8.70
801LRE100058	1	5/8	8.92
801LRE100068	1	3/4	9.58
801LRE100078	1	7/8	10.38
801LRE100118	1	1 1/8	11.98
801LRE100138	1	1 3/8	13.46
801LRE100158	1	1 5/8	14.82
801LRE100218	1	2 1/8	17.60
801LRE148048	1 1/2	1/2	15.66
801LRE148058	1 1/2	5/8	16.06
801LRE148068	1 1/2	3/4	17.24
801LRE148078	1 1/2	7/8	18.68
801LRE148118	1 1/2	1 1/8	21.56
801LRE148138	1 1/2	1 3/8	24.22
801LRE148158	1 1/2	1 5/8	26.68
801LRE148218	1 1/2	2 1/8	31.66



## K-FIT™, TEE, BLACK



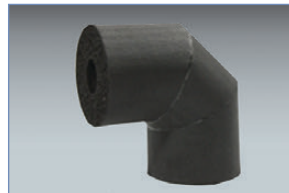
Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
801T048058	1/2	5/8	7.60
801T048118	1/2	1 1/8	8.36
801T048138	1/2	1 3/8	8.68
801T068078	3/4	7/8	9.84
801T068118	3/4	1 1/8	10.88
801T068138	3/4	1 3/8	11.66
801T100078	1	7/8	12.44
801T100118	1	1 1/8	14.38
801T100138	1	1 3/8	16.14
801T100158	1	1 5/8	17.78
801T148078	1 1/2	7/8	22.40
801T148118	1 1/2	1 1/8	25.86
801T148138	1 1/2	1 3/8	29.06



## K-FIT™, P-TRAP



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
801P068058	3/4	5/8	11.68
801P068078	3/4	7/8	14.64
801P068118	3/4	1 1/8	16.40
801P068138	3/4	1 3/8	18.38
801P068158	3/4	1 5/8	21.68
801P068218	3/4	2 1/8	24.94
801P100058	1	5/8	12.98
801P100078	1	7/8	16.28
801P100118	1	1 1/8	18.24
801P100138	1	1 3/8	20.42
801P100158	1	1 5/8	24.10
801P100218	1	2 1/8	27.70
801P148058	1 1/2	5/8	15.90
801P148078	1 1/2	7/8	19.96
801P148118	1 1/2	1 1/8	22.34
801P148138	1 1/2	1 3/8	25.04
801P148158	1 1/2	1 5/8	29.54
801P148218	1 1/2	2 1/8	33.96



## AEROCEL

- UV resistant
- Lower thermal conductivity
- Recommended service temperature range; -297°F to 257°F
- Meets ASTM spec E 84 25/50 to 2" thickness

- Thermal conductivity: 0.245
- Water vapor transmission: 0.03 perms

## ELBOW, BLACK



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
EL3812LR	1/2	3/8	3.88
EL1212LR	1/2	1/2	4.16
EL5812LR	1/2	5/8	4.60
EL3834LR	3/4	3/8	5.86
EL1234LR	3/4	1/2	6.46
EL5834LR	3/4	5/8	7.04
EL3434LR	3/4	3/4	7.70
EL7834LR	3/4	7/8	8.44
EL11834LR	3/4	1 1/8	10.34
EL13834LR	3/4	1 3/8	11.78
EL15834LR	3/4	1 5/8	15.86
EL3810LR	1	3/8	8.76
EL1210LR	1	1/2	9.66
EL5810LR	1	5/8	11.12
EL3410LR	1	3/4	12.32
EL7810LR	1	7/8	13.80
EL11810LR	1	1 1/8	16.76
EL13810LR	1	1 3/8	19.48
EL15810LR	1	1 5/8	22.02
EL58114LR	1 1/4	5/8	19.92
EL34114LR	1 1/4	3/4	22.10
EL78114LR	1 1/4	7/8	22.48
EL118114LR	1 1/4	1 1/8	27.06
EL138114LR	1 1/4	1 3/8	29.02
EL158114LR	1 1/4	1 5/8	31.20
EL218114LR	1 1/4	2 1/8	37.34
EL258114LR	1 1/4	2 5/8	47.64
EL318114LR	1 1/4	3 1/8	51.90
EL58112LR	1 1/2	5/8	23.78
EL34112LR	1 1/2	3/4	29.76
EL78112LR	1 1/2	7/8	30.50
EL118112LR	1 1/2	1 1/8	36.20
EL138112LR	1 1/2	1 3/8	41.28
EL158112LR	1 1/2	1 5/8	46.12
EL218112LR	1 1/2	2 1/8	57.74
EL258112LR	1 1/2	2 5/8	65.10
EL318112LR	1 1/2	3 1/8	80.50
EL418112LR	1 1/2	4 1/8	86.12

# TUBING INSULATION

## EXPANDED ELASTOMER

### P-TRAP, BLACK



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
PTRAP5834S	3/4	5/8	7.34
PTRAP3434S	3/4	3/4	8.02
PTRAP7834S	3/4	7/8	8.78
PTRAP11834S	3/4	1 1/8	10.76
PTRAP13834S	3/4	1 3/8	12.28
PTRAP15834S	3/4	1 5/8	16.50
PTRAP21834S	3/4	2 1/8	20.48
PTRAP5810S	1	5/8	13.54
PTRAP3410S	1	3/4	15.04
PTRAP7810S	1	7/8	16.84
PTRAP11810S	1	1 1/8	20.48
PTRAP13810S	1	1 3/8	23.80
PTRAP15810S	1	1 5/8	26.90
PTRAP21810S	1	2 1/8	31.22
PTRAP158114S	1 1/4	1 5/8	41.98
PTRAP218114S	1 1/4	2 1/8	50.10

### ELBOW, BLACK



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
APF03812EL3	1/2	3/8	6.22
APF01212EL3	1/2	1/2	6.44
APF05812EL3	1/2	5/8	6.50
APF07812EL3	1/2	7/8	6.88
APF11812EL3	1/2	1 1/8	7.92
APF13812EL3	1/2	1 3/8	8.58
APF03834EL3	3/4	3/8	7.26
APF01234EL3	3/4	1/2	7.52
APF05834EL3	3/4	5/8	7.78
APF03434EL3	3/4	3/4	8.10
APF07834EL3	3/4	7/8	8.42
APF11834EL3	3/4	1 1/8	9.32
APF13834EL3	3/4	1 3/8	10.00
APF15834EL3	3/4	1 5/8	11.90
APF21834EL3	3/4	2 1/8	14.42
APF25834EL3	3/4	2 5/8	16.78
APF31834EL3	3/4	3 1/8	19.86
APF03810EL3	1	3/8	8.62
APF01210EL3	1	1/2	8.94
APF05810EL3	1	5/8	9.18
APF03410EL3	1	3/4	9.86
APF07810EL3	1	7/8	10.66
APF11810EL3	1	1 1/8	12.30
APF13810EL3	1	1 3/8	13.04
APF15810EL3	1	1 5/8	15.24
APF21810EL3	1	2 1/8	18.08
APF25810EL3	1	2 5/8	24.50
APF31810EL3	1	3 1/8	29.78
APF03815EL3	1 1/2	3/8	14.26
APF01215EL3	1 1/2	1/2	14.68
APF05815EL3	1 1/2	5/8	15.40
APF03415EL3	1 1/2	3/4	16.24
APF07815EL3	1 1/2	7/8	15.60
APF11815EL3	1 1/2	1 1/8	20.14
APF13815EL3	1 1/2	1 3/8	23.22
APF15815EL3	1 1/2	1 5/8	26.62
APF21815EL3	1 1/2	2 1/8	31.46
APF25815EL3	1 1/2	2 5/8	37.96
APF31815EL3	1 1/2	3 1/8	45.94
APF35815EL3	1 1/2	3 5/8	57.98
APF41815EL3	1 1/2	4 1/8	68.56

### ELBOW, WHITE



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
APF03812EL3W	1/2	3/8	6.72
APF01212EL3W	1/2	1/2	6.94
APF05812EL3W	1/2	5/8	7.02
APF07812EL3W	1/2	7/8	7.42
APF11812EL3W	1/2	1 1/8	9.14
APF13812EL3W	1/2	1 3/8	9.90
APF03834EL3W	3/4	3/8	7.84
APF01234EL3W	3/4	1/2	8.12
APF05834EL3W	3/4	5/8	8.40
APF03434EL3W	3/4	3/4	8.74
APF07834EL3W	3/4	7/8	9.10
APF11834EL3W	3/4	1 1/8	10.06
APF13834EL3W	3/4	1 3/8	10.80
APF15834EL3W	3/4	1 5/8	12.84
APF21834EL3W	3/4	2 1/8	15.56
APF25834EL3W	3/4	2 5/8	18.12
APF31834EL3W	3/4	3 1/8	21.56
APF03810EL3W	1	3/8	9.32
APF01210EL3W	1	1/2	9.66
APF05810EL3W	1	5/8	9.90
APF03410EL3W	1	3/4	10.64
APF07810EL3W	1	7/8	11.52
APF11810EL3W	1	1 1/8	13.30
APF13810EL3W	1	1 3/8	14.94
APF15810EL3W	1	1 5/8	16.46
APF03815EL3W	1 1/2	3/8	15.78
APF01215EL3W	1 1/2	1/2	17.00
APF05815EL3W	1 1/2	5/8	17.42
APF03415EL3W	1 1/2	3/4	18.34
APF07815EL3W	1 1/2	7/8	20.36
APF11815EL3W	1 1/2	1 1/8	21.52
APF13815EL3W	1 1/2	1 3/8	23.22
APF15815EL3W	1 1/2	1 5/8	27.62
APF21815EL3W	1 1/2	2 1/8	34.76
APF25815EL3W	1 1/2	2 5/8	47.62
APF31815EL3W	1 1/2	3 1/8	57.90
APF35815EL3W	1 1/2	3 5/8	74.30
APF41815EL3W	1 1/2	4 1/8	74.04

### TEE, BLACK



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
APF01210TEE	1	1/2	10.74
APF05810TEE	1	5/8	11.00
APF07810TEE	1	7/8	12.80
APF11810TEE	1	1 1/8	14.78
APF13810TEE	1	1 3/8	16.60
APF15810TEE	1	1 5/8	18.28
APF01212TEE	1/2	1/2	7.72
APF05812TEE	1/2	5/8	7.80
APF07812TEE	1/2	7/8	8.26
APF11812TEE	1/2	1 1/8	8.60
APF13812TEE	1/2	1 3/8	9.10
APF05834TEE	3/4	5/8	9.34
APF07834TEE	3/4	7/8	10.12
APF11834TEE	3/4	1 1/8	11.18
APF15834TEE	3/4	1 5/8	14.26
APF21815TEE	1 1/2	2 1/8	33.14
APF25815TEE	1 1/2	2 5/8	40.24
APF31815TEE	1 1/2	3 1/8	48.22

TUBE, INSULATION, FITTINGS

## TEE, WHITE



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
APF07810TEEW	1	7/8	11.80
APF11810TEEW	1	1 1/8	13.64
APF13810TEEW	1	1 3/8	15.70
APF15810TEEW	1	1 5/8	16.64
APF01212TEEW	1/2	1/2	8.34
APF05812TEEW	1/2	5/8	8.42
APF07812TEEW	1/2	7/8	8.92
APF11812TEEW	1/2	1 1/8	9.30
APF13812TEEW	1/2	1 3/8	9.90
APF21815TEEW	1 1/2	2 1/8	36.44
APF25815TEEW	1 1/2	2 5/8	57.14
APF31815TEEW	1 1/2	3 1/8	69.48



## P TRAP, BLACK



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
APF01234PT	3/4	1/2	20.52
APF05834PT	3/4	5/8	20.58
APF03434PT	3/4	3/4	21.86
APF07834PT	3/4	7/8	22.16
APF11834PT	3/4	1 1/8	23.68
APF13834PT	3/4	1 3/8	25.10
APF15834PT	3/4	1 5/8	27.40
APF03810PT	1	3/8	26.56
APF01210PT	1	1/2	26.84
APF05810PT	1	5/8	29.50
APF03410PT	1	3/4	31.48
APF07810PT	1	7/8	31.98
APF11810PT	1	1 1/8	34.34
APF13810PT	1	1 3/8	35.44
APF15810PT	1	1 5/8	38.88
APF21810PT	1	2 1/8	41.78
APF01215PT	1 1/2	1/2	50.88
APF03815PT	1 1/2	3/8	50.32
APF05815PT	1 1/2	5/8	51.00
APF03415PT	1 1/2	3/4	52.60
APF07815PT	1 1/2	7/8	58.78
APF11815PT	1 1/2	1 1/8	59.48
APF13815PT	1 1/2	1 3/8	62.82
APF15815PT	1 1/2	1 5/8	71.00
APF21815PT	1 1/2	2 1/8	78.08

## P TRAP, WHITE



Part No.	Wall Thickness (In.)	Insulation ID (In.)	Price
APF01234PTW	3/4	1/2	22.16
APF05834PTW	3/4	5/8	22.22
APF03434PTW	3/4	3/4	23.60
APF07834PTW	3/4	7/8	23.94
APF11834PTW	3/4	1 1/8	25.58
APF13834PTW	3/4	1 3/8	27.10
APF15834PTW	3/4	1 5/8	29.58
APF03810PTW	1	3/8	26.56
APF01210PTW	1	1/2	26.84
APF05810PTW	1	5/8	29.50
APF03410PTW	1	3/4	31.48
APF07810PTW	1	7/8	31.98
APF11810PTW	1	1 1/8	34.34
APF13810PTW	1	1 3/8	35.44
APF15810PTW	1	1 5/8	38.88
APF01215PTW	1 1/2	1/2	50.88
APF03815PTW	1 1/2	3/8	50.32
APF05815PTW	1 1/2	5/8	51.00
APF03415PTW	1 1/2	3/4	52.60
APF07815PTW	1 1/2	7/8	58.78
APF11815PTW	1 1/2	1 1/8	59.48
APF13815PTW	1 1/2	1 3/8	62.56
APF15815PTW	1 1/2	1 5/8	71.00
APF21815PTW	1 1/2	2 1/8	78.08

## POLYETHYLENE INSULATION, PLUMBING



Tubolit Self-Seal is a 25/50-rated flexible black polyethylene pipe insulation for saving energy while reducing noises. Particularly effective for cost-efficient thermal insulation of domestic heating and plumbing lines. It is available pre-glued on both sides of the seam in the most frequently specified pipe sizes and thicknesses. Tubolit SS is expanded without the use of CFCs or HCFCs. Recommended for use on lines operating from 0°F to 180°F. It effectively reduces heat loss on hot-water plumbing and heat gain on cold-water plumbing systems.

- Sold in 6 foot lengths; priced per foot

## PRE-SLIT 3/8" WALL, SELF SEAL



Part No.	ID (In.)	Box Qty.	Price/Ft.
DGS03838	3/8	540	0.54
DGS01238	1/2	456	0.60
DGS05838	5/8	396	0.66
DGS03438	3/4	300	0.74
DGS07838	7/8	276	0.74
DGS11838	1 1/8	222	0.88
DGS13838	1 3/8	180	0.98
DGS15838	1 5/8	138	1.20
DGS21838	2 1/8	102	1.78
DGS25838	2 5/8	72	2.46

# TUBING INSULATION

## POLYETHYLENE INSULATION, PLUMBING

### PRE-SLIT 1/2" WALL, SELF SEAL



Part No.	ID (In.)	Box Qty.	Price/Ft.
DGS03812	3/8	414	0.84
DGS01212	1/2	336	0.90
DGS05812	5/8	300	0.98
DGS03412	3/4	264	1.04
DGS07812	7/8	240	1.06
DGS11812	1 1/8	186	1.26
DGS13812	1 3/8	150	1.40
DGS15812	1 5/8	120	1.66
DGS21812	2 1/8	84	2.34
DGS25812	2 5/8	60	3.14
DGS31812	3 1/8	48	4.16
DGS35812	3 5/8	36	4.74

### PRE-SLIT 3/4" WALL, SELF SEAL



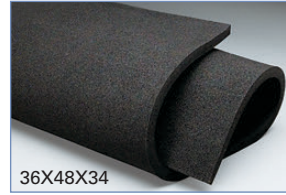
Part No.	ID (In.)	Box Qty.	Price/Ft.
DGS03834	3/8	228	1.26
DGS01234	1/2	210	1.34
DGS05834	5/8	180	1.56
DGS03434	3/4	162	1.68
DGS07834	7/8	150	1.88
DGS11834	1 1/8	120	2.24
DGS13834	1 3/8	96	2.58
DGS15834	1 5/8	84	3.48
DGS21834	2 1/8	54	4.48
DGS25834	2 5/8	48	5.26
DGS31834	3 1/8	36	7.22
DGS35834	3 5/8	30	7.90
DGS41834	4 1/8	24	8.72

### PRE-SLIT 1" WALL, SELF SEAL



Part No.	ID (In.)	Box Qty.	Price/Ft.
DGS05810	5/8	126	2.76
DGS07810	7/8	102	3.44
DGS11810	1 1/8	84	3.98
DGS13810	1 3/8	72	4.78
DGS15810	1 5/8	54	5.44
DGS21810	2 1/8	54	6.76
DGS25810	2 5/8	36	9.06
DGS31810	3 1/8	24	11.44
DGS35810	3 5/8	24	11.78

## SHEET INSULATION



Sheet insulation is a flexible, elastomeric thermal insulation, black in color.

- Thermal conductivity: 0.27;
- Water vapor transmission: 0.10.

As tested by ASTM E 84 "Method of Test for Surface Burning Characteristics for Building Materials" Sheet Insulation in thicknesses of 1/8", 1/4", 3/8", 1/2" and 3/4" has a flame-spread rating of 25 or less and a smoke-developed rating of 50 or less. 1" has a flame-spread rating of 25 or less and a smoke-developed rating of 100 or less.

Sheet insulation is used for all applications that cannot be accomplished by pipe insulation. It is particularly adaptable for insulating ductwork, large piping and fittings, tanks, and vessels. Its flexibility allows application to curved and irregular surfaces.

- Temperature range (full adhesive): -70°F to +180°F
- Temperature range (adhesive seams and joints only): -70°F to +220°F

Part No.	Dimensions (In.)			Box*	Price/Sheet
	Thick	W	L		
36X48X18	1/8	36	48	48	19.22
36X48X14	1/4	36	48	24	35.14
36X48X38	3/8	36	48	16	46.28
36X48X12	1/2	36	48	12	48.96
36X48X34	3/4	36	48	8	73.58
36X48X1	1	36	48	6	89.10
36X48X112	1-1/2	36	48	4	138.62

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- Charge your credit card or United account

Check your URI account online

- View and print invoices
- Sort by PO number, date or status
- Check your account balance

## INSULATION CEMENT



Armstrong 520 Adhesive is an air-drying contact adhesive that is excellent for joining seams and butt joints of pipe and sheet insulations.

520 Adhesive may be used for bonding a variety of materials to many clean, dry surfaces. It will make a resilient and

heat-resistant bond with many materials where the use of a solvent-base neoprene contact adhesive is suitable and desirable.

BR suffix to part number indicates brush applicator in can.

AA520 formulation is a toluene free, hexane free, low volatile organic compound developed to meet the requirements of the South Coast Air Quality Management District (SCAQMD) Rule 1168. The blackcolor gives the installer a neater, cleaner, more finished installation

WBGAL/374GAL is a white protective coating applied to exterior insulation surfaces to provide added durability and professional finish in extreme environmental installations.



Part No.	Rubatex No.	Container Size	Color	Box* Qty.	Price/Ea
520-1/2PTBR	373-1/2 PTBR	1/2-Pint	Light Tan	48	18.28
520PTBR	373PTBR	Pint	Light Tan	24	27.94
520QT	373QT	Quart	Light Tan	12	44.28
520GAL	373GAL	Gallon	Light Tan	4	153.26
WBGAL	374GAL	Gallon	White	4	221.56
WBQT	374QT	Quart	White	12	72.02
AA520004B	—	Pint	Black	24	38.92
AA520005STDB	—	Quart	Black	12	46.50
AA520006B	—	Gallon	Black	4	189.46

How can URI help you achieve success?

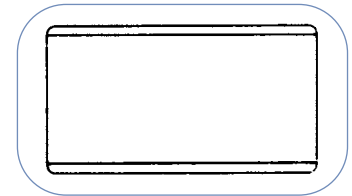
- Huge Local Inventory
- Broad Product Scope
- Knowledgeable Staff

## COUPLING

### WITHOUT STOP



CWOS78



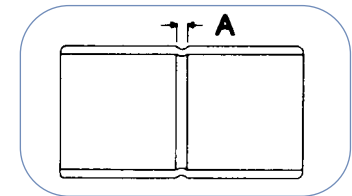
Connection ODF Sweat

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
CWOS14	W01900	1/4	100	0.01	¢
CWOS38	W01901	3/8	50	0.01	¢
CWOS12	W01902	1/2	50	0.02	¢
CWOS58	W01903	5/8	50	0.03	¢
CWOS34	W01904	3/4	25	0.04	¢
CWOS78	W01905	7/8	25	0.06	¢
CWOS118	W01906	1-1/8	10	0.10	¢
CWOS138	W01907	1-3/8	25	0.15	¢
CWOS158	W01908	1-5/8	10	0.22	¢
CWOS218	W01909	2-1/8	75	0.40	¢
CWOS258	W01910	2-5/8	50	0.63	¢
CWOS318	W01911	3-1/8	25	0.95	¢
CWOS418	W01913	4-1/8	15	2.04	¢

### ROLLED STOP



C118



Connection ODF Sweat

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
C18	W01000	1/8	100	0.01	3/64	¢
C316	W01001	3/16	100	0.01	1/16	¢
C14	W01003	1/4	100	0.01	1/16	¢
C516	W10142	5/16	25	0.15	1/16	¢
C38	W01009	3/8	50	0.01	1/16	¢
C12	W01017	1/2	50	0.02	1/16	¢
C58	W01022	5/8	50	0.02	1/16	¢
C34	W01028	3/4	25	0.04	1/16	¢
C78	W01034	7/8	25	0.06	1/16	¢
C118	W01047	1-1/8	10	0.10	1/16	¢
C138	W01055	1-3/8	25	0.15	1/16	¢
C158	W01063	1-5/8	10	0.22	1/16	¢
C218	W01072	2-1/8	75	0.404	1/16	¢
C258	W01082	2-5/8	50	0.68	3/16	¢
C318	W01092	3-1/8	25	1.05	3/16	¢
C358	W10100	3-5/8	20	1.40	3/16	¢
C418	W10107	4-1/8	15	2.13	3/16	¢
C518	W10155	5-1/8	—	3.30	—	¢
C618	W10156	6-1/8	3	5.31	3/16	¢

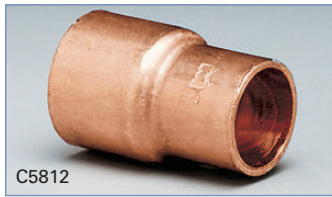
\*Box quantity for ordering convenience only

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

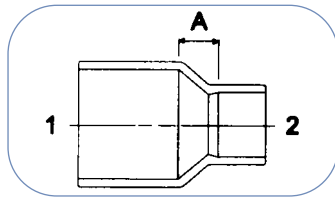
# COPPER FITTING

## COUPLING

### REDUCING



C5812



Connection ODF Sweat

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1	2				
C1418	W01005	1/4	1/8	50	0.01	3/16	☞
C3814	W01011	3/8	1/4	50	0.01	3/16	☞
C38516	W01010	3/8	5/16	50	0.01	3/32	☞
C1214	W01021	1/2	1/4	50	0.02	3/8	☞
C1238	W01019	1/2	3/8	50	0.02	7/32	☞
C5814	W01027	5/8	1/4	100	0.03	23/64	☞
C5838	W01025	5/8	3/8	50	0.03	19/64	☞
C5812	W01023	5/8	1/2	50	0.03	1/8	☞
C3438	W01031	3/4	3/8	100	0.04	5/16	☞
C3412	W01030	3/4	1/2	100	0.04	3/16	☞
C3458	W01029	3/4	5/8	100	0.05	1/4	☞
C7838	W01038	7/8	3/8	50	0.06	3/8	☞
C7812	W01037	7/8	1/2	50	0.06	13/32	☞
C7858	W01036	7/8	5/8	50	0.08	19/64	☞
C7834	W01035	7/8	3/4	100	0.06	13/64	☞
C11812	W01052	1-1/8	1/2	25	0.11	15/32	☞
C11858	W01051	1-1/8	5/8	25	0.11	13/32	☞
C11834	W01050	1-1/8	3/4	25	0.10	23/64	☞
C11878	W01049	1-1/8	7/8	25	0.13	11/32	☞
C13858	W01060	1-3/8	5/8	10	0.17	17/32	☞
C13878	W01058	1-3/8	7/8	10	0.17	13/32	☞
C138118	W01056	1-3/8	1-1/8	10	0.18	9/32	☞
C15858	W01069	1-5/8	5/8	10	0.25	25/32	☞
C15878	W01067	1-5/8	7/8	10	0.24	19/32	☞
C158118	W01065	1-5/8	1-1/8	10	0.23	15/32	☞
C158138	W01064	1-5/8	1-3/8	10	0.22	5/16	☞
C21858	W01079	2-1/8	5/8	75	0.45	1-3/32	☞
C21878	W01077	2-1/8	7/8	100	0.46	29/32	☞
C218118	W01075	2-1/8	1-1/8	100	0.47	13/16	☞
C218138	W01074	2-1/8	1-3/8	100	0.42	35/64	☞
C218158	W01073	2-1/8	1-5/8	100	0.45	15/32	☞
C258118	W01086	2-5/8	1-1/8	50	0.76	1-3/16	☞
C258138	W01085	2-5/8	1-3/8	50	0.73	1	☞
C258158	W01084	2-5/8	1-5/8	50	0.71	7/8	☞
C258218	W01083	2-5/8	2-1/8	50	0.68	19/32	☞
C318158	W01095	3-1/8	1-5/8	25	1.14	1-1/4	☞
C318218	W01094	3-1/8	2-1/8	25	1.09	15/16	☞
C318258	W01093	3-1/8	2-5/8	25	1.03	1/2	☞
C358318	W10101	3-5/8	3-1/8	25	1.40	29/64	☞
C418218	W10111	4-1/8	2-1/8	20	2.37	1-5/8	☞
C418258	W10110	4-1/8	2-5/8	15	2.00	1-7/16	☞
C418318	W10109	4-1/8	3-1/8	20	2.00	29/32	☞
C418358	W10108	4-1/8	3-5/8	20	1.85	5/8	☞

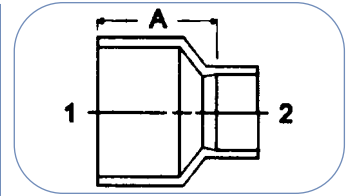
\*Box quantity for ordering convenience only

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## FITTING REDUCER



FR7834

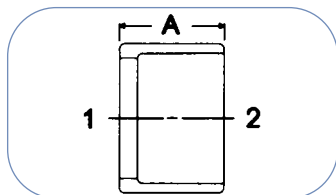


Connection FTG x C

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1 (FTG)	2 (C)				
FR1418	W01302	1/4	1/8	50	0.01	17/32	☞
FR3814	W01306	3/8	1/4	50	0.01	3/8	☞
FR1214	W01314	1/2	1/4	50	0.02	19/32	☞
FR1238	W01312	1/2	3/8	50	0.02	5/8	☞
FR5838	W01317	5/8	3/8	50	0.03	25/32	☞
FR5812	W01315	5/8	1/2	50	0.03	3/4	☞
FR3438	W01322	3/4	3/8	100	0.03	7/8	☞
FR3412	W01321	3/4	1/2	100	0.04	29/32	☞
FR3458	W01320	3/4	5/8	100	0.03	7/8	☞
FR7812	W01327	7/8	1/2	50	0.05	1-1/8	☞
FR7858	W01326	7/8	5/8	50	0.06	61/64	☞
FR7834	W01325	7/8	3/4	100	0.08	31/32	☞
FR11812	W01340	1-1/8	1/2	20	0.10	1-3/8	☞
FR11858	W01339	1-1/8	5/8	25	0.10	1-11/32	☞
FR11834	W01338	1-1/8	3/4	25	0.09	1-1/4	☞
FR11878	W01337	1-1/8	7/8	25	0.11	1-7/64	☞
FR13858	W01347	1-3/8	5/8	10	0.15	1-1/2	☞
FR13878	W01345	1-3/8	7/8	10	0.15	1-11/32	☞
FR138118	W01343	1-3/8	1-1/8	10	0.17	1-7/32	☞
FR15858	W01355	1-5/8	5/8	10	0.24	1-3/4	☞
FR15878	W01353	1-5/8	7/8	10	0.22	1-11/16	☞
FR158118	W01351	1-5/8	1-1/8	10	0.23	1-17/32	☞
FR158138	W01350	1-5/8	1-3/8	10	0.24	1-13/32	☞
FR21858	W01364	2-1/8	5/8	100	0.46	2-5/8	☞
FR21878	W01362	2-1/8	7/8	100	0.43	2-3/16	☞
FR218118	W01360	2-1/8	1-1/8	100	0.43	2-1/8	☞
FR218138	W01359	2-1/8	1-3/8	100	0.43	2-1/32	☞
FR218158	W01358	2-1/8	1-5/8	100	0.40	1-27/32	☞
FR258118	W01370	2-5/8	1-1/8	50	0.69	2-7/8	☞
FR258138	W01369	2-5/8	1-3/8	50	0.67	2-15/32	☞
FR258158	W01368	2-5/8	1-5/8	50	0.73	2-7/32	☞
FR258218	W01367	2-5/8	2-1/8	50	0.66	2-1/32	☞
FR318138	W01379	3-1/8	1-3/8	50	1.08	3	☞
FR318158	W01378	3-1/8	1-5/8	50	1.00	2-21/32	☞
FR318218	W01377	3-1/8	2-1/8	25	0.93	2-1/2	☞
FR318258	W01376	3-1/8	2-5/8	25	0.97	2-1/32	☞
FR358218	W01383	3-5/8	2-1/8	20	1.49	3-3/32	☞
FR358258	W01382	3-5/8	2-5/8	20	1.28	1-39/64	☞
FR358318	W01381	3-5/8	3-1/8	20	1.49	2-11/32	☞
FR418218	W01389	4-1/8	2-1/8	15	2.15	3-21/32	☞
FR418258	W01388	4-1/8	2-5/8	15	2.03	3-35/64	☞
FR418318	W01387	4-1/8	3-1/8	15	1.85	2-31/32	☞
FR418358	W01386	4-1/8	3-5/8	20	1.75	2-1/2	☞



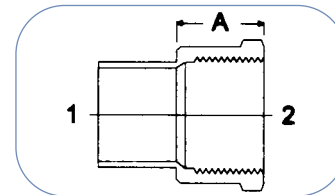
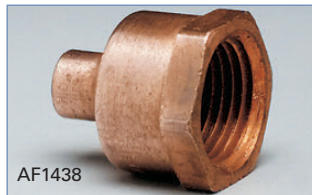
## FLUSH BUSHING



FB13878  
Connection FTG x C

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1 (FTG)	2 (C)				
FB3814	W01706	3/8	1/4	100	0.01	3/8	☞
FB1214	W01714	1/2	1/4	100	0.02	7/16	☞
FB1238	W01712	1/2	3/8	100	0.01	7/16	☞
FB5838	W01717	5/8	3/8	100	0.04	9/16	☞
FB5812	W01715	5/8	1/2	100	0.02	9/16	☞
FB3438	W01722	3/4	3/8	25	0.05	11/16	☞
FB3412	W01721	3/4	1/2	50	0.06	11/16	☞
FB3458	W01720	3/4	5/8	50	0.03	11/16	☞
FB7812	W01727	7/8	1/2	50	0.11	13/16	☞
FB7858	W01726	7/8	5/8	50	0.08	13/16	☞
FB7834	W01725	7/8	3/4	50	0.09	13/16	☞
FB11858	W01739	1-1/8	5/8	25	0.21	31/32	☞
FB11834	W01738	1-1/8	3/4	50	0.18	31/32	☞
FB11878	W01737	1-1/8	7/8	50	0.12	31/32	☞
FB13878	W01745	1-3/8	7/8	10	0.33	1-1/32	☞
FB138118	W01743	1-3/8	1-1/8	10	0.16	1-1/32	☞
FB158118	W01751	1-5/8	1-1/8	10	0.40	1-5/32	☞
FB158138	W01750	1-5/8	1-3/8	10	0.22	1-5/32	☞
FB218158	W01758	2-1/8	1-5/8	10	0.66	1-13/32	☞
FB258218	W01767	2-5/8	2-1/8	50	0.91	1-17/32	☞

## FEMALE

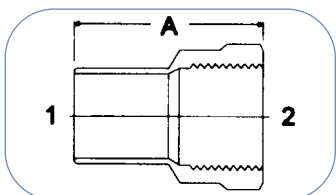
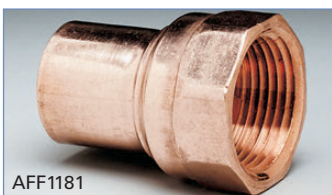


AF1438  
Connection C x FPT

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1 (C)	2 (FPT)				
AF1418	W01207	1/4	1/8	100	0.03	9/16	☞
AF1414	W01206	1/4	1/4	100	0.04	21/32	☞
AF1438	W01205	1/4	3/8	100	0.06	5/8	☞
AF1412	W01204	1/4	1/2	100	0.11	1-5/64	☞
AF3818	W01216	3/8	1/8	100	0.03	17/32	☞
AF3814	W01215	3/8	1/4	50	0.04	5/8	☞
AF3838	W01214	3/8	3/8	50	0.05	21/32	☞
AF1214	W01226	1/2	1/4	50	0.05	19/32	☞
AF1238	W01225	1/2	3/8	50	0.06	53/64	☞
AF1212	W01224	1/2	1/2	50	0.10	1	☞
AF1234	W01223	1/2	3/4	50	0.13	13/16	☞
AF5814	W01233	5/8	1/4	50	0.05	1/2	☞
AF5838	W01232	5/8	3/8	50	0.07	49/64	☞
AF5812	W01231	5/8	1/2	50	0.10	27/32	☞
AF5834	W01230	5/8	3/4	50	0.15	1-3/64	☞
AF3412	W01239	3/4	1/2	50	0.09	29/32	☞
AF3434	W01238	3/4	3/4	25	0.12	57/64	☞
AF7812	W01247	7/8	1/2	50	0.11	1	☞
AF7834	W01246	7/8	3/4	25	0.14	27/32	☞
AF781	W01245	7/8	1	25	0.24	1-5/32	☞
AF11812	W01265	1-1/8	1/2	25	0.29	23/32	☞
AF11834	W01264	1-1/8	3/4	25	0.22	13/16	☞
AF1181	W01263	1-1/8	1	25	0.24	31/32	☞
AF1381	W01272	1-3/8	1	10	0.33	1	☞
AF138114	W01271	1-3/8	1-1/4	10	0.43	1-7/32	☞
AF138112	W01270	1-3/8	1-1/2	10	0.43	1-7/32	☞
AF158114	W01280	1-5/8	1-1/4	10	0.42	29/32	☞
AF158112	W01279	1-5/8	1-1/2	10	0.58	1-1/4	☞
AF1582	W01278	1-5/8	2	60	0.62	1-7/32	☞
AF2182	W01287	2-1/8	2	50	0.65	15/16	☞
AF258212	W01296	2-5/8	2-1/2	25	1.19	1-3/16	☞
AF3183	W01297	3-1/8	3	15	1.94	1-5/16	☞

## PIPE THREAD ADAPTER

### FEMALE FITTING



AFF1181  
Connection FTG x FPT

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1 (FTG)	2 (FPT)				
AFF3838	W01514	3/8	3/8	50	0.06	1-9/32	☞
AFF1214	W01526	1/2	1/4	50	0.06	1-1/8	☞
AFF1238	W01525	1/2	3/8	50	0.05	1-19/64	☞
AFF1212	W01524	1/2	1/2	50	0.11	1-15/32	☞
AFF5838	W01532	5/8	3/8	50	0.07	1-19/64	☞
AFF5812	W01531	5/8	1/2	50	0.11	1-1/2	☞
AFF7812	W01547	7/8	1/2	50	0.11	1-11/16	☞
AFF7834	W01546	7/8	3/4	50	0.19	1-45/64	☞
AFF11834	W01564	1-1/8	3/4	25	0.17	1-49/64	☞
AFF1181	W01563	1-1/8	1	25	0.25	2-5/64	☞
AFF138114	W01571	1-3/8	1-1/4	10	0.43	2-7/32	☞
AFF158112	W01579	1-5/8	1-1/2	10	0.55	2-15/32	☞
AFF2182	W01587	2-1/8	2	50	0.69	2-13/32	☞
AFF258212	W01596	2-5/8	2-1/2	25	1.21	2-53/64	☞

\*Box quantity for ordering convenience only

☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

TUBE, INSULATION, FITTINGS

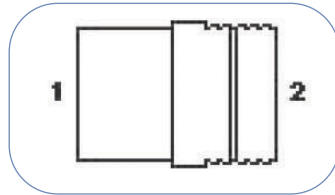
# COPPER FITTING

## PIPE THREAD ADAPTER

### MALE



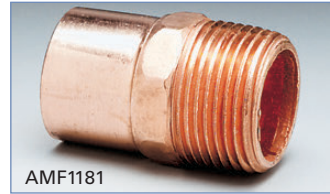
AM1181



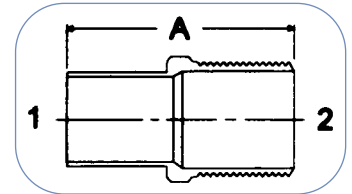
Connection C x MPT

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1 (C)	2 (MPT)				
AM1418	W01107	1/4	1/8	100	0.02	27/64	☞
AM1414	W01106	1/4	1/4	50	0.03	49/64	☞
AM1438	W01105	1/4	3/8	50	0.06	55/64	☞
AM3818	W01116	3/8	1/8	50	0.03	27/64	☞
AM3814	W01115	3/8	1/4	50	0.03	21/32	☞
AM3838	W01114	3/8	3/8	50	0.06	53/64	☞
AM3812	W01113	3/8	1/2	50	0.09	1	☞
AM1214	W01126	1/2	1/4	50	0.06	7/8	☞
AM1238	W01125	1/2	3/8	50	0.06	21/32	☞
AM1212	W01124	1/2	1/2	50	0.09	13/16	☞
AM1234	W01123	1/2	3/4	25	0.17	1-7/64	☞
AM5814	W01133	5/8	1/4	25	0.06	3/4	☞
AM5838	W01132	5/8	3/8	50	0.06	41/64	☞
AM5812	W01131	5/8	1/2	50	0.08	13/16	☞
AM5834	W01130	5/8	3/4	25	0.16	15/16	☞
AM581	W01129	5/8	1	25	0.28	1-29/64	☞
AM3412	W01139	3/4	1/2	25	0.12	1-3/32	☞
AM3434	W01138	3/4	3/4	25	0.14	1-1/64	☞
AM7812	W01147	7/8	1/2	25	0.13	7/8	☞
AM7834	W01146	7/8	3/4	50	0.14	29/32	☞
AM781	W01145	7/8	1	25	0.29	1-5/32	☞
AM11812	W01165	1-1/8	1/2	25	0.18	31/32	☞
AM11834	W01164	1-1/8	3/4	10	0.18	59/64	☞
AM1181	W01163	1-1/8	1	25	0.24	1-9/64	☞
AM118114	W01162	1-1/8	1-1/4	10	0.40	1-9/16	☞
AM118112	W01161	1-1/8	1-1/2	10	0.50	1-45/64	☞
AM13834	W01173	1-3/8	3/4	10	0.29	31/32	☞
AM1381	W01172	1-3/8	1	10	0.28	1	☞
AM138114	W01171	1-3/8	1-1/4	20	0.41	1-9/32	☞
AM138112	W01170	1-3/8	1-1/2	10	0.51	1-21/32	☞
AM1581	W01181	1-5/8	1	10	0.39	1-3/32	☞
AM158114	W01180	1-5/8	1-1/4	10	0.41	1-1/16	☞
AM158112	W01179	1-5/8	1-1/2	10	0.50	1-1/4	☞
AM1582	W01178	1-5/8	2	50	0.79	1-7/32	☞
AM218114	W01189	2-1/8	1-1/4	50	0.71	1-5/32	☞
AM218112	W01188	2-1/8	1-1/2	50	0.61	1-3/32	☞
AM2182	W01187	2-1/8	2	50	0.87	1-19/64	☞
AM258112	W01198	2-5/8	1-1/2	20	0.97	1-7/32	☞
AM2582	W01197	2-5/8	2	20	0.98	1-1/8	☞
AM258212	W01196	2-5/8	2-1/2	20	1.62	1-25/32	☞
AM3183	W01199	3-1/8	3	20	1.72	1-27/64	☞

### MALE FITTING



AMF1181



Connection FTG x MPT

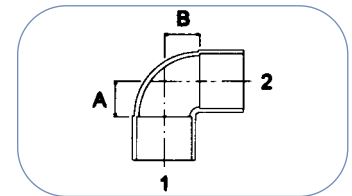
Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		1 (FTG)	2 (MPT)				
AMF1238	W01432	1/2	3/8	50	0.05	1-15/64	☞
AMF5838	W01431	5/8	3/8	50	0.06	1-7/32	☞
AMF5812	W01425	5/8	1/2	50	0.09	1-3/8	☞
AMF7812	W01447	7/8	1/2	50	0.13	1-27/32	☞
AMF7834	W01446	7/8	3/4	50	0.15	1-59/64	☞
AMF11834	W01464	1-1/8	3/4	25	0.19	2-3/64	☞
AMF1181	W01463	1-1/8	1	25	0.24	2-1/4	☞
AMF138114	W01471	1-3/8	1-1/4	10	0.41	2-15/32	☞
AMF158112	W01479	1-5/8	1-1/2	10	0.52	2-19/32	☞
AMF2182	W01487	2-1/8	2	50	0.86	2-49/64	☞
AMF258212	W01496	2-5/8	2-1/2	20	1.54	3-3/8	☞

### 90° ELBOW

#### SHORT



E118



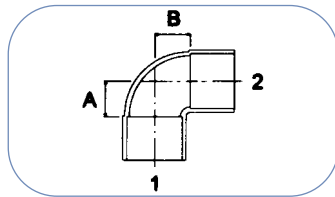
Connection C x C

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
		1	2					
E14	W02003	1/4	1/4	50	0.01	3/8	3/8	☞
E38	W02009	3/8	3/8	50	0.02	3/8	3/8	☞
E12	W02017	1/2	1/2	50	0.03	1/2	1/2	☞
E58	W02022	5/8	5/8	100	0.05	19/32	19/32	☞
E34	W02028	3/4	3/4	50	0.10	7/8	7/8	☞
E78	W02034	7/8	7/8	50	0.11	53/64	53/64	☞
E118	W02047	1-1/8	1-1/8	25	0.20	1-5/64	1-5/64	☞
E138	W02084	1-3/8	1-3/8	10	0.31	1-3/32	1-3/32	☞
E158	W02085	1-5/8	1-5/8	10	0.43	1-7/32	1-7/32	☞
E218	W02086	2-1/8	2-1/8	10	0.86	1-9/16	1-9/16	☞
E258	W02087	2-5/8	2-5/8	5	1.40	1-13/16	1-13/16	☞
E318	W02088	3-1/8	3-1/8	5	1.99	2-1/16	2-1/16	☞
E358	W02089	3-5/8	3-5/8	2	2.74	2-13/32	2-13/32	☞
E418	W02090	4-1/8	4-1/8	2	3.80	2-23/32	2-23/32	☞

\*Box quantity for ordering convenience only

☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

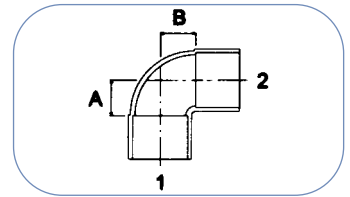
## SHORT REDUCING



Connection C x C

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. B (In.)	Price/Ea.
		1	2				
E3814	W02011	3/8	1/4	50	0.02	11/32	☞
E1238	W02019	1/2	3/8	50	0.03	7/16	☞
E5838	W02025	5/8	3/8	50	0.05	7/16	☞
E5812	W02023	5/8	1/2	50	0.05	1/2	☞
E3458	W02029	3/4	5/8	50	0.06	19/32	☞
E7812	W02037	7/8	1/2	50	0.10	5/8	☞
E7858	W02036	7/8	5/8	50	0.10	21/32	☞
E7834	W02035	7/8	3/4	50	0.12	7/8	☞
E11812	W02052	1-1/8	1/2	25	0.20	21/32	☞
E11858	W02051	1-1/8	5/8	25	0.17	3/4	☞
E11834	W02050	1-1/8	3/4	25	0.17	7/8	☞
E11878	W02049	1-1/8	7/8	25	0.18	7/8	☞
E138118	W02056	1-3/8	1-1/8	20	0.34	1-1/8	☞
E158138	W02077	1-5/8	1-3/8	5	0.33	55/64	☞
E218158	W02078	2-1/8	1-5/8	2	0.60	1-13/64	☞

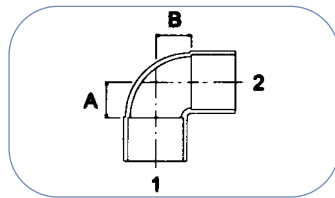
## LONG REDUCING



Connection C x C

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
		1	2					
EL5812	W02723	5/8	1/2	50	0.04	3/4	11/16	☞
EL7858	W02736	7/8	5/8	50	0.09	7/8	7/8	☞
EL7834	W02735	7/8	3/4	25	0.12	1-5/32	1-1/16	☞
EL11878	W02749	1-1/8	7/8	10	0.17	1-1/4	1-9/64	☞
EL13858	W02060	1-3/8	5/8	10	0.38	2-5/32	1-3/8	☞
EL13878	W02058	1-3/8	7/8	10	0.36	1-63/64	1-3/8	☞
EL138118	W02756	1-3/8	1-1/8	10	0.31	1-5/8	1-15/32	☞
EL15878	W02067	1-5/8	7/8	5	0.54	2-3/64	1-3/8	☞
EL158118	W02065	1-5/8	1-1/8	5	0.51	2-1/8	1-5/8	☞
EL158138	W02064	1-5/8	1-3/8	5	0.44	1-59/64	1-7/8	☞
EL218118	W02075	2-1/8	1-1/8	2	1.00	2-1/2	2-3/32	☞
EL218138	W02074	2-1/8	1-3/8	2	0.95	2-1/2	2-1/8	☞
EL218158	W02073	2-1/8	1-5/8	2	0.66	2-7/16	2-11/64	☞
EL258218	W02083	2-5/8	2-1/8	2	1.53	2-31/32	2-31/32	☞

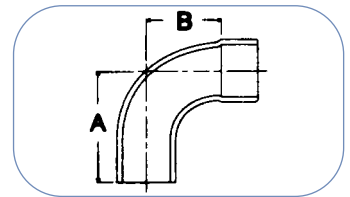
## LONG



Connection C x C

Part No.	Industry No.	OD Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
		1	2					
EL14	W02715	1/4	1/4	50	0.01	1/2	1/2	☞
EL516	W02710	5/16	5/16	50	0.01	9/16	9/16	☞
EL38	W02716	3/8	3/8	50	0.02	3/4	3/4	☞
EL12	W02717	1/2	1/2	50	0.04	3/4	3/4	☞
EL58	W02722	5/8	5/8	50	0.07	7/8	7/8	☞
EL34	W02728	3/4	3/4	50	0.11	1-1/8	1-1/8	☞
EL78	W02734	7/8	7/8	25	0.15	1-3/16	1-3/16	☞
EL118	W02747	1-1/8	1-1/8	10	0.28	1-1/2	1-1/2	☞
EL138	W02055	1-3/8	1-3/8	10	0.42	1-7/8	1-7/8	☞
EL158	W02063	1-5/8	1-5/8	5	0.64	2-1/4	2-1/4	☞
EL218	W02072	2-1/8	2-1/8	5	1.19	2-7/8	2-7/8	☞
EL258	W02082	2-5/8	2-5/8	5	2.07	3-21/32	3-21/32	☞
EL318	W02092	3-1/8	3-1/8	2	3.13	4-5/8	4-5/8	☞
EL358	W02093	3-5/8	3-5/8	1	5.45	4-29/32	4-29/32	☞
EL418	W02095	4-1/8	4-1/8	1	7.65	5-7/8	5-7/8	☞

## SHORT FITTING



Connection FTG x C

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
EF38	W02312	3/8	50	0.02	3/4	3/8	☞
EF12	W02321	1/2	50	0.03	15/16	1/2	☞
EF58	W02326	5/8	50	0.04	1-5/32	19/32	☞
EF34	W02330	3/4	25	0.11	1-7/16	7/8	☞
EF78	W02334	7/8	25	0.10	1-5/8	13/16	☞
EF118	W02344	1-1/8	25	0.17	2-1/32	1-1/16	☞
EF138	W02384	1-3/8	25	0.34	2-5/64	1-1/16	☞
EF158	W02385	1-5/8	10	0.46	2-3/8	1-7/32	☞
EF218	W02386	2-1/8	10	0.78	3-3/64	1-19/32	☞
EF258	W02387	2-5/8	5	1.25	3-11/32	1-13/16	☞
EF318	W02388	3-1/8	2	2.06	3-25/32	2-1/16	☞
EF358	W02389	3-5/8	1	2.70	4-3/8	2-23/64	☞
EF418	W02390	4-1/8	2	3.50	4-15/16	2-23/64	☞

\*Box quantity for ordering convenience only

☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

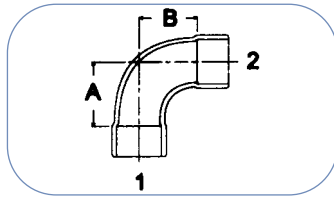
# COPPER FITTING

## 90° ELBOW

### LONG FITTING



ELF58



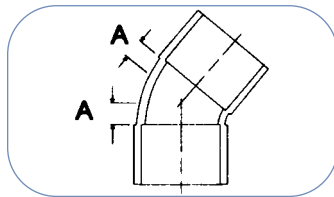
Connection FTG x C

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
ELF38	W02809	3/8	50	0.02	1-1/8	3/4	☞
ELF12	W02817	1/2	50	0.04	1-3/16	3/4	☞
ELF58	W02822	5/8	50	0.07	1-3/8	7/8	☞
ELF34	W02828	3/4	25	0.11	1-13/16	1-1/8	☞
ELF78	W02834	7/8	25	0.14	2	1-3/16	☞
ELF118	W02847	1-1/8	10	0.27	2-15/32	1-1/2	☞
ELF138	W02350	1-3/8	10	0.40	2-29/32	1-7/8	☞
ELF158	W02355	1-5/8	5	0.62	3-7/16	2-1/4	☞
ELF218	W02359	2-1/8	5	1.22	4-9/32	2-7/8	☞
ELF258	W02363	2-5/8	5	2.05	5-5/32	3-21/32	☞
ELF318	W02368	3-1/8	2	4.00	6-9/32	4-5/8	☞
ELF358	W02393	3-5/8	1	5.53	7-7/32	5-1/4	☞
ELF418	W02395	4-1/8	1	7.50	8-3/32	5-7/8	☞

## 45° ELBOW



E4558



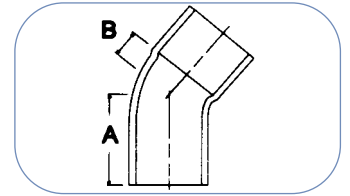
Connection C x C

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
E4514	W03005	1/4	50	0.01	3/16	☞
E4538	W03012	3/8	50	0.01	3/16	☞
E4512	W03021	1/2	50	0.02	13/64	☞
E4558	W03026	5/8	50	0.04	17/64	☞
E4534	W03030	3/4	50	0.06	5/16	☞
E4578	W03034	7/8	25	0.10	23/64	☞
E45118	W03044	1-1/8	25	0.18	15/32	☞
E45138	W03050	1-3/8	10	0.20	7/16	☞
E45158	W03055	1-5/8	10	0.30	1/2	☞
E45218	W03059	2-1/8	10	0.56	5/8	☞
E45258	W03063	2-5/8	5	1.45	1-9/16	☞
E45318	W03067	3-1/8	2	1.83	1-21/32	☞
E45358	W03070	3-5/8	2	3.46	1-3/4	☞
E45418	W03073	4-1/8	1	5.16	1-15/16	☞

## FITTING



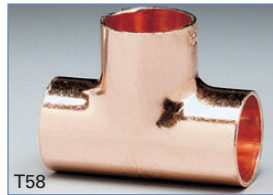
E45F58



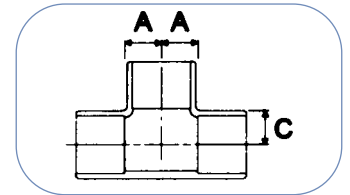
Connection FTG x C

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
E45F38	W03312	3/8	100	0.01	9/16	3/16	☞
E45F12	W03321	1/2	100	0.02	21/32	13/64	☞
E45F58	W03326	5/8	50	0.04	13/16	17/64	☞
E45F34	W03330	3/4	50	0.06	1	5/16	☞
E45F78	W03334	7/8	25	0.10	1-11/64	23/64	☞
E45F118	W03344	1-1/8	25	0.19	1-7/16	15/32	☞
E45F138	W03350	1-3/8	10	0.28	1-13/16	25/32	☞
E45F158	W03355	1-5/8	10	0.43	2-5/64	15/16	☞
E45F218	W03359	2-1/8	5	0.86	2-41/64	1-1/4	☞
E45F258	W03363	2-5/8	2	1.38	3-3/32	1-9/16	☞
E45F318	W03368	3-1/8	2	1.81	3-3/8	1-21/32	☞

## TEE



T58



Connection C x C x C

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. C (In.)	Price/Ea.
T316	W40302	3/16	50	0.01	7/64	25/32	☞
T114	W40306	1/4	100	0.01	5/32	5/32	☞
T516	W40313	5/16	50	0.02	13/64	3/16	☞
T38	W04000	3/8	50	0.02	13/64	3/16	☞
T12	W04001	1/2	50	0.04	17/64	1/4	☞
T58	W04006	5/8	50	0.07	21/64	21/64	☞
T34	W04017	3/4	25	0.11	13/32	25/64	☞
T78	W04031	7/8	25	0.18	15/32	29/64	☞
T118	W04048	1-1/8	10	0.32	37/64	9/16	☞
T138	W04068	1-3/8	5	0.52	23/32	45/64	☞
T158	W04084	1-5/8	5	0.81	53/64	53/64	☞
T218	W40102	2-1/8	5	1.50	1-3/32	1-3/32	☞
T258	W40123	2-5/8	2	2.42	1-5/16	1-3/8	☞
T318	W40152	3-1/8	2	3.97	1-19/32	1-5/8	☞
T358	W40190	3-5/8	1	7.08	1-15/16	1-55/64	☞
T418	W40200	4-1/8	1	9.68	2-1/8	2-1/8	☞

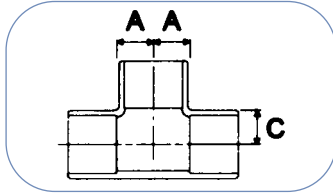
\*Box quantity for ordering convenience only

☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

## REDUCING



T11811878



Connection C x C x C (Branch)

Part No.	Industry No.	OD Size (In.)			Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Dim. C (In.)	Price/Ea.
		C	C	C (BR)						
T141438	W40368	1/4	1/4	3/8	50	0.02	33/64	33/64	3/16	☞
T381414	W40332	3/8	1/4	1/4	50	0.02	5/32	3/8	7/32	☞
T381438	W40330	3/8	1/4	3/8	50	0.02	13/64	33/64	3/16	☞
T383814	W40324	3/8	3/8	1/4	50	0.02	5/32	5/32	7/32	☞
T383812	W04005	3/8	3/8	1/2	50	0.03	1/4	1/4	15/64	☞
T383858	W04016	3/8	3/8	5/8	50	0.11	47/64	47/64	11/32	☞
T121414	W40366	1/2	1/4	1/4	50	0.05	7/32	21/32	23/32	☞
T121438	W40364	1/2	1/4	3/8	50	0.05	7/32	21/32	19/64	☞
T121412	W40363	1/2	1/4	1/2	50	0.06	17/64	39/64	1/4	☞
T123814	W40358	1/2	3/8	1/4	50	0.05	7/32	33/64	19/32	☞
T123838	W04004	1/2	3/8	3/8	50	0.05	7/32	1/2	9/32	☞
T123812	W04003	1/2	3/8	1/2	50	0.05	17/64	9/16	1/4	☞
T121214	W40350	1/2	1/2	1/4	50	0.04	7/32	7/32	19/32	☞
T121238	W04002	1/2	1/2	3/8	50	0.04	7/32	7/32	9/32	☞
T121258	W04015	1/2	1/2	5/8	50	0.09	21/32	21/32	21/64	☞
T583838	W04013	5/8	3/8	3/8	50	0.08	17/64	39/64	11/16	☞
T583812	W40367	5/8	3/8	1/2	50	0.08	17/64	39/64	25/64	☞
T583858	W04012	5/8	3/8	5/8	50	0.09	21/64	11/16	21/64	☞
T581238	W04011	5/8	1/2	3/8	50	0.08	17/64	39/64	11/16	☞
T581212	W04010	5/8	1/2	1/2	50	0.07	17/64	9/16	25/64	☞
T581258	W04009	5/8	1/2	5/8	50	0.09	21/64	5/8	21/64	☞
T585814	W04014	5/8	5/8	1/4	50	0.08	17/64	17/64	11/16	☞
T585838	W04008	5/8	5/8	3/8	50	0.07	17/64	17/64	11/16	☞
T585812	W04007	5/8	5/8	1/2	50	0.07	17/64	17/64	25/64	☞
T585834	W04029	5/8	5/8	3/4	25	0.09	25/64	25/64	53/64	☞
T585878	W04047	5/8	5/8	7/8	25	0.14	15/32	15/32	21/64	☞
T5858118	W04067	5/8	5/8	1-1/8	10	0.36	1-7/32	1-7/32	9/16	☞
T341212	W04027	3/4	1/2	1/2	25	0.13	21/64	57/64	53/64	☞
T341258	W04026	3/4	1/2	5/8	25	0.14	21/64	57/64	7/16	☞
T341234	W04025	3/4	1/2	3/4	25	0.18	13/32	15/16	25/64	☞
T345812	W04023	3/4	5/8	1/2	25	0.14	21/64	49/64	53/64	☞
T345858	W04022	3/4	5/8	5/8	25	0.13	19/32	1-1/64	29/64	☞
T345834	W04021	3/4	5/8	3/4	25	0.17	13/32	3/4	25/64	☞
T343438	W04020	3/4	3/4	3/8	25	0.13	21/64	21/64	13/16	☞
T343412	W04019	3/4	3/4	1/2	25	0.13	21/64	21/64	53/64	☞
T343458	W04018	3/4	3/4	5/8	25	0.12	21/64	21/64	7/16	☞
T343478	W04046	3/4	3/4	7/8	25	0.17	33/64	33/64	31/64	☞
T781212	W40232	7/8	1/2	1/2	25	0.16	21/64	51/64	51/64	☞
T781258	W40231	7/8	1/2	5/8	25	0.16	21/64	15/16	17/32	☞
T781278	W40230	7/8	1/2	7/8	25	0.20	15/32	31/32	29/64	☞
T785838	W04045	7/8	5/8	3/8	25	0.16	21/64	11/16	15/16	☞
T785812	W04044	7/8	5/8	1/2	25	0.16	21/64	5/8	55/64	☞
T785858	W04043	7/8	5/8	5/8	25	0.15	21/64	23/32	35/64	☞
T785834	W04042	7/8	5/8	3/4	25	0.22	15/32	47/64	27/32	☞
T785878	W04041	7/8	5/8	7/8	25	0.18	15/32	23/32	29/64	☞
T783434	W04037	7/8	3/4	3/4	25	0.21	15/32	23/32	27/32	☞
T783478	W04036	7/8	3/4	7/8	25	0.19	15/32	23/32	29/64	☞
T787838	W04035	7/8	7/8	3/8	25	0.15	21/64	21/64	15/16	☞

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TUBE, INSULATION, FITTINGS

# COPPER FITTING

## TEE

### REDUCING (Cont'd.)

Part No.	Industry No.	OD Size (In.)			Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Dim. C (In.)	Price/Ea.
		C	C	C (BR)						
T787812	W04034	7/8	7/8	1/2	25	0.16	21/64	21/64	55/64	☎
T787858	W04033	7/8	7/8	5/8	25	0.14	21/64	21/64	35/64	☎
T787834	W04032	7/8	7/8	3/4	25	0.20	15/32	15/32	27/32	☎
T7878118	W04065	7/8	7/8	1-1/8	10	0.28	37/64	37/64	35/64	☎
T1185858	W04063	1-1/8	5/8	5/8	10	0.36	23/64	31/32	21/32	☎
T1185878	W04062	1-1/8	5/8	7/8	10	0.34	15/32	1-5/32	49/64	☎
T11858118	W04061	1-1/8	5/8	1-1/8	10	0.35	37/64	1-7/32	9/16	☎
T1183458	W40236	1-1/8	3/4	5/8	10	0.35	23/64	31/32	21/32	☎
T1183434	W40235	1-1/8	3/4	3/4	10	0.35	15/32	1-1/32	1-1/16	☎
T1183478	W40234	1-1/8	3/4	7/8	10	0.34	15/32	1-1/32	49/64	☎
T11834118	W40233	1-1/8	3/4	1-1/8	10	0.34	37/64	1-7/32	9/16	☎
T1187812	W04059	1-1/8	7/8	1/2	10	0.34	23/64	41/64	1-3/32	☎
T1187858	W04058	1-1/8	7/8	5/8	10	0.31	23/64	41/64	21/32	☎
T1187834	W04057	1-1/8	7/8	3/4	10	0.34	15/32	49/64	1-1/64	☎
T1187878	W04056	1-1/8	7/8	7/8	10	0.34	15/32	49/64	49/64	☎
T11878118	W04055	1-1/8	7/8	1-1/8	10	0.35	19/32	1-3/64	5/8	☎
T11811812	W04052	1-1/8	1-1/8	1/2	10	0.33	23/64	23/64	1-3/32	☎
T11811858	W04051	1-1/8	1-1/8	5/8	10	0.20	23/64	23/64	21/32	☎
T11811834	W04050	1-1/8	1-1/8	3/4	10	0.33	15/32	15/32	1-1/64	☎
T11811878	W04049	1-1/8	1-1/8	7/8	10	0.32	15/32	15/32	49/64	☎
T118118138	W04082	1-1/8	1-1/8	1-3/8	5	0.47	11/16	11/16	37/64	☎
T118118158	W40101	1-1/8	1-1/8	1-5/8	5	0.99	1-21/32	1-21/32	53/64	☎
T13858138	W04083	1-3/8	5/8	1-3/8	5	0.58	23/32	1-5/8	11/16	☎
T1387858	W04081	1-3/8	7/8	5/8	5	0.57	19/32	1-1/4	2-17/64	☎
T1387878	W04080	1-3/8	7/8	7/8	5	0.57	19/32	1-1/4	2-5/64	☎
T13878118	W04079	1-3/8	7/8	1-1/8	5	0.54	19/32	1-1/4	53/64	☎
T13878138	W04078	1-3/8	7/8	1-3/8	5	0.58	23/32	1-3/8	45/64	☎
T13811858	W04076	1-3/8	1-1/8	5/8	5	0.57	19/32	1-1/8	1-31/64	☎
T13811878	W04075	1-3/8	1-1/8	7/8	5	0.55	19/32	1-1/8	1-5/16	☎
T138118118	W04074	1-3/8	1-1/8	1-1/8	5	0.53	19/32	1-1/8	53/64	☎
T138118138	W04073	1-3/8	1-1/8	1-3/8	5	0.56	23/32	1-7/32	49/64	☎
T13813812	W04072	1-3/8	1-3/8	1/2	5	0.48	19/32	19/32	1-9/16	☎
T13813858	W04071	1-3/8	1-3/8	5/8	5	0.48	9/16	9/16	1-27/64	☎
T13813878	W04070	1-3/8	1-3/8	7/8	5	0.30	37/64	37/64	1-19/64	☎
T138138118	W04069	1-3/8	1-3/8	1-1/8	5	0.48	37/64	37/64	53/64	☎
T138138158	W40100	1-3/8	1-3/8	1-5/8	5	0.79	27/32	27/32	23/32	☎
T138138218	W40122	1-3/8	1-3/8	2-1/8	2	2.06	2-1/16	2-1/16	1-3/32	☎
T15858158	W40244	1-5/8	5/8	1-5/8	5	0.94	27/32	2-1/4	53/64	☎
T1587878	W40238	1-5/8	7/8	7/8	5	0.88	23/32	1-11/16	1-53/64	☎
T15878118	W40240	1-5/8	7/8	1-1/8	5	0.88	23/32	1-11/16	1-19/32	☎
T15878138	W40239	1-5/8	7/8	1-3/8	5	0.88	23/32	1-11/16	15/16	☎
T15878158	W04099	1-5/8	7/8	1-5/8	5	0.94	27/32	2-1/8	53/64	☎
T15811878	W04098	1-5/8	1-1/8	7/8	5	0.88	23/32	1-29/64	1-53/64	☎
T158118118	W04097	1-5/8	1-1/8	1-1/8	5	0.88	23/32	1-29/64	1-19/32	☎
T158118138	W04096	1-5/8	1-1/8	1-3/8	5	0.88	23/32	1-29/64	15/16	☎
T158118158	W04095	1-5/8	1-1/8	1-5/8	5	0.94	53/64	1-23/32	53/64	☎
T15813858	W04094	1-5/8	1-3/8	5/8	5	0.88	45/64	1-21/64	1-49/64	☎
T15813878	W04093	1-5/8	1-3/8	7/8	5	0.88	45/64	1-21/64	1-5/8	☎
T158138118	W04092	1-5/8	1-3/8	1-1/8	5	0.88	45/64	1-3/16	1-15/32	☎
T158138138	W04091	1-5/8	1-3/8	1-3/8	5	0.88	45/64	1-3/16	15/16	☎
T158138158	W04090	1-5/8	1-3/8	1-5/8	5	0.94	27/32	1-3/16	53/64	☎
T15815812	W04089	1-5/8	1-5/8	1/2	5	0.76	45/64	45/64	2	☎
T15815858	W04088	1-5/8	1-5/8	5/8	5	0.76	45/64	45/64	1-57/64	☎
T15815878	W04087	1-5/8	1-5/8	7/8	5	0.76	45/64	45/64	1-53/64	☎
T158158118	W04086	1-5/8	1-5/8	1-1/8	5	0.76	45/64	45/64	1-19/32	☎

\*Box quantity for ordering convenience only

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☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

TUBE, INSULATION, FITTINGS

## REDUCING (Cont'd.)

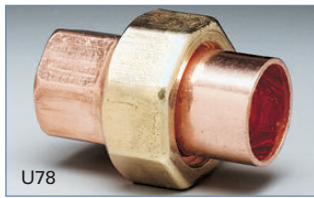
Part No.	Industry No.	OD Size (In.)			Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Dim. C (In.)	Price/Ea.
		C	C	C (BR)						
T158158138	W04085	1-5/8	1-5/8	1-3/8	5	0.76	45/64	45/64	15/16	¢
T158158218	W40121	1-5/8	1-5/8	2-1/8	2	1.38	1-1/16	1-1/16	57/64	¢
T21858218	W40249	2-1/8	5/8	2-1/8	5	2.01	1-3/32	2-23/32	1-1/8	¢
T21878218	W40248	2-1/8	7/8	2-1/8	5	2.01	1-3/32	2-11/16	1-1/8	¢
T218118118	W40247	2-1/8	1-1/8	1-1/8	5	1.16	1-3/32	2-17/32	1-1/8	¢
T218118218	W40245	2-1/8	1-1/8	2-1/8	5	2.01	19/32	2-61/64	1-9/32	¢
T21813878	W40119	2-1/8	1-3/8	7/8	5	1.13	37/64	1-19/32	1-11/16	¢
T218138118	W40118	2-1/8	1-3/8	1-1/8	2	1.13	19/32	1-37/64	1-5/16	¢
T218138138	W40117	2-1/8	1-3/8	1-3/8	2	1.46	27/32	1-27/32	1-27/32	¢
T218138158	W40116	2-1/8	1-3/8	1-5/8	2	1.46	27/32	1-27/32	1-7/32	¢
T218138218	W40115	2-1/8	1-3/8	2-1/8	2	1.89	1-7/64	2-3/64	1-7/64	¢
T21815878	W40113	2-1/8	1-5/8	7/8	2	1.13	37/64	1-29/64	1-11/16	¢
T218158118	W40112	2-1/8	1-5/8	1-1/8	2	1.13	37/64	1-29/64	1-19/64	¢
T218158138	W40111	2-1/8	1-5/8	1-3/8	2	1.46	27/32	1-23/32	1-27/32	¢
T218158158	W40110	2-1/8	1-5/8	1-5/8	2	1.46	27/32	1-23/32	1-7/32	¢
T218158218	W40109	2-1/8	1-5/8	2-1/8	2	1.89	1-3/32	1-63/64	1-3/32	¢
T21821812	W40108	2-1/8	2-1/8	1/2	2	0.97	37/64	37/64	2-1/64	¢
T21821858	W40107	2-1/8	2-1/8	5/8	5	0.97	37/64	37/64	1-15/16	¢
T21821878	W40106	2-1/8	2-1/8	7/8	5	0.97	37/64	37/64	1-11/16	¢
T218218118	W40105	2-1/8	2-1/8	1-1/8	5	0.97	37/64	37/64	1-9/32	¢
T218218138	W40104	2-1/8	2-1/8	1-3/8	5	1.26	27/32	27/32	1-27/32	¢
T218218158	W40103	2-1/8	2-1/8	1-5/8	5	1.26	27/32	27/32	1-13/64	¢
T218218258	W40144	2-1/8	2-1/8	2-5/8	1	2.94	1-11/32	1-11/32	1-3/32	¢
T25878258	W40222	2-5/8	7/8	2-5/8	4	3.04	1-5/16	3-5/16	1-3/8	¢
T258118158	W40257	2-5/8	1-1/8	1-5/8	4	2.47	1-3/32	2-23/32	2-7/16	¢
T258118258	W40221	2-5/8	1-1/8	2-5/8	4	3.04	1-5/16	3	1-29/64	¢
T258138218	W40250	2-5/8	1-3/8	2-1/8	4	2.47	1-3/32	2-35/64	1-1/2	¢
T25821878	W40135	2-5/8	2-1/8	7/8	4	2.36	1-5/64	2-11/64	3-1/32	¢
T258218118	W40134	2-5/8	2-1/8	1-1/8	4	2.36	1-5/64	2-11/64	2-51/64	¢
T258218138	W40133	2-5/8	2-1/8	1-3/8	4	2.36	1-5/64	2-11/64	2-5/8	¢
T258218158	W40132	2-5/8	2-1/8	1-5/8	4	2.36	1-5/64	2-11/64	2-7/16	¢
T258218218	W40131	2-5/8	2-1/8	2-1/8	2	2.36	1-5/64	2-11/64	1-1/2	¢
T258218258	W40130	2-5/8	2-1/8	2-5/8	4	3.04	1-5/16	2-7/16	1-3/8	¢
T25825858	W40129	2-5/8	2-5/8	5/8	1	2.05	1-3/32	1-3/32	3	¢
T25825878	W40128	2-5/8	2-5/8	7/8	1	2.05	1-3/32	1-3/32	2-55/64	¢
T258258118	W40127	2-5/8	2-5/8	1-1/8	2	2.05	1-3/32	1-3/32	2-25/32	¢
T258258138	W40126	2-5/8	2-5/8	1-3/8	2	2.05	1-3/32	1-3/32	2-1/2	¢
T258258158	W40125	2-5/8	2-5/8	1-5/8	2	2.05	1-3/32	1-3/32	2-5/16	¢
T258258218	W40124	2-5/8	2-5/8	2-1/8	2	2.05	1-3/32	1-3/32	1-17/32	¢
T318218218	W40164	3-1/8	2-1/8	2-1/8	2	2.95	1-5/64	2-17/32	1-25/32	¢
T318258218	W40157	3-1/8	2-5/8	2-1/8	2	2.95	1-5/64	2-5/32	1-25/32	¢
T318258258	W40158	3-1/8	2-5/8	2-5/8	2	5.20	1-19/32	2-13/16	2-27/32	¢
T31831878	W40146	3-1/8	3-1/8	7/8	2	2.01	23/32	23/32	2-11/32	¢
T318318118	W40147	3-1/8	3-1/8	1-1/8	2	2.01	23/32	23/32	1-55/64	¢
T318318138	W40148	3-1/8	3-1/8	1-3/8	2	2.55	1-5/64	1-5/64	3	¢
T318318158	W40149	3-1/8	3-1/8	1-5/8	2	2.55	1-5/64	1-5/64	2-3/4	¢
T318318218	W40150	3-1/8	3-1/8	2-1/8	2	2.55	1-5/64	1-5/64	1-25/32	¢
T318318258	W40151	3-1/8	3-1/8	2-5/8	2	4.62	1-19/32	1-19/32	2-31/32	¢
T418158418	W40215	4-1/8	1-5/8	4-1/8	1	10.97	2-1/8	4-27/64	2-13/64	¢
T418258418	W40212	4-1/8	2-5/8	4-1/8	1	10.97	2-1/8	3-15/16	2-13/64	¢
T41841878	W40192	4-1/8	4-1/8	7/8	1	3.59	9/16	9/16	3-1/16	¢
T418418118	W40193	4-1/8	4-1/8	1-1/8	1	3.59	37/64	37/64	2-37/64	¢
T418418138	W40194	4-1/8	4-1/8	1-3/8	1	4.72	1-1/16	1-1/16	3-5/8	¢
T418418158	W40195	4-1/8	4-1/8	1-5/8	1	4.72	1-1/16	1-1/16	3-7/32	¢
T418418218	W40196	4-1/8	4-1/8	2-1/8	1	4.72	1-1/16	1-1/16	2-23/64	¢
T418418258	W40197	4-1/8	4-1/8	2-5/8	1	5.62	1-19/32	1-19/32	3-13/64	¢
T418418318	W40198	4-1/8	4-1/8	3-1/8	1	5.62	1-19/32	1-19/32	2-41/64	¢

TUBE, INSULATION, FITTINGS

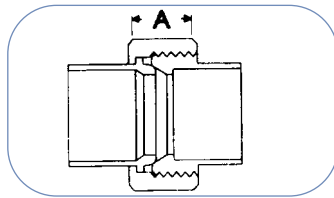
# COPPER FITTING

## UNION COUPLING

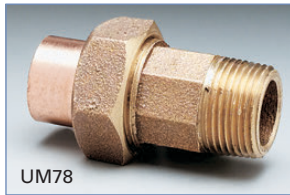
### CONNECTION C X C



U78



Part No.	Industry No.	OD Size (In.)	Box * Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
U38	W08001	3/8	25	0.12	19/32	☞
U12	W08002	1/2	25	0.11	7/16	☞
U58	W08003	5/8	25	0.17	15/32	☞
U78	W08004	7/8	10	0.37	5/8	☞
U118	W08005	1-1/8	10	0.51	29/64	☞
U138	A11205	1-3/8	5	0.76	1/2	☞
U158	A11206	1-5/8	5	1.04	23/32	☞
U218	A11207	2-1/8	—	1.77	1/2	☞
U258	A11216	2-5/8	—	3.25	1	☞
U318	A11217	3-1/8	—	4.75	1-5/32	☞



UM78

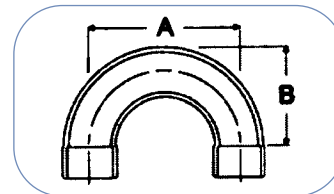
### CONNECTION C X MPT

Part No.	Industry No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
		OD	MPT				
UM12	A11209	1/2	1/2	25	0.20	1-5/8	☞
UM58	A11210	5/8	1/2	25	0.28	1-11/16	☞
UM78	A11211	7/8	3/4	10	0.43	1-29/32	☞
UM118	A11212	1-1/8	1	10	0.68	2-1/8	☞
UM138	A11213	1-3/8	1-1/4	5	0.95	2-5/32	☞
UM158	A11214	1-5/8	1-1/2	1	1.35	2-13/32	☞
UM218	A11215	2-1/8	2	1	2.17	2-25/32	☞
UM258	A11240	2-5/8	2-1/2	1	4.13	3-17/32	☞

## RETURN BEND



RB78



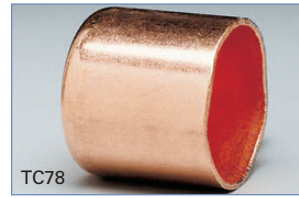
### Connection C x C

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Price/Ea.
RB38	W06020	3/8	25	0.04	1-1/2	15/16	☞
RB12	W06032	1/2	50	0.06	1-1/2	1	☞
RB58	W06051	5/8	25	0.10	1-9/16	1-3/32	☞
RB34	W06073	3/4	10	0.16	2	1-3/8	☞
RB78	W06092	7/8	10	0.22	2-1/2	1-11/16	☞
RB118	W60110	1-1/8	5	0.46	3	2-1/16	☞
RB138	W60121	1-3/8	5	0.68	3-3/4	2-9/16	☞
RB158	W60131	1-5/8	1	1.00	4-1/2	3-1/6	☞
RB218	W60140	2-1/8	1	1.92	5-1/2	3-13/16	☞

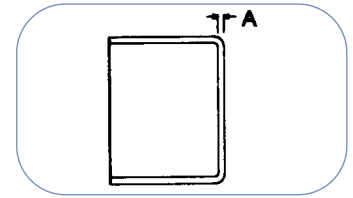
☞ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

\*Box quantity for ordering convenience only

## TUBE CAP



TC78



### Connection C

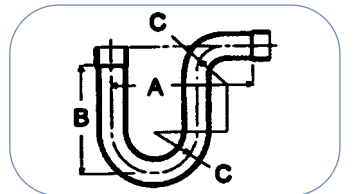
Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Price/Ea.
TC14	W07002	1/4	50	0.01	1/32	☞
TC38	W07004	3/8	50	0.01	1/32	☞
TC12	W07006	1/2	50	0.01	1/32	☞
TC58	W07007	5/8	100	0.02	1/32	☞
TC34	W07008	3/4	50	0.03	3/64	☞
TC78	W07009	7/8	50	0.04	3/64	☞
TC118	W07011	1-1/8	50	0.08	3/64	☞
TC138	W07012	1-3/8	25	0.11	3/64	☞
TC158	W07013	1-5/8	25	0.18	1/16	☞
TC218	W07014	2-1/8	100	0.30	1/16	☞
TC258	W07015	2-5/8	50	0.48	5/64	☞
TC318	W07016	3-1/8	50	0.73	5/64	☞
TC358	W07017	3-5/8	25	1.15	3/32	☞
TC418	W07018	4-1/8	20	1.50	7/64	☞

## P-TRAP - SUCTION LINE

### CONNECTION C X C



PT78



Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Dim. A (In.)	Dim. B (In.)	Dim. C (In.)	Price/Ea.
PT58	W60999	5/8	10	0.39	6	5-1/2	1-1/2	☞
PT34	W61008	3/4	10	0.48	5-7/8	5-3/8	1-1/2	☞
PT78	W61000	7/8	5	0.62	5-3/4	5-1/4	1-1/2	☞
PT118	W61001	1-1/8	3	0.89	5-1/32	5-3/32	1-1/2	☞
PT138	W61002	1-3/8	4	1.20	6-9/16	5-3/32	1-7/8	☞
PT158	W61003	1-5/8	4	2.10	8-21/32	7-29/32	2-1/2	☞
PT218	W61009	2-1/8	3	3.77	9-29/32	8-21/32	3	☞





## LONG RADIUS

Connection C x C

Part No.	Industry Number	Outside Diameter (In.)	Box* Qty	Weight (Lbs.)	Price
PTL58	W60998	5/8	30	0.15	⌘
PTL34	W60997	3/4	20	0.30	⌘
PTL78	W60996	7/8	15	0.36	⌘
PTL118	W60995	1 1/8	15	0.58	⌘
PTL138	W60994	1 3/8	5	0.97	⌘
PTL158	W60993	1 5/8	—	1.84	⌘
PTL218	W60992	2 1/8	—	3.61	⌘
PTL258	W60991	2 5/8	—	5.62	⌘

## VIBRATION ABSORBER



78VS

Designed for installation in the suction and discharge lines of air conditioning and refrigeration systems to dampen the transmission of compressor-induced vibration through system piping. Vibration absorbers function best when installed as close to the

compressor as possible, and perpendicular to the major vibration direction. For optimum absorption of vibration, the refrigerant line should be anchored at the absorber end furthest from the vibration source.

- Flexible tubing: Corrugated red brass for 1/4"–1 5/8"; corrugated type 321 stainless steel for 2 1/8"–4 1/8"
- Wired braid: Bronze for 1/4"–1 5/8"; type 304 stainless steel for 2 1/8"–3 5/8"
- Ferrules: Copper for 1/4"–1 5/8"; type 304 stainless steel for 2 1/8"–3 5/8"
- Tube ends: Copper



Part No.	OD Size (In.)	Length (In.)	Max. Working Pressure (PSIG)	Burst Pressure (PSIG)	Price
14VS	1/4	7-1/2	500	2,500	24.36
38VS	3/8	8-1/4	500	2,500	27.16
12VS	1/2	9	500	2,500	27.54
58VS	5/8	9-3/4	500	2,500	27.92
34VS	3/4	10	500	2,500	31.82
78VS	7/8	11-1/2	500	2,500	41.02
118VS	1-1/8	13	500	2,500	50.78
138VS	1-3/8	14-3/4	500	2,500	71.66
158VS	1-5/8	17	500	2,500	107.64
218VS	2-1/8	20	390	1,950	162.26
258VS	2-5/8	24	340	1,700	301.70
318VS	3-1/8	27	300	1,500	351.04
358VS	3-5/8	32-5/8	175 <sup>1</sup>	525	1018.02
418VS	4-1/8	33-3/8	175 <sup>1</sup>	525	1080.98

<sup>1</sup>U.L. and C.S.A. approved for low side (suction side) use only.

\*Box quantity for ordering convenience only

⌘ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

## FLEXIBLE REFRIGERANT HOSE



Made of red brass tubing having a continuous helical corrugation covered by bronze braid.

Standard models have an SAE male flare connector at one end and an SAE female flare swivel of the same size on the other end.



Part No.	Connection Size (In.)	Hose ID (In.)	Overall Length (In.)	Price
6MF48	3/8	1/4	48	170.00
10MF48	5/8	1/2	48	306.00

## STRAP



TS118

### TUBE STRAP

2-Hole

Part No.	Industry No.	OD Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
TS14	A01203	1/4	100	0.01	⌘
TS38	A01278	3/8	100	0.01	⌘
TS12	A01366	1/2	100	0.01	⌘
TS58	A02529	5/8	100	0.01	⌘
TS34	A01467	3/4	50	0.01	⌘
TS78	A02574	7/8	50	0.01	⌘
TS118	A02614	1-1/8	50	0.02	⌘
TS138	A02650	1-3/8	50	0.04	⌘
TS158	A02675	1-5/8	50	0.05	⌘
TS218	A02708	2-1/8	25	0.06	⌘



### COPPER STRAP

Perforated copper strap, 3/4" wide

Part No.	Length (Ft.)	Wt./Ea. (Lbs.)	Price
62325	25	1.65	⌘

## ZOOMLOCK

ZoomLock™ fittings are specially designed to work without brazing, which automatically makes your job simpler and faster when joining copper tubes. In addition, the one piece fittings are reliably secure, leak-proof and more repeatable than brazed connections.

- Less equipment and no gas needed
- Safer conditions, no fire hazards, more environment-friendly
- No hot work permits required
- No solder-related quality issues
- More flexible access to job sites
- No need to nitrogen-purge

### Parameters

- Continuous Operating Temperature: 250°F
- O-Ring Temperature Rating: -40 to 300°F
- Maximum Rated Pressure: 700 psi
- Maximum Burst Pressure: 3000 psi
- Vacuum Pressure Capability: 20 Microns
- External Leak Rate: <0.1 Ounces of Helium per Year at Operating Pressure Range

### Compatibility

- Approved Oils: Mineral Oil, POE, PVE, PAG
- Approved Tubing Materials: Copper to Copper Connections
- Approved Copper Tubing Type: Annealed Copper Tubing
- Type ACR, M, L, K\* Hard Copper (all sizes except 1-1/8")



### COUPLING



Part No.	OD (In.)	Price
PZKC4HNBR	1/4	10.80
PZKC5HNBR	5/16	12.76
PZKC6HNBR	3/8	14.72
PZKC8HNBR	1/2	18.00
PZKC10HNBR	5/8	23.38
PZKC12HNBR	3/4	31.56
PZKC14HNBR	7/8	35.12
PZKC18HNBR	1 1/8	50.52
PZKC22HNBR	1 3/8	60.28



### 90° ELBOW



Part No.	OD (In.)	Price
PZK90E4HNBR	1/4	26.24
PZK90E5HNBR	5/16	29.38
PZK90E6HNBR	3/8	37.98
PZK90E8HNBR	1/2	42.12
PZK90E10HNBR	5/8	43.74
PZK90E12HNBR	3/4	53.22
PZK90E14HNBR	7/8	54.20
PZK90E18HNBR	1 1/8	67.90
PZK90E22HNBR	1 3/8	90.40



### SLIP COUPLING



Part No.	OD (In.)	Price
PZKRC4HNBR	1/4	17.20
PZKRC6HNBR	3/8	19.82
PZKRC8HNBR	1/2	24.30
PZKRC10HNBR	5/8	31.32
PZKRC12HNBR	3/4	42.28
PZKRC14HNBR	7/8	47.38
PZKRC18HNBR	1 1/8	68.86
PZKRC22HNBR	1 3/8	93.32



### TEE



Part No.	OD (In.)	Price
PZKT6HNBR	3/8	54.50
PZKT8HNBR	1/2	62.92
PZKT10HNBR	5/8	65.90
PZKT12HNBR	3/4	79.82
PZKT14HNBR	7/8	80.44
PZKT18HNBR	1 1/8	101.90
PZKT22HNBR	1 3/8	134.52

## REDUCER



Part No.	Size (In.)	Price
PZKR64HNBR	3/8 to 1/4	28.50
PZKR84HNBR	1/2 to 1/4	30.34
PZKR86HNBR	1/2 to 3/8	32.10
PZKR104HNBR	5/8 to 1/4	33.54
PZKR106HNBR	5/8 to 3/8	35.48
PZKR128HNBR	3/4 to 1/2	40.16
PZKR148HNBR	7/8 to 1/2	62.58
PZKR108HNBR	5/8 to 1/2	37.84
PZKR1210HNBR	3/4 to 5/8	48.10
PZKR1410HNBR	7/8 to 5/8	48.96
PZKR1412HNBR	7/8 to 3/4	58.98
PZKR188HNBR	1 1/8 to 1/2	66.10
PZKR1810HNBR	1 1/8 to 5/8	68.40
PZKR1812HNBR	1 1/8 to 3/4	59.44
PZKR1814HNBR	1 1/8 to 7/8	71.10

## CAP



Part No.	Size (In.)	Price
PZKCP4HNBR	1/4	13.32
PZKCP5HNBR	5/16	13.64
PZKCP6HNBR	3/8	22.18
PZKCP8HNBR	1/2	26.52
PZKCP10HNBR	5/8	27.70
PZKCP12HNBR	3/4	35.26
PZKCP14HNBR	7/8	34.98
PZKCP18HNBR	1 1/8	39.36
PZKCP22HNBR	1 3/8	49.38

## FITTING, FLARE



Part No.	Size (In.)	Price
PZKF4HNBR	1/4	21.70
PZKF6HNBR	3/8	28.86
PZKF8HNBR	1/2	35.44
PZKF10HNBR	5/8	43.72
PZKF12HNBR	3/4	55.66

## KLAUKE® COMPATIBLE PRESSING JAW



Part No.	Size (In.)	Use With	Price
PZKJ4	1/4	Klauke 15 kN Crimping Tool	348.88
PZKJ5	5/16	Klauke 15 kN Crimping Tool	348.88
PZKJ6	3/8	Klauke 15 kN Crimping Tool	348.88
PZKJ8	1/2	Klauke 15 kN Crimping Tool	348.88
PZKJ10	5/8	Klauke 15 kN Crimping Tool	348.88
PZKJ12	3/4	Klauke 15 kN Crimping Tool	348.88
PZKJ14	7/8	Klauke 15 kN Crimping Tool	348.88
PZKJ18	1 1/8	Klauke 15 kN Crimping Tool	348.88
PZKKJ4	1/4	Klauke 19 kN Crimping Tool	427.62
PZKKJ5	5/16	Klauke 19 kN Crimping Tool	427.62
PZKKJ6	3/8	Klauke 19 kN Crimping Tool	427.62
PZKKJ8	1/2	Klauke 19 kN Crimping Tool	427.62
PZKKJ10	5/8	Klauke 19 kN Crimping Tool	427.62
PZKKJ12	3/4	Klauke 19 kN Crimping Tool	456.80
PZKKJ14	7/8	Klauke 19 kN Crimping Tool	456.80
PZKKJ18	1 1/8	Klauke 19 kN Crimping Tool	456.80
PZKKJ22	1 3/8	Klauke 19 kN Crimping Tool	686.82

## RIDGID® COMPATIBLE PRESSING JAW



Part No.	Size (In.)	Price
PZKRJ4	1/4	502.14
PZKRJ5	5/16	502.14
PZKRJ6	3/8	502.14
PZKRJ8	1/2	502.14
PZKRJ10	5/8	502.14
PZKRJ12	3/4	502.14
PZKRJ14	7/8	502.14
PZKRJ18	1 1/8	502.14
PZKRJ22	1 3/8	502.14

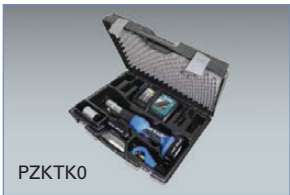
## ZOOMLOCK



### PRESSING JAW KIT



Part No.	Description	Price
770208	8-Piece Jaw Kit (J Series) in Carrying Case. Includes sizes 1/4 through 1 1/8	2889.44
770239	8-Piece Jaw Kit (KJ Series) in Carrying Case. Includes sizes 1/4 through 1 3/8	4065.42
770219	9-Piece Jaw Kit (RJ Series) in Carrying Case. Includes sizes 1/4 through 1 3/8	5495.64
770240	Jaw Carrying Case, Empty, 9 Empty Slots (for 770208 or 770239)	297.68
770220	Jaw Carrying Case, Empty, 9 Empty Slots (for 770219)	321.54



### JAW TOOL KIT

#### Crimping Tool Specifications:

- Short pressing cycle, 5-7 seconds
- Compact design and 350° jaw rotation allows technician to install in tight spaces

- High-quality, powerful Makita Li-Ion technology for lasting, battery-powered pressing

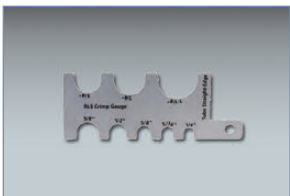
#### Each kit includes:

- Crimping Tool
- Deburring Tool
- Stainless Steel Brush
- Permanent Marker
- Tubing Cutter
- RLS Crimp Gauge
- Abrasive Pad
- Battery Charger
- (2) Lithium-Ion Rechargeable Batteries

- Lightweight design increases productivity
- Tool service indicated via imbedded LEDs, illuminates at 10,000 cycles
- Automatic piston return
- Safety feature that allows crimp cycle to be interrupted



Part No.	Description	Price
PZKTK0	Jaw Tool Kit, No Jaw. Includes: Klauke® 15 kN (use w/ J Series Jaws, crimps up to 1 1/8")	4203.02
PZKTK190	Jaw Tool Kit, No Jaw. Includes: Klauke® 19 kN (use w/ JK Series Jaws, crimps up to 1 3/8")	4716.86
PZKTK5	Jaw Tool Kit. Includes: 5 Jaws (3/8", 1/2", 5/8", 7/8", 1 1/8"), Klauke® 15 kN (use w/ J Series Jaws, crimps up to 1 1/8")	5822.94
PZKTK195	Jaw Tool Kit. Includes: 5 Jaws (3/8", 1/2", 5/8", 7/8", 1 1/8"), Klauke® 19 kN (use w/ JK Series Jaws, crimps up to 1 3/8")	6855.00



### RLS CRIMP GAUGE

Confirms the measurement of the finished crimp band diameter.



Part No.	Description	Price
PZKNG1	Crimpe Gauge	15.80



### DIAGNOSTIC TOOL

Adaptor tool for crimping tool diagnostics. Easily connect to PC via USB-Interface. Provides statistical evaluation of average crimping process of tool. Free downloading of Software "iPress" via [www.klauke.com](http://www.klauke.com).



Part No.	Description	Price
PGA1	Klauke Diagnostic Tool	1691.72

**To view the most current**



**information**

**please check [www.uri.com](http://www.uri.com)**

## FLARE NUT

### SHORT

Connection FFL x OD



Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
NS43	3/16	—	3.46
NS44	1/4	.035	1.66
NS45	5/16	.039	2.56
NS46	3/8	.052	2.18
NS48	1/2	.076	3.00
NS410	5/8	.120	4.20
NS412	3/4	.231	9.16
NS414	7/8	.255	14.72

### EXTRA HEAVY SHORT

Connection FFL x OD



HNS44

Part No.	Size (In.)	Price
HNS44	1/4	2.86
HNS46	3/8	3.14
HNS48	1/2	4.36
HNS410	5/8	5.50
HNS412	3/4	11.32

### LONG

Connection FFL x OD



N44

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
N44	1/4	.049	3.84
N45	5/16	.050	10.14
N46	3/8	.081	6.54
N48	1/2	.112	7.28
N410	5/8	.207	9.92
N412	3/4	.360	13.90

### FROST FREE SHORT

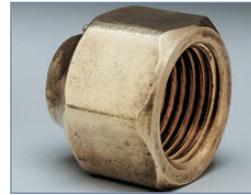
Connection FFL x OD



Part No.	Size (In.)	Price
NST44	1/4	4.14
NST46	3/8	4.44
NST48	1/2	5.78
NST410	5/8	8.42

## REDUCING SHORT

Connection FFL x OD



Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	FFL	OD		
NRS443	1/4	3/16	.040	2.50
NRS454	5/16	1/4	.040	7.10
NRS464	3/8	1/4	.059	3.08
NRS465	3/8	5/16	.060	4.28
NRS486	1/2	3/8	.081	3.42
NRS4108	5/8	1/2	.128	5.76
NRS4128	3/4	1/2	.270	11.40
NRS41210	3/4	5/8	.260	10.88

## CONNECTOR

### FLARE

Connection FFL x FFL

- Appropriate flare gaskets included



U44

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
U44	1/4	.090	6.62
U46	3/8	.158	13.44
U48	1/2	.215	18.34
U410	5/8	.245	19.84
U412	3/4	—	33.66

### SWIVEL NUT

Connection FFL x FFL

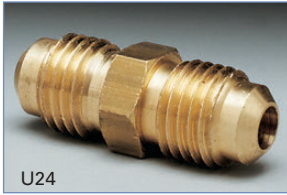


US44

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
US44	1/4	.076	6.84
US45	5/16	.100	10.52
US46	3/8	.120	7.52
US48	1/2	.164	9.24
US410	5/8	.254	12.02
US412	3/4	.420	24.94

# BRASS FITTING-FLARE

## COUPLING



### MALE UNION

Connection MFL x MFL

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MPT		
U22	1/8		.015	6.68
U23	3/16		.024	2.48
U24	1/4		.034	1.54
U25	5/16		.050	1.96
U26	3/8		.086	2.56
U28	1/2		.130	4.14
U210	5/8		.196	5.78
U212	3/4		.363	14.98



### MALE UNION, REDUCING

Connection MFL x MFL

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MFL		
UR243	1/4	3/16	.030	5.42
UR254	5/16	1/4	.050	5.18
UR264	3/8	1/4	.066	2.78
UR265	3/8	5/16	.073	6.24
UR284	1/2	1/4	.096	5.72
UR286	1/2	3/8	.117	3.60
UR2106	5/8	3/8	.165	6.54
UR2108	5/8	1/2	.177	6.68
UR2128	3/4	1/2	.310	22.54
UR21210	3/4	5/8	.330	26.02



### FEMALE UNION, REDUCING

Connection FFL x MFL

- Appropriate flare gasket included

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	FFL	MFL		
UR334	3/16	1/4	—	8.04
UR343	1/4	3/16	.050	14.66
UR346	1/4	3/8	.062	6.68
UR348	1/4	1/2	.110	11.20
UR354	5/16	1/4	—	12.48
UR364	3/8	1/4	.095	8.12
UR368	3/8	1/2	.132	9.62
UR3610	3/8	5/8	.210	15.92
UR384	1/2	1/4	.138	9.76
UR386	1/2	3/8	.145	7.74
UR3810	1/2	5/8	.163	12.62
UR3106	5/8	3/8	.190	17.28
UR3108	5/8	1/2	.194	13.90
UR31012	5/8	3/4	.290	22.92
UR31210	3/4	5/8	.336	23.24



### MALE HALF UNION

Connection MFL x MPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MPT		
U13A	3/16	1/8	.024	1.42
U14A	1/4	1/8	.027	1.50
U14B	1/4	1/4	.043	1.74
U14C	1/4	3/8	.071	2.62
U14D	1/4	1/2	.117	5.42
U15A	5/16	1/8	.038	1.72
U15B	5/16	1/4	.051	1.88
U15C	5/16	3/8	.074	3.84
U16A	3/8	1/8	.062	2.18
U16B	3/8	1/4	.073	1.88
U16C	3/8	3/8	.086	2.40
U16D	3/8	1/2	.129	3.46
U16E	3/8	3/4	.191	9.18
U18A	1/2	1/8	—	16.46
U18B	1/2	1/4	.101	3.60
U18C	1/2	3/8	.113	3.60
U18D	1/2	1/2	.144	4.58
U18E	1/2	3/4	.208	6.84
U110B	5/8	1/4	.154	8.80
U110C	5/8	3/8	.151	5.18
U110D	5/8	1/2	.176	5.04
U110E	5/8	3/4	.245	7.44
U112C	3/4	3/8	—	12.40
U112D	3/4	1/2	.274	11.20
U112E	3/4	3/4	.284	11.42



### PIPE

Connection FFL x MPT

- Appropriate flare gasket included

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	FFL	MPT		
U54A	1/4	1/8	.050	4.66
U54B	1/4	1/4	.060	5.56
U56B	3/8	1/4	.100	8.12
U58C	1/2	3/8	.160	12.90
U58D	1/2	1/2	—	13.98
U510C	5/8	3/8	—	15.52



### FEMALE HALF UNION

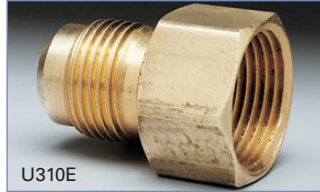
Connection FFL x FPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	FFL	FPT		
U64A	1/4	1/8	.027	6.92
U64B	1/4	1/4	.045	8.92

## FEMALE HALF UNION



U34A



U310E

Connection MFL x FPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	FPT		
U33A	3/16	1/8	.035	2.10
U34A	1/4	1/8	.038	1.66
U34B	1/4	1/4	.064	2.18
U34C	1/4	3/8	.081	4.74
U34D	1/4	1/2	.080	13.00
U35A	5/16	1/8	.042	2.18
U35B	5/16	1/4	.068	3.46
U36A	3/8	1/8	.064	3.84
U36B	3/8	1/4	.079	2.40
U36C	3/8	3/8	.097	3.08
U36D	3/8	1/2	.162	4.14
U36E	3/8	3/4	.160	5.72
U38B	1/2	1/4	.110	4.28
U38C	1/2	3/8	.110	3.46
U38D	1/2	1/2	.173	6.02
U38E	1/2	3/4	.187	6.02
U310C	5/8	3/8	.149	5.94
U310D	5/8	1/2	.190	5.18
U310E	5/8	3/4	.276	6.62
U312D	3/4	1/2	.310	21.56
U312E	3/4	3/4	.380	18.34

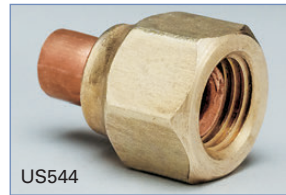


US344

## SWEAT

Connection MFL x OD

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	OD		
US344	1/4	1/4	.030	5.22
US346	1/4	3/8	.030	7.88
US364	3/8	1/4	.080	7.44
US366	3/8	3/8	.060	6.62
US368	3/8	1/2	.060	8.80
US3610	3/8	5/8	.080	14.12
US386	1/2	3/8	.110	9.10
US388	1/2	1/2	.110	7.42
US3810	1/2	5/8	.100	12.48
US3812	1/2	3/4	—	15.10
US3108	5/8	1/2	.160	13.08
US31010	5/8	5/8	.150	16.22
US31012	5/8	3/4	.150	19.16
US3128	3/4	1/2	0.25	18.50
US31212	3/4	3/4	—	37.20



US544

## SWEAT SWIVEL

Connection FFL x OD

Part No.	Size (In.)		Price
	FFL	OD	
US544	1/4	1/4	8.72
US566	3/8	3/8	9.00
US588	1/2	1/2	13.30
US51010	5/8	5/8	16.38
US51212	3/4	3/4	20.52

## UNION ELBOW



E24

## MALE FLARE

Connection MFL x MFL

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
E23	3/16	.037	10.36
E24	1/4	.055	3.46
E25	5/16	.061	5.18
E26	3/8	.100	4.74
E28	1/2	.189	7.14
E210	5/8	.230	10.14
E212	3/4	.534	31.48



ER264

## MALE FLARE, REDUCING

Connection MFL x MFL

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MFL		
ER264	3/8	1/4	.110	6.24
ER284	1/2	1/4	.130	9.70
ER286	1/2	3/8	.170	8.34
ER2106	5/8	3/8	.200	11.80
ER2108	5/8	1/2	.210	11.72
ER2128	3/4	1/2	.420	6.00



E466

## MALE TO FEMALE FLARE

Connection MFL x FFL

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
E444	1/4	.13	8.86
E466	3/8	.24	13.76
E488	1/2	.22	19.00
E41010	5/8	—	32.40

# BRASS FITTING-FLARE

## UNION ELBOW

### SWIVEL

Connection MFL x FFL



Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
ES444	1/4	.13	16.38
ES466	3/8	.19	19.98
ES488	1/2	.22	23.36
ES41010	5/8	.31	34.64
ES41212	3/4	.58	34.46

### HALF UNION

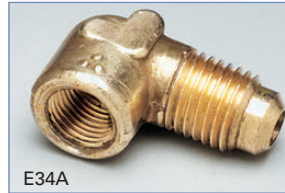
Connection MFL x MPT



Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MPT		
E13A	3/16	1/8	.037	5.56
E14A	1/4	1/8	.039	3.46
E14B	1/4	1/4	.065	4.20
E14C	1/4	3/8	.099	5.78
E14D	1/4	1/2	.130	6.68
E15A	5/16	1/8	.053	4.20
E15B	5/16	1/4	.086	4.74
E15C	5/16	3/8	.114	6.02
E16A	3/8	1/8	.107	4.66
E16B	3/8	1/4	.103	4.20
E16C	3/8	3/8	.109	4.74
E16D	3/8	1/2	.155	7.14
E16E	3/8	3/4	.202	10.96
E18B	1/2	1/4	.145	7.06
E18C	1/2	3/8	.181	6.32
E18D	1/2	1/2	.168	7.58
E18E	1/2	3/4	.206	11.80
E110B	5/8	1/4	.140	28.92
E110C	5/8	3/8	.198	10.72
E110D	5/8	1/2	.215	8.94
E110E	5/8	3/4	.258	13.44
E112D	3/4	1/2	.320	19.24
E112E	3/4	3/4	.407	19.76

## HALF UNION

Connection MFL x FPT



Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	FPT		
E33A	3/16	1/8	.040	6.92
E34A	1/4	1/8	.046	3.90
E34B	1/4	1/4	.103	5.72
E34C	1/4	3/8	.110	8.94
E35A	5/16	1/8	.050	5.48
E35B	5/16	1/4	.112	7.22
E36A	3/8	1/8	.108	7.44
E36B	3/8	1/4	.123	5.42
E36C	3/8	3/8	.103	5.78
E36D	3/8	1/2	.165	8.12
E36E	3/8	3/4	.030	13.90
E38B	1/2	1/4	.010	8.94
E38C	1/2	3/8	.123	7.28
E38D	1/2	1/2	.208	8.18
E38E	1/2	3/4	.269	9.32
E310C	5/8	3/8	.166	12.62
E310D	5/8	1/2	.269	8.86
E310E	5/8	3/4	.374	12.18
E312D	3/4	1/2	.370	24.80
E312E	3/4	3/4	.380	36.52

## SWEAT



Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	OD		
ES244	1/4	1/4	.04	9.10
ES266	3/8	3/8	.08	10.14
ES288	1/2	1/2	.12	18.94

## TEE

### MALE FLARE

Connection MFL



Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
T23	3/16	.067	6.32
T24	1/4	.068	5.78
T25TEE	5/16	.139	6.66
T26	3/8	.144	6.02
T28	1/2	.203	8.42
T210	5/8	.331	13.08
T212	3/4	.680	29.46





## MALE FLARE, REDUCING

Connection MFL

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	Run	Branch		
TR246	1/4	3/8	.110	7.52
TR264	3/8	1/4	.128	7.58
TR268	3/8	1/2	.200	10.00
TR284	1/2	1/4	.210	12.10
TR286	1/2	3/8	.195	8.94
TR2810	1/2	5/8	.280	13.98
TR2106	5/8	3/8	.270	13.88
TR2108	5/8	1/2	.270	14.20
TR21012	5/8	3/4	.430	17.30
TR21210	3/4	5/8	.480	51.46



## FEMALE BRANCH

Connection MFL x MFL x FPT (Branch)

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	FPT (BR)		
T54A	1/4	1/8	.120	11.80
T54B	1/4	1/4	.120	14.72



## MALE RUN

Connection MFL x MPT x MFL (Branch)

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MPT		
T33A	3/16	1/8	.050	7.52
T34A	1/4	1/8	.066	6.02
T34B	1/4	1/4	.085	6.68
T34C	1/4	3/8	.090	11.72
T35A	5/16	1/8	.090	7.06
T35B	5/16	1/4	.107	10.66
T36B	3/8	1/4	.134	7.42
T36C	3/8	3/8	.147	7.88
T38C	1/2	3/8	.193	11.64
T38D	1/2	1/2	.261	15.02
T310C	5/8	3/8	.410	12.86
T310D	5/8	1/2	.362	21.72

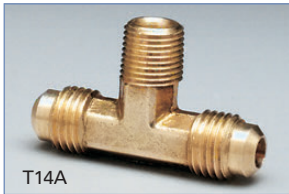


## FEMALE FLARE, BRANCH

Connection MFL x MFL x FFL (Branch)

- 1/4" flare gasket included

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
T64	1/4	.14	9.26



## MALE FLARE, BRANCH

Connection MFL x MFL x MPT (Branch)

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MFL	MPT (BR)		
T14A	1/4	1/8	.066	4.58
T14B	1/4	1/4	.116	5.64
T14C	1/4	3/8	.120	12.54
T15B	5/16	1/4	.105	7.58
T16A	3/8	1/8	.110	9.70
T16B	3/8	1/4	.137	6.46
T16C	3/8	3/8	.147	7.96
T16D	3/8	1/2	.386	13.44
T18B	1/2	1/4	.180	12.40
T18C	1/2	3/8	.188	10.52
T18D	1/2	1/2	.320	13.30
T110C	5/8	3/8	.280	16.54
T110D	5/8	1/2	.391	16.38
T112D	3/4	1/2	.490	32.98
T112E	3/4	3/4	.620	31.26

## CAP



## HEX

Connection FFL

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
N53	3/16	.017	3.08
N54	1/4	.023	0.90
N55	5/16	.032	2.40
N56	3/8	.043	2.40
N58	1/2	.088	2.70
N510	5/8	.093	4.20
N512	3/4	.210	14.72



## FINGER TIGHT

Connection FFL

- Includes rubber seal ring

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
NFT54	1/4	.02	1.28
NFT56	3/8	.04	4.44

# BRASS FITTING-FLARE

## FLARE FITTING PLUG



P24

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
P24	1/4	.022	1.28
P26	3/8	.056	2.78
P28	1/2	.090	4.28
P210	5/8	.129	6.84
P212	3/4	.230	20.82

## REFRIGERANT DRUM ADAPTER

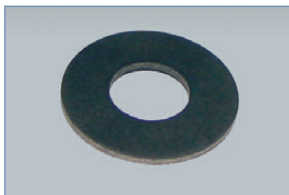


K13

- Supplied with gasket.
- P10A gasket available separately (for K11, K13, K15).

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	FPT	MFL		
K18	1/2	1/4	.15	22.16
K11	3/4	1/4	.16	14.04
K13	3/4	3/8	.19	16.22
K15	3/4	1/2	.19	16.22

## GASKET



Item	Description	Price
P10A	3/4" Gasket, for K11, K13, K15	0.90

## FLARE NUT SEAL

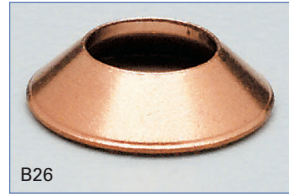


B16

## COPPER FLARE SEAL CAP

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
B13	3/16	.001	2.22
B14	1/4	.002	1.50
B15	5/16	.003	1.28
B16	3/8	.004	1.28
B18	1/2	.007	1.42
B110	5/8	.010	2.10
B112	3/4	.015	2.10

## COPPER FLARE GASKET



B26

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
B23	3/16	.0010	0.90
B24	1/4	.0010	0.74
B25	5/16	.0010	2.00
B26	3/8	.0021	0.90
B28	1/2	.0026	1.42
B210	5/8	.0031	1.96
B212	3/4	.0044	2.56

## PIPE NIPPLE

### CLOSE

Connection MPT x MPT



112A

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
112A	1/8	.011	1.28
112B	1/4	.023	1.58
112C	3/8	.034	2.78
112D	1/2	.065	3.84
112E	3/4	.179	7.96
112F	1	.140	13.00

### LONG

Connection MPT



113C3

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MPT	Length		
113A15	1/8	1-1/2	.030	1.66
113A2	1/8	2	.070	2.10
113A25	1/8	2-1/2	.090	3.00
113A3	1/8	3	.120	2.94
113A35	1/8	3-1/2	.150	7.22
113A4	1/8	4	.180	10.14
113A45	1/8	4-1/2	.190	8.94
113A5	1/8	5	.210	9.92
113A55	1/8	5 1/2	.220	10.82
113A6	1/8	6	.230	10.96
113B15	1/4	1-1/2	.040	2.62
113B2	1/4	2	.060	3.08
113B25	1/4	2-1/2	.080	3.76
113B3	1/4	3	.100	4.20
113B35	1/4	3-1/2	.140	8.86
113B4	1/4	4	.170	10.06
113B45	1/4	4-1/2	.210	10.96
113B5	1/4	5	.240	12.32
113B55	1/4	5 1/2	.270	13.30

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## LONG (Cont'd.)

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MPT	Length		
113B6	1/4	6	.300	14.20
113C15	3/8	1-1/2	.060	4.28
113C2	3/8	2	.090	4.74
113C25	3/8	2-1/2	.110	5.18
113C3	3/8	3	.150	6.32
113C35	3/8	3-1/2	.180	10.96
113C4	3/8	4	.210	12.48
113C45	3/8	4-1/2	.240	13.88
113C5	3/8	5	.280	15.48
113C55	3/8	5-1/2	.310	18.26
113C6	3/8	6	.340	18.10
113D15	1/2	1-1/2	.080	6.02
113D2	1/2	2	.110	7.28
113D25	1/2	2-1/2	.150	8.42
113D3	1/2	3	.180	11.80
113D35	1/2	3-1/2	.200	16.16
113D4	1/2	4	.230	15.62
113D45	1/2	4-1/2	.260	16.16
113D5	1/2	5	.290	20.36
113D55	1/2	5-1/2	.340	19.50
113D6	1/2	6	.370	23.96
113E15	3/4	1-1/2	.016	9.94
113E2	3/4	2	.020	10.96
113E25	3/4	2-1/2	.240	13.00
113E3	3/4	3	.280	15.06
113E35	3/4	3-1/2	.360	16.00
113E4	3/4	4	.400	20.06
113E45	3/4	4-1/2	.440	13.76
113E5	3/4	5	.480	25.32
113E55	3/4	5-1/2	.520	25.88
113E6	3/4	6	.560	28.94
113F15	1	2	.250	19.26
113F25	1	2 1/2	.312	22.80



**HEX**  
Connection MPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MPT	FPT		
U10A	1/8		.028	1.12
U10B	1/4		.057	2.40
U10C	3/8		.081	3.82
U10D	1/2		.149	6.24
U10E	3/4		.150	15.10

## COUPLING



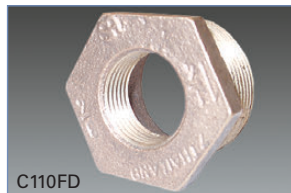
**HEX**  
Connection FPT x FPT

Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	MPT	FPT		
C103A	1/8		.028	1.50
C103B	1/4		.057	3.30
C103C	3/8		.081	4.44
C103D	1/2		.149	7.58
C103E	3/4		.150	12.10



**BUSHING FORGED**  
Connection MPT x FPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MPT	FPT		
R1AB	1/8	1/4	—	2.40
R1BA	1/4	1/8	.025	1.66
R1CA	3/8	1/8	.049	2.48
R1CB	3/8	1/4	.038	2.38
R1DA	1/2	1/8	.129	3.76
R1DB	1/2	1/4	.105	3.46
R1DC	1/2	3/8	.069	3.30
R1EA	3/4	1/8	.196	7.14
R1EB	3/4	1/4	.196	6.84
R1EC	3/4	3/8	.218	6.84
R1ED	3/4	1/2	.122	6.68
R1FB	1	1/4	.220	14.72
R1FC	1	3/8	.200	14.72
R1FD	1	1/2	.230	14.72
R1FE	1	3/4	.200	14.72

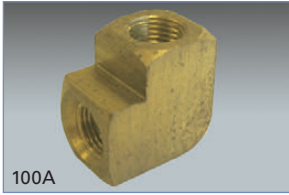


**BUSHING CAST**  
Connection MPT x FPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	MPT	FPT		
C110FD	1	1/2	.253	14.12
C110FE	1	3/4	.227	14.12
C110GE	1-1/4	3/4	.408	29.08
C110GF	1-1/4	1	.308	29.08
C110HF	1-1/2	1	.558	36.38
C110HG	1-1/2	1-1/4	.408	36.40
C110IH	2	1-1/2	.500	62.26

# BRASS FITTING-PIPE

## 90° ELBOW



Connection FPT

Part No	Size (In.)	Wt./Ea. (Lbs.)	Price
100A	1/8	.06	4.14
100B	1/4	.10	5.56
100C	3/8	.16	7.44
100D	1/2	.20	11.80
100E	3/4	.36	22.40
100F	1	.45	22.36



## STREET ELBOW

Pipe Thread

Part No	Size (In.)	Wt./Ea. (Lbs.)	Price
R11612	3/4	.337	19.86
R11616	1	.499	26.76

## PIPE PLUG



### NON-FUSIBLE

Connection MPT

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
P3A	1/8	.019	1.58
P3B	1/4	.037	1.72
P3C	3/8	.061	2.78
P3D	1/2	.088	3.90
P3E	3/4	—	7.52
P3F	1	—	14.58
P3G	1-1/4	—	26.08
P3H	1-1/2	—	32.98
P3I	2	—	51.92



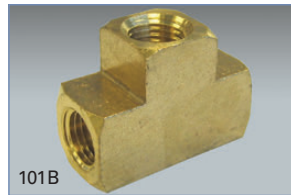
### FUSIBLE

Connection MPT

- Vent to atmosphere

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
<b>Relief Temperature 165°F</b>			
FPA165	1/8	.01	24.42
FPB165	1/4	.03	17.46
FPC165	3/8	.05	27.10
<b>Relief Temperature 212°F</b>			
FPB212	1/4	.03	17.76
FPC212	3/8	.05	27.50
<b>Relief Temperature 280°F</b>			
FPA280	1/8	.01	19.56
FPB280	1/4	.03	18.46
FPC280	3/8	.05	28.36

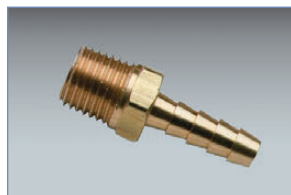
## TEE



Connection FPT

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
101A	1/8	.10	4.28
101B	1/4	.16	7.52
101C	3/8	.20	10.90
101D	1/2	.30	15.78
101E	3/4	.48	25.70

## HOSE BARB FITTING



### HOSE BARB TO MALE PIPE

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
3434BARB	3/4	.162	11.18
11BARB	1	.499	16.86



### HOSE BARB 90° ELBOW TO MALE PIPE

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
3434BARB90	3/4	.399	27.28
11BARB90	1	.600	35.34

## COMPRESSION

### NUT

Connection FCOMP x OD



61F4

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
61F2	1/8	.008	0.52
61F3	3/16	.011	0.52
61F4	1/4	.013	0.60
61F5	5/16	.016	0.76
61F6	3/8	.019	0.82
61F8	1/2	.039	1.58
61F10	5/8	.058	1.80
61F12	3/4	.084	4.44

### SLEEVE



60F4

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
60F2	1/8	.001	0.08
60F3	3/16	.001	0.08
60F4	1/4	.002	0.22
60F5	5/16	.002	0.22
60F6	3/8	.003	0.22
60F8	1/2	.008	0.60
60F10	5/8	.007	1.56
60F12	3/4	.020	2.02
60F14	7/8	.015	4.00

### COUPLING

Connection OD



62F4

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
62F2	1/8	.019	2.56
62F3	3/16	.028	2.62
62F4	1/4	.037	2.84
62F5	5/16	.044	3.60
62F6	3/8	.056	3.84
62F8	1/2	.095	7.14
62F10	5/8	.139	10.06
62F12	3/4	.249	19.98
62F14	7/8	.291	19.98

### REDUCING COUPLING

Connection OD x OD



62F64

Part No.	Connection (In.)		Weight (Lbs.)	Price
	Size 1	Size 2		
62F64	3/8	1/4	0.280	4.20
62R86	1/2	3/8	0.340	6.08

### ELBOW

Connection FCOMP

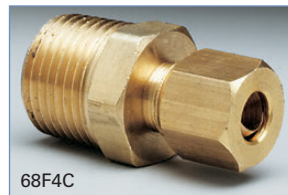


65F5

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
65F2	1/8	0.06	4.96
65F4	1/4	0.07	5.56
65F5	5/16	0.08	8.34
65F6	3/8	0.10	6.68
65F8	1/2	0.15	11.50
65F10	5/8	0.238	15.56

### HALF UNION MALE PIPE

Connection OD x MPT



68F4C

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	OD	MPT		
68F2A	1/8	1/8	.027	1.80
68F3A	3/16	1/8	.036	1.72
68F4A	1/4	1/8	.039	1.80
68F4B	1/4	1/4	.051	2.94
68F4C	1/4	3/8	.070	4.44
68F4D	1/4	1/2	.116	6.84
68F5B	5/16	1/4	.058	2.62
68F6A	3/8	1/8	.054	2.78
68F6B	3/8	1/4	.064	2.62
68F6C	3/8	3/8	.082	3.60
68F6D	3/8	1/2	.114	4.58
68F8B	1/2	1/4	.102	4.66
68F8C	1/2	3/8	.109	4.58
68F8D	1/2	1/2	.139	5.42
68F8E	1/2	3/4	.250	14.52
68F10C	5/8	3/8	.155	6.08
68F10D	5/8	1/2	.169	5.72
68F10E	5/8	3/4	.233	14.66
68F12D	3/4	1/2	.254	8.96
68F12E	3/4	3/4	.295	14.28

**COMPRESSION**



**HALF UNION FEMALE PIPE**

Connection OD x FPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	OD	FPT		
66F3A	3/16	1/8	.031	0.90
66F4A	1/4	1/8	.045	2.18
66F4B	1/4	1/4	.068	3.30
66F4C	1/4	3/8	.080	8.18
66F5B	5/16	1/4	.074	3.76
66F6B	3/8	1/4	.078	3.00
66F6C	3/8	3/8	.092	3.90
66F6D	3/8	1/2	.138	4.58
66F8C	1/2	3/8	.119	5.04
66F8D	1/2	1/2	.173	5.72
66F10C	5/8	3/8	.220	5.12
66F10D	5/8	1/2	.195	4.80



**HALF UNION ELBOW**

Connection OD x MPT

Part No.	Size (In.)		Wt./Ea. (Lbs.)	Price
	OD	MPT		
69F4A	1/4	1/8	.050	3.60
69F4B	1/4	1/4	.071	3.02
69F4C	1/4	3/8	.107	7.52
69F4D	1/4	1/2	.110	9.48
69F5B	5/16	1/4	.077	4.88
69F6A	3/8	1/8	.074	5.56
69F6B	3/8	1/4	.092	5.56
69F6C	3/8	3/8	.116	5.78
69F6D	3/8	1/2	.151	9.16
69F8C	1/2	3/8	.149	8.34
69F8D	1/2	1/2	.189	10.82
69F10D	5/8	1/2	.238	12.32



**TEE**

Connection OD

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
64F2	1/8	.045	7.96
64F3	3/16	.053	6.68
64F4	1/4	.067	6.84
64F5	5/16	.093	7.96
64F6	3/8	.095	9.32
64F8	1/2	.159	15.48
64F10	5/8	.236	21.64
64F12	3/4	.334	61.16



**CAP**

Connection FCOMP

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
61S4	1/4	.020	1.70
61S6	3/8	.030	0.76

**PNEUMATIC FITTING KIT**



Contains an assortment of fittings necessary for the repair of pneumatic thermostat systems. Housed in a 20-compartment metal carrying case, keeping all components organized and accessible on a service call

Includes (156 Components)

- Sleeve, poly - (6) @ 1/4" and (6) @ 3/8"
- Female branch tee - (4) @ 1/4" barb, 1/8" pipe
- Poly tubing insert - (6) @ 1/4" and (6) @ 3/8"
- Male connector - (6) @ 1/4" barb, 1/8" pipe
- Plug - (10) @ 3/8"
- Plug adapter - (10) @ 1/4" barb x 5/32" barb
- Barb tee - (10) @ 1/4"; (10) @ 1/4"x1/4"x5/32"; (6) @ 3/8"; and (10) @ 5/32"
- Barb coupling - (10) @ 1/4"; (10) @ 1/4"x3/8"; (10) @ 1/4"x5/32"; (10) @ 3/8"; and (10) @ 5/32"
- Barb x compression - (4) @ 1/4C x 1/4B
- Barb union elbow - (6) @ 1/4" and (6) @ 5/32"



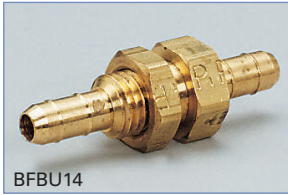
Part No.	Description	Price
PFK	Pneumatic Fitting Kit	262.20

**COUPLING**



Connection Barb x Barb

Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Bard	Barb		
BFU532	5/32	5/32	0.001	0.86
BFU14	1/4	1/4	0.004	0.86
BFU38	3/8	3/8	0.008	1.08
BFU12	1/2	1/2	0.015	7.30
BFU14532	1/4	5/32	0.003	1.06
BFU1438	1/4	3/8	0.006	1.12
BFU3812	3/8	1/2	0.014	1.76



## BULKHEAD

Connection Barb x Barb

Part No.	Size (In.)	Wgt./Ea. (Lbs.)	Price
BFBU14	1/4	0.02	3.56
BFBU38	3/8	0.03	6.70



## HALF UNION

Connection Barb x MPT

Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Barb	MPT		
BFMC1418	1/4	1/8	0.03	1.32
BFMC3818	3/8	1/8	0.03	1.42

## 90° ELBOW



Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Barb	Barb		
BFUE532	5/32	5/32	0.009	5.00
BFUE14	1/4	1/4	0.009	2.18
BFUE38	3/8	3/8	0.01	3.68
BFUE12	1/2	1/2	0.03	12.18



## HALF UNION

Connection Barb x MPT

Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Barb	MPT		
BFME1418	1/4	1/8	.036	2.28
BFME3818	3/8	1/8	.030	4.26



## HALF UNION, FEMALE

Connection Barb x FPT

Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Barb	FPT		
BFUE1418	1/4	1/8	0.01	6.32

## TEE



### MALE BRANCH

Connection Barb x Barb x MPT (Branch)

Part No.	Size (In.)			Wgt./Ea. (Lbs.)	Price
	Barb	Barb	MPT (BR)		
BFMBT1418	1/4	1/4	1/8	0.03	9.48

## CONNECTION BARB X BARB (BRANCH)



BFT532



BFT3838532

Connection Barb x Barb (Branch)

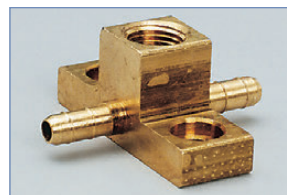
Part No.	Size (In.)			Wgt./Ea. (Lbs.)	Price
	Barb	Barb	Barb (BR)		
BFT532	5/32	5/32	5/32	0.01	8.78
BFT14	1/4	1/4	1/4	0.01	2.30
BFT38	3/8	3/8	3/8	0.02	2.60
BFT12	1/2	1/2	1/2	0.03	12.02
BFT1414532	1/4	1/4	5/32	0.01	3.12
BFT3838532	3/8	3/8	5/32	0.02	8.58
BFT383814	3/8	3/8	1/4	0.02	2.82
BFT121214	1/2	1/2	1/4	0.03	12.66
BFT121238	1/2	1/2	3/8	0.1	13.78



## FEMALE BRANCH

Connection Barb x Barb x FPT (Branch)

Part No.	Size (In.)			Wgt./Ea. (Lbs.)	Price
	Barb	Barb	FPT (BR)		
BFFBT1418	1/4	1/4	1/8	0.01	8.72



## ADAPTER, DROPEAR

Connection Barb x Barb x FPT (Branch)

Part No.	Size (In.)			Wgt./Ea. (Lbs.)	Price
	Barb	Barb	FPT (BR)		
BFAT1418	1/4	1/4	1/8	0.05	11.98

**TEE**

**GAUGE**

Connection Barb x MPT x FPT (Branch)



Part No.	Size (In.)			Wgt./Ea. (Lbs.)	Price
	Barb	MPT	FPT (BR)		
<b>BFGT14</b>	1/4	1/4	1/8	0.01	<b>18.50</b>

**COUPLING**

**COMPRESSION UNION**

Connection Barb x Compression



Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Barb	OD		
<b>BFUC14</b>	1/4	1/4	0.03	<b>2.78</b>

**BULKHEAD**

Connection Barb x Compression



Part No.	Size (In.)		Wgt./Ea. (Lbs.)	Price
	Barb	OD		
<b>BFBUC14</b>	1/4	1/4	0.02	<b>5.86</b>
<b>BFBUC38</b>	3/8	3/8	0.03	<b>10.16</b>

**PLUG**

**CONNECTION BARB**



Part No.	Size (In.)	Wgt./Ea. (Lbs.)	Price
<b>BFPA14532</b>	1/4 and 5/32	0.007	<b>1.80</b>
<b>BFP38</b>	3/8	0.012	<b>1.12</b>
<b>BFP12</b>	1/2	0.01	<b>6.80</b>

**POLY TUBE INSERT**



Part No.	Poly Tube Size	OD (In.)	Wgt./Ea. (Lbs.)	Price
<b>BF14</b>	1/4		.001	<b>0.42</b>
<b>BF138</b>	3/8		.002	<b>0.58</b>
<b>BF112</b>	1/2		.004	<b>1.42</b>

**DELTRIN FERRULE**

See page 1123 for pneumatic tubing



Part No.	Poly Tube Size	OD (In.)	Wgt./Ea. (Lbs.)	Price
<b>BFF14</b>	1/4		.0004	<b>0.28</b>
<b>BFF38</b>	3/8		.0006	<b>0.38</b>
<b>BFF12</b>	1/2		.0011	<b>0.96</b>

**BACK IRON PIPE**



Produced by the continuous weld process in 1/8" to 4" N.P.S. The 1/8" to 4" sizes are produced to ASTM A-53, A-501 and A-589 Type II, API 5L and Federal Specification WW-P404. ASTM A-53-F. Black pipe is manufactured for ordinary uses in steam, water, gas and air lines.

- Threaded and coupled

Part No.	Nom. Pipe Size		Wall		Length (Ft.)	Wt./Ea. (Lbs.)	Price
	Size (In.)	OD Size (In.)	Thickness (In.)				
<b>12BIP10</b>	1/2	0.840	0.109		10	8.50	<b>23.08</b>
<b>12BIP</b>	1/2	0.840	0.109		21	17.85	<b>41.30</b>
<b>34BIP10</b>	3/4	1.050	0.113		10	11.40	<b>29.94</b>
<b>34BIP</b>	3/4	1.050	0.113		21	23.73	<b>54.60</b>
<b>1BIP10</b>	1	1.315	0.133		10	22.70	<b>54.00</b>
<b>1BIP</b>	1	1.315	0.133		21	35.28	<b>79.80</b>
<b>114BIP</b>	1-1/4	1.660	0.140		21	47.88	<b>107.80</b>
<b>112BIP</b>	1-1/2	1.900	0.145		21	57.33	<b>128.80</b>
<b>2BIP</b>	2	2.375	0.154		21	77.28	<b>173.60</b>
<b>212BIP</b>	2-1/2	2.875	0.203		21	121.65	<b>339.28</b>



## COUPLING



Connection FPT x FPT

Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	1 (FPT)	2 (FPT)			
C18BIP	1/8		70	.06	5.82
C14BIP	1/4		40	.09	4.92
C38BIP	3/8		60	.12	4.92
C12BIP	1/2		40	.17	4.40
C34BIP	3/4		50	.28	5.20
C1BIP	1		25	.46	7.86
C114BIP	1-1/4		16	.65	10.06
C112BIP	1-1/2		18	.89	13.44
C2BIP	2		12	1.42	19.60
C212BIP	2-1/2		8	2.58	53.38
C3BIP	3		8	3.35	72.10



## REDUCING

Connection FPT x FPT

Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	1 (FPT)	2 (FPT)			
RC1418BIP	1/4	1/8	50	.07	4.78
RC3818BIP	3/8	1/8	35	.10	4.78
RC3814BIP	3/8	1/4	30	.10	4.78
RC1214BIP	1/2	1/4	50	.20	4.36
RC1238BIP	1/2	3/8	40	.16	4.54
RC3438BIP	3/4	3/8	30	.23	5.94
RC3412BIP	3/4	1/2	60	.24	5.20
RC112BIP	1	1/2	30	.38	8.06
RC134BIP	1	3/4	25	.39	8.06
RC11412BIP	1-1/4	1/2	25	.56	11.60
RC11434BIP	1-1/4	3/4	25	.60	10.06
RC1141BIP	1-1/4	1	15	.65	10.06
RC11212BIP	1-1/2	1/2	20	.71	14.74
RC11234BIP	1-1/2	3/4	15	.78	16.62
RC1121BIP	1-1/2	1	25	.88	14.74
RC112114BIP	1-1/2	1-1/4	12	.88	12.72
RC212BIP	2	1/2	14	1.28	19.86
RC234BIP	2	3/4	14	1.27	21.14
RC21BIP	2	1	14	1.31	20.00
RC2114BIP	2	1-1/4	14	1.43	21.14
RC2112BIP	2	1-1/2	—	1.41	18.48
RC2122BIP	2-1/2	2	20	2.43	47.16

\*Box quantity for ordering convenience only



## REDUCING BUSHING

Connection MPT x FPT

Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	1 (MPT)	2 (FPT)			
RB1418BIP	1/4	1/8	120	.02	4.80
RB3814BIP	3/8	1/4	75	.03	5.28
RB1214BIP	1/2	1/4	60	.06	5.28
RB1238BIP	1/2	3/8	60	.05	5.80
RB3438BIP	3/4	3/8	50	.12	5.68
RB3412BIP	3/4	1/2	50	.10	5.26
RB112BIP	1	1/2	50	.20	5.42
RB134BIP	1	3/4	50	.16	5.42
RB11412BIP	1-1/4	1/2	30	.27	7.78
RB11434BIP	1-1/4	3/4	30	.35	6.98
RB1141BIP	1-1/4	1	30	.28	6.98
RB11212BIP	1-1/2	1/2	25	.34	8.86
RB11234BIP	1-1/2	3/4	25	.37	8.86
RB1121BIP	1-1/2	1	25	.43	7.76
RB112114BIP	1-1/2	1-1/4	25	.31	8.88
RB212BIP	2	1/2	20	.59	13.36
RB21BIP	2	1	20	.59	9.62
RB2114BIP	2	1-1/4	20	.70	10.60
RB2112BIP	2	1-1/2	20	.63	11.80
RB2122BIP	2-1/2	2	15	.84	17.78

## PIPE NIPPLE



## CLOSE

Connection MPT x MPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
CN14BIP	1/4	25	.02	2.80
CN38BIP	3/8	25	.03	2.86
CN12BIP	1/2	25	.05	2.40
CN34BIP	3/4	25	.09	2.76
CN1BIP	1	25	.15	4.04
CN114BIP	1-1/4	5	.20	5.10
CN112BIP	1-1/2	5	.29	6.36
CN2BIP	2	5	.43	8.64



## RUN

Connection MPT x MPT

Assortment of pipe nipples – close through 6" length.

Part No.	Size (In.)	Number of Pieces	Price
12RUN	1/2	11	51.78
34RUN	3/4	11	63.00
1RUN	1	10	84.72

# BLACK IRON PIPE

## PIPE NIPPLE

### RUN

Connection MPT x MPT  
Assortment of pipe nipples 6 each 1-1/2" through 8" in 1/2" increments-66 pieces



Part No.	Size (In.)	Number of Pieces	Price
BN612	1/2	66	272.70
BN634	3/4	66	331.68

### LONG



Part No.	Size (In.)	Length (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
112N18BIP	1/8	1-1/2	25	.03	2.86
2N18BIP	1/8	2	25	.04	2.86
212N18BIP	1/8	2-1/2	25	.05	3.34
3N18BIP	1/8	3	25	.06	3.34
312N18BIP	1/8	3-1/2	25	.07	4.04
4N18BIP	1/8	4	25	.08	4.04
412N18BIP	1/8	4-1/2	25	.09	7.64
5N18BIP	1/8	5	25	.10	7.64
512N18BIP	1/8	5-1/2	25	.11	8.38
6N18BIP	1/8	6	25	.12	8.38
112N14BIP	1/4	1-1/2	25	.04	2.98
2N14BIP	1/4	2	25	.06	2.98
212N14BIP	1/4	2-1/2	25	.08	3.84
3N14BIP	1/4	3	25	.11	3.84
312N14BIP	1/4	3-1/2	25	.13	4.42
4N14BIP	1/4	4	25	.15	4.42
412N14BIP	1/4	4-1/2	25	.16	6.74
512N14BIP	1/4	5-1/2	25	.20	7.94
6N14BIP	1/4	6	25	.22	7.94
112N38BIP	3/8	1-1/2	25	.06	3.26
2N38BIP	3/8	2	25	.09	3.26
212N38BIP	3/8	2-1/2	25	.11	4.18
3N38BIP	3/8	3	25	.14	4.18
312N38BIP	3/8	3-1/2	25	.16	4.90
4N38BIP	3/8	4	25	.19	4.90
412N38BIP	3/8	4-1/2	25	.21	7.08
5N38BIP	3/8	5	25	.24	7.08
512N38BIP	3/8	5-1/2	25	.27	7.86
6N38BIP	3/8	6	25	.29	7.86
112N12BIP	1/2	1-1/2	25	.08	2.40
2N12BIP	1/2	2	25	.11	2.40
212N12BIP	1/2	2-1/2	25	.15	2.86
3N12BIP	1/2	3	25	.18	2.86
312N12BIP	1/2	3-1/2	25	.21	3.42
4N12BIP	1/2	4	25	.25	3.42
412N12BIP	1/2	4-1/2	25	.28	4.04
5N12BIP	1/2	5	25	.31	4.04
512N12BIP	1/2	5-1/2	25	.35	4.50
6N12BIP	1/2	6	25	.38	4.50
8N12BIP	1/2	8	25	.52	8.08
10N12BIP	1/2	10	25	.66	9.72

\*Box quantity for ordering convenience only

## LONG (Cont'd.)

Part No.	Size (In.)	Length (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
12N12BIP	1/2	12	25	.80	11.54
18N12BIP	1/2	18	1	1.20	15.50
24N12BIP	1/2	24	1	1.60	20.22
30N12BIP	1/2	30	1	2.00	23.72
36N12BIP	1/2	36	1	2.40	27.96
48N12BIP	1/2	48	1	3.20	35.36
60N12BIP	1/2	60	1	4.00	42.40
72N12BIP	1/2	72	1	4.80	52.12
112N34BIP	3/4	1-1/2	25	.12	2.98
2N34BIP	3/4	2	25	.14	2.98
212N34BIP	3/4	2-1/2	25	.19	3.36
3N34BIP	3/4	3	25	.24	3.36
312N34BIP	3/4	3-1/2	25	.29	4.18
4N34BIP	3/4	4	25	.34	4.18
412N34BIP	3/4	4-1/2	25	.39	5.24
5N34BIP	3/4	5	25	.44	5.24
512N34BIP	3/4	5-1/2	25	.50	5.94
6N34BIP	3/4	6	25	.55	5.94
8N34BIP	3/4	8	25	.71	9.92
10N34BIP	3/4	10	25	.86	11.52
12N34BIP	3/4	12	25	1.02	12.80
18N34BIP	3/4	18	1	1.57	19.12
24N34BIP	3/4	24	1	2.12	24.50
30N34BIP	3/4	30	1	2.67	28.64
36N34BIP	3/4	36	1	3.22	33.92
48N34BIP	3/4	48	1	4.32	45.16
60N34BIP	3/4	60	1	5.42	55.32
72N34BIP	3/4	72	1	6.52	63.62
2N1BIP	1	2	25	.20	4.40
212N1BIP	1	2-1/2	25	.28	4.66
3N1BIP	1	3	25	.35	4.66
312N1BIP	1	3-1/2	25	.42	5.78
4N1BIP	1	4	25	.47	5.78
412N1BIP	1	4-1/2	25	.55	6.86
5N1BIP	1	5	25	.61	6.86
512N1BIP	1	5-1/2	25	.68	8.10
6N1BIP	1	6	25	.73	8.10
8N1BIP	1	8	10	1.00	13.24
10N1BIP	1	10	10	1.27	15.48
12N1BIP	1	12	10	1.54	17.78
18N1BIP	1	18	1	2.31	24.58
24N1BIP	1	24	1	3.08	32.20
30N1BIP	1	30	1	3.85	37.10
36N1BIP	1	36	1	4.62	44.76
48N1BIP	1	48	1	6.16	58.48
60N1BIP	1	60	1	7.70	73.62
72N1BIP	1	72	1	9.24	86.94
2N114BIP	1-1/4	2	5	.29	5.78
212N114BIP	1-1/4	2-1/2	5	.37	6.14
3N114BIP	1-1/4	3	5	.48	6.14
312N114BIP	1-1/4	3-1/2	5	.57	7.26
4N114BIP	1-1/4	4	5	.66	7.26
412N114BIP	1-1/4	4-1/2	5	.75	8.68
5N114BIP	1-1/4	5	5	.83	8.68
512N114BIP	1-1/4	5-1/2	5	.92	10.30
6N114BIP	1-1/4	6	5	1.01	10.30
8N114BIP	1-1/4	8	5	1.39	16.64
10N114BIP	1-1/4	10	5	1.78	19.94
12N114BIP	1-1/4	12	5	2.16	22.60
18N114BIP	1-1/4	18	1	3.24	31.30
24N114BIP	1-1/4	24	1	4.32	42.20

Continued on next page

## LONG (Cont'd.)

Part No.	Size (In.)	Length (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
30N114BIP	1-1/4	30	1	5.40	49.84
36N114BIP	1-1/4	36	1	6.48	58.74
48N114BIP	1-1/4	48	1	8.64	77.80
60N114BIP	1-1/4	60	1	10.80	96.80
2N112BIP	1-1/2	2	5	.34	6.84
212N112BIP	1-1/2	2-1/2	5	.46	7.64
3N112BIP	1-1/2	3	5	.55	7.64
312N112BIP	1-1/2	3-1/2	5	.66	8.58
4N112BIP	1-1/2	4	5	.78	8.58
412N112BIP	1-1/2	4-1/2	5	.89	10.46
5N112BIP	1-1/2	5	5	1.00	10.46
512N112BIP	1-1/2	5-1/2	5	1.12	12.02
6N112BIP	1-1/2	6	5	1.23	12.02
8N112BIP	1-1/2	8	5	1.65	19.08
10N112BIP	1-1/2	10	5	2.10	22.32
12N112BIP	1-1/2	12	5	2.55	25.70
18N112BIP	1-1/2	18	1	3.83	35.76
24N112BIP	1-1/2	24	1	5.10	25.34
30N112BIP	1-1/2	30	1	6.38	57.44
36N112BIP	1-1/2	36	1	7.65	68.64
48N112BIP	1-1/2	48	1	10.20	85.20
60N112BIP	1-1/2	60	1	12.75	115.78
212N2BIP	2	2-1/2	5	.57	9.92
3N2BIP	2	3	5	.70	9.92
312N2BIP	2	3-1/2	5	.83	11.98
4N2BIP	2	4	5	.97	11.98
412N2BIP	2	4-1/2	5	1.10	13.82
5N2BIP	2	5	5	1.24	13.82
512N2BIP	2	5-1/2	5	1.39	16.18
6N2BIP	2	6	5	1.64	16.18
8N2BIP	2	8	5	2.15	27.12
10N2BIP	2	10	5	2.80	31.90
12N2BIP	2	12	5	3.45	36.70
18N2BIP	2	18	1	5.18	49.84
24N2BIP	2	24	1	6.90	66.00
30N2BIP	2	30	1	8.63	75.86
36N2BIP	2	36	1	10.35	89.36
48N2BIP	2	48	1	13.80	116.78
60N2BIP	2	60	1	17.25	150.20

## 90° ELBOW



Connection FPT x FPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E18BIP	1/8	50	.07	4.14
E14BIP	1/4	35	.11	3.94
E38BIP	3/8	45	.18	3.94
E12BIP	1/2	50	.26	3.26
E34BIP	3/4	35	.38	3.92
E1BIP	1	20	.63	6.90
E114BIP	1-1/4	20	.96	11.18
E112BIP	1-1/2	10	1.31	14.74
E2BIP	2	8	2.05	25.26

## STREET



EF114BIP

Connection FPT x MPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EF18BIP	1/8	60	.07	5.98
EF14BIP	1/4	35	.11	5.98
EF38BIP	3/8	40	.17	5.98
EF12BIP	1/2	60	.24	6.74
EF34BIP	3/4	35	.41	6.58
EF1BIP	1	30	.63	9.44
EF114BIP	1-1/4	25	1.10	14.44
EF112BIP	1-1/2	9	1.47	19.24
EF2BIP	2	10	2.85	31.22

## REDUCING



RE3412BIP

Connection FPT x FPT

Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	FPT	FPT			
RE3412BIP	3/4	1/2	30	.39	5.08
RE134BIP	1	3/4	25	.55	7.14
RE11412BIP	1-1/4	1/2	35	.83	11.14
RE1141BIP	1-1/4	1	10	.87	10.58
RE2112BIP	2	1-1/2	10	1.75	21.24

## 45° ELBOW



E45114BIP

Connection FPT x FPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E4538BIP	3/8	50	.17	5.56
E4512BIP	1/2	50	.22	5.32
E4534BIP	3/4	40	.33	6.48
E451BIP	1	20	.54	8.26
E45114BIP	1-1/4	20	.87	14.44
E45112BIP	1-1/2	10	1.16	17.82
E452BIP	2	12	1.79	26.82

\*Box quantity for ordering convenience only

# BLACK IRON PIPE

## 45 ° ELBOW

### STREET

Connection FPT x MPT



E45F114BIP

Part No.	Size (In.)	Box*		Wt./Ea. (Lbs.)	Price/Ea.
		Qty.			
E45F12BIP	1/2	75		.20	6.92
E45F34BIP	3/4	40		.32	10.66
E45F1BIP	1	25		.52	12.34
E45F114BIP	1-1/4	10		.85	21.40
E45F112BIP	1-1/2	10		1.22	26.56
E45F2BIP	2	12		2.85	44.76

## TEE

Connection FPT x FPT x FPT



T114BIP

Part No.	Size (In.)	Box*		Wt./Ea. (Lbs.)	Price/Ea.
		Qty.			
T18BIP	1/8	80		.09	6.30
T14BIP	1/4	50		.15	5.98
T38BIP	3/8	30		.23	5.98
T12BIP	1/2	40		.36	4.24
T34BIP	3/4	35		.56	6.00
T1BIP	1	20		.92	10.58
T114BIP	1-1/4	14		1.31	17.20
T112BIP	1-1/2	15		1.75	21.40
T2BIP	2	10		2.55	36.34

## REDUCING

Connection FPT x FPT x FPT (Branch)



T343412BIP

Part No.	Size (In.)			Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	FPT	FPT	FPT (BR)			
T121214BIP	1/2	1/2	1/4	—	.33	7.18
T343438BIP	3/4	3/4	3/8	30	.43	8.92
T343412BIP	3/4	3/4	1/2	30	.46	9.26
T1112BIP	1	1	1/2	15	.70	11.78
T1134BIP	1	1	3/4	25	.81	11.78
T1143434BIP	1-1/4	3/4	3/4	10	.90	20.22
T1141141BIP	1-1/4	1-1/4	1	16	1.13	18.74
T1121121BIP	1-1/2	1-1/2	1	13	1.46	19.58
T2114114BIP	2	1-1/4	1-1/4	6	1.88	37.70
T2112112BIP	2	1-1/2	1-1/2	8	2.37	36.96
T22112BIP	2	2	1-1/2	8	2.37	39.24

\*Box quantity for ordering convenience only

## PLUG



P114BIP

Part No.	Size (In.)	Box*		Wt./Ea. (Lbs.)	Price/Ea.
		Qty.			
P18BIP	1/8	300		.03	2.54
P14BIP	1/4	150		.05	2.54
P38BIP	3/8	100		.07	2.54
P12BIP	1/2	50		.09	2.96
P34BIP	3/4	30		.12	2.96
P1BIP	1	20		.21	3.38
P114BIP	1-1/4	40		.32	4.70
P112BIP	1-1/2	30		.45	6.54
P2BIP	2	20		.72	9.34

## CAP



PC34BIP

Part No.	Size (In.)	Box*		Wt./Ea. (Lbs.)	Price/Ea.
		Qty.			
PC18BIP	1/8	120		.03	3.88
PC14BIP	1/4	80		.05	3.88
PC38BIP	3/8	60		.09	3.88
PC12BIP	1/2	75		.12	3.26
PC34BIP	3/4	40		.19	4.40
PC1BIP	1	35		.34	5.32
PC114BIP	1-1/4	25		.67	6.94
PC112BIP	1-1/2	25		.67	9.44
PC2BIP	2	18		1.06	12.34

## UNION

Connection FPT x FPT



U14BIP

Part No.	Size (In.)	Box*		Wt./Ea. (Lbs.)	Price/Ea.
		Qty.			
U14BIP	1/4	20		.17	20.30
U38BIP	3/8	20		.25	13.68
U12BIP	1/2	50		.39	14.38
U34BIP	3/4	30		.56	17.14
U1BIP	1	30		.82	22.40
U114BIP	1-1/4	15		1.28	29.70
U112BIP	1-1/2	10		1.76	36.28
U2BIP	2	6		2.53	54.82

## FLOOR FLANGE



Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
FF114BIP	1-1/4	15	.76	16.06

## COUPLING



Connection FPT x FPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
C12GALV	1/2	60	0.18	5.56
C34GALV	3/4	50	0.29	6.40
C1GALV	1	25	0.46	10.54

## REDUCING



Connection FPT x FPT

Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	FPT	FPT			
RC3412GALV	3/4	1/2	60	0.24	6.48
RC134GALV	1	3/4	25	0.39	10.02

## UNION



Connection FPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
U12GALV	1/2	50	0.39	17.98
U34GALV	3/4	30	0.56	21.32

## NIPPLE



Connection MPT

Part No.	Size (In.)	Length (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
2N12GALV	1/2	2	25	0.11	2.92
3N12GALV	1/2	3	25	0.18	3.42
4N12GALV	1/2	4	25	0.25	4.24
5N12GALV	1/2	5	25	0.31	5.10
6N12GALV	1/2	6	25	0.38	5.78
8N12GALV	1/2	8	25	0.52	10.16
10N12GALV	1/2	10	25	0.66	12.08
12N12GALV	1/2	12	1	0.80	13.74
2N34GALV	3/4	2	25	0.14	3.66
3N34GALV	3/4	3	25	0.24	4.04
4N34GALV	3/4	4	25	0.34	5.24
5N34GALV	3/4	5	25	0.44	6.24
6N34GALV	3/4	6	25	0.55	7.50
2N1GALV	1	2	25	0.20	5.44

## CLOSE



Connection MPT

Part No.	Size (In.)	Qty.	Wt./Ea. (Lbs.)	Price/Ea.
CN12GALV	1/2	25	0.06	2.76
CN34GALV	3/4	25	0.08	3.36

## RUN

Connection MPT

Assortment of pipe nipples 6 each 1-1/2" through 8" in 1/2" increments-66 pieces

Part No.	Size (In.)	Weight (Lbs.)	Price
BN612GALV	1/2	15.9	338.78
BN634GALV	3/4	20.4	414.92

## TEE



Connection FPT

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
T12GALV	1/2	40	0.36	4.76
T34GALV	3/4	35	0.56	8.02

**90° ELBOW**



Connection FPT x FPT

E34GALV

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E12GALV	1/2	30	0.26	<b>3.92</b>
E3412GALV	3/4 x 1/2	30	0.39	<b>8.00</b>
E34GALV	3/4	35	0.38	<b>4.72</b>



**STREET**

Connection FPT x MPT

EF34GALV

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EF12GALV	1/2	60	0.24	<b>8.42</b>
EF34GALV	3/4	35	0.41	<b>8.16</b>

**PLUG**



Connection MPT

P34GALV

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
P12GALV	1/2	50	0.09	<b>5.70</b>
P34GALV	3/4	30	0.12	<b>5.70</b>

**CAP**



Connection FPT

PC34GALV

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
PC12GALV	1/2	75	0.12	<b>4.10</b>
PC34GALV	3/4	40	0.19	<b>5.92</b>

**PVC TUBING**



12PVC40

**PVC SCHEDULE 40**

Standard length 20 ft. If operating temperature is above 73°F, working pressure must be de-rated. Not recommended for use in compressed air or gas systems. Handles commercial and industrial applications

in which metal pipe will not withstand the reactive effects of chemicals or other corrosive materials. Light weight facilitates installation with conventional tools and piping techniques. Manufactured in U.S.A. to ASTM material and dimensional standards. Schedule 40 PVC and Schedule 40 and 80 CPVC meet material standard ASTM D-1784. Schedule 40 PVC meets dimensional standard ASTM D-1785 and Schedule 40 and 80 CPVC meet dimensional standard ASTM F-441. NSF certified for potable water service to standard 14/61.

Part No.	Nom.		Min. Wall		Nominal	
	Pipe Size (In.)	Outside Dia. (In.)	Thickness (In.)	Max. W.P. PSI @ 73°F	Wt. Lbs./Ft.	Price/Ft.
12PVC40	1/2	0.840	0.109	600	0.162	<b>0.56</b>
34PVC40	3/4	1.050	0.113	480	0.219	<b>0.84</b>
1PVC40	1	1.315	0.133	450	0.320	<b>1.30</b>
114PVC40	1-1/4	1.660	0.140	370	0.431	<b>1.58</b>
112PVC40	1-1/2	1.900	0.145	330	0.519	<b>1.72</b>
2PVC40	2	2.375	0.154	280	0.693	<b>2.66</b>
212PVC40	2-1/2	2.875	0.203	300	1.133	<b>4.04</b>
3PVC40	3	3.500	0.216	260	1.455	<b>5.36</b>
4PVC40	4	4.500	0.237	220	2.050	<b>5.78</b>
6PVC40	6	6.625	0.280	180	3.615	<b>11.26</b>
8PVC40	8	8.625	0.322	160	5.436	<b>16.30</b>

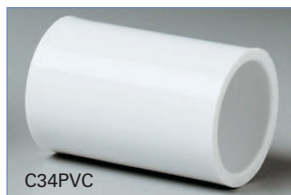
**PVC SCHEDULE 21**

PVC SDR Series pipe shall be manufactured in strict accordance to the requirements of ASTM D2241 for physical dimensions and tolerances. This pipe shall be produced in IPS diameters to either: SDR 21 (3/4"–8" sizes 200 psi @ 73F). All belled end pipe shall have tapered sockets to create an interference type fit, which shall meet or exceed dimensional requirements and the minimum socket length for pressure-type belled sockets as defined in ASTM D2672. NSF approved for potable water service

Part No.	Nom.		Min. Wall		Nominal	
	Pipe Size (In.)	Outside Dia. (In.)	Thickness (In.)	Max. W.P. PSI @ 73°F	Wt. Lbs./Ft.	Price/Ft.
34PVC21	3/4	1.05	0.060	200	0.13	<b>0.56</b>

\*Box quantity for ordering convenience only

## COUPLING



### SLIP

Connection Slip x Slip

Part No.	Size (In.)	Box*	Wt./Ea.	Price/Ea.
		Qty.	(Lbs.)	
C12PVC	1/2	100	0.045	0.38
C34PVC	3/4	50	0.065	0.54
C1PVC	1	50	0.095	0.94
C114PVC	1-1/4	25	0.135	1.28
C112PVC	1-1/2	25	0.170	1.36
C2PVC	2	25	0.230	2.10
C3PVC	3	10	0.645	7.30
C4PVC	4	5	1.060	10.50
C6PVC	6	5	2.230	33.24



### REDUCING BUSHING

Connection SPG x Slip

Part No.	Size (In.)		Box*	Wt./Ea.	Price/Ea.
	SPG	SLIP	Qty.	(Lbs.)	
RB3412PVC	3/4	1/2	100	0.035	0.62
RB112PVC	1	1/2	100	0.075	1.12
RB134PVC	1	3/4	100	0.060	1.12
RB11412PVC	1-1/4	1/2	25	0.140	1.50
RB11434PVC	1-1/4	3/4	25	0.125	1.50
RB1141PVC	1-1/4	1	25	0.100	1.50
RB11212PVC	1-1/2	1/2	25	0.170	1.58
RB11234PVC	1-1/2	3/4	25	0.175	1.58
RB1121PVC	1-1/2	1	25	0.150	1.58
RB112114PVC	1-1/2	1-1/4	25	0.100	1.58
RB212PVC	2	1/2	10	0.240	2.64
RB234PVC	2	3/4	10	0.260	2.64
RB21PVC	2	1	10	0.285	2.64
RB2114PVC	2	1-1/4	10	0.245	2.64
RB2112PVC	2	1-1/2	10	0.200	2.64
RB212114PVC	2-1/2	1-1/4	10	0.260	4.20
RB2122PVC	2-1/2	2	10	0.285	4.22
RB32PVC	3	2	10	0.595	6.22
RB3212PVC	3	2-1/2	10	0.425	6.22

## ADAPTER



### FEMALE

Connection Slip x FPT

Part No.	Size (In.)		Box*	Wt./Ea.	Price/Ea.
	SLIP	FPT	Qty.	(Lbs.)	
AF12PVC	1/2	1/2	100	0.045	0.64
AF34PVC	3/4	3/4	50	0.065	0.82
AF3412PVC	3/4	1/2	50	0.070	1.18
AF1PVC	1	1	50	0.080	0.98
AF114PVC	1-1/4	1-1/4	25	0.110	1.50
AF112PVC	1-1/2	1-1/2	25	0.155	1.72
AF2PVC	2	2	25	0.225	2.30
AF212PVC	2-1/2	2-1/2	10	0.450	5.84
AF3PVC	3	3	10	0.605	7.86
AF4PVC	4	4	5	0.895	13.04



### MALE

Connection Slip x MPT

Part No.	Size (In.)		Box*	Wt./Ea.	Price/Ea.
	MPT	SLIP	Qty.	(Lbs.)	
AM12PVC	1/2	1/2	100	0.045	0.54
AM1234PVC	1/2	3/4	50	0.060	1.08
AM3412PVC	3/4	1/2	50	0.050	0.98
AM34PVC	3/4	3/4	50	0.055	0.60
AM341PVC	3/4	1	50	0.090	1.50
AM134PVC	1	3/4	50	0.080	3.22
AM1PVC	1	1	50	0.100	1.08
AM114PVC	1-1/4	1-1/4	25	0.150	1.30
AM1141PVC	1-1/4	1	25	0.130	3.98
AM112PVC	1-1/2	1-1/2	25	0.190	1.72
AM2112PVC	2	1-1/2	10	0.250	5.46
AM2PVC	2	2	25	0.285	2.26
AM212PVC	2-1/2	2-1/2	10	0.415	6.66
AM3PVC	3	3	10	0.680	9.74

\*Box quantity for ordering convenience only

# PVC FITTING

## 90° ELBOW

### SLIP

Connection Slip x Slip



E34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E12PVC	1/2	50	0.065	0.60
E34PVC	3/4	50	0.085	0.64
E1PVC	1	50	0.140	1.18
E114PVC	1-1/4	25	0.260	2.10
E112PVC	1-1/2	25	0.325	2.24
E2PVC	2	25	0.510	3.54
E3PVC	3	10	1.140	12.82
E4PVC	4	5	1.885	22.92
E6PVC	6	4	4.550	72.86

### STREET

Connection SPG x Slip



EF34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EF12PVC	1/2	50	0.070	1.66
EF34PVC	3/4	50	0.080	2.04
EF1PVC	1	50	0.120	3.54
EF114PVC	1-1/4	25	0.275	4.20
EF112PVC	1-1/2	25	0.330	4.64
EF2PVC	2	10	0.515	9.04

### FEMALE PIPE

Connection Slip x FPT



EFPT34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EFPT12PVC	1/2	50	0.085	0.72
EFPT34PVC	3/4	50	0.130	0.84
EFPT1PVC	1	50	0.155	1.58
EFPT114PVC	1-1/4	25	0.230	2.64
EFPT112PVC	1-1/2	25	0.320	2.80

## STREET, MALE PIPE

Connection Slip x MPT



EMPT34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EMPT12PVC	1/2	50	0.042	1.28
EMPT34PVC	3/4	50	0.061	1.50
EMPT1PVC	1	50	0.110	2.54
EMPT114PVC	1-1/4	25	0.285	3.54
EMPT112PVC	1-1/2	25	0.335	3.66
EMPT2PVC	2	10	0.525	9.04

## 45° ELBOW

Connection Slip x Slip



E4534PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E4512PVC	1/2	50	0.050	0.98
E4534PVC	3/4	50	0.075	1.50
E451PVC	1	50	0.115	1.80
E45114PVC	1-1/4	25	0.170	2.54
E45112PVC	1-1/2	25	0.220	3.16
E452PVC	2	25	0.305	4.10
E453PVC	3	10	0.820	16.64
E454PVC	4	5	1.330	29.86
E456PVC	6	4	4.475	40.64

## TEE



T12PVC



0348



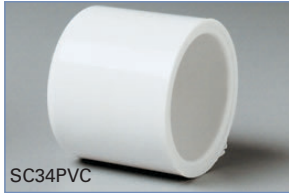
Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
T12PVC	1/2	50	0.080	0.72
T34PVC	3/4	50	0.110	0.82
0348 <sup>1</sup>	3/4	25	0.250	5.98
T1PVC	1	50	0.190	1.58
T114PVC	1-1/4	25	0.385	2.46
T112PVC	1-1/2	25	0.500	2.98
T2PVC	2	25	0.775	4.34
T212PVC	2-1/2	10	1.010	14.30
T3PVC	3	10	1.435	18.80
T4PVC	4	5	2.240	34.00

<sup>1</sup>SLIP x FPT (PLUG) x Slip

\*Box quantity for ordering convenience only



## CAP



### SLIP

Connection Slip

SC34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
SC12PVC	1/2	100	0.030	0.54
SC34PVC	3/4	100	0.040	0.62
SC1PVC	1	50	0.070	0.98
SC114PVC	1-1/4	25	0.105	1.36
SC112PVC	1-1/2	25	0.125	1.50
SC2PVC	2	25	0.190	1.80
SCAP3PVC	3	10	0.535	6.30



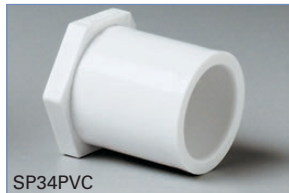
### THREADED

Connection FPT

TCAP34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
TCAP12PVC	1/2	100	0.050	1.12
TCAP34PVC	3/4	100	0.065	1.30
TCAP1PVC	1	50	0.115	1.94

## PLUG



### SLIP

Connection SPG

SP34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
SP12PVC	1/2	50	0.028	1.30
SP34PVC	3/4	50	0.040	1.50
SP1PVC	1	50	0.070	1.80
SP114PVC	1-1/4	25	0.116	2.42
SP112PVC	1-1/2	25	0.167	3.08



### THREADED

Connection MPT

P34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
P12PVC	1/2	50	0.020	1.58
P34PVC	3/4	50	0.030	1.70
P1PVC	1	50	0.070	2.78
P114PVC	1-1/4	25	0.110	2.92
P112PVC	1-1/2	25	0.160	3.16
P2PVC	2	10	0.220	4.06
P212PVC	2 1/2	10	0.240	5.28

## TRAP



### P

Connection SPG x SPG

PT34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
PT34PVC	3/4	50	0.225	4.42
PT1PVC	1	10	0.330	7.06



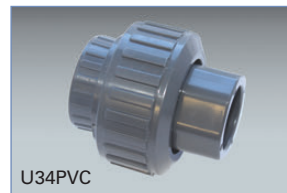
### RUN

Connection SPG x SPG

RPT34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
RT34PVC	3/4	50	0.225	5.52
RT1PVC	1	10	0.250	5.26

## UNION



Connection Slip x Slip  
Schedule 80

U34PVC

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
U12PVC	1/2	10	0.155	11.32
U34PVC	3/4	10	0.230	14.44
U1PVC	1	10	0.325	16.50
U114PVC	1-1/4	5	0.475	32.64

\*Box quantity for ordering convenience only

# PVC FITTING

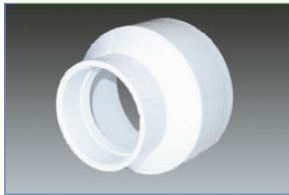
## COUPLING, DWV



### COUPLING

Connection Slip x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
C114PVCDWV	1-1/4	100	0.075	14.84
C112PVCDWV	1-1/2	100	0.090	1.88
C2PVCDWV	2	100	0.119	1.26
C3PVCDWV	3	50	0.466	4.32



### REDUCING

Connection Slip x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
RC32PVCDWV	3 x 2	50	0.397	6.38

### REDUCING BUSHING

Connection SPG x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
RB32DWV	3 x 2	30	0.373	3.74

## 90° ELBOW, DWV



### SLIP

Connection Slip x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E114PVCDWV	1 1/4	50	0.184	6.32
E112PVCDWV	1 1/2	100	0.204	2.14
E2PVCDWV	2	50	0.331	3.08
E3PVCDWV	3	25	1.008	9.60

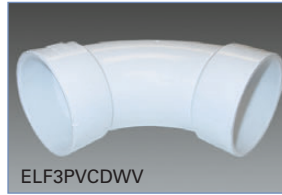


### FITTING

Connection SPG x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EF114PVCDWV	1 1/4	50	0.164	7.62
EF112PVCDWV	1 1/2	100	0.200	2.58
EF2PVCDWV	2	50	0.313	3.98
EF3PVCDWV	3	20	0.993	9.86

\*Box quantity for ordering convenience only



### LONG RADIUS

Connection Slip x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
EL2PVCDWV	2	50	0.409	4.90
EL3PVCDWV	3	25	1.268	11.94



### FITTING, LONG RADIUS

Connection SPG x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
ELF3PVCDWV	3	20	1.138	20.98

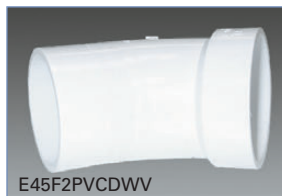
## 45° ELBOW, DWV



### SLIP

Connection Slip x Slip

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E452PVCDWV	2	50	0.281	2.96
E453PVCDWV	3	20	0.842	8.12



### FITTING

Connection Spg x Slip

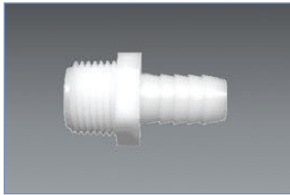
Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
E45F114PVCDWV	1 1/4	50	0.136	5.04
E45F112PVCDWV	1 1/2	100	0.174	1.96
E45F2PVCDWV	2	50	0.277	2.98
E45F3PVCDWV	3	20	0.818	7.36

## TEE, DWV



Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
T114PVCDWV	1 1/4	100	0.234	17.32
T112PVCDWV	1 1/2	100	0.294	3.42
T2PVCDWV	2	35	0.435	5.02
T3PVCDWV	3	20	1.399	11.74

## BARBED

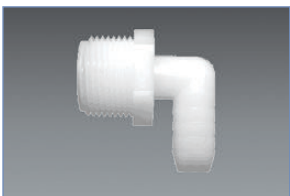


### HALF UNION

MPT x Barb



Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Vendor	Price/Ea.
	MPT	Barb				
701-012	1/2	3/8	100	0.03	Diversitech	2.62
701-043	3/4	3/8	100	0.03	Diversitech	3.04
73207	3/4	1/2	100	0.03	MARS	6.68
701-028	3/4	5/8	100	0.03	Diversitech	4.10



### HALF UNION ELBOW, MALE

MPT x Barb



Part No.	Size (In.)		Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
	MPT	Barb			
701-020	3/4	1/2	100	0.027	3.88
701-014	3/4	5/8	100	0.03	4.10



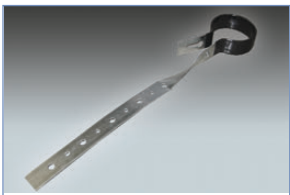
### UNION ELBOW

Barb x Barb



Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
701-034	1/2	100	0.02	4.12
701-040	5/8	100	0.02	4.50

## PIPE HANGER



### METAL

Plastic coated metal strap for hanging DWV and other tubing

Part No.	Tube Size (In.)	Price/Ea
2DWWH	2	9.16
3DWWH	3	10.18



### PLASTIC

Swiveling J-Hook, 7 1/2" long



Part No.	Tube Size (In.)	Price/Ea
515J2000	2	2.24
515J3000	3	2.70

## VINYL TUBING



14VT



Part No.	ID (In.)	Roll Length (Ft.)	Price/Ft.
14VT	1/4	100	0.22
38VT	3/8	100	0.23
12VT	1/2	100	0.40
58VT	5/8	100	0.50
34VT	3/4	100	0.67
78VT	7/8	50	1.24
1VT	1	25	2.42

## SOLVENT



1/2CEMENT

### LIGHT DUTY CEMENT

Cement for PVC and PVC/DBS transitions

- Clear color
- Maximum pipe size: 2' pressure Sch 40, 4' DWV Sch 40

- Regular body, fast set
- With dauber top



Part No.	Container Size	Case* Qty.	Price/Ea.
1/4CEMENT	1/4 Pint	24	5.40
1/2CEMENT	1/2 Pint	24	7.34
CEMENT	Pint	12	11.30
CEMENTQT	Quart	12	19.66



### HOT™ 203L, LOW VOC CEMENT

Medium body cement specifically formulated to give an extremely fast drying solvent weld. It is ideal for irrigation, plumbing, pool and spa applications. Max VOC per SCAQMD

1168/316A or BAAQMD Method 40: 510 g/l.

- Blue color helps assure full coverage during application
- For use on all rigid PVC classes up to and including 6" Schedule 40 and 1 1/4" Schedule 80. Also may be used on flexible PVC hose with rigid fittings or hose-to-hose insertion-type connections.
- Rapid evaporation reduces puddling of solvent cement that could weaken inner pipe wall
- LEED Compliant



Part No.	Container Size	Case* Qty.	Price/Ea.
RS55989	1/2 Pint	24	11.60

# ACCESS FITTINGS

## SOLVENT



### SAM™ CL-3L, LOW-VOC PVC, CPVC, ABS CLEANER

Sam™ CL-3L is a clear cleaner for use on all PVC, CPVC and ABS pipe, tubing, and socket-type fittings. Max VOC per SCAQMD 1168/316A or BAAQMD Method 40: 550 g/l.

- Safe for use on potable water systems
- LEED compliant



Part No.	Container Size	Case* Qty.	Price/Ea.
RS55930	1/2 Pint	12	8.86



### PRIMER, STANDARD

Primer for PVC and CPVC plastic pipe

- Clear color
- With dauber top



Part No.	Container Size	Case* Qty.	Price/Ea.
PRIMER	Pint	12	14.56



### PRIMER, HIGH ETCH

Hi-Etch primer for PVC and CPVC

- Purple color
- With dauber top



Part No.	Container Size	Case* Qty.	Price/Ea.
1/2PRIMER	1/2 Pint	24	7.26
PRIMERP	Pint	12	11.90
PRIMERQT	Quart	12	20.24

## ACCESS FITTING



### EXTENSION TUBE

- Use flux free phos-copper-solder
- Extension length approximately 2"
- Use with copper fitting
- Install through side of larger line



Part No.	Slip Fit (In.)	Pkg. Qty.	Price
A31002	1/8 OD	5	15.36
A31003	3/16 OD x 1/8 ID	5	15.36
A31004	1/4 OD x 3/16 ID	5	15.80
A31005	5/16 OD x 1/4 ID	5	16.00
A31006	3/8 OD x 5/16 ID	5	16.00
A31008	1/2 OD	5	36.94



### MULTI STEP EXTENSION

- 1/8" OD, 3/16", 1/4", 5/16" ODF body steps



Part No.	Description	Pkg. Qty.	Price
A31009	Multi Step Tube Extension	5	25.28



### MULTI STEP STUB



Part No.	Slip Fit (In.)	Pkg. Qty.	Price
A31720	3/16 ODS x (3/8,1/4) ODF	5	17.50
A31729	3/16,1/4,5/16,1/2 ODF	3	19.22

### MULTI STEP STUB



Part No.	Slip Fit (In.)	Pkg. Qty.	Price
1000036	3/16 ODS x (3/8,1/4) ODF	5	16.34



### STUB TUBE



Part No.	Slip Fit (In.)	Pkg. Qty.	Price
A31722	1/8 ODS x 1/4 ODF	3	13.98
A31723	3/16 ODS x 1/4 ODF	3	14.44
A31724	1/4 ODS x 3/8 ODF	3	10.80
A31725	5/16 ODS x 1/2 ODF	3	13.60
A31726	3/8 ODS x 1/2 ODF	3	13.60
A31728	1/2 ODS x 5/8 ODF	3	26.30

### STUB TUBE



Part No.	Slip Fit (In.)	Pkg. Qty.	Price
1000039	3/16 ODS x 1/4 ODF	3	13.62
1000040	1/4 ODS x 3/8 ODF	3	10.86



### SOLDER TEE



Part No.	Slip Fit (In.)	Overall Length (In.)	Pkg. Qty.	Price
A31134	1/4 ODS x 5/16 ODF	2 1/8	3	16.40
A31135	5/16 ODS x 3/8 ODF	2 1/8	3	17.24
A31136	3/8 ODS x 1/2 ODF	2 1/8	3	17.24
A31138	1/2 ODS	2 1/8	3	20.76
A31140	5/8 ODS	2 1/2	1	13.80
A31142	3/4 ODS	3	1	14.64
A31144	7/8 ODS	3 1/2	1	18.04
A31148	1 1/8 ODS	3 13/16	1	27.62



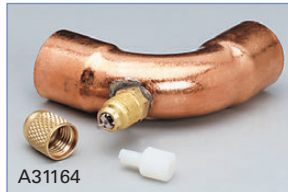
## SOLDER UNION TEE

- Connection: ODF x ODS

A31202



Part No.	Tube Size (In.)	Pkg. Qty.	Price
A31200	3/8	2	25.90
A31201	1/2	2	35.00
A31202	5/8	2	41.02
A31204	7/8	2	44.72



## SOLDER 90° ELBOW

A31164



Part No.	Slip Fit (In.)	Pkg. Qty.	Price
A31160	5/8 ODS	1	32.12
A31162	3/4 ODS	1	32.78
A31164	7/8 ODS	1	34.54
A31168	1 1/8 ODS	1	42.50



## SWIVEL TEE - DEPRESSOR

- 1/4" M flare access x 1/4" M flare x 1/4" female flare swivel connection with depressor in female connection

A31851



Part No.	Description	Pkg. Qty.	Price
A31851	Female Swivel on Run	3	28.66
A31852	Female Swivel on Branch	3	28.66

## SWIVEL TEE - DEPRESSOR



Part No.	Description	Pkg. Qty.	Price
1000049	Female Swivel on Run	3	25.20
1000050	Female Swivel on Branch	3	25.20



## SWIVEL TEE - 1/4" FLARE

- 1/4" M flare access x 1/4" M flare x 1/4" female flare swivel – no depressor

A31854



Part No.	Description	Pkg. Qty.	Price
A31854	Female Swivel on Branch	3	28.24
A31864	Female Swivel on Run	3	28.24

## SWIVEL TEE - 1/4" FLARE



Part No.	Description	Pkg. Qty.	Price
1000052	Female Swivel on Branch	3	25.20
1000054	Female Swivel on Run	3	25.20



## SWIVEL TEE - 3/8" FLARE

- 3/8" female flare swivel x 3/8" M flare x 1/4" M flare access



Part No.	Description	Pkg. Qty.	Price
A31853	Female Swivel on Run	1	31.84



## PIPE THREAD TEE

- 1/4" M flare access x 1/4" M flare x pipe thread

A31512



Part No.	Pipe Thread (In.)	Pkg. Qty.	Price
A31452	1/8 MPT on Branch	3	29.16
A31454	1/4 MPT on Branch	3	36.48
A31512	1/8 MPT on Run	3	28.24
A31514	1/4 MPT on Run	3	31.84

## PIPE THREAD TEE



Part No.	Pipe Thread (In.)	Pkg. Qty.	Price
1000027	1/8 MPT on Branch	3	27.66
1000033	1/8 MPT on Run	3	26.46
1000034	1/4 MPT on Run	3	29.88



## PIPE THREAD CROSS

- 1/4" M flare access x 1/4" M flare x 1/4" M flare x 1/4" MPT



Part No.	Description	Price
A31522	Cross	29.72



## HALF UNION

- 1/4" M flare access x MPT

A31482



Part No.	Pipe Thread (In.)	Pkg. Qty.	Price
A31482	1/8 MPT	5	13.90
A31484	1/4 MPT	5	15.56
A31492	1/8 MPT, 90°	3	25.84

## HALF UNION



Part No.	Pipe Thread (In.)	Pkg. Qty.	Price
1000029	1/8 MPT	5	13.30
1000030	1/4 MPT	5	14.90
1000031	1/8 MPT, 90°	3	24.58

# ACCESS FITTINGS

## ACCESS FITTING



### FEMALE FLARE

- 1/4" M flare access x 1/4" fem flare

A31614



Part No.	Description	Pkg. Qty.	Price
A31614	1/4" Fem Flare Union/Copper Gasket	5	48.78
A31734	1/4" Fem Flare Swivel with Depressor	3	31.10
A33004	Access Coupler with Depressor	1	12.68

### FEMALE FLARE



Part No.	Description	Pkg. Qty.	Price
1000047	1/4" Fem Flare Union/Copper Gasket	5	43.28



### MALE FLARE

A31424



Part No.	Description	Pkg. Qty.	Price
A31424	1/4" Flare Union with Nut	3	23.06
A31444	1/4" M Flare "T" with Nut	3	38.88



### BULKHEAD FITTING

- 1/4" M flare access x 1/4" M flare – 1/4" MPT

A31434



Part No.	Description	Price
A31434	Access x 1/4" M Flare with Nut	26.30
A31727	Access x ( 3/16", 1/4") ODS	21.38

### BULKHEAD FITTING



Part No.	Description	Price
1000025	Access x 1/4" M Flare with Nut	24.62



### BRAZE-ON SADDLE

A32908



Part No.	Tube Size (In.)	Pkg. Qty.	Price
A32904	1/4	5	35.44
A32905	5/16	5	35.44
A32906	3/8	5	37.14
A32908	1/2	3	24.54
A32910	5/8	3	36.56
A32912	3/4	2	42.60
A32914	7/8	2	47.34

## ACCESSORIES



A31999



Part No.	Description	Pkg. Qty.	Price
A31992	Plastic Cap with Retainer Strap	5	10.10
A31999	Valve Core	5	5.20



CTE14



## EXTENSION TUBE

Part No	Slip Fit OD (In.)	Pkg. Qty.	Price
CTE18	1/8	5	13.52
CTE316	3/16	5	13.52
CTE14	1/4	5	13.88
CTE516	5/16	5	14.08
CTE38	3/8	5	14.08
CTE12	1/2	3	35.08
100-0070	1/4	50	265.28



CBT58



## SOLDER TEE

Part No.	Slip Fit OD (In.)	Pkg. Qty.	Price
CBT14	1/4	3	15.42
CBT516	5/16	3	16.14
CBT38	3/8	3	16.14
CBT12	1/2	3	19.34
CBT58	5/8	1	10.40
CBT34	3/4	1	11.58
CBT78	7/8	1	12.52
CBT118	1 1/8	1	25.96

## CLAMP-ON LINE TAP



LT6G

Used to provide access fitting to be used with CV Gold Seal™ swivel control valves.

Use with control valve CV1G, CV2G, CV3G

- Special compound seal eliminates leakage
- Very little space required



Part No.	Tubing Size OD (In.)	Price
LT3G	3/16	3.30
LT5G	5/16	1.66
LT6G	3/8	9.96



## LINE PIERCING VALVE

The spring loaded needle automatically back-seats, forming a leak proof seal. Both models fit 1/4", 5/16", 3/8", 1/2" and 5/8" OD tubing.



Part No.	Description	Price
LT456	1/4" - 3/8" Line Piercing Valve	14.80
LT810	1/2" - 5/8" Line Piercing Valve	17.02



## CORE DEPRESSOR



Part No.	Description	Price
A33500	1/4" Thumbscrew Core Depressor	21.12



## EZ TAPPER PIERCING VALVE

The back-seating stem eliminates line restriction when servicing through access port or use the valve for flow control.



Part No.	Description	Price
EZ40288	E-Z Tapper Piercing Valve	49.32



## CLAMP-ON VALVE

- Celcon T handle for secure grip



Part No.	Tubing Size OD (In.)	Price
AP1	3/16, 1/4, 5/16, 3/8	25.84
AP2	3/8, 1/2, 5/8	36.50



## BULLET® PIERCING VALVE

- Patented valve gasket application provides 50 times more sealing area than competitive "O" ring types
- A sealing force of over 180 inch lbs., torque tested with 500 lbs., pressure tested at 250°F



Part No.	Tubing Size (OD In.)	Case Qty.	Price/Ea.
BPV31 <sup>1</sup>	1/4, 5/16, 3/8	12	5.50
BPV21 <sup>1</sup>	1/2, 5/8	8	6.64
BPV14	1/4	12	7.16
BPV56	5/16	12	6.84
BPV38	3/8	12	6.84
BPV12	1/2	8	7.00
BPV34	3/4	1	25.66

<sup>1</sup>Furnished with adapter sleeves to use with indicated sizes



## LINE TAP VALVE

- Can be mounted in any position
- Adapter sleeves included



Part No.	Tubing Size OD (In.)	Price
QTM1	1/4, 5/16, 3/8	5.96
QTM2	1/2, 5/8	6.46

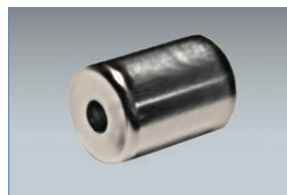


## NO VENT CAP

- Prevent excessive energy usage due to refrigerant loss
- Help prevent illegal venting of refrigerant
- Help prevent accidental mixing of refrigerant
- Deter refrigerant theft at unsecured sites
- Reduce potential liability for inhalation induced injury or death
- Corrosion resistant
- Integral neoprene O-ring resists all oils
- Integral torque limiter prevents overtightening



Part No.	Description	Price
NGR222	Green Cap, R22, 1/4", pkg of 2	30.24
NPR4102	Pink Cap, R410A, 1/4", pkg of 2	30.24
NPER4102	Pink Cap, R410A, 5/16", pkg of 2	36.54
NSUNI2	Silver Cap, Universal, 1/4", pkg of 2	30.24
NGR22SDT	Screwdriver key, R22 (green) and silver	28.74
NPR410SDT	Screwdriver key, R410A (pink) and Eurocap	28.74
NVMULTIKEY	Multi Key, Fits All Caps	22.70



## REFRIGERANT SAFETY CAP

- Locks in place to prevent refrigerant loss
- Helps prevent unauthorized access
- Reduces potential liability for inhalation induced injury or death
- Deters refrigerant theft



Part No.	Description	Price
CD22902	1/4" MFL Locking Cap, 2 Pack	25.66
CD22910	1/4" MFL Locking Cap, 10 Pack	118.34
CD229050	1/4" MFL Locking Cap, 50 Pack	512.76

# TUBE HANGERS

## INSULATED PIPE HANGERS



Armaflex Insulation pipe hangers are quick, innovative alternatives to traditional block and dowel pipe supports. These self-adhering, foam to foam hangers provide optimum load bearing while protecting against thickness compression and condensation gaps that can compromise system integrity.

- Insulation only—requires clevis or saddle hanger for complete system
- CFC-free PUR/PIR load bearing segments embedded in Armacell tubular product. Outer shell 30 mils painted aluminum
- Single piece construction
- Thermal conductivity and resistance to moisture vapor flow
- Closed cell for system integrity
- Quick, easy 3-step installation
- Available to 8" IPS diameters

### 1/2" WALL THICKNESS



Part No.	Tubing Dia. OD (In.)	IPS (In.)	Assembly OD (In.)	Assembly Length (In.)	Box Qty.	Price/Ea.
IPH01212	1/2	1/4	—	—	32	5.10
IPH05812	5/8	3/8	—	—	32	4.70
IPH07812	7/8, 3/4	1/2	1.85	1.77	32	5.72
IPH11812	1 1/8	3/4	2.13	1.77	32	5.30
IPH13812	1 3/8	1	2.44	1.97	28	6.54

### 3/4" WALL THICKNESS



Part No.	Tubing Dia. OD (In.)	IPS (In.)	Assembly OD (In.)	Assembly Length (In.)	Box Qty.	Price/Ea.
IPH03834	3/8	—	1.81	2.17	28	6.26
IPH01234	1/2	1/4	1.89	2.17	28	6.36
IPH05834	5/8	3/8	2.05	2.17	28	6.44
IPH07834	7/8, 3/4	1/2	2.32	2.17	28	6.80
IPH11834	1 1/8	3/4	2.76	2.17	24	7.08
IPH13834	1 3/8	1	3.19	2.56	24	9.02
IPH15834	1 5/8	1 1/4	3.35	2.56	24	9.04
IPH21834	2 1/8	—	3.86	2.56	24	10.38
IPH25834	2 5/8	—	4.57	2.95	20	12.98
IPH31834	3 1/8	—	5.00	3.35	16	15.34
IPH41834	4 1/8	3 1/2	6.15	3.94	12	22.06

### 1" WALL THICKNESS



Part No.	Tubing Dia. OD (In.)	IPS (In.)	Assembly OD (In.)	Assembly Length (In.)	Box Qty.	Price/Ea.
IPH05810	5/8	3/8	2.54	2.17	28	8.90
IPH07810	7/8, 3/4	1/2	2.82	2.17	28	9.32
IPH11810	1 1/8	3/4	3.06	2.17	28	10.04
IPH13810	1 3/8	1	3.33	2.56	24	12.52
IPH15810	1 5/8	1 1/4	3.65	2.56	24	12.94
IPH21810	2 1/8	—	4.16	2.56	24	15.26
IPH25810	2 5/8	—	4.87	2.95	20	24.64
IPH31810	3 1/8	—	5.14	3.35	16	27.22
IPH41810	4 1/8	3 1/2	6.48	3.94	12	37.90
IPH60010	6	6	—	—	3	126.58



## KLO-SHURE COUPLINGS

The Klo-Shure® insulation coupling reduces the time required to insulate copper tubing used for refrigerant lines, hot and cold water plumbing, and chilled water systems. The patented coupling allows sections of closed-cell,

elastomeric insulation to be secured at suspension points. This eliminates having to double wrap, glue, and tape insulation at clevis hangers and strut mounted clamps. It can also be used to simply secure two lengths of insulation.

They can be slit open to facilitate installation, and secured with the provided metal clip. They also can be used unopened by sliding the coupling over tubing as it is installed. No special tools, glue, or tape are required. Recommended for pipe fitters to support and level tubing during installation. This allows insulation to be secured in seconds.

These part numbers include Klo-Shure® coupling, clamp halves with welded fastener and locknut.

- Complete, superior vapor barrier at suspension point without gluing and taping
- Dramatically improves finished physical appearance of insulated tube runs
- Eliminates insulation compression at suspension points
- Faster installation, lower labor and material costs.
- No messy adhesives, taping, insulation bulges

### 1/2" WALL THICKNESS



Part No	For Tubing OD (In.)	Ship Wgt. (Lbs.)	Price
724025	1/4	0.350	5.16
724037	3/8	0.400	5.26
724050	1/2	0.439	5.78
724062	5/8	0.460	6.24
724075	3/4	0.500	7.02
724087	7/8	0.499	7.42
724112	1 1/8	0.516	8.32
724137	1 3/8	0.576	11.58
724162	1 5/8	0.634	12.48
724212	2 1/8	0.731	16.38
724262	2 5/8	0.786	21.84
724312	3 1/8	0.860	22.76
724412	4 1/8	1.050	41.28

### 3/4" WALL THICKNESS



Part No	For Tubing OD (In.)	Ship Wgt. (Lbs.)	Price
726025	1/4	0.400	7.04
726037	3/8	0.400	7.40
726050	1/2	0.413	7.80
726062	5/8	0.516	8.32
726075	3/4	0.450	9.94
726087	7/8	0.585	11.50
726112	1 1/8	0.634	12.48
726137	1 3/8	0.676	13.14
726162	1 5/8	0.731	16.38
726212	2 1/8	0.726	21.84
726262	2 5/8	0.866	22.76
726312	3 1/8	1.050	31.86
726412	4 1/8	1.210	65.98



## 1" WALL THICKNESS



Part No	For Tubing OD (In.)	Ship Wgt. (Lbs)	Price
728037	3/8	0.580	11.56
728050	1/2	0.600	12.24
728062	5/8	0.634	12.48
728087	7/8	0.676	13.14
728112	1 1/8	0.731	16.38
728137	1 3/8	0.761	16.78
728162	1 5/8	0.726	21.84
728212	2 1/8	0.856	22.42
728262	2 5/8	0.955	31.86
728312	3 1/8	1.000	41.28
728362	3 5/8	1.091	65.98
728412	4 1/8	1.185	84.18



INSUGUARD225

Designed to accommodate movement of the pipes generated by thermal expansion and vibration. It allows the pipe to slide easily into the protector. Eliminates insulation tears, costly leaks caused by pipe friction against the metal parts of the suspension or the structure. It holds up to the highest quality standards of the industry.

Easy to install, the protector directly fits the standard channel used in the industry. You only have to fix the protector on the channel. Insuguard's revolutionary design protects your piping system and improves its appearance. It's a practical and economical way to standardize your entire installations.

**B-Line**  
by **F.T.N**

## 1 1/2" WALL THICKNESS



Part No	For Tubing OD (In.)	Ship Wgt. (Lbs)	Price
729037	3/8	0.610	18.72
729050	1/2	0.650	21.26
729062	5/8	0.680	21.84
729087	7/8	0.720	22.42
729112	1 1/8	0.810	23.40
729137	1 3/8	0.850	26.98
729162	1 5/8	0.870	31.86
729212	2 1/8	0.950	41.28
729262	2 5/8	1.050	65.96
729312	3 1/8	1.110	84.18

Part No.	Dimensions (In.)			Color	Price
	W	H	L		
INSUGUARD225	2 1/4	4 5/8	12	Black	9.34
INSUGUARD225W	2 1/4	4 5/8	12	White	9.34
INSUGUARD325	3 1/4	5 5/8	12	Black	11.12
INSUGUARD325W	3 1/4	5 5/8	12	White	11.12
INSUGUARD425	4 1/4	6 5/8	12	Black	12.00
INSUGUARD425W	4 1/4	6 5/8	12	White	12.00
INSUGUARD525	5 1/4	7 5/8	12	Black	12.88
INSUGUARD525W	5 1/4	7 5/8	12	White	12.88
INSUGUARD625	6 1/4	8 5/8	12	Black	15.20
INSUGUARD625W	6 1/4	8 5/8	12	White	15.20
INSUGUARD825B	8 1/4	10 5/8	12	Black	21.82
INSUGUARD825W	8 1/4	10 5/8	12	White	21.82

## PIPE CRADLE



HZSB225

### BRONCO® INSULATION TUBE & PIPE SADDLE

- Fits perfectly on anchor channel of any depth
- Plastic legs snap into channel while stability tabs overlap the channel exterior for a secure installation

- External stability tabs with grooved slot feature for optional self-tapping screw
- Made in the USA
- Manufactured from high-strength plastic
- Single piece product, no assembly or tools required
- Enhanced safety lip prevents insulation crushing and tearing from pipe movement
- Available in black and white to match insulation
- Excellent finished appearance



Part No.	Dimensions (In.)			Color	Price
	W	H	L		
HZSB225	2 1/4	3 7/8	12	Black	8.96
HZSB325	3 1/4	4 7/8	12	Black	10.52
HZSB425	4 1/4	5 7/8	12	Black	11.42
HZSB525	5 1/4	6 7/8	12	Black	12.76
HZSB625	6 1/4	7 7/8	12	Black	15.00
HZSB825	8 1/4	9 7/8	12	Black	20.96
HZSW225	2 1/4	3 7/8	12	White	8.96
HZSW325	3 1/4	4 7/8	12	White	10.52
HZSW425	4 1/4	5 7/8	12	White	11.42
HZSW525	5 1/4	6 7/8	12	White	12.76
HZSW625	6 1/4	7 7/8	12	White	15.00
HZSW825	8 1/4	9 7/8	12	White	20.96

## CHANNEL STRUT



B52SH-10

### GREEN EPOXY FINISH

Urethane powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powder-form urethane, it proceeds through a 400° baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of urethane coating providing excellent resistance to chipping

- Standard finish: dura-green epoxy
- Special order: plain

**B-Line**  
by **F.T.N**

Part No.	Thickness	Length	Width	Height	Wt./Ft.	Price
	(Ga.)	(Ft.)	(In.)	(In.)	(Lbs.)	
B52SH-10	12	10	1 5/8	13/16	1.19	42.90
B22SH-10	12	10	1 5/8	1-5/8	1.82	51.16
B22SH-20	12	20	1 5/8	1-5/8	1.82	63.32
B54SH-10	14	10	1 5/8	13/16	1.36	34.30
B54SH-20	14	20	1 5/8	13/16	2.12	68.64

# TUBE HANGERS

## CHANNEL STRUT



A1200HS10

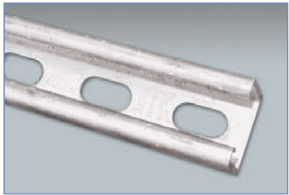
### GOLD GALVANIZED FINISH

The standard GoldGalv® wiring support hardware finish on Superstrut products is a multi-step electrogalvanizing and zinc dichromate plating, creates a cohesive molecular

bond between the zinc and the steel. The electrogalvanizing provides an even distribution of zinc, even on threads, unlike other galvanizing methods. The GoldGalv® hardware finish also provides a low electrical resistance when grounding of the system is required.

**B-Line**  
by **F.T.N**

Part No.	Thickness (Ga.)	Length (Ft.)	Width (In.)	Height (In.)	Wt./Ft. (Lbs.)	Price
B1200HS10	12	10	1-5/8	13/16	1.19	54.86
B1200HS20	12	20	1-5/8	13/16	1.19	109.74
A1200HS10	12	10	1-5/8	1 5/8	1.82	63.20
A1200HS20	12	20	1-5/8	1 5/8	1.82	126.40
B1400HS10	14	10	1-5/8	13/16	1.36	39.10



### PRE-GALVANIZED FINISH

A zinc coating is applied by hot-dipping the steel coil at the mill prior to fabrication. Once the material is worked by rollforming, cutting, or punching, minimal protection is provided for raw edges. This weakness

is typical with precoated material and affects the channel section around holes, extreme ends, and the edges of the "U" shape lips. Superstrut pregalvanized material is in conformance with ASTM A-525/G-90 specification standards, representing 0.90 ounces of zinc per square foot of steel. This finish is often referred to as "hot-dipped mill galvanized" or "mill galvanized".

**B-Line**  
by **F.T.N**

Part No.	Thickness (Ga.)	Length (Ft.)	Width (In.)	Height (In.)	Wt./Ft. (Lbs.)	Price
A1200HS10PG	12	10	1-5/8	1-5/8	1.82	49.96
A1200HS20PG	12	20	1-5/8	1-5/8	1.82	99.94

## PIPE CLAMP



NIC-1-1/8

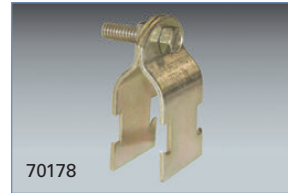
### CUSHIONED CLAMPS

Assembly consisting of galvanized finish steel clamp with bolt/locknut and cushion.

Installation is easy and requires no more time than a simple pipe clamp would. The cushion absorbs the shock and associated vibrations from fluid surges in tube, pipe and hoses. It can handle temperatures from 300°F to -40°F.

**IRP** International  
Refrigeration Products

Part No.	Tube OD Size (In.)	Price
NIC-1/4	1/4	4.00
NIC-3/8	3/8	4.08
NIC-1/2	1/2	4.20
NIC-5/8	5/8	4.36
NIC-3/4	3/4	4.56
NIC-7/8	7/8	5.18
NIC-1-1/8	1-1/8	5.72
NIC-1-3/8	1-3/8	6.44
NIC-1-5/8	1-5/8	9.08
NIC-2-1/8	2-1/8	12.60
NIC-2-5/8	2-5/8	18.12
NIC-3-1/8	3-1/8	25.64
NIC-3-5/8	3-5/8	38.28
NIC-4-1/8	4-1/8	51.76



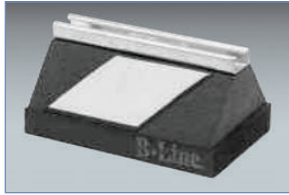
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### CHANNEL CLAMPS

Standard Finish: GoldGalv®

Part No.	Tubing OD Size (In.)	Thickness (Ga.)	Price
70138	3/8	14	2.88
70112	1/2	14	2.96
70158	5/8	14	2.98
70134	3/4	14	3.08
70178	7/8	14	2.00
701118	1 1/8	14	3.86
701138	1 3/8	14	2.38
701158	1 5/8	14	2.68
701178	1 7/8	12	3.92
701218	2 1/8	12	5.62
701238	2 3/8	12	3.46
701212	2 1/2	12	13.14
701258	2 5/8	12	6.16
701278	2 7/8	12	6.36
701318	3 1/8	12	6.72
701312	3 1/2	12	15.42
701358	3 5/8	11	8.98
701378	3 7/8	11	8.98
701418	4 1/8	11	9.12
701458	4 5/8	11	9.88
701478	4 7/8	11	10.34
701518	5 1/8	11	11.62
7016	6	10	14.14

## PIPE PIER



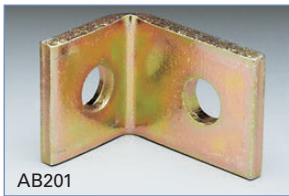
- 100% recycled rubber, UV resistant (approved by Building Green Inc for LEED credit)
- Base with 14GA galvanized channel (13/16")
- Load rating: 2500 lbs./ft
- Suitable for any type of roofing material or other flat surface

**B-Line**  
by **E.T.N**

Part No.	Length (In.)	Width (In.)	Height (In.)	Price
93951	9 5/8	6	4 13/16	47.36

## STRUT HARDWARE

### ANGLE BRACKET



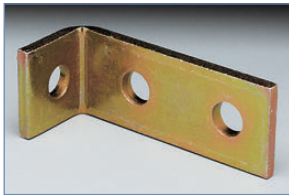
AB201

- 1 5/8" wide

**B-Line**  
by **E.T.N**

Part No.	Approximate Arm Lengths (In.)	Wt./Ea. (Lbs.)	Price
AB201	1 5/8 x 2 1/4	.37	3.76
AB202	1 7/8 x 2	.37	3.66
G3005	1 5/8 x 2 5/16	.37	3.98

### 3 HOLE ANGLE BRACKET

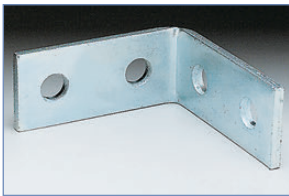


- 1 5/8" wide
- 1/4" thick
- Gold galvanized finish

**B-Line**  
by **E.T.N**

Part No.	Approx Arm L (In.)	Ship Wgt (Lbs.)	Price
AB203	4 1/8 x 1 5/8"	0.58	11.32
AB204	3 1/2 x 2 1/4"	0.58	11.30

### C-4 HOLE ANGLE BRACKET

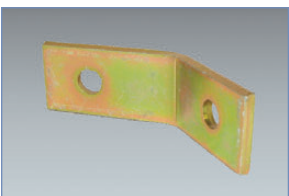


- Approximate arm lengths: 3 1/2" x 4 1/8"
- 1 5/8" wide

**B-Line**  
by **E.T.N**

Part No.	Description	Wt./Ea. (Lbs.)	Price
AB205	4 Hole Angle Bracket	.78	7.38

### 2 HOLE 135° ANGLE

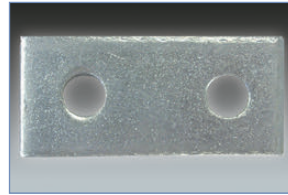


- Approximate arm lengths: 3" x 2 5/16"
- 1 5/8" wide
- 1/4" thick

**B-Line**  
by **E.T.N**

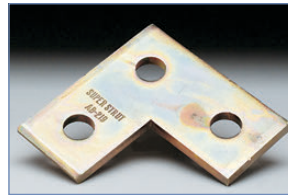
Part No.	Approx Arm L (In.)	Ship Wgt. (Lbs.)	Price
AB227	2 5/16" x 3"	0.58	16.82

## 2 HOLE FLAT PLATE



Part No.	Description	Wt./Ea. (Lbs.)	Price
G2011	3 1/2" L x 1 5/8" W	.37	4.28

## 3 HOLE ANGLE PLATE

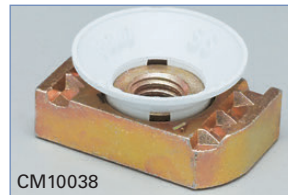


- Approximate overall arm length: 3 1/2" x 3 1/2"
- 1 5/8" wide

**B-Line**  
by **E.T.N**

Part No.	Description	Price
AB219	3 Hole Angle Plate	7.58

## NYLON CONE NUT



CM10038

CM Series: For all 1 5/8" channel. Will not fit "B" series channel.

UC Series: GoldGalv® finish. For use with all 1-5/8" and 1-1/2" channels and may be used with all strut depths. Can be used for CM-100, A-100, B-100 and AB-100 Series

**B-Line**  
by **E.T.N**

Part No.	Size (In.)	Price
CM10014	1/4	1.92
CM10038	3/8	3.40
CM10012	1/2	2.24
UC10012	1/2	5.58

## SHORT SPRING NUT



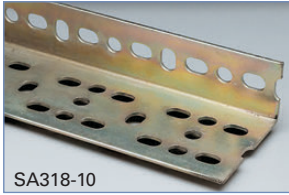
B10038

**B-Line**  
by **E.T.N**

Part No.	Size (In.)	Price
B10014	1/4	1.92
B10038	3/8	2.66

# TUBE HANGERS

## SLOTTED ANGLE METAL LUMBER



SA318-10

### ELECTRO-PLATED FINISH

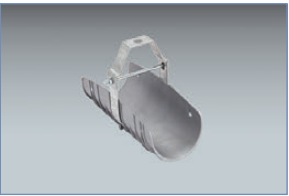
Slotted angle is an all-purpose framing system, roll formed from high strength steel strips. It is designed to be used as economical shelving, racks or as mechanical supports. The unique pattern of horizontal and vertical slots

permits full flexibility. Two basic sizes are available for light and medium duty applications. Standard finishes: electro-plated (ASTM B633 SC1). Other finishes are available.

**B-Line**  
by **FATON**

Part No.	Thickness (Ga.)	Length (Ft.)	Width (In.)	Height (In.)	Wt. (Lbs.)	Price
SA276-10	14	10	2-3/8	1-5/8	7.8	76.46
SA318-10	12	10	3-1/8	1-5/8	13.2	106.00

## PIPE HANGER



### UNIVERSAL SNAP-N-SHIELD WITH CLEVIS HANGER

- Clevis hanger cartridge has an optional magnetic shock detection device, available with three different shock intensity flags

- Lip design on ends of shield allow for lateral movement of piping without damaging insulation
- Snap on design helps eliminate shield movement, helping to prevent insulation damage
- No tools required for installation
- Suited for horizontal pipe runs
- Integrated slots for liquid line tie wraps
- UV resistant
- Operating temperature: -40 to 178°F
- Paintable
- Non-adhesive surface for insulation expansion

**B-Line**  
by **FATON**

Part No.	Tube Size (In.)	Opening Width (Lbs.)	Rod Dia. (In.)	Price
BPH31002	2	2.34	3/8	13.80
BPH31003	3	3.45	3/8	18.86



112CH

### CLEVIS HANGER

Used to support copper tubing and copper plated to match tube. It is made of steel and of sufficient weight to carry whatever load its size requires. It provides a vertical adjustment of approximately 1-1/2" after pipe is in place. Copper plated.

- Approvals: Complies with Federal Specification WW-H-171 (Type 12)

Part No.	Tube Size (In.)	Rec. Safe Load (Lbs.)	Rod Dia. (In.)	Bolt (In.)	Wt./Ea. (Lbs.)	Price
12CH	1/2	450	3/8	1/4	0.14	1.72
34CH	3/4	450	3/8	1/4	0.15	1.72
1CH	1	450	3/8	1/4	0.18	1.84
114CH	1-1/4	450	3/8	1/4	0.20	2.00
112CH	1-1/2	450	3/8	1/4	0.27	2.10
2CH	2	450	3/8	1/4	0.32	2.32
212CH	2-1/2	450	1/2	1/4	0.71	5.24
3CH	3	600	1/2	1/4	0.80	6.72
312CH	3-1/2	600	1/2	1/4	1.10	6.44
4CH	4	600	1/2	5/16	1.23	6.76
5CH	5	900	5/8	3/8	1.90	15.88
6CH	6	900	5/8	3/8	2.20	23.78



112AB

### COPPER A BAND

Used to support copper tubing. An all steel hanger formed in one piece giving a double thickness of stock at the point which carries the load. Copper plated  
Approvals: Complies with Federal Specification WW-H-171 (Type 7) and Manufacturers Standardization Society SP-69 (Type 7).

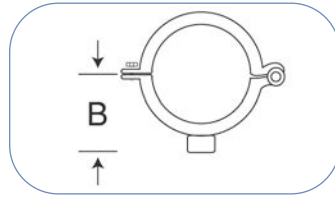
Part No.	Pipe Size (In.)	Rec. Safe Load (Lbs.)	Rod Dia. (In.)	Wt./Ea. (Lbs.)	Price
12AB	1/2	610	3/8	0.10	1.46
34AB	3/4	610	3/8	0.12	1.46
1AB	1	610	3/8	0.14	1.46
114AB	1-1/4	610	3/8	0.16	1.52
112AB	1-1/2	610	3/8	0.17	1.62
2AB	2	610	3/8	0.32	1.84
212AB	2-1/2	970	1/2	0.36	2.54
3AB	3	970	1/2	0.57	3.98
4AB	4	970	5/8	0.68	5.50

*At United Refrigeration, our people make the difference.  
Ongoing training combined with years of experience is  
what makes our people the best in the business!*

## COPPER SPLIT RING



14SRH



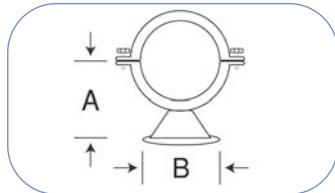
Extension hanger ring. Malleable iron, copper plated. Manufactured to fit copper tubing. Approvals: Complies with Federal Specification WW-H-171 (Type 25) and Manufacturers Standardization Society SP-69 (Type 12)

Part No.	Nom.		Rec.		Tapping (In.)	Wt./Ea. (Lbs.)	Price
	Tube Size (In.)	Max. Load (Lbs.)	Dim. B (In.)				
14SRH	1/4	180	9/16	3/8	0.11	2.18	
38SRH	3/8	180	5/8	3/8	0.12	2.54	
12SRH	1/2	180	23/32	3/8	0.13	2.54	
34SRH	3/4	180	13/16	3/8	0.15	3.00	
1SRH	1	180	15/16	3/8	0.16	3.08	
114SRH	1-1/4	180	1-5/32	3/8	0.19	3.72	
112SRH	1-1/2	180	1-7/32	3/8	0.22	3.98	
2SRH	2	180	1-7/16	3/8	0.27	4.74	
212SRH	2-1/2	480	1-15/16	1/2	0.72	8.74	

## COPPER VAN



112VH



Copper plated. Stamped steel hanger for copper tubing is a strong, neat, and light concealed screw hanger. It supports the tubing one inch from back of tube to wall and has only two parts. It takes the place of rough unsightly looking hangers in a finished room and eliminates the use of ordinary pipe clips.

Part no.	Tube Size (In.)	Dim. A (In.)	Dim. B (In.)	Wt./Ea. (Lbs.)	Price
12VH	1/2	1-3/16	1-5/8	0.075	2.70
34VH	3/4	1-5/16	1-5/8	0.080	2.90
1VH	1	1-7/16	1-5/8	0.085	2.92
114VH	1-1/4	1-9/16	1-5/8	0.090	3.24
112VH	1-1/2	—	—	—	4.66
2VH	2	—	—	—	6.80

## BEAM CLAMP



38BC

Top beam clamps are to be used on the top sections of beams and bar joists where the roof rests flat on top of the beam. Side beam clamps attach to the I beam flange and allow rod to be dropped at or near the edge of the beam.

- Cast iron 3/8"-16 set screw
- Approvals: Underwriters approved (3/8" rod)

Part No.	Finish	Type	Rod Size (In.)	Wt./Ea. (Lbs.)	Price
38BC	Black	Top	3/8	0.38	2.04
38BCG	Galvanized	Top	3/8	0.38	3.08
12BC	Black	Top	1/2	0.38	2.92
12BCG	Galvanized	Top	1/2	0.38	3.94
38SBC	Black	Side	3/8	0.38	1.78

## C CLAMP



38CC

"C" clamp with locking nut. Stamped steel. The locking nut when tightened prevents loosening due to vibration, thus eliminating the necessity of using retaining clips.

Part No.	Finish	Rec. Max. Load (Lbs.)	Dim. A (In.)	Set Screw (In.)	Wt./Ea. (Lbs.)	Price
38CC	Black	400	3/8	3/8 x 2	0.45	2.64
38CCG	Galvanized	400	3/8	3/8 x 2	0.45	3.46
12CC	Black	500	1/2	1/2 x 2	0.54	3.46
12CCG	Galvanized	500	1/2	1/2 x 2	0.54	5.02

## THREADED ROD



38TR

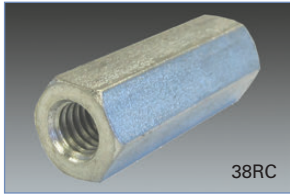
All-thread hanger rod has a standard thread running its entire 6' length. Furnished black and electrogalvanized. Sold in 6' lengths; 12/38TRG10 sold in 10' lengths; all are PRICED PER FOOT 38X3ROD (3 inches long) priced per each)

Part No.	Finish	Rod Dia. (In.)	Max. Rec. Load (Lbs.)	Feet Per Bundle	Wt./Ft. (Lbs.)	Price/Ft.
14TR	Black	1/4	240	600	0.12	0.54
14TRG	Galv.	1/4	240	600	0.12	0.60
516TR	Black	5/16	300	450	0.20	0.62
38TR	Black	3/8	610	300/150	0.30	0.94
38TRG	Galv.	3/8	610	300/150	0.30	1.24
38TRG10	Galv.	3/8	610	150	0.30	0.96
38X3ROD <sup>1</sup>	Copper	3/8	610	—	1.11	1.24
12TR	Black	1/2	1130	—	0.54	2.04
12TRG	Galv.	1/2	1130	—	0.54	2.48
12TRG10	Galv.	1/2	1130	—	0.54	2.00
58TR	Black	5/8	1810	90	0.85	3.40
58TRG	Galv.	5/8	1810	90	0.85	3.94
78TRG	Galv.	7/8	3700	24	1.70	8.56

<sup>1</sup>For use with split ring hangers and/or 38BP wall plate. Copper plated.

# TUBE HANGERS

## THREADED ROD



### ROD COUPLING

38RCG is galvanized

Item	Size (In.)	Price
14RC	1/4	1.08
38RC	3/8	1.04
38RCG	3/8	1.18
12RC	1/2	1.14



### ROD ANCHOR

Item	Rod Dia (In.)	Description	Price
38BP	3/8	Copper Plated Anchor Plate	2.38
12BP	1/2	Copper Plated Anchor Plate	2.58
38LS	3/8	Black Lag Screw	1.04



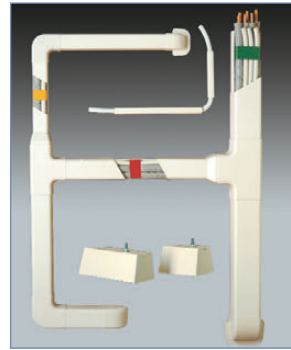
### ROD ANCHOR

- One piece threaded rod hanging system for wood, similar to "Sammy Screws"

- Applications include HVAC ductwork and strut channels, hanging pipe and sprinkler systems, suspending conduit and cable trays, and lighting systems and overhead utilities, among others .

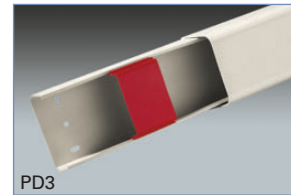
Part No.	Description	Package Qty	Price
NRH1W	Vertical (Straight) Entry for 3/8" Threaded Rod, 1" Long	36	63.00
NRH2W	Vertical (Straight) Entry for 3/8" Threaded Rod, 2" Long	24	51.74
NRH2WS	Horizontal (Side) Entry for 3/8" Threaded Rod, 2" Long	24	67.20
NRHWT	Drive Socket for NRH Series Rod Anchors	1	19.72

## TUBE SHROUD



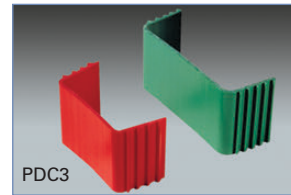
Decorative tubing cover designed to organize, protect and beautify outdoor lineset installations

- Permanent base, removable cover...clips hold tubing in place
- High quality, paintable PVC
- Quick and easy installation
- UV and shock resistant
- Non-flammable UL94
- Temperature range -4° to +140°F



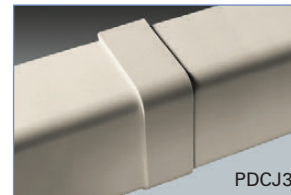
### TRUNK, 78" LENGTH

Part No.	Description	Price
PD3	6 1/2' L x 3 1/4" W x 2 1/3" H	32.42
PD4	6 1/2' L x 4 1/3" W x 3" H	48.70



### TUBE CLIP

Part No.	Description	Price
PDC3	Tube Clip, Red, PD3	1.02
PDC4	Tube Clip, Green, PD4	1.22



### COVER JOINT

Part No.	Description	Price
PDCJ3	Cover Joint, PD3	4.80
PDCJ4	Cover Joint, PD4	8.48



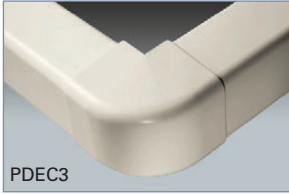
## INTERNAL CORNER



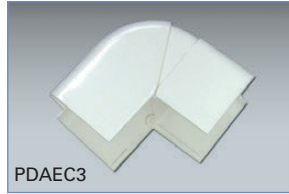
Part No.	Description	Price
PDIC3	Inside Corner, PD3	8.04
PDIC4	Inside Corner, PD4	10.14
PDAIC3	Inside Corner, Adjustable, 80° to 105°, PD3	10.28



## EXTERNAL CORNER



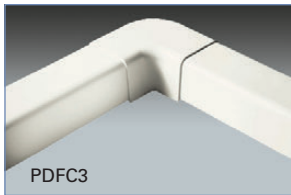
PDEC3



PDAEC3



Part No.	Description	Price
PDEC3	Outside Corner, PD3	11.06
PDEC4	Outside Corner, PD4	20.02
PDAEC3	Outside Corner, Adjustable, 70° to 120°, PD3	10.02



PDFC3

## FLAT CURVE



Part No.	Description	Price
PDFC3	Flat Curve, PD3	11.06
PDFC4	Flat Curve, PD4	19.84



## PLANE CURVE



Part No.	Description	Price
PDAPC3	Plane Curve, PD3	14.20



## END CAP



Part No.	Description	Price
PDECAP3	End Cap, PD3	7.76



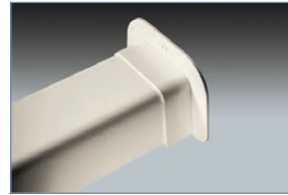
PDWE3

## CORNER WALL ELBOW



Part No.	Description	Price
PDWE3	Wall Elbow, PD3	12.62
PDWE4	Wall Elbow, PD4	20.42

## WALL PASSAGE

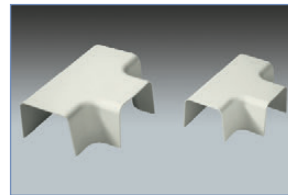


Part No.

Description

Price

PDWP3	Wall Passage, PD3	13.06
PDWP4	Wall Passage, PD4	13.06



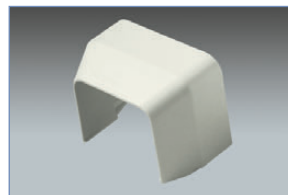
Part No.

Description

Price

PDT3	Tee, PD3	26.78
PDT4	Tee, PD4	39.76

## TEE



Part No.

Description

Price

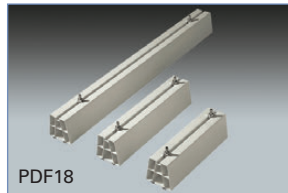
PDR4	Reducer, 4.33 x 3.25	14.64
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## REDUCER



## MOUNTING BRACKET

### CONDENSER RISERS, 4"

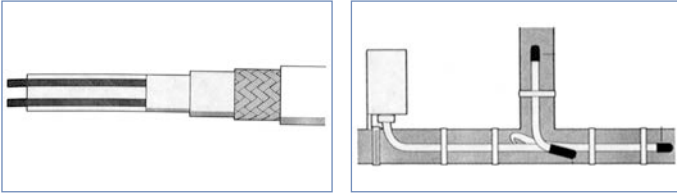


PDF18



Part No.	Holding Wgt. (Lbs.)	Length (In.)	Ship Wgt. (Lbs.)	Price
PDF18	440	18	1.71	18.72
PDF39	440	39	4.00	38.16
Description				Price
PDFC	Condenser Riser End Cap			10.28

## PIPE HEATING CABLE

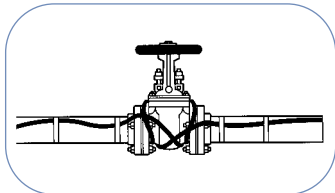


Raychems' WinterGuard self-regulating heating cables provide convenient, reliable freeze protection for a wide variety of professionally installed residential and commercial water-pipe and roof-and-gutter de-icing applications. Use waterproof jacket in installations where the cable is likely to be exposed to moisture (i.e., roof installations, inside drain lines). H600 Series cables are cut to length and are available in 50' and bulk roll sizes. Complete design guidelines, installation instructions, and safety information are provided in the H900 Power Connection Kit and the H908 Plug-In Power Connection Kit.

### WATERPROOF JACKET OVER METAL SHIELD



H612FT



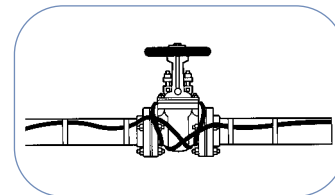
PENTAIR

Part No.	Watt/Ft.	Volts	Price/Ft.
H612FT	6	120	9.70
H622FT	6	240	11.00

### METAL SHIELD



H611FT



PENTAIR

Part No.	Watt/Ft.	Volts	Length (Ft.)	Price
H611FT	6	120	1	7.76
H611050	6	120	50	388.14
H621FT	6	240	1	8.14

TUBE, INSULATION, FITTINGS

## ACCESSORIES



H900

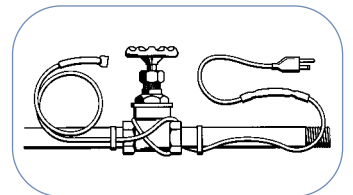
PENTAIR

Part No.	Description	Price
H900	Power Connection Kit	56.42
H903	Application Tape (66 ft. roll)	28.30
H908	Plug-In Cord Set with Ground Fault Interrupter	122.42
H910	Splice and Tee Kit	31.18
H912	Gel-Filled End Seal Kit	27.34

## RAYCHEM FROSTGUARD



W516P



Raychem FrostGuard energy-efficient preassembled heating cable offers an easy-to-use solution to prevent frozen pipes and avoid the significant expense of repair associated with frozen or burst pipes.

- Easy to design and install; simply fix to the pipe, cover in pipe insulation, and plug into the GFI-protected electrical supply.
- Safe: no overheating possible: even when overlapped or closely spaced
- Energy-efficiency through self-regulating technology
- Ideal for metal and plastic pipes up to 2 1/2" in diameter
- Maintenance-free: no moving parts

### PRE-ASSEMBLED 120V

- With plug and end termination

PENTAIR

Part No.	Watt/Ft.	Length (Ft.)	Price
FG16P	6	6	133.60
FG112P	6	12	169.18
FG124P	6	24	253.84

### PRE-ASSEMBLED 240V

- With end termination

PENTAIR

Part No.	Watt/Ft.	Length (Ft.)	Price
FG26L	6	6	139.58
FG212L	6	12	184.02



## WINTERGARD HEATING CABLE SELECTION

Use one of the tables below to help select the correct WinterGard heating cable for your applications. (Consult the "Heat Systems Application and Design Guide" or "H900/ H908 Installation Instructions" for complete system design information).

Use Table 1 to select heating cables for insulated metal pipes. Use Table 2 for insulated plastic pipes.

Read across the table to find your pipe diameter, then drop down to the line corresponding to the lowest air temperature for that application and the correct insulation thickness. The cell at that intersection has a particular shade and may have a number.

The shade indicates which heating cable to use. A number in the cell represents the spiraling ratio (feet of heating cable per foot of pipe). If no number appears in the cell, straight trace the cable. If a number does appear in the cell, spiral trace the pipe. If your spiraling ratio is 2.0, multiple-trace the cable using two straight traces at the 4 o'clock and 8 o'clock positions.

If your spiraling ratio is 3.0, multiple-trace the cable using three straight traces at the 11 o'clock or 1 o'clock position and at the 4 o'clock and 8 o'clock positions.

### KEY TO TABLES 1 AND 2

H611, H612, H621, H622

Increase insulation thickness

**TABLE 1**

For metal pipes with fiberglass insulation or equivalent (based on 40°F maintain)

Lowest Air Temp.	Insulation Thickness (In.)	Pipe Diameter (In.)											
		0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	6.00	8.00	
0°F	0.5										1.3	1.8	3.0
0°F	1.0												1.3
0°F	1.5												
-20°F	0.5							1.1	1.3	1.5	1.8	3.0	
-20°F	1.0										1.1	1.5	1.9
-20°F	2.0											1.1	1.3
-20°F	1.5												
-40°F	0.5				1.1	1.2	1.4	1.7	2.0	3.0			
-40°F	1.0									1.1	1.4	1.9	3.0
-40°F	1.5											1.4	1.7
-40°F	2.0											1.1	1.4

**TABLE 2**

For plastic pipes with fiberglass insulation or equivalent (based on 40°F maintain)

Lowest Air Temp.	Insulation Thickness (In.)	Pipe Diameter (In.)											
		0.5	0.75	1	1.25	1.5	2	2.5	3	4	6	8	
0°F	0.5							1.2	1.4	1.7	2	3	
0°F	1									1.7	1.2	1.6	2
0°F	1.5											1.2	1.5
-20°F	0.5				1.1	1.3	1.5	1.8	3				
-20°F	1						1.1	1.2	1.4	1.8	3		
-20°F	1.5								1.1	1.3	1.7	3	
-20°F	2										1.4	1.7	
-40°F	0.5	1.1	1.1	1.5	1.8	2	3	3					
-40°F	1				1.1	1.2	1.4	1.6	1.9	3			
-40°F	1.5						1.1	1.2	1.4	1.7	3	3	
-40°F	2								1.1	1.3	1.8	30	

**EXAMPLE 1**

Pipe = 2" diameter metal  
 Lowest air temperature = 0°F  
 Insulation thickness = 1"  
 Cable length and type = 1' of WinterGard H311 per foot of pipe

**EXAMPLE 2**

Pipe = 2.5" diameter plastic  
 Lowest air temperature = -20°F  
 Insulation thickness = 1"  
 Cable length and type = 1.2' of WinterGard Plus H611 or H612  
 or WinterGard Wet H621 or H622 per foot of pipe

TUBE, INSULATION, FITTINGS

## PIPE HEATING CABLE



### HEATING CABLE WITH INTERNAL REGULATION

- Application: wet and dry, pipe freeze protection
- Standard approved: cETLus



Part No.	Watt/Ft.	Volts	Length (Ft.)	Plug	Price
HC1206	5	120	6	NEMA 5-15	97.60
HC12012	5	120	12	NEMA 5-15	123.60
HC2406	5	240	6	Cut and Stripped Ends	101.96
HC24012	5	240	12	Cut and Stripped Ends	134.42



### HEATING CABLE WITH BRAIDED WIRE OUTER COVER

- Application: piping
- Standard approved: cULus (UL Listed)



Part No.	Watt/Ft.	Volts	Length (Ft.)	Plug	Price
PHC12050	5	120	50	Cut Ends	5.96
PHC24050	5	240	50	Cut Ends	6.22



### ACCESSORIES

HCATL



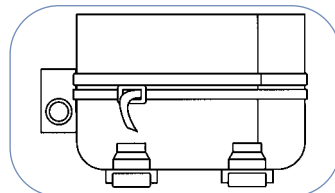
Part No.	Description	Use With	Price
HCATL	Tape (66 Ft.) and Electrical Traced Labels	Heat Cables	25.84
HCKK	Installation Kit w/ 14 Items Included	PHC and RHC Cables	52.86

## CRANKASE HEATER



CCH2

- Cable length: 48"
- Compressor girth: 40" or less



- Cold lead length: 28"
- Can overlap itself



Part No.	Volts	Price
CCH1	120	111.22
CCH2	208-277	111.22

## TUBING



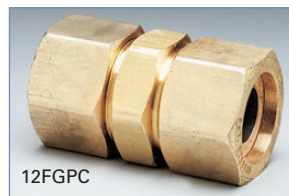
- TracPipe® Counterstrike® with no additional bonding is more resistant to lightning's effects than yellow CSST with additional bonding.
- Heavy one piece abrasion and lightning resistant jacket, pulls easier and lays straighter decreasing install time.

- Highest Pressure Ratings. Tested by IAS (AGA Labs) for ratings up to 125 PSI working pressure.
- Highest TracPipe® Counterstrike® CSST is sized exactly the same as conventional yellow TracPipe CSST and uses the same patented AutoFlare fitting.
- Rolls without length suffix sold by the foot
- Rolls with length suffix sold by roll

**OmegaFlex TracPipe**

Part No.	Nom. Size (In.)	Reel Length (Ft.)	Wt./Reel (Lbs.)	Price/Ft.
38FGPCS	3/8	250	37	6.94
12FGPCS	1/2	250	52	7.76
34FGPCS	3/4	250	70	10.10
1FGPCS	1	180	70	14.40
114FGPCS150	1 1/4	150	78	18.02
114FGPCS	1 1/4	250	129	18.02
				Price/Roll
38FGPCS100	3/8	100	17	693.00
12FGPCS050	1/2	50	14	425.88
12FGPCS100	1/2	100	24	776.16
12FGPCS500	1/2	500	98	3880.80
34FGPCS050	3/4	50	18	555.04
34FGPCS100	3/4	100	17	1009.26
1FGPCS050	1	50	22	793.18

## AUTOFLARE™ FITTING



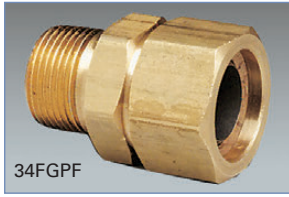
12FGPC

### COUPLING AF X AF

**OmegaFlex TracPipe**

Part No.	Size (In.)	Box* Qty.	Wt./Ea. (Lbs.)	Price/Ea.
38FGPC	3/8	24	0.3	51.20
12FGPC	1/2	24	0.5	58.26
34FGPC	3/4	16	0.7	80.14
1FGPC	1	16	0.9	124.00

\*Box quantity for ordering convenience only



## STRAIGHT FITTING AUTOFLARE™ X MPT

**OmegaFlex TracPipe**

Part No.	Nom. Size (In.)		Box*	Wt./Ea.	
	AF	MPT	Qty.	(Lbs.)	Price/Ea.
38FGPF	3/8	1/2	24	0.4	29.36
12FGPF	1/2	1/2	24	0.4	31.66
34FGPF	3/4	3/4	16	0.5	43.14
1FGPF	1	1	16	0.7	66.70
114FGPF	1-1/4	1-1/4	6	1.5	147.98



## SPARE SPLIT RING

**OmegaFlex TracPipe**

Part No.	Size (In.)	Pkg	Wt./Ea.	
		Qty.	(Lbs.)	Price/Pkg
38SPLITRING	3/8	10	0.06	24.50
12SPLITRING	1/2	10	0.06	13.74
34SPLITRING	3/4	10	0.06	14.82
1SPLITRING	1	10	0.06	18.32
114SPLITRING	1-1/4	4	0.06	39.46



## TEE FITTING AF X AF X AF (BRANCH)

- Autoflare™ fitting run and branch

**OmegaFlex TracPipe**

Part No.	Size (In.)			Box*	Wt./Ea.	
	AF	AF	AF (BR)	Qty.	(Lbs.)	Price/Ea.
FGPTF500T500	1/2	1/2	1/2	14	1.0	91.96
FGPTF750T750	3/4	3/4	3/4	12	1.6	121.80
FGPTF1000T1000	1	1	1	10	2.2	219.68



## TEE FITTING AF X AF X FPT (BRANCH)

- Autoflare™ fitting run x female pipe thread branch

**OmegaFlex TracPipe**

Part No.	Nom. Size (In.)			Box*	Wt./Ea.	
	AF	AF	FPT (BR)	Qty.	(Lbs.)	Price/Ea.
FGPT500500	1/2	1/2	1/2	14	1.0	86.86
FGPT500750	1/2	1/2	3/4 MPT <sup>1</sup>	12	1.0	112.58
FGPT750750	3/4	3/4	3/4	12	1.6	86.86
FGPT10001000	1	1	1	10	2.2	200.62

<sup>1</sup>MPT branch

## AUTOSNAP® FITTING



### STRAIGHT FITTING, MPT

The only CSST fittings that do not require any disassembly or reassembly of the fitting to the TracPipe® CounterStrike® CSST

- No small loose gaskets, O-rings, or retainer rings needed
- Features a metal to metal cup seal without any exposed stainless steel pipe behind the new fitting
- Twist, snap and tighten to the specified torque value
- CSA listed

**OmegaFlex TracPipe**

Part No.	MPT	Box*	Wt./Ea.	
	Size (In.)	Qty.	(Lbs.)	Price/Ea.
12FGPSPF	1/2	24	0.4	30.14

## AUTOFLARE™ TERMINATION MOUNT



### FLANGE MOUNT FITTING CAST IRON

Termination outlet for movable appliances and quick disconnect devices. Autoflare™ flange x MPT.

**OmegaFlex TracPipe**

Part No.	Nom. Size (In.)		Box*	Wt./Ea.	
	AF	MPT	Qty.	(Lbs.)	Price/Ea.
FGPFF375	3/8	1/2	12	1.0	44.98
FGPFF500	1/2	1/2	12	1.0	42.96
FGPFF750	3/4	3/4	8	1.3	55.70
FGPBF1000	1	1	8	1.5	76.62
FGPFF1250	1 1/4	1 1/4	4	2.6	178.00

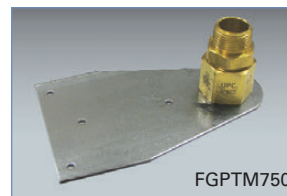


### 90° ELBOW FLANGE MOUNT FITTING

Termination outlet for movable appliances and quick disconnect devices. Autoflare™ flange x MPT.

**OmegaFlex TracPipe**

Part No.	Flange Type	Nom. Size (In.)		Wt./Ea.	
		AF	MPT	(Lbs.)	Price/Ea.
FGPELLB500	Iron	1/2	1/2	1.1	87.10



### PIPE TERMINATION MOUNT

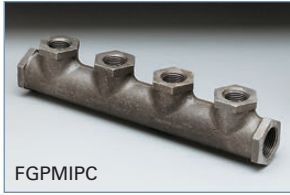
**OmegaFlex TracPipe**

Part No.	Nom. Size (In.)		Box*	Wt./Ea.	
	AF	MPT	Qty.	(Lbs.)	Price/Ea.
FGPTM500	1/2	1/2	12	1.0	42.96
FGPTM750	3/4	3/4	8	1.1	47.44

\*Box quantity for ordering convenience only

# ROOF PENETRATION

## TRACPIPE MANIFOLD



FGPMIPC

**OmegaFlex TracPipe**

Part No.	Description	Wt./Ea. (Lbs.)	Price
FGPMIPC	Malleable Iron, Plastic Coated, 4 Ports 1/2" Female, Inlets 1/2" and 3/4" Female	1.9	71.56
FGPMB2	Mounting Bracket, FGPMIPC manifolds	1.3	21.86

## TRACPIPE PROTECTION DEVICE

### STRIKER PLATES



FGSP025

**OmegaFlex TracPipe**

Part No.	Size (In.)	Wt./Ea. (Lbs.)	Price
FGSP100	Full Striker Plate, 3" x 12"	0.6	8.72
FGSP050	Half Striker Plate, 3" x 7"	0.4	4.20
FGSP025	Quarter Striker Plate, 3" x 7"	0.08	2.16
FGSP617	Large Striker Plate, 6-1/2" x 17"	1.8	38.50

## FLASHING SYSTEM

### ASSEMBLY



22015

Alumi-Flash is compatible with all types of roof systems and makes pitch pans obsolete. Due to the flexibility of the EPDM rubber caps, roof leaks are eliminated because penetrations are allowed to expand, contract, and vibrate independently of the waterproofing. The caps are molded EPDM (Ethylene Propylene Diene Monomer) rubber which is compounded to resist degradation due to oxidation or exposure to ozone and ultraviolet rays, while having a serviceable temperature range of -60 to +270°F. The base must be roofed in, using good roofing practices.

- Includes 29015 base with the various cap choices
- With clamps

**PORTALSPLUS**

Part No.	Cap	Box* Qty.	Price/Ea.
22015	29215	5	161.26
22025	29225	5	161.26
22035	29235	5	161.26
22045	29245	5	161.26
22051	29255	1	290.46

## ALUMI-FLASH BASE



29035

**PORTALSPLUS**

Part No.	Dimensions (In.)				Box* Qty.	Price/Ea.
	Flange Dia.	Flange W	Opening Dia.	H		
29015	14	3	8	4	5	78.12
29035	18	5	8	4	5	98.70
29045	14	3	8	13	4	229.06
29025 <sup>1</sup>	22	4	14	4	5	148.54

<sup>1</sup>For 29255 only

## CAP WITH CLAMP



29225

Use PP130 Series adapters for retrofitting 2" cones on 29225 and 29235 to smaller diameter tubing

**PORTALSPLUS**

Part No.	Description	Color	Box* Qty.	Price/Ea.
29215	(1) 2-6" Pipe	Black	5	98.26
29225	(2) .375-1" Pipes and (2) 1-2" Pipes	Black	5	98.26
29235	(4) 1-2" Pipes	Black	5	98.26
29245	(4) .375-1" Pipes	Black	5	98.26
29255 <sup>1</sup>	(1) 8-12" Pipe	Black	5	201.22
29265	(1) 2-6" Pipe	White	5	113.26
29275	(2) .375-1" Pipes and (2) 1-2" Pipes	White	5	113.26
PP13010	2" x 3/8" Adapter	Black	50	47.50
PP13020	2" x 1/2" Adapter	Black	50	47.50
PP13030	2" x 3/4" Adapter	Black	50	47.50
PP13040	2" x 7/8" Adapter	Black	50	47.50

<sup>1</sup>Use with 29025

## RETROFIT



120-15

The retrofit flashing offers a quick and easy installation, eliminating roof leaks at pipes and other roof penetrations without disconnecting the penetration. The perfect seal is achieved with an integral tongue and groove closure,

plus an overlapping flap, and is mechanically fastened with stainless steel hardware (included). Retrofit flashings are available in neoprene for built-up asphalt, coal tar pitch, modified bitumen, and cold process systems.

**PORTALSPLUS**

Part No.	Overall Dimensions (In.)		Application Dia. (In.)	Box* Qty.	Price/Ea.
	Dia.	H			
120-15	11.0	5.5	0.5 to 3 <sup>1</sup>	5	139.58
120-25	14.5	5.0	0.5 to 6 <sup>1</sup>	5	188.76

<sup>1</sup>With adapters

## CURB SYSTEM CAP



32015

**PORTALSPLUS**

Part No.	Cap	Box* Qty.	Price/Ea.
32005	29215	5	202.48
32015	29225	5	202.48
32025	29235	5	202.48
32035	29245	5	202.48
32041 <sup>1</sup>	29255	1	323.00

22.75"L x 22.75"W x 4"H and cap. Cap opening 14".

## SHINGLE FLASHING



85009

Shingle Flashings are designed to effectively seal round pipe penetrations, from 1.25" through 4", penetrating shingle roofing systems at up to 40° slopes. The seal is an elastomeric collar integrally locked into a rigid base which remains flat on the roof. Bases are available in 24 gauge galvanized steel, .032 mill finish aluminum. Pipes can be all types, including copper, cast iron, plastic, aluminum, and galvanized. Shingle flashings are rated to 180°F continuous heat. All are listed by UPC, SBC, and BOCA.

### GALVANIZED BASE

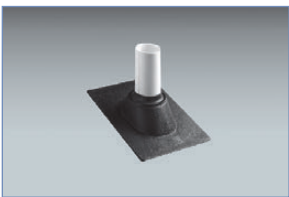
**PORTALSPLUS**

Part No.	Pipe Size (In.)	Price
85009	1 1/4-1 1/2	12.50
85019	2	12.86
85029	3	14.30
85039	4	18.46

### ALUMINUM BASE

**PORTALSPLUS**

Part No.	Pipe Size (In.)	Price
85209	1 1/4-1 1/2	15.76
85219	2	16.74
85229	3	18.60
85239	4	22.22



### THERMOPLASTIC BASE

**PORTALSPLUS**

Part No.	Pipe Size (In.)	Price
85319	2	10.94
85329	3	11.14
85339	4	12.50

## PIPE BOOT



Economical flashing designed for single pipe penetrations on single ply rubber roofs. The conically shaped steps of the pipe flashing will securely seal all pipes and the large double thick molded rib at the top of each step

offers supreme tear resistance and reinforcement, as well as a cutting guide.

**PORTALSPLUS**

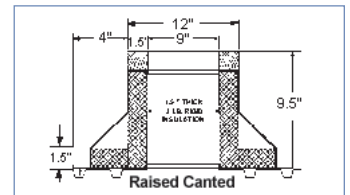
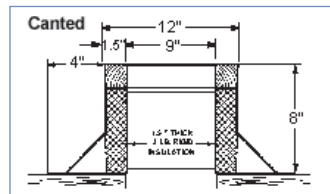
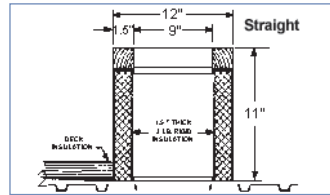
Part No.	Size (In.)	Box* Qty.	Price/Ea.
43170	1-6 7/8	10	83.68

## NEW CONSTRUCTION CURB SYSTEM



32111

Roof curbs have an integral base plate, continuously welded corner seams, factory-installed wood nailer, and 1.5" 3 lb. rigid fiberglass insulation. Designed for use with 320\*\* curb cover components.

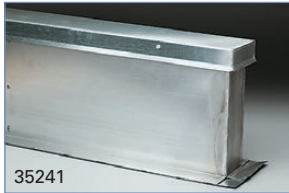


**PORTALSPLUS**

Part No.	Type	Curb			Flange		Price
		Length (In.)	Width (In.)	Height (In.)	Width (In.)		
32101	Straight	12	12	11.0	1.5	217.86	
32111	Canted	12	12	8.0	4.0	217.86	
32121	Raised Canted	12	12	9.5	4.0	217.86	
32131	Straight	20	20	11.0	1.5	408.60	
32141	Canted	20	20	8.0	4.0	408.60	
32151	Raised Canted	20	20	9.5	4.0	408.60	
32161	Straight	28 1/2	13	11.0	1.5	451.10	
32171	Canted	28 1/2	13	8.0	4.0	451.10	
32181	Raised Canted	28 1/2	13	9.5	4.0	451.10	

# ROOF PENETRATION

## EQUIPMENT RAIL



Equipment rails are prefabricated sheet steel structural members designed for all types of roof systems. Manufactured in 3', 4', and 6' lengths to match the equipment and to span the proper number of roof joists. Equipment rails have a high bearing capacity attained by a system of internal gussets welded into position at specific intervals along the length of the rails. A continuous wood nailer covered by a removable counterflashing provides for an effective method of attaching roofing felts and assuring a watertight installation.

Equipment rails have a high bearing capacity attained by a system of internal gussets welded into position at specific intervals along the length of the rails. A continuous wood nailer covered by a removable counterflashing provides for an effective method of attaching roofing felts and assuring a watertight installation.



Part No.	Type	Size (In.)		Length (Ft.)	Price
		W	H		
35231	ER2A	3.5	12	3	287.48
35241	ER2A	3.5	12	4	370.66
35261	ER2A	3.5	12	6	567.70
35331	ER3A	3.5	8	3	256.74
35341	ER3A	3.5	8	4	334.48
35361	ER3A	3.5	8	6	504.40
ER35431	ER4A	3.5	9.5	3	274.80
ER35441	ER4A	3.5	9.5	4	350.76
ER35461	ER4A	3.5	9.5	6	524.30

Property	Style		
	Straight Side	Canted	Raised Cant
	ER-2A	ER-3A	ER-4A
Width & Height	3.5 in. x 12 in.	3.5 in. x 8 in.	3.5 in. x 9.5 in.
Maximum Allowable Concentrated Load	3000 lbs.	1450 lbs.	1300 lbs.
Maximum Allowable End Reaction	3300 lbs.	1700 lbs.	2200 lbs.
Maximum Allowable Intermediate Reaction	3000 lbs.	1450 lbs.	1300 lbs.
Maximum Allowable Uniform Load	860 lb./ft.	450 lb./ft.	550 lb./ft.

For the most up-to-date list of branches, visit our website at [www.uri.com](http://www.uri.com)

## DECK MATE

The Portals Plus Deck-Mate is designed to accommodate projections from .125" to 26" in diameter, and work in conjunction with any configuration of corrugated metal roof. The Deck-Mate is engineered so the aluminum flanged base bends to any contours, roof irregularities, or pitches. The Deck-Mate seals watertight to the roof panel with an approved sealant and standard roofing fasteners.

- With clamps

### TECH DATA

	EPDM	Silicone
<b>Advanced Ozone Resistance</b> (tested to)	70 hrs. @ 500 pphm	70 hrs. @ 500 pphm
<b>High Temperature Resistance</b> (tested to intermittent)	+275°F	+500°F
<b>High Temperature Resistance</b> (tested to continuous)	+212°F	+437°F
<b>Low Temperature Resistance</b> (tested to)	-65°F	-100°F
<b>Tensile Strength</b> (minimum)	1450 psi	700 psi
<b>Compression Set</b> (maximum)	25%	50%



### EPDM (LOW TEMP.)



Part No.	Size (In.)	Box* Qty.	Price/Ea.
81006	1/8-3/4	15	33.80
81016	1/4-2	15	40.24
81026	1 3/4-3 1/4	15	48.90
81036	1/4-4	15	57.94
81040	3-6	10	66.28
81050	4-7	10	72.94
81060	5-9	10	129.58
81070	6-11	10	156.30
81085	7-13	5	179.00
81101	13-26	1	863.56



### SILICONE (HIGH TEMP.)



Part No.	Size (In.)	Box* Qty.	Price/Ea.
82016	1/4-2	15	56.04
82026	1 3/4-3 1/4	15	63.46
82036	1/4-4	15	85.52
82040	3-6	10	165.42
82050	4-7	10	188.76
82060	5-9	10	220.40
82070	6-11	10	318.22
82085	7-13	5	485.80
82101	13-26	1	1396.30