



HVAC CATALOG

VOLUME II



Quality
Products *for*
the **HVAC**
Professional

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Soft Copper Refrigeration Coils



- Material-Copper Alloy C12200 Deoxidized, High Residual Phosphorous Copper (DHP)
- Chemical Composition- Minimum 99.9% Copper & Silver with a Maximum Allowable Range of Phosphorous (0.015%-0.040%)
- Manufactured to ASTM B280-03 for Seamless Copper Tube for Air Conditioning & Refrigeration Field Service
- Temper-O60 Soft Annealed
- Bright Annealed-Dehydrated-Capped
- ROHS Compliant
- Packaging- Coils are Individually Wrapped in Plastic & Packaged in Cardboard Master Cartons

50' SOFT COPPER

PART NO.	ACTUAL OD -INCHES	WALL THICKNESS	WEIGHT PER FOOT	WEIGHT PER COIL	COILS PER MASTER	WEIGHT PER MASTER
REF-050-0187	3/16"	0.030	0.058	2.88	20	57.60
REF-050-0250	1/4"	0.030	0.080	4.02	15	60.30
REF-050-0312	5/16"	0.032	0.109	5.47	10	54.70
REF-050-0375	3/8"	0.032	0.134	6.68	10	66.80
REF-050-0500	1/2"	0.032	0.182	9.12	10	91.20
REF-050-0625	5/8"	0.035	0.251	12.57	8	100.56
REF-050-0750	3/4"	0.035	0.305	15.24	5	76.20
REF-050-0875	7/8"	0.045	0.455	22.74	5	113.70
REF-050-1125	1-1/8"	0.050	0.655	32.73	3	98.19

100' SOFT COPPER

PART NO.	ACTUAL OD -INCHES	WALL THICKNESS	WEIGHT PER FOOT	WEIGHT PER COIL	COILS PER MASTER	WEIGHT PER MASTER
REF-100-0250	1/4"	0.030	0.080	8.04	10	80.40
REF-100-0312	5/16"	0.032	0.109	10.94	8	87.52
REF-100-0375	3/8"	0.032	0.134	13.36	8	106.88
REF-100-0500	1/2"	0.032	0.182	18.24	6	109.44
REF-100-0625	5/8"	0.035	0.251	25.14	4	100.56
REF-100-0750	3/4"	0.035	0.305	30.48	3	91.44
REF-100-0875	7/8"	0.045	0.455	45.48	3	136.44

Natural Polyethylene Tubing



- Non-toxic, 100% virgin material
- 100' coils in dispenser box
- FDA
- -40°F to +135°F

PART NO.	OD	ID	PSI	WALL	CTN QTY
T25250	1/4"	.170"	120	.040	100'
T25312	5/16"	.187"	150	.040	100'
T25375	3/8"	.250"	125	.062	100'
T25500	1/2"	.375"	95	.062	100'
T25625	5/8"	.500"	75	.500	100'

Soft Aluminum Tubing



- 50' coils
- Alloy 3003-O, ASTM B-483

PART NO.	OD	WALL	CTN QTY
T27125	1/8"	.025	1/10
T27188	3/16"	.028	1/10
T27250	1/4"	.032	1/10
T27313	5/16"	.035	1/10
T27375	3/8"	.035	1/10
T27438	7/16"	.035	1/10
T27500	1/2"	.035	1/10
T27625	5/8"	.035	1/10

Clear Vinyl Tubing



- 75 duro clear
- -5°F to +125°F
- Self-dispensing cartons
- FDA

PART NO.	OD	ID	WALL	WPPSI	CTN QTY
T26124	3/16"	1/8"	1/32"	50	100'
T26125	1/4"	1/8"	1/16"	80	100'
T26186	1/4"	3/16"	1/32"	40	100'
T26187	5/16"	3/16"	1/16"	60	100'
T26250	3/8"	1/4"	1/16"	55	100'
T26252	1/2"	1/4"	1/8"	90	100'
T26312	7/16"	5/16"	1/16"	50	100'
T26313	1/2"	5/16"	3/32"	60	100'
T26375	1/2"	3/8"	1/16"	45	100'
T26376	9/16"	3/8"	3/32"	55	100'
T26377	5/8"	3/8"	1/8"	65	100'
T26498	5/8"	1/2"	1/16"	30	100'
T26500	3/4"	1/2"	1/8"	45	100'
T26626	3/4"	5/8"	1/16"	30	100'
T26625	7/8"	5/8"	1/8"	40	100'
T26750	1"	3/4"	1/8"	35	100'
T26875	1 1/8"	7/8"	1/8"	30	50'
T26000	1 1/4"	1"	1/8"	28	50'

SEAMLESS RUBBER

Pipe Insulation

Flexible Closed Cell Insulation



DESCRIPTION

Seamless Rubber Pipe Insulation is an environmentally friendly, CFC-free, flexible elastomeric thermal insulation.

APPLICATIONS

Seamless Rubber Pipe Insulation is used to retard heat gain and prevent condensation or frost formation on refrigerant lines, cold water plumbing, and chilled water systems. It also retards heat flow for hot water plumbing, liquid heating, dual temperature piping, and many solar systems.

Seamless Rubber is recommended for applications ranging from -70°F to 220° F (-57° C to 104° C). The expanded closed cell structure makes Seamless Rubber an efficient insulator and an effective moisture vapor retarder.

Due to its unique microwave curing process, Seamless Rubber has a very tough skin which withstands tearing, rough handling, and severe environmental conditions, and yet is quite flexible for easy installation.

Seamless Rubber has superior cold weather flexibility.

INSTALLATION

With a factory-applied coating of talc on the smooth inner surface, Seamless Rubber slides easily over pipe or tubing for quick installation. When applied to existing lines, tubing is slit lengthwise and snapped into place. (Slitting can be done on the job with a sharp knife. All seams and butt joints should be sealed with Seamless Rubber Contact Adhesive, making sure both surfaces to be joined are coated with adhesive.

OUTDOOR APPLICATIONS

Outdoor applications require UV Protective Coating. For best appearance, two coats are recommended.

UNDERGROUND

For buried lines above the water table, use a clean fill such as sand (3"-5" layer) to protect Seamless Rubber before backfilling. It is recommended that materials to be buried are properly sealed at all seams and butt joints with Contact Adhesive. For optimum performance, the lines should be encased in a conduit to protect them from problems associated with ground water.

RESISTANCE TO MOISTURE VAPOR FLOW

The closed-cell structure of Seamless Rubber effectively retards the flow of moisture vapor, and is considered a low transmittance vapor retarder. For most applications, Seamless Rubber needs no additional protection. Additional vapor barrier protection may be necessary for Seamless Rubber when

installed on low temperature surfaces or where it is exposed to continuous high humidity.

FLAME AND SMOKE RATING

Seamless Rubber Pipe Insulation in wall thicknesses of 1" (25 mm) and below has a flame spread rating of 25 or less and a smoke development rating of 50 or less as tested by ASTM E 84 Method of Testing entitled: "Surface Burning Characteristics of Building Materials."

Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for us in the selection of products to meet limits specified, when compared to a known standard.

SPECIFICATION COMPLIANCE

ASTM C 534 Type 1 (Tubing)
ASTM D 1056-91-2C1
MEA 186-86-M Vol. IV (New York City)
USDA Requirements

UL 94-5V Flammability Classification
(Recognition No. E55475)
Complies with requirements of
CAN/ULC S102-M88
ASTM E 84 1" 25/50-tested
according to UL 723 and NFPA 255

Meets requirements of NFPA 90A
Sect. 2.3.3 for Supplementary Materials
for Air Distribution Systems

NFPA No. 101 Class A Rating
Meets requirements of UL 181 sections
11.0 and 16.0

MIL-P-15280, For T (Tubing)

PHYSICAL PROPERTIES		SEAMLESS RUBBER INSULATION	TEST METHODS
Thermal Conductivity (K) BTU -in/hr-Ft2 - °F (W/mK)	90° F (32° C) Mean Temp 75° F (24° C) Mean Temp 50° F (10° C) Mean Temp	.282 (.041) .277 (.040) .270 (.039)	ASTM C 177 ASTM C 177 ASTM C 177
Operating Temperature Range	Upper	200° F (104° C)	
Flexible to -100° F (-73° C)	Lower	-70° F (-57° C)	
Water Vapor Permeability Dry Cup. Perm-In		.10	ASTM E 96
Water Absorption % weight gain		5%	ASTM D 1056
Ozone Resistant		Pass	ASTM D 1171
Chemical/Solvent Resistance		Good	
Mildew Resistance/Air Erosion		Pass	UL 181

THICKNESS RECOMMENDATIONS* - TO CONTROL CONDENSATION

PIPE SIZE	LINE TEMP		LINE TEMP		LINE TEMP		LINE TEMP	
	50° F	10° C	35° F	2° C	0° F	-18° C	-20° F	-29° C
Normal Conditions (Max 85°F, 29°C - 70% R.H.)								
3/8" ID thru 1 3/8" ID	3/8"	10 mm	1/2"	13 mm	3/4"	19 mm	1"	25 mm
Over 1 3/8" thru 3" IPS	3/8"	10 mm	1/2"	13 mm	1"	25 mm	1"	25 mm
Over 3" IPS thru 4" IPS**	1/2"	13 mm	1/2"	13 mm	1"	25 mm	1 1/4"	32 mm
Over 4" IPS	1/2"	13 mm	3/4"	19 mm	1"	25 mm	1 1/4"	32 mm
Mild Conditions (Max 80°F, 26°C - 50% R.H.)								
3/8" ID thru 2 1/8" ID	3/8"	10 mm	3/8"	10 mm	1/2"	13 mm	1/2"	13 mm
Over 2 1/8" thru 3" IPS	3/8"	10 mm	3/8"	10 mm	1/2"	13 mm	3/4"	19 mm
Over 3" IPS thru 4" IPS**	1/2"	13 mm	1/2"	13 mm	3/4"	19 mm	3/4"	19 mm
Over 4" IPS	1/2"	13 mm	1/2"	13 mm	3/4"	19 mm	3/4"	19 mm
Severe Conditions (Max 90°F, 32°C - 80% R.H.)								
3/8" ID thru 1 1/8" ID	3/4"	19 mm	3/4"	19 mm	1 1/4"	32 mm	1 1/4"	32 mm
Over 1 1/8" ID thru 4" IPS	3/4"	19 mm	1"	25 mm	1 1/2"	38 mm	1 1/2"	38 mm
Over 4" IPS	3/4"	19 mm	1 1/4"	32 mm	1 3/4"	44 mm	2"	50 mm

Seamless Rubber in thickness notes within the specified temperature ranges will prevent condensation on indoor piping under design conditions defined below. Thickness recommendations above 1" can be sleeved to achieve thickness desired.

Normal: Maximum severity of indoor conditions seldom exceed 85° F (29° C) and 70% R.H. in United States.

Mild: Typical conditions are most air-conditioned spaces and arid climates.

Severe: Generally found in areas which excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient. Under conditions of high humidity, additional thickness of insulation may be required.

**Available: Nom. 1/2" or Nom. 3/4" thickness only

SEAMLESS RUBBER "R" VALUES PER SQUARE FOOT

Pipe OD or Nominal Insulation ID		R Value 3/8" (10 mm) Wall	R Value 1/2" (13 mm) Wall	R Value 3/4" (19 mm) Wall	R Value 1" (25 mm) Wall
3/8"	10 mm	2.3	3.1	4.7	-
1/2"	13 mm	2.2	2.9	4.7	7.6
5/8"	16 mm	2.1	2.7	4.6	7.1
3/4"	19 mm	2.0	2.6	4.6	6.7
7/8"	22 mm	1.9	2.7	4.6	6.5
1 1/8"	29 mm	1.8	2.6	4.6	5.1
1 3/8"	35 mm	1.8	2.7	4.4	5.8
1 1/2" IPS	-	2.0	2.6	4.3	5.5
1 5/8"	41 mm	2.1	2.7	4.3	5.5
2 1/8"	54 mm	1.9	2.6	4.0	5.2
2" IPS	-	2.0	2.7	4.1	5.2
2 1/2" IPS	64 mm	1.9	2.6	3.9	5.0
2 5/8"	67 mm	2.0	2.7	4.0	5.1
3 1/8"	79 mm	1.9	2.5	3.8	4.9
3" IPS	-	2.0	2.8	3.9	5.0
3 5/8"	92 mm	-	2.6	3.7	-
4 1/8"	105 mm	-	2.6	3.7	-
4" IPS	-	-	2.8	3.9	-
5" IPS	-	1.9	2.6	3.9	-
6" IPS	-	-	2.4	3.6	-
8" IPS	-	-	2.4	3.6	-

Note: "R" factors were calculated from using the K factor of .277 (75°F, 24°C mean temp) and nominal wall thickness in each case. Lower operating temperatures will result in improved R values.

Seamless Rubber Pipe Insulation



- Environmentally friendly
- 4 Wall thicknesses: 3/8", 1/2", 3/4" and 1"
- Sizes range from 3/8" ID to 4" IPS
- Sizes not listed are special order. Allow two weeks for delivery.
- CFC-free
- Color - Black with blue ink
- Easy installation, flexible
- CARTON QUANTITIES ONLY

3/8" Wall Thickness

PART NO.	COPPER OD	IPS/PVC	FT/BOX
I60025	1/4"	-	720'
I60038	3/8"	-	612'
I60050	1/2"	1/4"	432'
I60058	5/8"	3/8"	378'
I60075	3/4"	-	342'
I60078	7/8"	1/2"	288'
I60118	1 1/8"	-	216'
I60138	1 3/8"	-	168'
I60158	1 5/8"	1 1/4"	150'
I60200	-	1 1/2"	120'
I60218	2 1/8"	-	96'
I60250	-	2"	84'
I60258	2 5/8"	-	72'
I60300	-	2 1/2"	60'
I60318	3 1/8"	-	60'
I60350	-	3"	48'

1/2" Wall Thickness

PART NO.	COPPER OD	IPS/PVC	FT/BOX
I61038	3/8"	-	456'
I61050	1/2"	1/4"	360'
I61058	5/8"	3/8"	324'
I61075	3/4"	-	270'
I61078	7/8"	1/2"	228'
I61118	1 1/8"	-	156'
I61138	1 3/8"	-	120'
I61158	1 5/8"	1 1/4"	114'
I61200	-	1 1/2"	114'
I61218	2 1/8"	-	102'
I61250	-	2"	66'
I61258	2 5/8"	-	60'
I61300	-	2 1/2"	48'
I61318	3 1/8"	-	48'
I61350	-	3"	36'
I61358	3 5/8"	-	36'
I61418	4 1/8"	-	24'
I61450	-	4"	24'

Seamless Rubber Pipe Insulation



- Environmentally friendly
- 4 Wall thicknesses: 3/8", 1/2", 3/4" and 1"
- Sizes range from 3/8" ID to 4" IPS
- Sizes not listed are special order. Allow two weeks for delivery.
- CFC-free
- Color - Black with blue ink
- Easy installation, flexible
- CARTON QUANTITIES ONLY

3/4" Wall Thickness

PART NO.	COPPER OD	IPS/PVC	FT/BOX
I62038	3/8"	-	294'
I62050	1/2"	1/4"	228'
I62058	5/8"	3/8"	180'
I62075	3/4"	-	144'
I62078	7/8"	1/2"	126'
I62118	1 1/8"	-	90'
I62138	1 3/8"	-	78'
I62158	1 5/8"	1 1/4"	72'
I62200	-	1 1/2"	66'
I62218	2 1/8"	-	60'
I62250	-	2"	48'
I62258	2 5/8"	-	42'
I62300	-	2 1/2"	36'
I62318	3 1/8"	-	36'
I62350	-	3"	30'
I62358	3 5/8"	-	30'
I62418	4 1/8"	-	24'
I62450	-	4"	24'

1" Wall Thickness

PART NO.	COPPER OD	IPS/PVC	FT/BOX
I63058	5/8"	3/8"	108'
I63075	3/4"	-	108'
I63078	7/8"	1/2"	90'
I63118	1 1/8"	-	66'
I63138	1 3/8"	-	60'
I63158	1 5/8"	1 1/2"	54'
I63200	-	1 1/2"	42'
I63218	2 1/8"	-	42'
I63250	-	2"	36'
I63258	2 5/8"	-	36'
I63300	-	2 1/2"	36'
I63318	3 1/8"	-	30'
I63350	-	3"	30'
I63358	3 5/8"	-	30'

Double Stick Rubber Pipe Insulation



- Environmentally friendly
- 4 Wall thicknesses: 3/8", 1/2", 3/4" and 1"
- Sizes range from 3/8" ID to 4" IPS
- Split with adhesive on both sides
- CFC-free
- Color - Black with blue ink
- Easy installation, flexible
- CARTON QUANTITIES ONLY

3/8" Wall Thickness

PART NO.	COPPER OD/IPS	FT/BOX
I80038	3/8"	570'
I80050	1/2"	402'
I80058	5/8"	348'
I80034	3/4"	318'
I80078	7/8"	288'
I80118	1 1/8"	216'
I80138	1 3/8"	150'
I80150	1 1/2" IPS	120'
I80158	1 5/8"	132'
I80200	2" IPS	78'
I80218	2 1/8"	78'
I80250	2 1/2" IPS	60'
I80258	2 5/8"	72'
I80318	3 1/8"	60'

1/2" Wall Thickness

PART NO.	COPPER OD/IPS	FT/BOX
I81038	3/8"	420'
I81050	1/2"	312'
I81058	5/8"	312'
I81034	3/4"	270'
I81078	7/8"	216'
I81118	1 1/8"	150'
I81138	1 3/8"	120'
I81150	1 1/2" IPS	108'
I81158	1 5/8"	108'
I81200	2" IPS	60'
I81218	2 1/8"	60'
I81250	2 1/2" IPS	48'
I81258	2 5/8"	60'
I81300	3" IPS	36'
I81318	3 1/8"	48'
I81358	3 5/8"	36'
I81400	4" IPS	24'
I81418	4 1/8"	24'

Double Stick Rubber Pipe Insulation



- Environmentally friendly
- 4 Wall thicknesses: 3/8", 1/2", 3/4" and 1"
- Sizes range from 3/8" ID to 4" IPS
- Split with adhesive on both sides
- CFC-free
- Color - Black with blue ink
- Easy installation, flexible
- CARTON QUANTITIES ONLY

3/4" Wall Thickness

PART NO.	COPPER OD/IPS	FT/BOX
I82038	3/8"	258'
I82050	1/2"	192'
I82058	5/8"	180'
I82034	3/4"	120'
I82078	7/8"	126'
I82118	1 1/8"	90'
I82138	1 3/8"	78'
I82150	1 1/2" IPS	66'
I82158	1 5/8"	72'
I82200	2" IPS	48'
I82218	2 1/8"	60'
I82250	2 1/2" IPS	36'
I82258	2 5/8"	42'
I82300	3" IPS	30'
I82318	3 1/8"	36'
I82358	3 5/8"	30'
I82400	4" IPS	24'
I82418	4 1/8"	24'

1" Wall Thickness

PART NO.	COPPER OD/IPS	FT/BOX
I83058	5/8"	108'
I83034	3/4"	78'
I83078	7/8"	78'
I83118	1 1/8"	66'
I83138	1 3/8"	60'
I83150	1 1/2" IPS	42'
I83158	1 5/8"	42'
I83200	2" IPS	36'
I83218	2 1/8"	42'
I83250	2 1/2" IPS	36'
I83258	2 5/8"	36'
I83300	3" IPS	30'
I83318	3 1/8"	30'
I83358	3 5/8"	30'
I83418	4 1/8"	18'

CLOSED CELL Pipe Insulation



DESCRIPTION

Closed Cell Pipe Insulation is a flexible and easy-to-apply tubing product available in Semi-Slit and Self-Sealing styles. These chemically inert pipe insulations are specially formulated to retard heat gain and their closed-cell structures allow them to function as efficient insulators. The Self-Sealing version has yellow self-seal release liner that is both easy to see and peel.

APPLICATIONS

To reduce unwanted heat loss or heat gain, control condensation, decrease plumbing noise and maximize energy savings. They can be used on hot and cold water lines, refrigeration lines, air conditioning lines; line set tubing, condenser coils, and connection and distribution lines.

Closed Cell Pipe Insulation has low thermal conductivity and a very low water vapor transmission rate. This low density product demonstrates excellent thermal, physical and chemical resistant properties, and has a broad service temperature range between -90° F and 180° F (-68° C and 82° C). It can be installed in commercial, industrial, and residential insulation projects.

INSTALLATION

Closed Cell Pipe Insulation is installed by sliding the stick over pipe or tubing. For existing lines, the insulation should be slit lengthwise and fitted over the pipe. When in place, make sure all seams are adhered with contact adhesive and pressed together to form a seal. The Self-Sealing version does not require adhesive. Fittings can be fabricated from miter-cut tubular sections. Closed Cell Pipe Insulation is easily cut with a sharp knife.

OUTDOOR APPLICATIONS

Outdoor applications require a protective coating (high quality exterior acrylic latex paint) for optimum performance. For best appearance, two coats are recommended.

UNDERGROUND

For buried lines above the water table, use a clean fill such as sand (3"-5" layer) to protect Closed Cell Pipe Insulation before backfilling. It is recommended that all materials to be buried are properly sealed at all seams and butt joints with Contact Adhesive. For optimum performance, the lines should be encased in conduit to protect them from problems associated with ground water.

RESISTANCE TO MOISTURE VAPOR FLOW

The closed-cell structure effectively retards the flow of moisture vapor, and is considered a low transmittance vapor retarder. For most applications, Closed Cell Pipe Insulation needs no additional protection.

Additional vapor barrier protection may be necessary for Closed Cell Pipe Insulation when installed on low temperature surfaces or where it is exposed to continuous high humidity.

FLAME AND SMOKE RATING

Closed Cell Pipe Insulation in wall thicknesses of 1" (25mm) and below has a flame spread rating of 25 or less and a smoke development rating of 50 or less as tested by ASTM E 84; CAN/ULC-S102.2-M88 Method of Testing entitled: "Surface Burning Characteristics of Building Materials."

Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limits specified, when compared to a known standard.

SPECIFICATION COMPLIANCE

Complies with requirements of:

ASTM E 84; CAN/ULC S102.2

ASTM D 1622

ASTM D 1171

ASTM C 177 or C518

ASTM E 96

PHYSICAL DATA	PROPERTIES	TEST METHODS
Material	Closed Cell Polyolefin	-
Color	Charcoal	-
Upper Use Limit	180°F (82°C) constant	-
Lower Use Limit	-90°F (-68°C)	-
Density	1.5 lbs/ft³	ASTM D 1622
Ozone Resistant	Good	ASTM D 1171
Thermal Conductivity (K)	at 75° F (24°C) Mean Temp	ASTM C 177 or C 518
BTU-in/hr-ft² - F° (W/m-K)	0.230 (0.033)	-
Water Absorption	0.02% by Volume	ASTM E 96
Flame Speed	Less than 25	ASTM E 84; CAN/ULC-S102.2-M88
Smoke Classification	Less than 50	ASTM E 84; CAN/ULC-S102.2-M88

THICKNESS RECOMMENDATIONS* - TO CONTROL CONDENSATION								
PIPE SIZE	LINE TEMP		LINE TEMP		LINE TEMP		LINE TEMP	
	50° F	10° C	35° F	2° C	0° F	-18° C	-20° F	-29° C
Normal Conditions (Max 85°F, 29°C - 70% R.H.)								
3/8" ID thru 1 3/8" ID	3/8"	10 mm	1/2"	13 mm	3/4"	19 mm	1"	25 mm
Over 1 3/8" thru 3" IPS	3/8"	10 mm	1/2"	13 mm	1"	25 mm	1"	25 mm
Over 3" IPS thru 4" IPS**	3/8"	10 mm	1/2"	13 mm	1"	25 mm	1"	25 mm
Over 4" IPS	1/2"	13 mm	3/4"	19 mm	1"	25 mm	1 1/4"	32 mm
Mild Conditions (Max 80°F, 26°C - 50% R.H.)								
3/8" ID thru 2 1/8" ID	3/8"	10 mm	3/8"	10 mm	3/8"	10 mm	1/2"	13 mm
Over 2 1/8" thru 3" IPS	3/8"	10 mm	3/8"	10 mm	3/8"	10 mm	1/2"	13 mm
Over 3" IPS thru 4" IPS**	3/8"	10 mm	3/8"	10 mm	1/2"	13 mm	3/4"	19 mm
Over 4" IPS	3/8"	10 mm	1/2"	13 mm	1/2"	13 mm	3/4"	19 mm
Severe Conditions (Max 90°F, 32°C - 80% R.H.)								
3/8" ID thru 1 1/8" ID	3/4"	19 mm	3/4"	19 mm	1 1/4"	32 mm	1 1/4"	32 mm
Over 1 1/8" ID thru 4" IPS	3/4"	19 mm	1"	25 mm	1 1/2"	38 mm	1 1/2"	38 mm
Over 4" IPS	3/4"	19 mm	1"	25 mm	1 1/2"	38 mm	2"	50 mm

Closed Cell Pipe Insulation in thickness notes within the specified temperature ranges will prevent condensation on indoor piping under design conditions defined below. Thickness recommendations above 1" can be sleeved to achieve thickness desired.

Normal: Maximum severity of indoor conditions seldom exceed 85° F (29° C) and 70% R.H. in United States.

Mild: Typical conditions are most air-conditioned spaces and arid climates.

Severe: Generally found in areas which excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient. Under conditions of high humidity, additional thickness of insulation may be required.

**Available: Nom. 1/2" or Nom. 3/4" thickness only

CLOSED CELL "R" VALUES PER SQUARE FOOT					
Pipe OD or Nominal Insulation ID		R Value 3/8" (10 mm) Wall	R Value 1/2" (13 mm) Wall	R Value 3/4" (19 mm) Wall	R Value 1" (25 mm) Wall
3/8"	10 mm	2.687	3.844	-	-
1/2"	13 mm	2.490	3.582	6.027	-
5/8"	16 mm	2.357	3.375	5.653	8.189
3/4"	19 mm	2.680	3.223	5.374	7.767
7/8"	22 mm	2.187	3.107	5.155	7.435
1 1/8"	29 mm	2.082	4.835	4.835	6.941
1 3/8"	35 mm	2.011	2.822	4.610	6.588
1 5/8"	41 mm	1.959	2.737	4.420	6.323
1 7/8"	-	1.920	2.672	4.313	6.115
2 1/8"	54 mm	1.889	2.620	4.209	5.948
2 3/8"	-	1.864	2.578	4.124	5.810
2 5/8"	67 mm	1.844	2.544	4.053	5.695
2 7/8"	-	1.827	2.514	3.993	5.596
3 1/8"	79 mm	1.812	2.490	3.942	5.512
3 1/2"	-	-	2.459	3.877	5.404
3 5/8"	92 mm	-	2.449	-	5.373
4"	105 mm	-	2.425	-	-
4 1/8"	-	-	2.418	-	5.264
4 1/2"	-	-	2.399	-	5.196

Note: "R" factors were calculated from using the K factor of .230 (75°F, 24°C mean temp) and nominal wall thickness in each case. Lower operating temperatures will result in improved R values.

Semi-Slit Pipe Insulation



- 100% closed cell polyethylene
- UPS shippable cartons - CARTON QUANTITIES ONLY
- For outdoor use, paint with a high quality exterior acrylic latex paint

SPECIFICATIONS:

Density: 1.5 lbs./cubic foot; Mold growth: None;
Temperature Range: -90° to 180°F; Flame/Smoke:
25/50; Water vapor permeability: less than .02
inches; Ozone resistance: Good

3/8" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I50058	5/8"	2.357	1/2"	3/8"	408'
I50075	3/4"	2.680	5/8"	-	360'
I50078	7/8"	2.187	3/4"	1/2"	300'
I50118	1 1/8"	2.082	1"	3/4"	240'
I50138	1 3/8"	2.011	1 1/4"	1"	192'
I50158	1 5/8"	1.959	1 1/2"	1 1/4"	132'
I50178	2"	1.920	-	1 1/2"	108'
I50218	2 1/8"	1.889	2"	-	90'
I50238	2 3/8"	1.864	-	2"	90'
I50258	2 5/8"	1.844	2 1/2"	-	72'

1/2" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I51058	5/8"	3.375	1/2"	3/8"	306'
I51078	7/8"	3.107	3/4"	1/2"	240'
I51118	1 1/8"	4.835	1"	3/4"	180'
I51138	1 3/8"	2.822	1 1/4"	1"	150'
I51158	1 5/8"	2.737	1 1/2"	1 1/4"	120'
I51178	2"	2.672	-	1 1/2"	90'
I51218	2 1/8"	2.620	2"	-	84'
I51238	2 3/8"	2.578	-	2"	66'
I51258	2 5/8"	2.544	2 1/2"	-	60'

3/4" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I54050	1/2"	6.027	3/8"	1/4"	204'
I54058	5/8"	5.653	1/2"	3/8"	180'
I54075	3/4"	5.374	5/8"	1/2"	168'
I54078	7/8"	5.155	3/4"	-	156'
I54118	1 1/8"	4.835	1"	-	102'
I54138	1 3/8"	4.610	1 1/4"	1"	90'
I54158	1 5/8"	4.420	1 1/2"	1 1/4"	84'
I54178	2"	4.313	-	1 1/2"	66'
I54218	2 1/8"	4.209	2"	-	54'
I54258	2 5/8"	4.053	2 1/2"	-	48'

1" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I55058	5/8"	8.189	1/2"	3/8"	108'
I55075	3/4"	7.767	5/8"	1/2"	102'
I55078	7/8"	7.435	3/4"	-	90'
I55118	1 1/8"	6.941	1"	-	90'
I55138	1 3/8"	6.588	1 1/4"	1"	72'
I55158	1 5/8"	6.323	1 1/2"	1 1/4"	60'
I55178	2"	6.115	-	1 1/2"	54'
I55218	2 1/8"	5.948	2"	-	48'
I55258	2 5/8"	5.695	2 1/2"	-	42'

Self-Sealing Pipe Insulation



- 100% closed cell polyethylene
- UPS shippable cartons - CARTON QUANTITIES ONLY
- Complete seal on hot or cold pipe
- Two strips of self-adhesive seal easily at any length


SPECIFICATIONS:

Density: 1.5 lbs./cubic foot; Mold growth: None;
Temperature Range: -90° to 180°F; Flame/Smoke:
25/50; Water vapor permeability: less than .02
inches; Ozone resistance: Good

3/8" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I52058	5/8"	2.357	1/2"	3/8"	408'
I52034	3/4"	2.680	5/8"	-	360'
I52078	7/8"	2.187	3/4"	1/2"	300'
I52118	1 1/8"	2.082	1"	3/4"	240'
I52138	1 3/8"	2.011	1 1/4"	1"	192'
I52158	1 5/8"	1.959	1 1/2"	1 1/4"	132'
I52178	2"	1.920	-	1 1/2"	108'
I52218	2 1/8"	1.889	2"	-	90'
I52238	2 3/8"	1.864	-	2"	90'
I52258	2 5/8"	1.844	2 1/2"	-	72'
I52318	3 1/8"	1.812	3"	-	54'

1/2" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I53058	5/8"	3.375	1/2"	3/8"	306'
I53075	3/4"	3.223	3/4"	1/2"	270'
I53078	7/8"	3.107	3/4"	1/2"	240'
I53118	1 1/8"	4.835	1"	3/4"	180'
I53138	1 3/8"	2.822	1 1/4"	1"	150'
I53158	1 5/8"	2.737	1 1/2"	1 1/4"	120'
I53178	2"	2.672	-	1 1/2"	90'
I53218	2 1/8"	2.620	2"	-	84'
I53238	2 3/8"	2.578	-	2"	66'
I53258	2 5/8"	2.544	2 1/2"	-	60'
I53318	3 1/8"	2.490	3"	-	48'
I53312	3 1/2"	2.459	-	3"	42'
I53358	3 5/8"	2.449	3 1/2"	-	42'
I53418	4 1/8"	2.418	4"	-	30'
I53412	4 1/2"	2.399	-	4"	30'

3/4" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I56058	5/8"	5.653	1/2"	3/8"	180'
I56075	3/4"	5.374	5/8"	1/2"	168'
I56078	7/8"	5.155	3/4"	1/2"	156'
I56118	1 1/8"	4.835	1"	3/4"	102'
I56138	1 3/8"	4.610	1 1/4"	1"	90'
I56158	1 5/8"	4.420	1 1/2"	1 1/4"	84'
I56218	2 1/8"	4.209	2"	-	54'

1" Wall Thickness

PART NO.	NOMINAL ID	R VALUES	CTS	IPS	FT/BOX
I57058	5/8"	8.189	1/2"	3/8"	108'
I57078	7/8"	7.435	3/4"	1/2"	90'
I57115	3/4"	7.767	5/8"	-	102'
I57118	1 1/8"	6.941	1"	-	90'
I57138	1 3/8"	6.588	1 1/4"	1"	72'
I57158	1 5/8"	6.323	1 1/2"	1 1/4"	60'
I57178	2"	6.115	-	1 1/2"	54'
I57218	2 1/8"	5.948	2"	-	56'
I57238	2 3/8"	5.810	-	2"	42'
I57258	2 5/8"	5.695	2 1/2"	-	36'

Coupling (Socket) w/Rolled Tube Stop

C x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75001	K151650002	3/8"	25	2000
C75566	K151650015	5/16"	25	3000
C75002	K151650025	1/2"	25	1200
C75003	K151650050	5/8"	25	800
C75004	K151650090	3/4"	25	400
C75005	K151650100	7/8"	25	300
C75006	K151650150	1-1/8"	10	150

Reducing Coupling

C x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75077	K151650093	3/4" x 5/8"	25	500
C75081	K151650149	7/8" x 3/4"	25	350
C75084	K151650159	1-1/8" x 7/8"	10	160

90° Short Turn Ell

C x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75015	K152350002	3/8"	25	1200
C75018	K152350090	3/4"	25	300
C75020	K152350150	1-1/8"	10	100

90° Long Turn Ell

C x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75482	K152420002	3/8"	25	1200
C75540	K152420015	5/16"	25	1600
C75483	K152420025	1/2"	25	750
C75484	K152420050	5/8"	25	350
C75485	K152420090	3/4"	25	200
C75486	K152420100	7/8"	10	120
C75487	K152420150	1-1/8"	10	60

90° Short Turn Street Ell

Ftg x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75380	K152540090	3/4"	25	300
C75381	K152540100	7/8"	25	200

90° Long Turn Street Ell

Ftg x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75403	K152720002	3/8"	25	1200
C75405	K152720050	5/8"	25	350
C75406	K152720090	3/4"	25	200
C75407	K152720100	7/8"	10	120
C75408	K152720150	1-1/8"	10	60

45° Ell

C x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75043	K152900090	3/4"	25	300
C75044	K152900100	7/8"	25	200
C75045	K152900150	1-1/8"	10	100

45° Street Ell

Ftg x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75466	K152950090	3/4"	25	300
C75467	K152950100	7/8"	25	200

Fitting Reducer

Ftg x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75434	K154100107	7/8" x 5/8"	25	400
C75435	K154100149	7/8" x 3/4"	25	400
C75439	K154100159	1-1/8" x 7/8"	10	160

Tee

C x C x C



JSC #	LTC #	SIZE (OD)	CTN QTY	MSTR QTY
C75144	K154600002	3/8"	25	1300
C75147	K154600090	3/4"	25	200

Male Adapter

C x M



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101010050	1/2"	50	200
K101010057*	1/2" x 3/4"	25	250
K101010100	3/4"	25	150
K101010107*	3/4" x 1/2"	25	300
K101010105	3/4" x 1 1/4"	10	80
K101010150	1"	10	100
K101010215	1 1/4"	10	60
K101010295*	1 1/2"	10	50
K101010390*	2"	5	50
K101010520*	2 1/2"	-	20
K101010860*	4"	-	-

Hose Adapter

C x Hose Thd



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101020057*	1/2" x 3/4"	-	75

Female Adapter

C x F



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101050050	1/2"	50	400
K101050057*	1/2" x 3/4"	-	-
K101050100	3/4"	25	150
K101050105	3/4" x 1 1/4"	10	80
K101050106*	3/4" x 1"	-	150
K101050150	1"	10	100
K101050157*	1" x 1 1/2"	-	40
K101050215*	1 1/4"	10	100
K101050295	1 1/2"	10	100
K101050304*	1 1/2" x 1"	-	60
K101050390*	2"	-	24
K101050650*	3"	-	12

Fitting Female Adapter

Ftg x F



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101150059	1/2" x 1/4"	50	500
K101150107*	3/4" x 1/2"	-	-

Flush Bushing

Ftg x C



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101400663	3" x 2"	-	25

Drain Coupling w/Cap



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101750050*	1/2"	10	200
K101750100*	3/4"	25	200

Cross

C x C x C x C



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K101950050	1/2"	45	180
K101950100	3/4"	10	100
K101950150*	1"	5	100
K101950215*	1 1/4"	5	50
K101950390*	2"	-	25

90° Ell

C x C



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K102350223	1 1/4" x 3/4"	10	60

90° Ell w/Drain Cap

C x C



* Cast

LTC #	SIZE	CTN QTY	MSTR QTY
K102360050	1/2"	-	25

90° Drop Ell

C x C

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K102400100	3/4"	10	80
K102400150*	1"	-	-

90° Hi-Ear Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K142400050	1/2"	25	250
K142400100	3/4"	10	100

90° Ell

C x M



LTC #	SIZE	CTN QTY	MSTR QTY
K102550025	3/8"	50	400
K102550050	1/2"	50	200
K102550057	1/2" x 3/4"	25	200
K102550058	1/2" x 3/8"	50	250
K102550100	3/4"	25	150
K102550107	3/4" x 1/2"	10	100
K102550150	1"	10	80
K102550215	1 1/4"	10	50
K102550295	1 1/2"	5	40
K102550390	2"	-	20

90° Hi-Ear Ell

C x FIP



LTC #	SIZE	CTN QTY	MSTR QTY
K142590050	1/2"	25	150
K142590100	3/4"	25	100

90° Flanged Sink Ell

C x F



LTC #	SIZE	CTN QTY	MSTR QTY
K102600050	1/2"	25	100

90° Ell

C x F

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K102570050	1/2"	50	250
K102570057	1/2" x 3/4"	25	150
K102570058	1/2" x 3/8"	25	250
K102570100	3/4"	25	100
K102570107	3/4" x 1/2"	25	200
K102570150	1"	10	50
K102570160	1" x 1/2"	10	100
K102570215	1 1/4"	5	60
K102570295	1 1/2"	5	20
K102570390	2"	-	20

90° Drop Ell

C x FIP

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K102590050	1/2"	25	200
K102590058	1/2" x 3/8"	25	200
K102590107	3/4" x 1/2"	25	100
K102590150*	1"	10	120

45° Ell

C x C

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K102900860*	4"	-	5

Drop Tee

C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K104670050	1/2"	25	250

Tee

C x C x F

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K104800025	3/8"	50	500
K104800050	1/2"	25	200
K104800057	1/2" x 1/2" x 3/4"	25	200
K104800058	1/2" x 1/2" x 3/8"	25	200
K104800100	3/4"	10	100
K104800106	3/4" x 3/4" x 1"	25	50
K104800107	3/4" x 3/4" x 1/2"	25	100
K104800108	3/4" x 3/4" x 3/8"	-	-
K104800117	3/4" x 1/2" x 3/4"	25	100
K104800150	1"	5	60
K104800159	1" x 1" x 3/4"	10	80
K104800160	1" x 1" x 1/2"	10	100
K104800215*	1 1/4"	-	50
K104800222*	1 1/4" x 1 1/4" x 1"	-	25
K104800223	1 1/4" x 1 1/4" x 3/4"	10	50
K104800224	1 1/4" x 1 1/4" x 1/2"	10	50
K104800295	1 1/2"	-	25
K104800304	1 1/2" x 1 1/2" x 1"	5	40
K104800306	1 1/2" x 1 1/2" x 1/2"	5	40
K104800400	2" x 2" x 1"	-	25

Drop Tee

C x C x F



LTC #	SIZE	CTN QTY	MSTR QTY
K104820050	1/2"	25	150

Tee

C x F x C

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K104920050	1/2"	25	300
K104920100	3/4"	10	100
K104920117	3/4" x 1/2" x 3/4"	25	100
K104920150*	1"	-	15
K104920169	1" x 3/4" x 1"	10	40
K104920180	1" x 1/2" x 1"	10	50

Tee

C x F x F

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K104950050*	1/2"	-	30

Baseboard Tee

C x F x C



LTC #	SIZE	CTN QTY	MSTR QTY
K104920081	1/2" x 1/8" x 1/2"	50	250
K104920143	3/4" x 1/8" x 3/4"	25	100
K104920206	1" x 1/8" x 1"	10	50
K104920283	1 1/4" x 1/8" x 1 1/4"	10	60

Tee

F x F x C

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K104980050	1/2"	25	100
K104980100*	3/4"	-	25
K104980118	3/4" x 1/2" x 1/2"	10	100
K104980107	3/4" x 3/4" x 1/2"	10	100

45° Wye

C x C x C

* Cast



LTC #	SIZE	CTN QTY	MSTR QTY
K108400100	3/4"	-	120
K108400295	1 1/2"	5	50
K108400390	2"	-	-

Union

C x M



LTC #	SIZE	CTN QTY	MSTR QTY
K126610025	3/8"	25	300
K126610050	1/2"	25	200
K126610100	3/4"	10	100
K126610150	1"	10	50
K126610215	1 1/4"	5	30
K126610295	1 1/2"	-	50
K126610390	2"	-	25

Union

C x F



LTC #	SIZE	CTN QTY	MSTR QTY
K126650050	1/2"	25	200
K126650100	3/4"	25	100
K126650150	1"	10	100
K126650215	1 1/4"	5	40
K126650295	1 1/2"	-	50
K126650390	2"	-	25

Male Adapter

C x M



LTC #	SIZE	CTN QTY	MSTR QTY
161010295	1 1/2"	10	100
161010390	2"	5	100

Female Adapter

C x F



LTC #	SIZE	CTN QTY	MSTR QTY
161050215	1 1/4"	-	150
161050295	1 1/2"	10	100
161050390	2"	10	100

Test Cap

LTC #	SIZE	CTN QTY	MSTR QTY
161570050	1/2"	-	-
161570100	3/4"	-	-
161570150	1"	-	400
161570215	1 1/4"	50	600
161570295	1 1/2"	50	600
161570390	2"	50	100
161570650	3"	25	200

Tee

C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
164600390	2"	5	25
164600398	2" x 1 1/2"	5	50
164600665	3" x 1 1/4"	5	40

Coupling w/Stop

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
161650215	1 1/4"	25	250
161650295	1 1/2"	25	250
161650303	1 1/2" x 1 1/4"	25	300
161650390	2"	-	250
161650398	2" x 1 1/2"	10	100
161650399	2" x 1 1/4"	10	100
161650650	3"	-	80
161650663	3" x 2"	5	100
161650664	3" x 1 1/2"	5	50
161650860	4"	-	36
161650872	4" x 2"	-	-

Coupling Less Stop

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
161720215	1 1/4"	25	200
161720295	1 1/2"	25	200
161720390	2"	-	100
161720650	3"	-	-
161720860	4"	2	2

90° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
162350215	1 1/4"	25	100
162350295	1 1/2"	10	100
162350390	2"	5	50

90° Long Turn Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
162420295	1 1/2"	-	-
162420390	2"	-	-

90° Street Ell

Ftg x C



LTC #	SIZE	CTN QTY	MSTR QTY
162540215	1 1/4"	-	200
162540295	1 1/2"	10	100
162540390	2"	50	50

45° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
162900215	1 1/4"	25	200
162900295	1 1/2"	25	150
162900390	2"	5	5
162900650	3"	2	2

45° Street Ell

Ftg x C



LTC #	SIZE	CTN QTY	MSTR QTY
162950215	1 1/4"	10	10
162950295	1 1/2"	10	100
162950390	2"	5	50

Fitting Reducer

Ftg x C



LTC #	SIZE	CTN QTY	MSTR QTY
164100303	1 1/2" x 1 1/4"	25	250
164100398	2" x 1 1/2"	10	100
164100399	2" x 1 1/4"	-	-
164100663	3" x 2"	-	50
164100664	3" x 1 1/2"	5	50

Male Adapter

C x M



LTC #	SIZE	CTN QTY	MSTR QTY
K201010215	1 1/4"	10	300
K201010295	1 1/2"	10	100
K201010303	1 1/2" x 1 1/4"	75	75
K201010390	2"	60	60
K201010650	3"	-	20
K201010860	4"	-	20

Female Adapter

C x F



LTC #	SIZE	CTN QTY	MSTR QTY
K201050221	1 1/4" x 1 1/2"	-	5
K201050295	1 1/2"	10	150
K201050302	1 1/2" x 2"	-	5
K201050650	3"	-	25
K201050860	4"	-	20

Soil Pipe Adapter

C x Spigot



LTC #	SIZE	CTN QTY	MSTR QTY
K201100390	2"	50	50
K201100394	2" x 4"	-	25
K201100650	3"	-	5

Soil Pipe Adapter

C x No Hub



LTC #	SIZE	CTN QTY	MSTR QTY
K201120302	1 1/2" x 2"	-	50
K201120390	2"	50	50

Female Adapter

Ftg x F



LTC #	SIZE	CTN QTY	MSTR QTY
K201150295	1 1/2"	100	100
K201150390	2"	50	50

Trap Adapter

F x SJ



LTC #	SIZE	CTN QTY	MSTR QTY
K201200295	1 1/2"	-	10

Cap

LTC #	SIZE	CTN QTY	MSTR QTY
K201540295	1 1/2"	-	-

Fitting Cleanout

Ftg x Cleanout w/Plug



LTC #	SIZE	CTN QTY	MSTR QTY
K201610215	1 1/4"	120	120
K201610295	1 1/2"	-	100
K201610390	2"	60	60

Flush Fitting Cleanout

Ftg x Cleanout w/Plug



LTC #	SIZE	CTN QTY	MSTR QTY
K201620215	1 1/4"	-	25
K201620650	3"	25	25

Coupling

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K201650663	3" x 2"	-	-
K201650664	3" x 1 1/2"	-	-
K201650872	4" x 2"	-	25

90° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K202350303	1 1/2" x 1 1/4"	75	75
K202350398	2" x 1 1/2"	25	25
K202350650	3"	10	10
K202350663	3" x 2"	25	25
K202350860	4"	-	-

90° Street Ell

Ftg x C



LTC #	SIZE	CTN QTY	MSTR QTY
K202540215	1 1/4"	-	25
K202540390	2"	20	20
K202540650	3"	-	-
K202540860	4"	-	10

90° Ell

C x M



LTC #	SIZE	CTN QTY	MSTR QTY
K202550295	1 1/2"	50	50

90° Ell

C x F



LTC #	SIZE	CTN QTY	MSTR QTY
K202570295	1 1/2"	75	75
K202570390	2"	-	25

60° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K202850390	2"	80	80
K202850650	3"	20	20

45° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K202900860	4"	-	-

45° Ell

Ftg x C



LTC #	SIZE	CTN QTY	MSTR QTY
K202950650	3"	-	25

45° Ell

C x M



LTC #	SIZE	CTN QTY	MSTR QTY
K202960295	1 1/2"	-	-

22 1/2° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K203100215	1 1/4"	-	25
K203100295	1 1/2"	-	-
K203100390	2"	-	50
K203100860	4"	15	15

1 1/4° Ell

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K203150295	1 1/2"	-	10
K203150650	3"	20	20

Extended Bushing

Ftg x C



LTC #	SIZE	CTN QTY	MSTR QTY
K204100663	3" x 2"	-	-
K204100870	4" x 3"	40	40

Return Bend

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K204180295	1 1/2"	-	-

Tee

C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K204600215	1 1/4"	50	50
K204600295	1 1/2"	60	60
K204600390	2"	25	25
K204600398	2" x 1 1/2"	40	40
K204600413	2" x 1 1/2" x 2"	-	-
K204600414	2" x 1 1/2" x 1 1/2"	50	50
K204600650	3"	15	15
K204600663	3" x 3" x 2"	10	10
K204600860	4"	-	5
K204600873	4" x 1 1/2"	-	10

Double Tee

C x C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K204650295	1 1/2"	25	25
K204650390	2"	-	25
K204650398	2" x 1 1/2"	-	-
K204650695	3" x 2"	-	15

Tee

C x C x F



LTC #	SIZE	CTN QTY	MSTR QTY
K204800215	1 1/4"	50	50
K204800295	1 1/2"	60	60
K204800390	2"	-	25
K204800414	2" x 1 1/2" x 1 1/2"	20	20

Test Tee

C x C x Cleanout w/Plug



LTC #	SIZE	CTN QTY	MSTR QTY
K204850295	1 1/2"	-	50
K204850390	2"	-	25

Tee

C x F x C



LTC #	SIZE	CTN QTY	MSTR QTY
K204920295	1 1/2"	-	-

Utility Tee

C x C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K204990390	2"	-	-

Double Long Turn T-Y

C x C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K205220390	2"	-	25

Wye

C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K208400215	1 1/4"	-	-
K208400295	1 1/2"	-	50
K208400303	1 1/2" x 1 1/4"	-	-
K208400390	2"	-	25
K208400398	2" x 1 1/2"	-	50
K208400399	2" x 1 1/4"	-	50
K208400413	2" x 1 1/2" x 2"	-	50
K208400650	3"	-	-
K208400664	3" x 3" x 1 1/2"	-	-
K208400665	3" x 3" x 1 1/4"	-	25

Double Wye

C x C x C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K208450295	1 1/2"	-	50
K208450650	3"	-	10
K208450695	3" x 2"	-	-

Swivel Drum Trap

C x C x Cleanout w/Plug



LTC #	SIZE	CTN QTY	MSTR QTY
K245411541	1 1/2" x 3" x 6"	20	20

P-Traps

C x C



LTC #	SIZE	CTN QTY	MSTR QTY
K245500215	1 1/4"	-	-
K245500295	1 1/2"	-	-
K245500390	2"	20	20

P-Traps w/Cleanout

C x C x Cleanout w/Plug



LTC #	SIZE	CTN QTY	MSTR QTY
K245510215	1 1/4"	-	50
K245510295	1 1/2"	20	20
K245510390	2"	-	25

P-Trap

C x SJ



LTC #	SIZE	CTN QTY	MSTR QTY
K245540295	1 1/2"	-	25

P-Trap w/Union Joint LA Pattern

F x SJ



LTC #	SIZE	CTN QTY	MSTR QTY
K245560295	1 1/2"	-	-

P-Trap w/Union Joint & Cleanout

C x SJ x Cleanout w/Plug



LTC #	SIZE	CTN QTY	MSTR QTY
K245610295	1 1/2"	-	50

Hexagon Bushings

M x F, Concentric



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B144-0007	G144-0007	1/4" x 1/8"	120	1,440
B144-0032	G144-0032	3/8" x 1/4"	75	900
B144-0033	G144-0033	3/8" x 1/8"	75	900
B144-0058	G144-0058	1/2" x 3/8"	100	1,200
B144-0059	G144-0059	1/2" x 1/4"	100	1,200
B144-0060	G144-0060	1/2" x 1/8"	100	1,200
B144-0107	G144-0107	3/4" x 1/2"	50	600
B144-0108	G144-0108	3/4" x 3/8"	50	600
B144-0109	G144-0109	3/4" x 1/4"	50	600
B144-0110	G144-0110	3/4" x 1/8"	50	600
B144-0159	G144-0159	1" x 3/4"	50	400
B144-0160	G144-0160	1" x 1/2"	50	400
B144-0161	G144-0161	1" x 3/8"	50	400
B144-0162	G144-0162	1" x 1/4"	50	400
B144-0222	G144-0222	1-1/4" x 1"	30	240
B144-0223	G144-0223	1-1/4" x 3/4"	30	240
B144-0224	G144-0224	1-1/4" x 1/2"	30	240
B144-0225	G144-0225	1-1/4" x 3/8"	30	240
B144-0226	G144-0226	1-1/4" x 1/4"	30	240
B144-0303	G144-0303	1-1/2" x 1-1/4"	25	150
B144-0304	G144-0304	1-1/2" x 1"	25	150
B144-0305	G144-0305	1-1/2" x 3/4"	25	150
B144-0306	G144-0306	1-1/2" x 1/2"	25	150
B144-0307	G144-0307	1-1/2" x 3/8"	25	150
B144-0308	G144-0308	1-1/2" x 1/4"	25	150
B144-0398	G144-0398	2" x 1-1/2"	20	120
B144-0399	G144-0399	2" x 1-1/4"	20	120
B144-0400	G144-0400	2" x 1"	20	120
B144-0401	G144-0401	2" x 3/4"	20	120
B144-0402	G144-0402	2" x 1/2"	20	120
B144-0403	G144-0403	2" x 3/8"	20	120
B144-0531	G144-0531	2-1/2" x 2"	15	60
B144-0532	G144-0532	2-1/2" x 1-1/2"	15	60
B144-0533	G144-0533	2-1/2" x 1-1/4"	15	60
B144-0534	G144-0534	2-1/2" x 1"	15	60
B144-0535	G144-0535	2-1/2" x 3/4"	15	60
B144-0536	G144-0536	2-1/2" x 1/2"	15	60
B144-0662	G144-0662	3" x 2-1/2"	12	48
B144-0663	G144-0663	3" x 2"	12	48
B144-0664	G144-0664	3" x 1-1/2"	12	48
B144-0665	G144-0665	3" x 1-1/4"	12	48
B144-0666	G144-0666	3" x 1"	12	48
B144-0667	G144-0667	3" x 3/4"	12	48
B144-0668	G144-0668	3" x 1/2"	12	48
B144-0790	G144-0790	3-1/2" x 3"	8	32
B144-0870	G144-0870	4" x 3"	5	20
B144-0871	G144-0871	4" x 2-1/2"	5	20
B144-0872	G144-0872	4" x 2"	5	20
B144-0873	G144-0873	4" x 1-1/2"	5	20
B144-0874	G144-0874	4" x 1-1/4"	5	20
B144-0875	G144-0875	4" x 1"	5	20
B144-0876	G144-0876	4" x 3/4"	5	20
B144-1109	G144-1109	6" x 4"	4	8
B144-1111	G144-1111	6" x 3"	4	8

Cap



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B155-0001	G155-0001	1/8"	120	1,440
B155-0002	G155-0002	1/4"	80	960
B155-0025	G155-0025	3/8"	60	720
B155-0050	G155-0050	1/2"	75	900
B155-0100	G155-0100	3/4"	40	480
B155-0150	G155-0150	1"	35	280
B155-0215	G155-0215	1-1/4"	25	200
B155-0295	G155-0295	1-1/2"	25	150
B155-0390	G155-0390	2"	18	108
B155-0520	G155-0520	2-1/2"	14	56
B155-0650	G155-0650	3"	12	36
B155-0860	G155-0860	4"	7	21
B155-0975	G155-0975	5"	8	16
B155-1100	G155-1100	6"	4	8

Extension Piece

M x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B335-0050	G335-0050	1/2"	75	75
B335-0100	G335-0100	3/4"	40	320
B335-0150	G335-0150	1"	30	180
B335-0215	G335-0215	1-1/4"	30	120
B335-0295	G335-0295	1-1/2"	20	80
B335-0390	G335-0390	2"	15	60

Coupling, Banded

F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B165-0001	G165-0001	1/8"	70	840
B165-0002	G165-0002	1/4"	40	480
B165-0025	G165-0025	3/8"	50	600
B165-0050	G165-0050	1/2"	60	480
B165-0100	G165-0100	3/4"	50	300
B165-0150	G165-0150	1"	25	150
B165-0215	G165-0215	1-1/4"	32	128
B165-0295	G165-0295	1-1/2"	18	72
B165-0390	G165-0390	2"	12	48
B165-0520	G165-0520	2-1/2"	4	32
B165-0650	G165-0650	3"	12	24
B165-0860	G165-0860	4"	3	6
B165-1100	G165-1100	6"	3	6

Reducing Coupling, Banded

F x F, Concentric



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B165-0007	G165-0007	1/4" x 1/8"	50	600
B165-0032	G165-0032	3/8" x 1/4"	30	360
B165-0033	G165-0033	3/8" x 1/8"	35	420
B165-0058	G165-0058	1/2" x 3/8"	40	480
B165-0059	G165-0059	1/2" x 1/4"	50	600
B165-0060	G165-0060	1/2" x 1/8"	50	600
B165-0107	G165-0107	3/4" x 1/2"	60	360
B165-0108	G165-0108	3/4" x 3/8"	30	360
B165-0109	G165-0109	3/4" x 1/4"	30	360
B165-0110	G165-0110	3/4" x 1/8"	35	0
B165-0159	G165-0159	1" x 3/4"	25	200
B165-0160	G165-0160	1" x 1/2"	40	240
B165-0161	G165-0161	1" x 3/8"	40	240
B165-0162	G165-0162	1" x 1/4"	45	220
B165-0222	G165-0222	1-1/4" x 1"	20	120
B165-0223	G165-0223	1-1/4" x 3/4"	25	150
B165-0224	G165-0224	1-1/4" x 1/2"	25	150
B165-0225	G165-0225	1-1/4" x 3/8"	25	150
B165-0303	G165-0303	1-1/2" x 1-1/4"	24	96
B165-0304	G165-0304	1-1/2" x 1"	25	100
B165-0305	G165-0305	1-1/2" x 3/4"	30	120
B165-0306	G165-0306	1-1/2" x 1/2"	20	120
B165-0307	G165-0307	1-1/2" x 3/8"	30	120
B165-0398	G165-0398	2" x 1-1/2"	12	72
B165-0399	G165-0399	2" x 1-1/4"	14	84
B165-0400	G165-0400	2" x 1"	14	84
B165-0401	G165-0401	2" x 3/4"	14	84
B165-0402	G165-0402	2" x 1/2"	14	84
B165-0531	G165-0531	2-1/2" x 2"	10	40
B165-0532	G165-0532	2-1/2" x 1-1/2"	10	40
B165-0533	G165-0533	2-1/2" x 1-1/4"	10	40
B165-0534	G165-0534	2-1/2" x 1"	10	40
B165-0535	G165-0535	2-1/2" x 3/4"	10	40
—	G165-0536	2-1/2" x 1/2"	10	40
B165-0662	G165-0662	3" x 2-1/2"	12	24
B165-0663	G165-0663	3" x 2"	8	32
B165-0664	G165-0664	3" x 1-1/2"	8	32
B165-0665	G165-0665	3" x 1-1/4"	8	32
B165-0666	G165-0666	3" x 1"	8	32
B165-0667	G165-0667	3" x 3/4"	8	32
B165-0668	G165-0668	3" x 1/2"	8	32
B165-0870	G165-0870	4" x 3"	6	18
B165-0871	G165-0871	4" x 2-1/2"	6	18
B165-0872	G165-0872	4" x 2"	6	18
B165-0873	G165-0873	4" x 1-1/2"	6	18
B165-0874	G165-0874	4" x 1-1/4"	6	18
B165-0875	G165-0875	4" x 1"	6	18
B165-1109	G165-1109	6" x 4"	4	8
B165-1111	G165-1111	6" x 3"	6	18

Cross, Banded

F x F x F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B195-0001	G195-0001	1/8"	30	360
B195-0002	G195-0002	1/4"	80	480
B195-0025	G195-0025	3/8"	50	300
B195-0050	G195-0050	1/2"	45	180
B195-0100	G195-0100	3/4"	30	120
B195-0150	G195-0150	1"	20	60
B195-0215	G195-0215	1-1/4"	20	40
B195-0295	G195-0295	1-1/2"	18	36
B195-0390	G195-0390	2"	10	20
B195-0520	G195-0520	2-1/2"	4	12
B195-0650	G195-0650	3"	4	8
B195-0860	G195-0860	4"	2	4

Side Outlet 90 Ell, Banded

F x F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B247-0215	—	1-1/4"	50	600

90 Deg Elbow, Banded

F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B235-0001	G235-0001	1/8"	50	600
B235-0002	G235-0002	1/4"	35	420
B235-0025	G235-0025	3/8"	45	540
B235-0050	G235-0050	1/2"	50	400
B235-0100	G235-0100	3/4"	35	210
B235-0150	G235-0150	1"	20	120
B235-0215	G235-0215	1-1/4"	20	80
B235-0295	G235-0295	1-1/2"	20	60
B235-0390	G235-0390	2"	8	32
B235-0520	G235-0520	2-1/2"	8	18
B235-0650	G235-0650	3"	7	14
B235-0860	G235-0860	4"	2	6
B235-0975	G235-0975	5"	2	4
B235-1100	G235-1100	6"	1	2

90 Deg Reducing Elbow, Banded

F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B235-0007	G235-0007	1/4" x 1/8"	—	—
B235-0032	G235-0032	3/8" x 1/4"	60	720
B235-0058	G235-0058	1/2" x 3/8"	50	400
B235-0059	G235-0059	1/2" x 1/4"	40	480
B235-0060	G235-0060	1/2" x 1/8"	40	480
B235-0107	G235-0107	3/4" x 1/2"	40	240
B235-0108	G235-0108	3/4" x 3/8"	50	300
B235-0109	G235-0109	3/4" x 1/4"	40	320
B235-0159	G235-0159	1" x 3/4"	25	150
B235-0160	G235-0160	1" x 1/2"	30	180
B235-0161	G235-0161	1" x 3/8"	35	210
B235-0222	G235-0222	1-1/4" x 1"	20	80
B235-0223	G235-0223	1-1/4" x 3/4"	30	120
B235-0224	G235-0224	1-1/4" x 1/2"	35	140
B235-0303	G235-0303	1-1/2" x 1-1/4"	15	60
B235-0304	G235-0304	1-1/2" x 1"	20	80
B235-0305	G235-0305	1-1/2" x 3/4"	15	90
B235-0306	G235-0306	1-1/2" x 1/2"	25	100
B235-0398	G235-0398	2" x 1-1/2"	10	40
B235-0399	G235-0399	2" x 1-1/4"	10	40
B235-0400	G235-0400	2" x 1"	14	56
B235-0401	G235-0401	2" x 3/4"	15	60
B235-0402	G235-0402	2" x 1/2"	15	60
B235-0531	G235-0531	2-1/2" x 2"	12	24
B235-0532	G235-0532	2-1/2" x 1-1/2"	6	24
B235-0533	G235-0533	2-1/2" x 1-1/4"	6	24
B235-0534	G235-0534	2-1/2" x 1"	8	32
B235-0535	G235-0535	2-1/2" x 3/4"	10	40
B235-0536	G235-0536	2-1/2" x 1/2"	10	40
B235-0662	G235-0662	3" x 2-1/2"	4	16
B235-0663	G235-0663	3" x 2"	6	18
B235-0664	G235-0664	3" x 1-1/2"	5	20
B235-0870	G235-0870	4" x 3"	1	9
B235-0871	G235-0871	4" x 2-1/2"	4	8
B235-0872	G235-0872	4" x 2"	4	12

90 Street Ell, Banded

M x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B254-0001	G254-0001	1/8"	60	720
B254-0002	G254-0002	1/4"	35	420
B254-0025	G254-0025	3/8"	40	480
B254-0050	G254-0050	1/2"	60	360
B254-0100	G254-0100	3/4"	35	210
B254-0150	G254-0150	1"	30	120
B254-0215	G254-0215	1-1/4"	25	75
B254-0295	G254-0295	1-1/2"	18	54
B254-0390	G254-0390	2"	10	30
B254-0520	G254-0520	2-1/2"	9	18
B254-0650	G254-0650	3"	—	14
B254-0860	G254-0860	4"	—	6

45 Deg Ell, Banded

F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B290-0001	G290-0001	1/8"	50	600
B290-0002	G290-0002	1/4"	30	360
B290-0025	G290-0025	3/8"	50	600
B290-0050	G290-0050	1/2"	50	400
B290-0100	G290-0100	3/4"	40	240
B290-0150	G290-0150	1"	20	120
B290-0215	G290-0215	1-1/4"	20	80
B290-0295	G290-0295	1-1/2"	15	60
B290-0390	G290-0390	2"	12	36
B290-0520	G290-0520	2-1/2"	—	27
B290-0650	G290-0650	3"	—	20
B290-0860	G290-0860	4"	—	6
B290-0975	G290-0975	5"	—	—
B290-1100	G290-1100	6"	—	—

45 Street Ell, Banded

M x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B295-0001	G295-0001	1/8"	70	840
B295-0002	G295-0002	1/4"	40	480
B295-0025	G295-0025	3/8"	50	600
B295-0050	G295-0050	1/2"	75	450
B295-0100	G295-0100	3/4"	40	240
B295-0150	G295-0150	1"	25	150
B295-0215	G295-0215	1-1/4"	20	80
B295-0295	G295-0295	1-1/2"	20	60
B295-0390	G295-0390	2"	12	36
B295-0520	G295-0520	2-1/2"	—	25
B295-0650	G295-0650	3"	—	18
B295-0860	G295-0860	4"	—	7

Floor Flange

BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B355-0001	G355-0001	1/8"	—	—
B355-0002	G355-0002	1/4"	10	60
B355-0025	G355-0025	3/8"	25	150
B355-0050	G355-0050	1/2"	25	200
B355-0100	G355-0100	3/4"	20	160
B355-0150	G355-0150	1"	20	120
B355-0215	G355-0215	1-1/4"	15	90
B355-0295	G355-0295	1-1/2"	12	72
B355-0390	G355-0390	2"	8	48

Locknut/Backnut



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B375-0001	G375-0001	1/8"	250	3,000
B375-0002	G375-0002	1/4"	125	1,500
B375-0025	G375-0025	3/8"	125	1,500
B375-0050	G375-0050	1/2"	100	1,200
B375-0100	G375-0100	3/4"	60	720
B375-0150	G375-0150	1"	60	480
B375-0215	G375-0215	1-1/4"	60	360
B375-0295	G375-0295	1-1/2"	45	270
B375-0390	G375-0390	2"	25	150
B375-0520	G375-0520	2-1/2"	14	84

Square Head Plug

M



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B396-0001	G396-0001	1/8"	300	3,600
B396-0002	G396-0002	1/4"	150	1,800
B396-0025	G396-0025	3/8"	100	1,200
B396-0050	G396-0050	1/2"	50	600
B396-0100	G396-0100	3/4"	30	360
B396-0150	G396-0150	1"	20	240
B396-0215	G396-0215	1-1/4"	40	240
B396-0295	G396-0295	1-1/2"	30	180
B396-0390	G396-0390	2"	20	120
B396-0520	G396-0520	2-1/2"	8	64
B396-0650	G396-0650	3"	8	48
B396-0860	G396-0860	4"	8	16
B396-1100	G396-1100	6"	5	10

Union, Brass to Iron Seat



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B657-0001	G657-0001	1/8"	30	360
B657-0002	G657-0002	1/4"	20	240
B657-0025	G657-0025	3/8"	20	240
B657-0050	G657-0050	1/2"	50	200
B657-0100	G657-0100	3/4"	35	140
B657-0150	G657-0150	1"	20	80
B657-0215	G657-0215	1-1/4"	15	60
B657-0295	G657-0295	1-1/2"	10	40
B657-0390	G657-0390	2"	6	24
B657-0520	G657-0520	2-1/2"	4	16
B657-0650	G657-0650	3"	7	14
B657-0860	G657-0860	4"	7	7

Street Tee, Banded

F x M x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B486-0050	G486-0050	1/2"	40	240
B486-0100	G486-0100	3/4"	25	150
B486-0150	G486-0150	1"	20	80
B486-0215	G486-0215	1-1/4"	15	60
B486-0295	G486-0295	1-1/2"	12	36
B486-0390	G486-0390	2"	8	24

Tee, Banded

F x F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B460-0001	G460-0001	1/8"	80	960
B460-0002	G460-0002	1/4"	50	600
B460-0025	G460-0025	3/8"	45	360
B460-0050	G460-0050	1/2"	40	240
B460-0100	G460-0100	3/4"	35	140
B460-0150	G460-0150	1"	20	80
B460-0215	G460-0215	1-1/4"	14	56
B460-0295	G460-0295	1-1/2"	15	45
B460-0390	G460-0390	2"	10	30
B460-0520	G460-0520	2-1/2"	8	16
B460-0650	G460-0650	3"	6	12
B460-0860	G460-0860	4"	2	6
B460-0975	G460-0975	5"	2	2
B460-1100	G460-1100	6"	2	2

Reducing Tee, Banded

F x F x F



BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B460-0007	G460-0007	1/4" x 1/8"	25	300
B460-0032	G460-0032	3/8" x 1/4"	60	480
B460-0033	G460-0033	3/8" x 1/8"	60	480
B460-0056	G460-0056	1/2" x 1"	40	160
B460-0057	G460-0057	1/2" x 3/4"	30	180
B460-0058	G460-0058	1/2" x 3/8"	45	270
B460-0059	G460-0059	1/2" x 1/4"	50	300
B460-0060	G460-0060	1/2" x 1/8"	60	360
B460-0105	G460-0105	3/4" x 1-1/4"	25	100
B460-0106	G460-0106	3/4" x 1"	20	120
B460-0107	G460-0107	3/4" x 1/2"	45	180
B460-0108	G460-0108	3/4" x 3/8"	45	180
B460-0109	G460-0109	3/4" x 1/4"	50	200
B460-0116	G460-0116	3/4" x 1/2" x 1"	35	140
B460-0117	G460-0117	3/4" x 1/2" x 3/4"	40	160
B460-0118	G460-0118	3/4" x 1/2" x 1/2"	30	180
B460-0156	—	1" x 2"	12	48
B460-0157	G460-0157	1" x 1-1/2"	15	60
B460-0158	G460-0158	1" x 1-1/4"	15	60
B460-0159	G460-0159	1" x 3/4"	25	100
B460-0160	G460-0160	1" x 1/2"	30	120
B460-0161	G460-0161	1" x 3/8"	20	120
B460-0162	G460-0162	1" x 1/4"	25	150
B460-0169	G460-0169	1" x 3/4" x 1"	15	90
B460-0170	G460-0170	1" x 3/4" x 3/4"	25	100
B460-0171	G460-0171	1" x 3/4" x 1/2"	25	100
B460-0180	G460-0180	1" x 1/2" x 1"	15	90
B460-0181	G460-0181	1" x 1/2" x 3/4"	30	120
B460-0182	G460-0182	1" x 1/2" x 1/2"	20	120
B460-0220	G460-0215	1-1/4" x 2"	10	40
B460-0221	G460-0221	1-1/4" x 1-1/2"	14	56
B460-0222	G460-0222	1-1/4" x 1"	16	64
B460-0223	G460-0223	1-1/4" x 3/4"	18	72
B460-0224	G460-0224	1-1/4" x 1/2"	20	80
B460-0225	G460-0225	1-1/4" x 3/8"	20	80
B460-0233	G460-0233	1-1/4" x 1" x 1-1/2"	1	1
B460-0234	G460-0234	1-1/4" x 1" x 1-1/4"	15	60
B460-0235	G460-0235	1-1/4" x 1" x 1"	18	72
B460-0236	G460-0236	1-1/4" x 1" x 3/4"	18	72
B460-0237	G460-0237	1-1/4" x 1" x 1/2"	18	72
B460-0245	G460-0245	1-1/4" x 3/4" x 1-1/4"	15	60
B460-0246	G460-0246	1-1/4" x 3/4" x 1"	20	80
B460-0247	G460-0247	1-1/4" x 3/4" x 3/4"	20	80
B460-0248	G460-0248	1-1/4" x 3/4" x 1/2"	25	100
B460-0256	G460-0256	1-1/4" x 1/2" x 1-1/4"	15	60
B460-0257	G460-0257	1-1/4" x 1/2" x 1"	20	80
B460-0258	G460-0258	1-1/4" x 1/2" x 3/4"	25	100
B460-0259	G460-0259	1-1/4" x 1/2" x 1/2"	25	100
B460-0302	G460-0302	1-1/2" x 2"	030	32
B460-0303	G460-0303	1-1/2" x 1-1/4"	15	45
B460-0304	G460-0304	1-1/2" x 1"	13	52
B460-0305	G460-0305	1-1/2" x 3/4"	10	60
B460-0306	G460-0306	1-1/2" x 1/2"	18	72
B460-0307	G460-0307	1-1/2" x 3/8"	18	72
B460-0315	G460-0315	1-1/2" x 1-1/4" x 1-1/2"	10	40
B460-0316	G460-0316	1-1/2" x 1-1/4" x 1-1/4"	12	48

Reducing Tee, Banded (continued)

BLACK PRT #	GALV. PRT #	SIZE	CTN QTY	MSTR QTY
B460-0317	G460-0317	1-1/2" x 1-1/4" x 1"	14	56
B460-0318	G460-0318	1-1/2" x 1-1/4" x 3/4"	16	64
B460-0319	G460-0319	1-1/2" x 1-1/4" x 1/2"	16	64
B460-0328	G460-0328	1-1/2" x 1" x 1-1/2"	14	56
B460-0329	G460-0329	1-1/2" x 1" x 1-1/4"	14	56
B460-0330	G460-0330	1-1/2" x 1" x 1"	15	60
B460-0331	G460-0331	1-1/2" x 1" x 3/4"	15	60
B460-0332	G460-0332	1-1/2" x 1" x 1/2"	18	72
B460-0339	G460-0339	1-1/2" x 3/4" x 1-1/2"	12	48
B460-0340	G460-0340	1-1/2" x 3/4" x 1-1/4"	15	60
B460-0342	G460-0342	1-1/2" x 3/4" x 3/4"	18	72
B460-0343	G460-0343	1-1/2" x 3/4" x 1/2"	20	80
B460-0350	G460-0350	1-1/2" x 1/2" x 1-1/2"	12	48
B460-0351	G460-0351	1-1/2" x 1/2" x 1-1/4"	15	60
B460-0352	G460-0352	1-1/2" x 1/2" x 1"	18	72
B460-0353	G460-0353	1-1/2" x 1/2" x 3/4"	1	1
B460-0354	G460-0354	1-1/2" x 1/2" x 1/2"	1	1
B460-0397	G460-0397	2" x 2-1/2"	8	16
B460-0398	G460-0398	2" x 1-1/2"	16	32
B460-0399	G460-0399	2" x 1-1/4"	8	32
B460-0400	G460-0400	2" x 1"	12	36
B460-0401	G460-0401	2" x 3/4"	10	40
B460-0402	G460-0402	2" x 1/2"	10	40
B460-0403	G460-0403	2" x 3/8"	10	40
B460-0413	G460-0413	2" x 1-1/2" x 2"	10	30
B460-0414	G460-0414	2" x 1-1/2" x 1-1/2"	8	32
B460-0415	G460-0415	2" x 1-1/2" x 1-1/4"	8	32
B460-0416	G460-0416	2" x 1-1/2" x 1"	10	40
B460-0417	G460-0417	2" x 1-1/2" x 3/4"	10	40
B460-0418	G460-0418	2" x 1-1/2" x 1/2"	10	40
B460-0429	G460-0429	2" x 1-1/4" x 2"	13	26
B460-0430	G460-0430	2" x 1-1/4" x 1-1/2"	8	32
B460-0431	G460-0431	2" x 1-1/4" x 1-1/4"	12	36
B460-0432	G460-0432	2" x 1-1/4" x 1"	10	40
B460-0444	G460-0444	2" x 1" x 2"	8	32
B460-0447	G460-0447	2" x 1" x 1"	12	48
B460-0457	G460-0457	2" x 3/4" x 2"	8	32
B460-0461	G460-0461	2" x 3/4" x 3/4"	12	48
B460-0470	G460-0470	2" x 1/2" x 2"	8	32
B460-0531	G460-0531	2-1/2" x 2"	4	16
B460-0532	G460-0532	2-1/2" x 1-1/2"	5	15
B460-0533	G460-0533	2-1/2" x 1-1/4"	10	20
B460-0534	G460-0534	2-1/2" x 1"	12	24
B460-0535	G460-0535	2-1/2" x 3/4"	12	24
B460-0536	G460-0536	2-1/2" x 1/2"	12	24
B460-0548	G460-0548	2-1/2" x 2" x 2-1/2"	1	16
B460-0549	G460-0549	2-1/2" x 2" x 2"	1	1
B460-0662	G460-0662	3" x 2-1/2"	6	12
B460-0663	G460-0663	3" x 2"	4	12
B460-0664	G460-0664	3" x 1-1/2"	4	12
B460-0665	G460-0665	3" x 1-1/4"	4	12
B460-0666	G460-0666	3" x 1"	5	15
B460-0667	G460-0667	3" x 3/4"	6	18
B460-0668	G460-0668	3" x 1/2"	6	18
B460-0870	G460-0870	4" x 3"	2	6
B460-0871	G460-0871	4" x 2-1/2"	2	6
B460-0872	G460-0872	4" x 2"	2	8
B460-0873	G460-0873	4" x 1-1/2"	2	8
B460-0874	G460-0874	4" x 1-1/4"	2	8
B460-0875	G460-0875	4" x 1"	2	8

Pipe Nipples



BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
30100	50100	1/8" X Close	25	600
30110	50110	1/8" X 10"	25	150
30111	50111	1/8" X 11"	25	150
30112	50112	1/8" X 12"	25	150
30115	50115	1/8" X 1-1/2"	25	600
30120	50120	1/8" X 2"	25	600
30125	50125	1/8" X 2-1/2"	25	600
30130	50130	1/8" X 3"	25	600
30135	50135	1/8" X 3-1/2"	25	600
30140	50140	1/8" X 4"	25	600
30145	50145	1/8" X 4-1/2"	25	400
30150	50150	1/8" X 5"	25	400
30155	50155	1/8" X 5-1/2"	25	400
30160	50160	1/8" X 6"	25	400
30170	50170	1/8" X 7"	25	200
30180	50180	1/8" X 8"	25	200
30190	50190	1/8" X 9"	25	200
30200	50200	1/4" X Close	25	600
30210	50210	1/4" X 10"	25	150
30211	50211	1/4" X 11"	25	150
30212	50212	1/4" X 12"	25	150
30215	50215	1/4" X 1-1/2"	25	600
30220	50220	1/4" X 2"	25	600
30225	50225	1/4" X 2-1/2"	25	600
30230	50230	1/4" X 3"	25	600
30235	50235	1/4" X 3-1/2"	25	400
30240	50240	1/4" X 4"	25	400
30245	50245	1/4" X 4-1/2"	25	400
30250	50250	1/4" X 5"	25	300
30255	50255	1/4" X 5-1/2"	25	300
30260	50260	1/4" X 6"	25	300
30270	50270	1/4" X 7"	25	200
30280	50280	1/4" X 8"	25	200
30290	50290	1/4" X 9"	25	200
30300	50300	3/8" X Close	25	600
30310	50310	3/8" X 10"	25	100
30311	50311	3/8" X 11"	25	100
30312	50312	3/8" X 12"	25	100
30314	—	3/8" X 14"	5	10
30315	50315	3/8" X 1-1/2"	25	600
30320	50320	3/8" X 2"	25	600
30325	50325	3/8" X 2-1/2"	25	400
30330	50330	3/8" X 3"	25	400
30335	50335	3/8" X 3-1/2"	25	400
30340	50340	3/8" X 4"	25	300
30345	50345	3/8" X 4-1/2"	25	300
30350	50350	3/8" X 5"	25	300
30355	50355	3/8" X 5-1/2"	25	200
30360	50360	3/8" X 6"	25	200
30370	50370	3/8" X 7"	25	200
30380	50380	3/8" X 8"	25	150
30390	50390	3/8" X 9"	25	150
30500	50500	1/2" X Close	25	600
30510	50510	1/2" X 10"	25	75
30511	50511	1/2" X 11"	25	75
30512	50512	1/2" X 12"	25	75
30515	50515	1/2" X 1-1/2"	25	600

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
30520	50520	1/2" X 2"	25	600
30525	50525	1/2" X 2-1/2"	25	400
30530	50530	1/2" X 3"	25	400
30535	50535	1/2" X 3-1/2"	25	300
30540	50540	1/2" X 4"	25	300
30545	50545	1/2" X 4-1/2"	25	200
30550	50550	1/2" X 5"	25	200
30555	50555	1/2" X 5-1/2"	25	200
30560	50560	1/2" X 6"	25	200
30570	50570	1/2" X 7"	25	100
30575	—	1/2" X 7-1/2"	25	100
30580	50580	1/2" X 8"	25	100
30590	50590	1/2" X 9"	25	100
30700	50700	3/4" X Close	25	400
30710	50710	3/4" X 10"	25	50
30711	50711	3/4" X 11"	25	50
30712	50712	3/4" X 12"	25	50
30715	50715	3/4" X 1-1/2"	25	400
30720	50720	3/4" X 2"	25	300
30725	50725	3/4" X 2-1/2"	25	300
30730	50730	3/4" X 3"	25	200
30735	50735	3/4" X 3-1/2"	25	200
30740	50740	3/4" X 4"	25	150
30745	50745	3/4" X 4-1/2"	25	150
30750	50750	3/4" X 5"	25	100
30755	50755	3/4" X 5-1/2"	25	100
30760	50760	3/4" X 6"	25	100
30765	—	3/4" X 6-1/2"	25	75
30770	50770	3/4" X 7"	25	75
30775	50775	3/4" X 7-1/2"	25	75
30780	50780	3/4" X 8"	25	75
30790	50790	3/4" X 9"	25	75
31000	51000	1" X Close	25	300
31010	51010	1" X 10"	25	50
31011	51011	1" X 11"	25	50
31012	51012	1" X 12"	25	50
31014	51014	1" X 14"	5	10
31020	51020	1" X 2"	25	200
31025	51025	1" X 2-1/2"	25	200
31030	51030	1" X 3"	25	150
31035	51035	1" X 3-1/2"	25	150
31040	51040	1" X 4"	25	100
31045	51045	1" X 4-1/2"	25	100
31050	51050	1" X 5"	25	100
31055	51055	1" X 5-1/2"	25	75
31060	51060	1" X 6"	25	75
31065	—	1" X 6-1/2"	25	50
31070	51070	1" X 7"	25	50
31075	—	1" X 7-1/2"	25	50
31080	51080	1" X 8"	25	50
31085	—	1" X 8-1/2"	25	50
31090	51090	1" X 9"	25	50
31095	—	1" X 9-1/2"	25	50
31200	51200	1-1/4" X Close	25	150
31210	51210	1-1/4" X 10"	20	40
31211	51211	1-1/4" X 11"	20	40
31212	51212	1-1/4" X 12"	10	30
31213	—	1-1/4" X 13"	3	6
31214	—	1-1/4" X 14"	3	6
—	51215	1-1/4" X 1-1/2"	25	150
31220	51220	1-1/4" X 2"	25	150
31225	51225	1-1/4" X 2-1/2"	25	150
31230	51230	1-1/4" X 3"	25	100
31235	51235	1-1/4" X 3-1/2"	25	100
31240	51240	1-1/4" X 4"	25	100

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
31245	51245	1-1/4" X 4-1/2"	25	75
31250	51250	1-1/4" X 5"	25	75
31255	51255	1-1/4" X 5-1/2"	25	75
31260	51260	1-1/4" X 6"	25	50
31265	—	1-1/4" X 6-1/2"	25	50
31270	51270	1-1/4" X 7"	25	50
31280	51280	1-1/4" X 8"	25	50
31285	—	1-1/4" X 8-1/2"	25	30
31290	51290	1-1/4" X 9"	25	50
31295	—	1-1/4" X 9-1/2"	20	40
31500	51500	1-1/2" X Close	25	100
31510	51510	1-1/2" X 10"	30	30
31511	51511	1-1/2" X 11"	20	20
31512	51512	1-1/2" X 12"	20	20
31514	—	1-1/2" X 14"	3	6
31520	51520	1-1/2" X 2"	25	75
31525	51525	1-1/2" X 2-1/2"	25	75
31530	51530	1-1/2" X 3"	25	50
31535	51535	1-1/2" X 3-1/2"	25	50
31540	51540	1-1/2" X 4"	25	50
31545	51545	1-1/2" X 4-1/2"	25	50
31550	51550	1-1/2" X 5"	25	50
31555	51555	1-1/2" X 5-1/2"	25	50
31560	51560	1-1/2" X 6"	25	50
31570	51570	1-1/2" X 7"	20	40
31580	51580	1-1/2" X 8"	20	40
31590	51590	1-1/2" X 9"	10	30
32000	52000	2" X Close	25	75
32010	52010	2" X 10"	15	15
32011	52011	2" X 11"	15	15
32012	52012	2" X 12"	15	15
32013	—	2" X 13"	3	6
32025	52025	2" X 2-1/2"	25	50
32030	52030	2" X 3"	25	50
32035	52035	2" X 3-1/2"	25	50
32040	52040	2" X 4"	25	25
32045	52045	2" X 4-1/2"	25	25
32050	52050	2" X 5"	25	25
32055	52055	2" X 5-1/2"	25	25
32060	52060	2" X 6"	25	25
32065	—	2" X 6-1/2"	20	20
32070	52070	2" X 7"	20	20
32075	—	2" X 7-1/2"	20	20
32080	52080	2" X 8"	20	20
32090	52090	2" X 9"	20	20
32500	52500	2-1/2" X Close	20	40
32510	52510	2-1/2" X 10"	10	10
32511	52511	2-1/2" X 11"	10	10
32512	52512	2-1/2" X 12"	10	10
32514	—	2-1/2" X 14"	3	6
32530	52530	2-1/2" X 3"	20	40
32535	52535	2-1/2" X 3-1/2"	30	30
32540	52540	2-1/2" X 4"	30	30
32545	52545	2-1/2" X 4-1/2"	30	30
32550	52550	2-1/2" X 5"	20	20
32555	52555	2-1/2" X 5-1/2"	20	20
32560	52560	2-1/2" X 6"	20	20
32565	—	2-1/2" X 6-1/2"	20	20
32570	52570	2-1/2" X 7"	20	20
32580	52580	2-1/2" X 8"	10	10
32590	52590	2-1/2" X 9"	10	10
33000	53000	3" X Close	30	30
33010	53010	3" X 10"	5	5
33011	53011	3" X 11"	5	5
33012	53012	3" X 12"	5	5

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
33030	53030	3" X 3"	20	20
33035	53035	3" X 3-1/2"	15	15
33040	53040	3" X 4"	15	15
33045	53045	3" X 4-1/2"	15	15
33050	53050	3" X 5"	15	15
33055	53055	3" X 5-1/2"	15	15
33060	53060	3" X 6"	10	10
33070	53070	3" X 7"	7	7
33080	53080	3" X 8"	7	7
33090	53090	3" X 9"	7	7
33500	—	3-1/2" X Close	20	20
33540	—	3-1/2" X 4"	10	10
33550	53550	3-1/2" X 5"	8	8
33555	—	3-1/2" X 5-1/2"	8	8
33580	—	3-1/2" X 8"	6	6
34000	54000	4" X Close	20	20
34010	54010	4" X 10"	4	4
34011	54011	4" X 11"	4	4
34012	54012	4" X 12"	4	4
34014	—	4" X 14"	2	2
34035	54035	4" X 3-1/2"	10	10
34040	54040	4" X 4"	10	10
34045	54045	4" X 4-1/2"	8	8
34050	54050	4" X 5"	8	8
34055	54055	4" X 5-1/2"	8	8
34060	54060	4" X 6"	8	8
34070	54070	4" X 7"	4	4
34080	54080	4" X 8"	4	4
34090	54090	4" X 9"	4	4
35000	—	5" X Close	1	5
35045	—	5" X 4-1/2"	1	5
35050	—	5" X 5"	1	5
35055	—	5" X 5-1/2"	1	5
35060	—	5" X 6"	1	5
35070	—	5" X 7"	1	5
35080	—	5" X 8"	1	5
36000	56000	6" X Close	1	5
36010	56010	6" X 10"	1	3
36011	56011	6" X 11"	1	3
36012	56012	6" X 12"	3	3
36040	56040	6" X 4"	1	5
36045	56045	6" X 4-1/2"	1	5
36050	56050	6" X 5"	1	5
36055	56055	6" X 5-1/2"	1	5
36060	56060	6" X 6"	1	5
36070	56070	6" X 7"	1	4
36080	56080	6" X 8"	1	4
36090	56090	6" X 9"	1	4
31210TOE	—	1-1/4" X 10"	20	40
31212TOE	—	1-1/4" X 12"	10	30
31215TOE	—	1-1/4" X 15"	1	1
31510TOE	—	1-1/2" X 10"	1	1

XHY Pipe Nipple

BLACK	GALVANIZED	SIZE	CTN QTY
40200	—	1/4" X Close	1
40300	—	3/8" X Close	1
40500	—	1/2" X Close	1
40700	—	3/4" X Close	1
41000	—	1" X Close	1
41200	—	1-1/4" X Close	1
41500	—	1-1/2" X Close	1
42000	—	2" X Close	1

Installation Kit

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
BI05	GI05	1/2"	1	1
BI07	GI07	3/4"	1	1
BI10	GI10	1"	1	1
BI12	GI12	1-1/4"	1	1
BI15	GI15	1-1/2"	1	1
BI20	GI20	2"	1	1

Ever Ready Kit

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
ERB05	ERG05	1/2"	1	1
ERB07	ERG07	3/4"	1	1

C-Assort

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
CB05	CG05	1/2"	1	1
CB07	CG07	3/4"	1	1
CB10	CG10	1"	1	1
CB12	CG12	1-1/4"	1	1
CB15	—	1-1/2"	1	1

A-Assort

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
AB05	AG05	1/2"	1	1
AB07	AG07	3/4"	1	1
AB10	AG10	1"	1	1

6-Pack Assort

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
605B	605G	1/2"	1	1
607B	607G	3/4"	1	1
610B	610G	1"	1	1

ReadyCut Pipe



BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
—	301 G0118	1/8" X 18"	5	10
—	301 G0124	1/8" X 24"	5	10
—	301 G0130	1/8" X 30"	5	10
—	301 G0136	1/8" X 36"	5	10
—	301 G0148	1/8" X 48"	5	10
—	301 G0160	1/8" X 60"	5	10
—	301 G0172	1/8" X 72"	5	10
300 B0218	301 G0218	1/4" X 18"	5	10
300 B0224	301 G0224	1/4" X 24"	5	10
300 B0230	301 G0230	1/4" X 30"	5	10
300 B0236	301 G0236	1/4" X 36"	5	10
300 B0248	301 G0248	1/4" X 48"	5	10
300 B0260	301 G0260	1/4" X 60"	5	10
300 B0272	301 G0272	1/4" X 72"	5	10
300 B0318	301 G0318	3/8" X 18"	5	10
300 B0324	301 G0324	3/8" X 24"	5	10
300 B0330	301 G0330	3/8" X 30"	5	10
300 B0336	301 G0336	3/8" X 36"	5	10
300 B0348	301 G0348	3/8" X 48"	5	10
300 B0360	301 G0360	3/8" X 60"	5	10
300 B0372	301 G0372	3/8" X 72"	5	10
300 B0518	301 G0518	1/2" X 18"	5	10
300 B0524	301 G0524	1/2" X 24"	5	10
300 B0530	301 G0530	1/2" X 30"	5	10
300 B0536	301 G0536	1/2" X 36"	5	10

BLACK	GALVANIZED	SIZE	CTN QTY	MSTR QTY
300 B0542	301 G0542	1/2" X 42"	5	10
300 B0548	301 G0548	1/2" X 48"	5	10
300 B0554	301 G0554	1/2" X 54"	5	10
300 B0560	301 G0560	1/2" X 60"	5	10
300 B0572	301 G0572	1/2" X 72"	5	10
300 B0718	301 G0718	3/4" X 18"	5	10
300 B0724	301 G0724	3/4" X 24"	5	10
300 B0730	301 G0730	3/4" X 30"	5	10
300 B0736	301 G0736	3/4" X 36"	5	10
300 B0742	301 G0742	3/4" X 42"	5	10
300 B0748	301 G0748	3/4" X 48"	5	10
300 B0754	301 G0754	3/4" X 54"	5	10
300 B0760	301 G0760	3/4" X 60"	5	10
300 B0772	301 G0772	3/4" X 72"	5	10
300 B1018	301 G1018	1" X 18"	5	10
300 B1024	301 G1024	1" X 24"	5	10
300 B1030	301 G1030	1" X 30"	5	10
300 B1036	301 G1036	1" X 36"	5	10
300 B1042	301 G1042	1" X 42"	5	10
300 B1048	301 G1048	1" X 48"	5	10
300 B1054	301 G1054	1" X 54"	5	10
300 B1060	301 G1060	1" X 60"	3	6
300 B1066	—	1" X 66"	3	6
300 B1072	301 G1072	1" X 72"	3	6
300 B1218	301 G1218	1-1/4" X 18"	3	6
—	301 G1220	1-1/4" X 20"	3	6
300 B1224	301 G1224	1-1/4" X 24"	3	6
300 B1230	301 G1230	1-1/4" X 30"	3	6
300 B1236	301 G1236	1-1/4" X 36"	3	6
300 B1242	301 G1242	1-1/4" X 42"	3	6
300 B1248	301 G1248	1-1/4" X 48"	3	6
300 B1254	301 G1254	1-1/4" X 54"	3	6
300 B1260	301 G1260	1-1/4" X 60"	3	6
300 B1272	301 G1272	1-1/4" X 72"	3	6
300 B1518	301 G1518	1-1/2" X 18"	3	6
300 B1524	301 G1524	1-1/2" X 24"	3	6
300 B1530	301 G1530	1-1/2" X 30"	3	6
300 B1536	301 G1536	1-1/2" X 36"	3	6
300 B1542	301 G1542	1-1/2" X 42"	3	6
300 B1548	301 G1548	1-1/2" X 48"	3	6
300 B1554	301 G1554	1-1/2" X 54"	3	6
300 B1560	301 G1560	1-1/2" X 60"	3	6
300 B1572	301 G1572	1-1/2" X 72"	3	6
300 B2018	301 G2018	2" X 18"	3	6
300 B2024	301 G2024	2" X 24"	3	6
300 B2030	301 G2030	2" X 30"	3	6
300 B2036	301 G2036	2" X 36"	3	6
300 B2042	301 G2042	2" X 42"	3	6
300 B2048	301 G2048	2" X 48"	3	6
300 B2054	301 G2054	2" X 54"	3	6
300 B2060	301 G2060	2" X 60"	3	6
300 B2072	301 G2072	2" X 72"	3	6
32518	52518	2-1/2" X 18"	3	6
32520	—	2-1/2" X 20"	3	6
32524	52524	2-1/2" X 24"	3	6
300 B2530	—	2-1/2" X 30"	3	6
300 B2560	—	2-1/2" X 60"	3	6
33018	301 G3018	3" X 18"	2	4
300 B3024	301 G3024	3" X 24"	2	4
300 B3036	—	3" X 36"	2	4
300 B4018	301 G4018	4" X 18"	2	2
34024	54024	4" X 24"	2	2
—	301 G4048	4" X 48"	2	2
300 B4060	—	4" X 60"	2	2

Compression Cap

Style 61C



PART NO.	TUBE SIZE
C74001	1/4"
C74002	3/8"
C74147	1/2"
C74155	5/8"

Compression Sleeve

Style 60



PART NO.	TUBE SIZE
C74003	1/8"
C74004	3/16"
C74005	1/4"
C74006	5/16"
C74007	3/8"
C74151	7/16"
C74008	1/2"
C74009	5/8"
C74010	3/4"
C74011	7/8"

Compression Nuts

Style 61



• CARTON QUANTITIES ONLY

PART NO.	TUBE SIZE
C74012	1/8"
C74013	3/16"
C74014	1/4"
C74015	5/16"
C74016	3/8"
C74152	7/16"
C74017	1/2"
C74018	5/8"
C74019	3/4"
C74020	7/8"

Delrin Compression Sleeve

Style 60P



• CARTON QUANTITIES ONLY

PART NO.	TUBE SIZE	CTN. QTY.
C74096	1/4"	100
C74097	3/8"	100
C74098	1/2"	50
C74099	5/8"	50

Brass Compression Insert

Style 63P



PART NO.	TUBE SIZE	CTN. QTY.
C74100	1/4"	100
C74100T	1/4"	10
C74101	3/8"	100
C74101T	3/8"	10
C74102	1/2"	50
C74103	5/8"	50

Compression Union

Style 62



PART NO.	TUBE SIZE
C74021	1/8"
C74022	3/16"
C74023	1/4"
C74024	5/16"
C74025	3/8"
C74154	7/16"
C74026	1/2"
C74027	5/8"
C74028	3/4"
C74029	7/8"
C74030	3/8" x 1/4"
C74031	1/2" x 3/8"
C74032	5/8" x 3/8"
C74033	5/8" x 1/2"

Compression Tee

Style 64



PART NO.	TUBE SIZE
C74034	1/4"
C74035	5/16"
C74036	3/8"
C74037	3/8" x 3/8" x 1/4"
C74038	1/2"
C74104	1/2" x 1/2" x 3/8"
C74039	5/8"
C74145	5/8" x 5/8" x 3/8"
C74106	5/8" x 5/8" x 1/2"
C74107	3/4"
C74108	7/8"

Compression x FIP Branch Tee

Style 78



PART NO.	TUBE x FIP
C74091	3/8" x 1/8"
C74092	3/8" x 1/4"

Compression x MIP Branch Tee

Style 72



PART NO.	TUBE x MIP
C74056	3/8" x 1/4"
C74057	3/8" x 3/8"

Compression x FIP Connector

Style 66



PART NO.	TUBE x FIP
C74045	1/4" x 1/8"
C74046	1/4" x 1/4"
C74113	1/4" x 3/8"
C74114	1/4" x 1/2"
C74115	5/16" x 1/8"
C74047	5/16" x 1/4"
C74048	3/8" x 1/8"
C74049	3/8" x 1/4"
C74050	3/8" x 3/8"
C74051	3/8" x 1/2"
C74156	3/8" x 3/4"
C74116	1/2" x 1/4"
C74052	1/2" x 3/8"
C74053	1/2" x 1/2"
C74117	1/2" x 3/4"
C74054	5/8" x 1/2"
C74118	5/8" x 3/4"
C74119	3/4" x 1/2"
C74120	3/4" x 3/4"
C74150	7/8" x 1/2"
C74055	7/8" x 3/4"

Compression x MIP Connector

Style 68



PART NO.	TUBE x MIP
C74121	1/8" x 1/8"
C74122	3/16" x 1/8"
C74058	1/4" x 1/8"
C74059	1/4" x 1/4"
C74060	1/4" x 3/8"
C74123	1/4" x 1/2"
C74061	5/16" x 1/8"
C74062	5/16" x 1/4"
C74063	3/8" x 1/8"
C74064	3/8" x 1/4"
C74065	3/8" x 3/8"
C74066	3/8" x 1/2"
C74067	3/8" x 3/4"
C74068	1/2" x 1/4"
C74069	1/2" x 3/8"
C74070	1/2" x 1/2"
C74124	1/2" x 3/4"
C74146	5/8" x 3/8"
C74071	5/8" x 1/2"
C74072	5/8" x 3/4"
C74125	3/4" x 1/2"
C74126	3/4" x 3/4"
C74149	7/8" x 1/2"
C74073	7/8" x 3/4"
C74157	7/8" x 1"

Compression x Sweat Adapter

Style 666



PART NO.	TUBE x OD
C74093	3/8" x 5/8" (1/2" swt)

Compression Elbow

Style 65



PART NO.	TUBE SIZE
C74040	1/4"
C74041	3/8"
C74042	1/2"
C74109	1/2" x 3/8"
C74043	5/8"
C74044	5/8" x 3/8"
C74110	5/8" x 1/2"
C74111	3/4"
C74112	7/8"

Compression x FIP Elbow

Style 70



PART NO.	TUBE x MIP
C74074	1/4" x 1/8"
C74075	1/4" x 1/4"
C74127	1/4" x 3/8"
C74128	1/4" x 1/2"
C74129	3/8" x 1/8"
C74076	3/8" x 1/4"
C74077	3/8" x 3/8"
C74078	3/8" x 1/2"
C74130	1/2" x 1/4"
C74131	1/2" x 3/8"
C74079	1/2" x 1/2"
C74080	5/8" x 1/2"
C74132	5/8" x 3/4"

Compression x MIP Elbow

Style 69



PART NO.	TUBE x MIP
C74133	1/8" x 1/8"
C74134	3/16" x 1/8"
C74081	1/4" x 1/8"
C74082	1/4" x 1/4"
C74135	1/4" x 3/8"
C74136	1/4" x 1/2"
C74083	5/16" x 1/8"
C74084	5/16" x 1/4"
C74137	3/8" x 1/8"
C74085	3/8" x 1/4"
C74086	3/8" x 3/8"
C74087	3/8" x 1/2"
C74138	3/8" x 3/4"
C74139	1/2" x 1/4"
C74088	1/2" x 3/8"
C74089	1/2" x 1/2"
C74140	1/2" x 3/4"
C74141	5/8" x 3/8"
C74090	5/8" x 1/2"
C74142	5/8" x 3/4"
C74143	3/4" x 1/2"
C74144	3/4" x 3/4"
C74148	7/8" x 3/4"

Pilot Line Breakaway Nut



PART NO.	DESCRIPTION
C74158	1/4" OD

Short Flare Nut

Style 41S



PART NO.	TUBE SIZE
F40001	3/16"
F40002	1/4"
F40003	5/16"
F40004	3/8"
F40005	1/2"
F40006	5/8"
F40007	3/4"
F40126	7/8"

Flare Tees

Style 44



PART NO.	TUBE SIZE
F40033	1/4"
F40034	5/16"
F40035	3/8"
F40036	1/2"
F40037	5/8"
F40124	3/4"
F40038	3/8"x 3/8"x 1/4"
F40039	1/2"x 1/2"x 3/8"
F40120	5/8"x 5/8"x 1/2"

Long Flare Nut

Style 641FS Style 41L



PART NO.	TUBE SIZE
F40008	3/8"
F40131	1/4"
F40132	1/2"
F40133	5/8"

Flare x MIP Branch Tee

Style 45



PART NO.	TUBE x MIP
F40040	3/8"x 1/4"
F40041	3/8"x 3/8"

Short Forged Flare Nut

Style 641 FS



PART NO.	TUBE SIZE
F40009	1/4"
F40010	3/8"
F40011	1/2"
F40012	5/8"
F40013	3/8"x 1/4"
F40014	1/2"x 3/8"
F40119	5/8"x 1/2"

Female Flare Swivel

Style 70



PART NO.	TUBE SIZE
F40125	1/4"
F40095	3/8"
F40096	1/2"
F40097	5/8"

Plug

Style 39



PART NO.	TUBE SIZE
F40015	1/4"
F40016	3/8"
F40017	1/2"
F40018	5/8"

Cap

Style 40



PART NO.	TUBE SIZE
F40019	1/4"
F40098	5/16"
F40020	3/8"
F40021	1/2"
F40022	5/8"

Flare Union

Style 42



PART NO.	TUBE SIZE
F40123	3/16"
F40023	1/4"
F40024	5/16"
F40025	3/8"
F40026	1/2"
F40027	5/8"
F40100	3/4"
F40127	7/8"
F40028	3/8"x 1/4"
F40029	1/2"x 1/4"
F40030	1/2"x 3/8"
F40031	5/8"x 3/8"
F40032	5/8"x 1/2"

Flare x MIP Half Union

Style 48



PART NO.	TUBE x MIP
F40062	3/16" x 1/8"
F40063	1/4" x 1/8"
F40064	1/4" x 1/4"
F40107	1/4" x 3/8"
F40108	1/4" x 1/2"
F40065	5/16" x 1/8"
F40066	5/16" x 1/4"
F40067	3/8" x 1/8"
F40068	3/8" x 1/4"
F40069	3/8" x 3/8"
F40070	3/8" x 1/2"
F40071	3/8" x 3/4"
F40072	1/2" x 1/4"
F40073	1/2" x 3/8"
F40074	1/2" x 1/2"
F40075	1/2" x 3/4"
F40109	5/8" x 3/8"
F40076	5/8" x 1/2"
F40077	5/8" x 3/4"
F40110	3/4" x 1/2"
F40112	3/4" x 3/4"
F40122	7/8" x 3/4"

Flare Elbow

Style 55



PART NO.	TUBE SIZE
F40078	1/4"
F40079	3/8"
F40080	1/2"
F40081	5/8"

Flare x FIP Elbow

Style 50



PART NO.	TUBE x FIP
F40104	1/4" x 1/4"
F40105	1/4" x 3/8"
F40056	3/8" x 1/4"
F40057	3/8" x 3/8"
F40058	3/8" x 1/2"
F40059	1/2" x 3/8"
F40060	1/2" x 1/2"
F40061	5/8" x 1/2"
F40106	5/8" x 3/4"
F40135	1/2" x 3/4"

Flare x FIP Coupling

Style 46



PART NO.	TUBE x FIP
F40042	1/4" x 1/8"
F40043	1/4" x 1/4"
F40117	1/4" x 3/8"
F40118	1/4" x 1/2"
F40044	5/16" x 1/8"
F40045	5/16" x 1/4"
F40046	3/8" x 1/8"
F40047	3/8" x 1/4"
F40048	3/8" x 3/8"
F40049	3/8" x 1/2"
F40050	3/8" x 3/4"
F40051	1/2" x 1/4"
F40052	1/2" x 3/8"
F40053	1/2" x 1/2"
F40054	1/2" x 3/4"
F40055	5/8" x 1/2"
F40101	5/8" x 3/4"
F40102	3/4" x 1/2"
F40103	3/4" x 3/4"
F40121	7/8" x 3/4"

Flare x MIP Elbow

Style 49



PART NO.	TUBE x MIP
F40082	1/4" x 1/8"
F40083	1/4" x 1/4"
F40113	1/4" x 3/8"
F40084	5/16" x 1/8"
F40085	5/16" x 1/4"
F40086	3/8" x 1/8"
F40087	3/8" x 1/4"
F40088	3/8" x 3/8"
F40089	3/8" x 1/2"
F40090	3/8" x 3/4"
F40091	1/2" x 3/8"
F40114	1/2" x 1/4"
F40092	1/2" x 1/2"
F40093	1/2" x 3/4"
F40128	5/8" x 3/8"
F40094	5/8" x 1/2"
F40115	5/8" x 3/4"
F40111	3/4" x 1/2"
F40116	3/4" x 3/4"

Space Heater Fittings

Nut



• 9/16"-24 Fine threaded flare

PART NO.	OD
F41001	3/8"
F41002	3/8"x 1/4"

Cap



• 9/16"-24 Fine threaded flare

PART NO.	OD
F41003	3/8"

Union



• 9/16"-24 Fine threaded flare

PART NO.	OD
F41008	3/8"

Female Coupling



• 9/16"-24 Fine threaded flare

PART NO.	OD x FIP
F41004	3/8"x 3/8"
F41005	3/8"x 1/2"

Male Half Union



• 9/16"-24 Fine threaded flare

PART NO.	OD x MIP
F41006	3/8"x 3/8"
F41007	3/8"x 1/2"

Tee



• 9/16"-24 Fine threaded flare

PART NO.	OD
F41009	3/8"

Female Elbow



• 9/16"-24 Fine threaded flare

PART NO.	OD x FIP
F41011	3/8" x 1/2"

Male Elbow



• 9/16"-24 Fine threaded flare

PART NO.	OD x MIP
F41012	3/8" x 3/8"
F41013	3/8" x 1/2"

Gas Range Fittings

Flare x Male



• CARTON QUANTITY: 5

PART NO.	OD x MIP
F48108	5/8" (15/16-16) x 1/2"
F481012	5/8" (15/16-16) x 3/4"

Flare x Female



• CARTON QUANTITY: 5

PART NO.	OD x FIP
F46108	5/8" (15/16-16) x 1/2"
F461012	5/8" (15/16-16) x 3/4"

Flare Cap & Nut



• CARTON QUANTITY: 5

PART NO.	SIZE
F401516 (cap)	15/16"
F411516 (nut)	15/16"

90° Elbow

PART NO.	IPT
P20002	1/8"
P20004	1/4"
P20006	3/8"
P20008	1/2"

90° Male Elbow

PART NO.	IPT
P13986	1/2"

90° Street Elbow

PART NO.	IPT
P16002	1/8"
P16004	1/4"
P16006	3/8"
P16008	1/2"

45° Elbow

PART NO.	IPT
P10452	1/8"
P10454	1/4"

45° Street Elbow

PART NO.	IPT
P12402	1/8"
P12404	1/4"
P12406	3/8"
P12408	1/2"

Tee

PART NO.	IPT
P10012	1/8"
P10014	1/4"
P10016	3/8"
P10018	1/2"

Bell Reducer

PART NO.	IPT
P19042	1/4" x 1/8"
P19062	3/8" x 1/8"
P19064	3/8" x 1/4"
P19082	1/2" x 1/8"
P19084	1/2" x 1/4"
P19086	1/2" x 3/8"
P19128	3/4" x 1/2"

Coupling

PART NO.	IPT
P10032	1/8"
P10034	1/4"
P10036	3/8"
P10038	1/2"
P10312	3/4"

Cap

PART NO.	IPT
P10082	1/8"
P10084	1/4"
P10086	3/8"
P10088	1/2"
P10812	3/4"

Square Head Plug

PART NO.	IPT
P10092	1/8"
P10094	1/4"
P10096	3/8"
P10098	1/2"
P10912	3/4"

HEX Head Plug

PART NO.	IPT
P12102	1/8"
P12104	1/4"
P12106	3/8"
P12108	1/2"
P12112	3/4"

Countersunk Plug

PART NO.	IPT
P20092	1/8"
P20094	1/4"
P20096	3/8"
P20098	1/2"

Lock Nut

PART NO.	IPT
P11102	1/8"
P11104	1/4"
P11106	3/8"
P11108	1/2"

HEX Bushing

PART NO.	IPT
P11042	1/4" x 1/8"
P11062	3/8" x 1/8"
P11064	3/8" x 1/4"
P11082	1/2" x 1/8"
P11084	1/2" x 1/4"
P11086	1/2" x 3/8"
P11122	3/4" x 1/8"
P11124	3/4" x 1/4"
P11126	3/4" x 3/8"
P11128	3/4" x 1/2"

Face Bushing

PART NO.	IPT
P11964	3/8" x 1/4"
P11986	1/2" x 3/8"
P11928	3/4" x 1/2"

Close Nipple

PART NO.	IPT
P11202	1/8"
P11204	1/4"
P11206	3/8"
P11208	1/2"
P11212	3/4"

Long Nipple

PART NO.	IPT
P13224	1/8" x 1-1/2"
P13232	1/8" x 2"
P13424	1/4" x 1-1/2"
P13432	1/4" x 2"
P13624	3/8" x 1-1/2"
P13632	3/8" x 2"

HEX Nipple

PART NO.	IPT
P12202	1/8"
P12204	1/4"
P12206	3/8"
P12208	1/2"
P12212	3/4"
P12342	1/4" x 1/8"
P12362	3/8" x 1/8"
P12364	3/8" x 1/4"
P12384	1/2" x 1/4"
P12386	1/2" x 3/8"
P12328	3/4" x 1/2"

Hose Barb To Male Pipe

• Barb refers to hose I.D.



PART NO.	BARB x MPT	CTN. QTY.
G25022	1/8" x 1/8"	10
G25032	3/16" x 1/8"	10
G25034	3/16" x 1/4"	10
G25042	1/4" x 1/8"	10
G25044	1/4" x 1/4"	10
G25046	1/4" x 3/8"	10
G25048	1/4" x 1/2"	10
G25052	5/16" x 1/8"	10
G25054	5/16" x 1/4"	10
G25056	5/16" x 3/8"	10
G25062	3/8" x 1/8"	10
G25064	3/8" x 1/4"	10
G25066	3/8" x 3/8"	10
G25068	3/8" x 1/2"	10
G25612	3/8" x 3/4"	10
G25084	1/2" x 1/4"	10
G25086	1/2" x 3/8"	10
G25088	1/2" x 1/2"	10
G25812	1/2" x 3/4"	10
G25106	5/8" x 3/8"	10
G25108	5/8" x 1/2"	10
G25101	5/8" x 3/4"	10
G25128	3/4" x 1/2"	10
G25121	3/4" x 3/4"	10
G25161	1" x 3/4"	10
G25169	1" x 1"	10

Hose Barb To Female Pipe

• Barb refers to hose I.D.



PART NO.	BARB x FPT	CTN. QTY.
G26022	1/8" x 1/8"	10
G26032	3/16" x 1/8"	10
G26034	3/16" x 1/4"	10
G26042	1/4" x 1/8"	10
G26044	1/4" x 1/4"	10
G26046	1/4" x 3/8"	10
G26052	5/16" x 1/8"	10
G26054	5/16" x 1/4"	10
G26056	5/16" x 3/8"	10
G26062	3/8" x 1/8"	10
G26064	3/8" x 1/4"	10
G26066	3/8" x 3/8"	10
G26068	3/8" x 1/2"	10
G26084	1/2" x 1/4"	10
G26086	1/2" x 3/8"	10
G26088	1/2" x 1/2"	10
G26121	3/4" x 3/4"	10
G26161	1" x 3/4"	10

Barb To Barb Hose Splicers



PART NO.	BARB	CTN. QTY.
G29003	3/16"	10
G29004	1/4"	10
G29005	5/16"	10
G29006	3/8"	10
G29008	1/2"	10
G29010	5/8"	10

Hose Barb To Male Pipe Elbow



PART NO.	BARB x MPT	CTN. QTY.
G27042	1/4" x 1/8"	10
G27044	1/4" x 1/4"	10
G27054	5/16" x 1/4"	10
G27062	3/8" x 1/8"	10
G27064	3/8" x 1/4"	10
G27066	3/8" x 3/8"	10
G27068	3/8" x 1/2"	10
G27084	1/2" x 1/4"	10
G27086	1/2" x 3/8"	10
G27088	1/2" x 1/2"	10
G27106	5/8" x 3/8"	10
G27108	5/8" x 1/2"	10

Hose Barb To Female Ball End Swivel



PART NO.	BARB x NPSM	CTN. QTY.
G28044	1/4" x 1/4"	10
G28066	3/8" x 3/8"	10
G28088	1/2" x 1/2"	10

Hose Barb Tee



PART NO.	BARB x MPT	CTN. QTY.
G24004	1/4"	10
G24006	3/8"	10

Brass PEX Couplings

PART NO.	SIZE	CTN. QTY.
C76001	1/2"	100/1000
C76002	3/4"	50/500
C76003	1"	50/300
C76004	3/4" x 1/2"	50/500
C76005	1" x 3/4"	50/400

Brass PEX x Female Sweat Adapter

PART NO.	PEX x FSW	CTN. QTY.
C76027	1/2" x 1/2"	100/1000
C76028	3/4" x 3/4"	50/300
C76029	1/2" x 3/4"	50/400
C76030	1" x 1"	25/200

Brass PEX 90° Ell

PART NO.	SIZE	CTN. QTY.
C76008	1/2"	100/800
C76009	3/4"	50/200
C76010	1"	25/200

Brass PEX x Male Adapter

PART NO.	PEX x MIP	CTN. QTY.
C76034	1/2" x 1/2"	50/300
C76035	1/2" x 3/4"	25/200
C76036	3/4" x 3/4"	25/200
C76037	1" x 1"	25/100
C76038	1" x 3/4"	25/100

Brass PEX x MIP 90° Ell

PART NO.	SIZE	CTN. QTY.
C76013	1/2" x 1/2"	50/400

Brass PEX x FIP Female Adapter

PART NO.	PEX x FIP	CTN. QTY.
C76041	1/2" x 1/2"	50/250
C76042	1/2" x 3/4"	50/200
C76043	3/4" x 3/4"	50/200
C76044	1" x 1"	25/100

Brass PEX Equal Tee

PART NO.	SIZE	CTN. QTY.
C76014	1/2"	50/500
C76015	3/4"	50/200
C76016	1"	25/100

Brass PEX x Male Sweat Adapter

PART NO.	PEX x MALE	CTN. QTY.
C76047	3/8" x 1/2"	100/1000
C76048	1/2" x 1/2"	100/1000
C76049	1/2" x 3/4"	50/400
C76050	3/4" x 3/4"	50/400
C76051	1" x 1"	25/200

Brass PEX Tee

PART NO.	SIZE	CTN. QTY.
C76017	1/2" x 1/2" x 3/4"	50/300
C76018	3/4" x 1/2" x 1/2"	50/300
C76019	3/4" x 1/2" x 3/4"	50/300
C76020	3/4" x 3/4" x 1/2"	50/300
C76021	1" x 3/4" x 3/4"	25/200
C76022	1" x 1" x 1/2"	25/100
C76023	1" x 1" x 3/4"	25/200
C76024	3/4" x 3/4" x 1"	25/200
C76025	1" x 3/4" x 1/2"	25/200

Brass PEX x FIP Swivel Plastic Nut

PART NO.	PEX x FIP	CTN. QTY.
C76055	3/8" x 1/2"	50/500
C76056	1/2" x 1/2"	50/500
C76057	1/2" x 7/8"	50/400

Brass PEX x FIP 90° Ell Swivel Plastic Nut



PART NO.	PEX x FIP	CTN. QTY.
C76060	1/2" x 1/2"	50/400
C76061	1/2" x 7/8"	50/400

Brass PEX Ball Valve



PART NO.	PEX x PEX	CTN. QTY.
B63050	1/2"	1
B63075	3/4"	1
B63100	1"	1

Brass PEX Plug



PART NO.	PEX x FIP	CTN. QTY.
C76065	1/2"	200/1600
C76066	3/4"	100/800
C76067	1"	50/400

Brass PEX Crimp Ring



PART NO.	PEX x FIP	CTN. QTY.
C76070	3/8"	100/2000
C76071	1/2"	100/2000
C76072	3/4"	100/2000
C76073	1"	100/1000

Brass PEX x FIP Drop Ear 90° Ell



PART NO.	PEX x FIP	CTN. QTY.
C76080	1/2" x 1/2"	25/200
C76081	3/4" x 1/2"	25/200
C76079	1/2" x 1/2"	25/200

Oetiker PEX Stainless Steel Clamp



- The original patented pex assembly clamp designated by ASTM F 2098
- Ingenious stepless design provides uniform compression for a 360° watertight seal
- Available for 3/8", 1/2", 3/4" and 1" ASTM F 876/877 pex tubing sizes
- Specified for use with ASTM F 1807 and F 2159 insert fittings

TECHNICAL DATA

APPLICATION: HOT AND COLD WATER
PLUMBING & HYDRONIC HEATING

MAXIMUM OPERATING TEMPERATURE: 180°F

MAXIMUM OPERATING PRESSURE (PSI): 100

MATERIAL: STAINLESS STEEL UNS S304000

PART NO.	SIZE	CTN. QTY.
C76074	3/8"	100/6000
C76075	1/2"	100/2000
C76076	3/4"	50/2000
C76077	1"	50/1300

Pex Crimp Set



J40950



J40952



J40965



J40966

- For use on crimping PEX pipe with copper crimp rings and stainless steel bands

PART NO.	DESCRIPTION	CTN QTY
J40950	PEX crimp set with 3/8", 1/2", 3/4"	1
J40951	3/8" PEX crimp tool	1
J40952	1/2" PEX crimp tool	1
J40953	3/4" PEX crimp tool	1
J40954	1" PEX crimp tool	1
J40955	PEX crimp sizing tool	1
J40960	PEX crimp ring cutter	1
J40965	One hand PEX SS clamp tool	1
J40966	PEX SS clamp tool	1

Plastic Pex Tee

Lead Free



- Listed by Warnock Hersey
- Meets ASTM F2159, F877 and CSA B1375 and NSF61
- Will not rust or corrode
- Unaffected by household cleaners and chemicals
- Smooth interior for better water flow
- Resists scale build-up

PART NO.	SIZE	CTN. QTY.
C76700	1/2"	1
C76701	3/4"	1

Plastic Pex Tee

Lead Free



- Listed by Warnock Hersey
- Meets ASTM F2159, F877 and CSA B1375 and NSF61
- Will not rust or corrode
- Unaffected by household cleaners and chemicals
- Smooth interior for better water flow
- Resists scale build-up

PART NO.	SIZE	CTN. QTY.
C76709	1/2" x 1/2" x 3/4"	1
C76710	3/4" x 1/2" x 1/2"	1
C76711	3/4" x 1/2" x 3/4"	1
C76712	3/4" x 3/4" x 1/2"	1

Plastic Pex Elbow

Lead Free



- Listed by Warnock Hersey
- Meets ASTM F2159, F877 and CSA B1375 and NSF61
- Will not rust or corrode
- Unaffected by household cleaners and chemicals
- Smooth interior for better water flow
- Resists scale build-up

PART NO.	SIZE	CTN. QTY.
C76702	1/2"	1
C76703	3/4"	1
C76720	1"	1

Plastic Pex Plug

Lead Free



- Listed by Warnock Hersey
- Meets ASTM F2159, F877 and CSA B1375 and NSF61
- Will not rust or corrode
- Unaffected by household cleaners and chemicals
- Smooth interior for better water flow
- Resists scale build-up

PART NO.	SIZE	CTN. QTY.
C76740	1/2"	1
C76741	3/4"	1

Plastic Pex Coupling

Lead Free



- Listed by Warnock Hersey
- Meets ASTM F2159, F877 and CSA B1375 and NSF61
- Will not rust or corrode
- Unaffected by household cleaners and chemicals
- Smooth interior for better water flow
- Resists scale build-up

PART NO.	SIZE	CTN. QTY.
C76704	1/2"	1
C76705	3/4"	1
C76706	3/4" x 1/2"	1
C76722	1"	1
C76723	1" x 3/4"	1

Plastic Pex Adapter

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PART NO.	PEX x MPT	CTN. QTY.
C76707	1/2" x 1/2"	1
C76708	3/4" x 3/4"	1
C76727	1" x 1"	1

Coupling

H x H



- Used to join straight lengths of pipe

PVC#	SIZE	MASTER CTN.
PFC114	1-1/4"	100
PFC115	1-1/2"	100
PFC120	2"	100
PFC130	3"	60
PFC140	4"	25
PFC160	6"	15

Repair Coupling

H x H



- Furnished without center stop so that stationary lengths of pipe can be spliced together

PVC#	SIZE	MASTER CTN.
PFC116	1-1/2"	25
PFC122	2"	25
PFC133	3"	10
PFC144	4"	5

Reducer Coupling

H x H



- Used to reduce or increase pipe sizes

PVC#	SIZE	MASTER CTN.
PFC121	2" x 1-1/2"	25
PFC131	3" x 1-1/2"	25
PFC132	3" x 2"	20
PFC142	4" x 2"	10
PFC143	4" x 3"	20

Flush Bushing

Spg x H



- Inserts into fitting hub to reduce to smaller pipe sizes

PVC#	SIZE	MASTER CTN.
PFB211	1-1/2" x 1-1/4"	50
PFB221	2" x 1-1/2"	100
PFB224	2" x 1-1/4"	70
PFB231	3" x 1-1/2"	20
PFB232	3" x 2"	30
PFB242	4" x 2"	30
PFB243	4" x 3"	30
PFB264	6" x 4"	10

Male Adapter

H x MPT



- Adapts to standard female pipe threads
- Teflon thread tape is recommended for threaded joints

PVC#	SIZE	MASTER CTN.
PMA414	1-1/4"	50
PMA415	1-1/2"	50
PMA420	2"	50
PMA430	3"	25
PMA440	4"	25

Female Adapter

H x FPT



- Adapts to standard male pipe threads
- Teflon thread tape is recommended for threaded joints

PVC#	SIZE	MASTER CTN.
PFA314	1-1/4"	100
PFA315	1-1/2"	100
PFA311	1-1/2" x 1-1/4"	100
PFA320	2"	100
PFA330	3"	30
PFA340	4"	10
PFA360	6"	10

Fitting C.O. Adapter, w/Plug

Spg x FPT



- Solvent welds into fitting hub to provide access to piping
- Teflon thread tape is recommended for threaded joints

PVC#	SIZE	MASTER CTN.
PFA615	1-1/2"	50
PFA620	2"	50
PFA630	3"	25
PFA640	4"	10

45 Deg Street Elbow

Spg x Hub



- Used to change direction from a fitting hub to a pipe
- Sometimes called a "St. 1/8 bend"

PVC#	SIZE	MASTER CTN.
PSL715S	1-1/2" short turn	100
PSL716S	1-1/2" long turn	100
PSL720	2"	50
PSL730	3"	20
PSL740	4"	10
PSL760	6"	3

60 Deg Elbow

H x H



- Used to change direction in piping
- Sometimes called a "OK bend"

PVC#	SIZE	MASTER CTN.
PFL915	1-1/2"	40
PFL920	2"	25
PFL930	3"	20
PFL940	4"	10

90 Deg Street Elbow

Spg x H



- Used to change direction in piping
- Sometimes called a "street 1/4 bend"

PVC#	SIZE	MASTER CTN.
PSL916	1-1/2"	100
PSL926	2"	50
PSL936	3"	20
PSL946	4"	10

90 Deg Vent Elbow

H x H



- Used to change direction in the "dry" portion of vent piping where water flow is not a consideration

PVC#	SIZE	MASTER CTN.
PFL715	1-1/2"	20
PFL720	2"	30
PFL730	3"	10

90 Deg Elbow

H x H



- Used to change direction in piping
- Sometimes called a "1/4 bend"

PVC#	SIZE	MASTER CTN.
PFL814	1-1/4"	100
PFL815	1-1/2"	100
PFL820	2"	50
PFL830	3"	25
PFL840	4"	10
PFL860	6"	5
PFL821	2" x 1-1/2"	20
PFL834	4" x 3"	20

90 Deg Elbow w/Side Inlet

H x H x Spg/H



- Used to connect a branch line or vent at a change of direction in a larger vertical or horizontal pipe
- The inlet is constructed to accept a 2" fitting over its outside diameter or a 1-1/2" pipe into its inside diameter

PVC#	SIZE	MASTER CTN.
PFL131	3" x 2" Spg or 1-1/2" Hub	20

90 Deg Long Sweep Elbow

H x H



- Used to change direction in piping
- Sometimes called a "long turn 1/4 bend"

PVC#	SIZE	MASTER CTN.
PFL815L	1-1/2"	50
PFL820L	2"	25
PFL830L	3"	10
PFL840L	4"	5

90 Deg Lowheel Inlet Elbow

H x H x Spg/H or H x H x H



- Used to connect a branch line or vent at a change of direction in a larger vertical or horizontal pipe
- The inlet is constructed to accept a 2" fitting over its outside diameter or a 1-1/2" pipe into its inside diameter

PVC#	SIZE	MASTER CTN.
PFL031	3" x 2" Spg or 1-1/2" Hub	25
PFL032	3" x 2" Hub	25

Fitting C.O. Adapter

Spg x FPT



- Solvent welds into fitting hub and adapts to male threaded plug
- This fitting is a component part of "Fitting Cleanout w/ Threaded Plug"

PVC#	SIZE	MASTER CTN.
PFA614	1-1/2"	50
PFA619	2"	50
PFA629	3"	25
PFA639	4"	10
PFA659	6"	10

Caps

Hub



- Used for permanently or temporarily capping pipe

PVC#	SIZE	MASTER CTN.
PHC151	1-1/2"	10
PHC152	2"	5
PHC153	3"	10
PHC154	4"	5

22 1/2 Deg Elbow

H x H



- Used to change direction in piping
- Sometimes called a "1/16 bend"

PVC#	SIZE	MASTER CTN.
PFL515	1-1/2"	50
PFL520	2"	25
PFL530	3"	20
PFL540	4"	15
PFL560	6"	3

22 1/2 Deg Street Elbow

H x Spgt



- Used to change direction in piping
- Sometimes called a "St. 1/16 bend"

PVC#	SIZE	MASTER CTN.
PSL815	1-1/2"	50
PSL820	2"	25
PSL830	3"	20
PSL840	4"	10

45 Deg Elbow

H x H



- Used to change direction in piping
- Sometimes called a "1/8 bend"

PVC#	SIZE	MASTER CTN.
PFL614	1-1/4"	100
PFL615	1-1/2"	100
PFL620	2"	50
PFL630	3"	20
PFL640	4"	10
PFL660	6"	3
PFL615S	1-1/2" short turn	100
PFL620S	2" short turn	100

Double 90 Deg Elbow

H x H x H



- Ideal for "back to back" sink or lavatory installations

PVC#	SIZE	MASTER CTN.
PDL716	1-1/2"	20
PDL736	3"	10
PDL722	2" x 1-1/2" x 1-1/2"	25

Wye

H x H x H



- Used when connecting a branch line into a horizontal drain pipe
- Also used in conjunction with a "twist-lok" plug to provide a cleanout in a drain pipe

PVC#	SIZE	MASTER CTN.
PFY014	1-1/4"	35
PFY015	1-1/2"	50
PFY020	2"	25
PFY030	3"	25
PFY040	4"	5
PFY060	6"	4
PFY021	2" x 1-1/2"	25
PFY023	2" x 1-1/2" x 1-1/2"	25
PFY031	3" x 1-1/2"	15
PFY032	3" x 2"	25
PFY041	4" x 4" x 1-1/2"	10
PFY042	4" x 2"	10
PFY043	4" x 3"	10
PFY064	6" x 4"	5

Double Wye

All Hub



- Used to bring two branch lines into a horizontal drain pipe

PVC#	SIZE	MASTER CTN.
PDY415	1-1/2"	40
PDY420	2"	20
PDY430	3"	15
PDY440	4"	5
PDY442	4" x 4" x 2" x 2"	5
PDY443	4" x 4" x 3" x 3"	5

Long Turn Tee Wye

H x H x H



- Used in some plumbing code areas to connect a branch line into a vertical drain pipe instead of a conventional tee fitting
- Also used to connect horizontal branch pipe approaching a horizontal drain pipe on the perpendicular

PVC#	SIZE	MASTER CTN.
PFY515L	1-1/2"	20
PFY520L	2"	10
PFY530L	3"	10
PFY540L	4"	5
PFY521	2" x 1-1/2"	20
PFY531	3" x 1-1/2"	10
PFY532	3" x 2"	10
PFY542	4" x 2"	10
PFY543	4" x 3"	5

Double Fixture Tee

H x H x H x H



PVC#	SIZE	MASTER CTN.
PDT621	2" x 1-1/2" x 1-1/2" x 1-1/2"	20

Vent Tee

H x H x H



- Used primarily in seepage bed piping grids in conjunction with perforated pipe
- Used where flow characteristics are not a primary consideration

PVC#	SIZE	MASTER CTN.
PVT415	1-1/2"	10
PVT420	2"	10
PVT430	3"	10
PVT440	4"	10

Cleanout Test Tee

H x H x FPT



- Used in conjunction with a threaded plug to provide a cleanout opening
- Teflon thread tape is recommended for joints

PVC#	SIZE	MASTER CTN.
PCT416	1-1/2"	20
PCT421	2"	20
PCT431	3"	10
PCT441	4"	10

w/Cleanout Plug

- Used at the base of a vertical drain pipe to provide a cleanout opening flush with the finished wall

PVC#	SIZE	MASTER CTN.
PCT315	1-1/2"	10
PCT320	2"	10
PCT330	3"	10
PCT340	4"	5

Sanitary Tee

H x H x H



- Used when connecting a branch line into a vertical drain pipe

PVC#	SIZE	MASTER CTN.
PST114	1-1/4"	25
PST115	1-1/2"	100
PST120	2"	35
PST130	3"	30
PST140	4"	5
PST160	6"	6
PST121	2" x 1-1/2"	50
PST122	2" x 1-1/2" x 2"	25
PST123	2" x 1-1/2" x 1-1/2"	25
PST131	3" x 1-1/2"	20
PST132	3" x 2"	10
PST141	4" x 1-1/2"	10
PST142	4" x 2"	10
PST143	4" x 3"	10
PST164	6" x 4"	6

Sanitary Tee Street

Spg x H x H



PVC#	SIZE	MASTER CTN.
PSS140	4"	10

Sanitary Tee w/Right Side Inlet

H x H x H x H



- This fitting provides for the connection of 2" vent or branch waste piping to a vertical pipe

PVC#	SIZE	MASTER CTN.
PST232	3" x 3" x 3" x 2"	10

Sanitary Tee w/Left Side Inlet

H x H x H x H



- This fitting provides for the connection of 2" vent or branch waste piping to a vertical pipe

PVC#	SIZE	MASTER CTN.
PSL132	3" x 3" x 3" x 2"	10

Sanitary Tee w/Right & Left Side Inlet

H x H x Spg/H x Spg/H

**Sanitary Tee w/Right & Left Side Inlet**

- Provides for the connection of 1-1/2" or 2" vent or branch waste piping to a vertical pipe as well as receiving the discharge of a water closet
- the inlets are constructed to accept a 2" fitting hub over their outside diameter or a 1-1/2" pipe into their inside diameter

PVC#	SIZE	MASTER CTN.
PSL031	3" x 3" x 3" x 1-1/2" / 2" x 1-1/2" / 2"	10

Sanitary Tee w/Right & Left Side Inlet

- Provides for the connection of 2" vent or branch waste piping to a vertical pipe as well as receive the discharge of a water closet

PVC#	SIZE	MASTER CTN.
PSL042	4" x 4" x 4" x 2" x 2"	5

Double Sanitary Tee

H x H x H x H



- Used to bring two branch lines into a vertical drain pipe

PVC#	SIZE	MASTER CTN.
PDT515	1-1/2"	25
PDT520	2"	20
PDT530	3"	20
PDT540	4"	4
PDT521	2" x 2" x 1-1/2" x 1-1/2"	15
PDT531	3" x 3" x 1-1/2" x 1-1/2"	20
PDT532	3" x 3" x 2" x 2"	10
PDT542	4" x 4" x 2" x 2"	5
PDT543	4" x 4" x 3" x 3"	5

Two-Way Cleanout Tee

H x H x H



- Used with a vertical pipe stack, this fitting provides for above ground level access to piping

PVC#	SIZE	MASTER CTN.
PTC633	3"	10
PTC644	4"	5

Condensate Traps

Manufactured of Schedule 40 DWV Pipe



- One-piece design

PART NO.	DESCRIPTION	CTN QTY
P15050	1/2" p-trap	100
P15075	3/4" p-trap	100
P15175	3/4" mini p-trap	250
R15050	1/2" running trap	100
R15075	3/4" running trap	100

Nylon Hose Barb Splicer

PART NO.	BARB x BARB	CTN. QTY.
N10001	1/8" x 1/8"	10
N10002	1/4" x 1/4"	10
N10003	5/16" x 5/16"	10
N10004	3/8" x 3/8"	10
N10005	1/2" x 1/2"	10
N10006	5/8" x 5/8"	10
N10007	3/4" x 3/4"	10
N10008	1" x 1"	5

Nylon Hose Barb Tees

PART NO.	BARB x BARB	CTN. QTY.
N11001	1/8" x 1/8" x 1/8"	10
N11002	1/4" x 1/4" x 1/4"	10
N11003	3/8" x 3/8" x 3/8"	10
N11004	1/2" x 1/2" x 3/8"	10
N11005	1/2" x 1/2" x 1/2"	10
N11006	5/8" x 5/8" x 5/8"	10
N11007	3/4" x 3/4" x 3/4"	10
N11008	1" x 1" x 1"	5

Nylon Hose Barb Elbows

PART NO.	BARB x BARB	CTN. QTY.
N12001	1/4" x 1/4"	10
N12002	3/8" x 3/8"	10
N12003	1/2" x 1/2"	10
N12004	5/8" x 5/8"	10
N12005	3/4" x 3/4"	10
N12006	1" x 1"	5

Nylon Garden Hose Cap

PART NO.	FHT	CTN. QTY.
N06001	3/4"	10

Nylon Female Hose Barb Adapter

PART NO.	BARB x FPT	CTN. QTY.
N15001	1/2" x 1/2"	10

Nylon Hose Barb Adapter

PART NO.	MPT x BARB	CTN. QTY.
N14001	1/4" x 1/4"	10
N14002	1/4" x 3/8"	10
N14003	3/8" x 1/4"	10
N14004	3/8" x 3/8"	10
N14005	3/8" x 1/2"	10
N14006	1/2" x 1/4"	10
N14007	1/2" x 3/8"	10
N14008	1/2" x 1/2"	10
N14009	1/2" x 5/8"	10
N14010	1/2" x 3/4"	10
N14011	3/4" x 3/8"	10
N14012	3/4" x 1/2"	10
N14013	3/4" x 5/8"	10
N14014	3/4" x 3/4"	10
N14015	3/4" x 1"	5
N14016	1" x 1/2"	5
N14017	1" x 5/8"	5
N14018	1" x 3/4"	5
N14019	1" x 1"	5

Nylon Male Garden Hose To Female Pipe

PART NO.	MHT x FPT	CTN. QTY.
N18001	3/4" x 1/2"	10
N18002	3/4" x 3/4"	10

Nylon Male Garden Hose To Male Pipe

PART NO.	MHT x MPT	CTN. QTY.
N09001	3/4" x 1/2"	10
N09002	3/4" x 3/4"	10

Nylon Female Garden Hose To Female Pipe

PART NO.	FHT x FPT	CTN. QTY.
N07001	3/4" x 1/2"	10

Male Insert Adapter

- NSF certified
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I11001	1/2"	10
I11002	3/4"	10
I11003	1"	10
I11004	1 1/4"	10
I11005	1 1/2"	10
I11006	2"	10

Insert Combination Elbow

- NSF certified
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I11025	1/2"	10
I11026	3/4"	10
I11027	1"	10
I11028	1 1/4"	10

Insert Coupling

- NSF certified
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I11007	1/2"	10
I11008	3/4"	10
I11009	1"	10
I11010	1 1/4"	10
I11011	1 1/2"	10
I11012	2"	10

Insert Elbow

- NSF certified
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I11013	1/2"	10
I11014	3/4"	10
I11015	1"	10
I11016	1 1/4"	10
I11017	1 1/2"	10
I11018	2"	5

Insert Tee

- NSF certified
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I11019	1/2"	10
I11020	3/4"	10
I11021	1"	10
I11022	1 1/4"	10
I11023	1 1/2"	10
I11024	2"	5

Male Insert Adapter

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10001	1/2"	10
I10002	3/4"	10
I10003	1"	10
I10004	1-1/4"	10
I10005	1-1/2"	10
I10006	2"	10

Female Insert Adapter

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10007	1/2"	10
I10008	3/4"	10
I10009	1"	10
I10010	1-1/4"	10

Insert Coupling

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10011	1/2"	10
I10012	3/4"	10
I10013	1"	10
I10014	1-1/4"	10
I10015	1-1/2"	10
I10016	2"	10

Reducing Insert Coupling

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10017	3/4" x 1/2"	10
I10018	1" x 1/2"	10
I10019	1" x 3/4"	10
I10020	1-1/4" x 1"	10
I10021	1-1/2" x 1-1/4"	5
I10022	2" x 1-1/2"	5

Male Insert Reducer

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10040	3/4" x 1/2"	10
I10041	1" x 3/4"	10
I10042	1-1/4" x 1"	10

Insert Elbow

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10023	1/2"	10
I10024	3/4"	10
I10025	1"	10
I10026	1-1/4"	10
I10027	1-1/2"	10
I10028	2"	5

Insert Tee

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10029	1/2"	10
I10030	3/4"	10
I10031	1"	10
I10032	1-1/4"	10
I10033	1-1/2"	10
I10034	2"	5

Insert x MIP Combination Elbow

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10035	1/2"	10
I10036	3/4"	10
I10037	1"	10
I10038	1-1/4"	10
I10039	1-1/2"	10

Insert Reducing Tee

- NSF approved
- For flexible polyethylene plastic pipe

PART NO.	SIZE	CTN. QTY.
I10043	3/4" x 3/4" x 1/2"	10
I10044	3/4" x 1/2" x 1/2"	10
I10045	1" x 1" x 1/2"	10
I10046	1" x 1" x 3/4"	10
I10047	1" x 3/4" x 3/4"	10
I10048	1-1/2" x 1-1/2" x 1"	10
I10049	2" x 2" x 1"	5

PlumBite Push On Fittings

- Heat free method for joining Copper, CPVC and PEX tube and are designed to save time and money on installations
- To make an effective joint with PEX tube, the included liner must be used. (DO NOT SUBSTITUTE with other manufacturer's liner.)
- Push fit
- Reduced installation time
- Ideal for service and repair
- "O-ring" design for leak free seals
- EPDM O-ring seal
- 316 Stainless steel retaining ring
- Designed for use with ASTM B88 hard drawn and annealed copper tube, type K, L, or M, in the 1/2" through 3/4" size range; CPVC water tube per ASTM D2846/2846M and PEX tube that meets the requirements of ASTM F876 & F877
- Operate at temperatures from 0° to 250°F at a maximum working pressure of 200 PSI
- Sold in bag quantity only

Type of Service	System Operating Conditions
FLUIDS	
Hot and Cold Potable Water	32°F to 200°F, max. 200 PSI
Potable Water System Flushing	Compliant with major plumbing codes
Chilled Water w/Corrosion Inhibitors	0°F to 250°F, max 200 PSI Ethylene Glycol - 50% max. concentration Propylene Glycol - 50% max. concentration
Hydronic Heating	0°F to 250°F, max 200 PSI Ethylene Glycol - 50% max. concentration Propylene Glycol - 50% max. concentration
Rainwater/Greywater	32° F to 250°F, max. 200 PSI

Coupling



PART NO.	SIZE	CTN QTY
C76500	1/2"	10
C76501	3/4"	10
C76550	1"	6

Reducer Coupling



PART NO.	SIZE	CTN QTY
C76502	3/4" x 1/2"	10
C76551	1" x 3/4"	6

Adapter C x F



PART NO.	SIZE	CTN QTY
C76503	1/2"	10
C76504	3/4"	10
C76553	1"	6

Adapter C x M



PART NO.	SIZE	CTN QTY
C76505	1/2"	10
C76506	3/4"	10
C76554	1"	6

90° Ell



PART NO.	SIZE	CTN QTY
C76507	1/2"	10
C76508	3/4"	10
C76558	1"	6

Drob Ear 90° Ell C x F



PART NO.	SIZE	CTN QTY
C76509	1/2"	10

Tee



PART NO.	SIZE	CTN QTY
C76510	1/2"	10
C76511	3/4"	10
C76512	3/4" x 3/4" x 1/2"	10
C76513	3/4" x 1/2" x 3/4"	5
C76514	3/4" x 1/2" x 1/2"	5
C76555	1"	4
C76556	1" x 1" x 3/4"	4

Cap



PART NO.	SIZE	CTN QTY
C76515	1/2"	10
C76516	3/4"	10
C76557	1"	6

Ball Valve



PART NO.	SIZE	CTN QTY
C76561	1/2"	10
C76562	3/4"	10
C76563	1"	6

Repair Coupling



PART NO.	SIZE	CTN QTY
C76530	1/2"	70
C76531	3/4"	70
C76532	1"	40

Supply Stop



PART NO.	SIZE	CTN QTY
C76570	Straight 1/2" x 3/8"OD	1
C76571	Angle 1/2" x 3/8"OD	1

Removal Tool



PART NO.	SIZE	CTN QTY
C76520	1/2"	10
C76521	3/4"	10
C76522	1"	10

Twist To Lock Plastic Fittings

- IAPMO Listed NSF-61, ASSE 1061
- Reduced installation time
- Ideal for service and repair
- "O-ring" design for leak-free seals
- Working temps and pressure:
180PSI@68°F, 100PSI@150°F, 45PSI@180°F

INSTRUCTIONS FOR USE

To Connect: Squarely cut tubing or pipe to desired length, removing all burrs. Push fitting onto the end of tube or pipe. Fitting will grip before it seals. Ensure that tubing or pipe is pushed into the fitting until the end is fully seated into the internal tube stop.



To Lock Fitting: Twist the screw cap until colored line is no longer visible.



To Disconnect: Unlock fitting by twisting until colored line is visible and clicking sound is heard. Press collet squarely against the face of tubing to remove from fitting. Fitting may be reused.



Plastic inserts are required for plastic pipe connections in heating installations. It is recommended to use pipe inserts for plastic pipe connections in standard residential plumbing (hot and cold water) installations.

Drop Ear Elbow CTS



PART NO.	SIZE	CTN QTY
C76800	1/2"	3

Enlarger Connector CTS STACK x CTS



PART NO.	SIZE	CTN QTY
C76801	3/4" x 1"	3

Female Adapter CTS x FIP



PART NO.	SIZE	CTN QTY
C76802	1/2" x 1/2"	3
C76803	1/2" x 3/4"	3
C76804	3/4" x 3/4"	3
C76805	1" x 1"	3

Female Garden Hose Adapter CTS x FGH



PART NO.	SIZE	CTN QTY
C76806	1/2" x 3/4"	3

Male Adapter CTS x MIP



PART NO.	SIZE	CTN QTY
C76807	1/2" x 1/2"	3
C76808	1/2" x 3/4"	3
C76809	3/4" x 3/4"	3

Male Elbow CTS x MIP



PART NO.	SIZE	CTN QTY
C76810	1/2" x 1/2"	3

Reducing Connector CTS x CTS Stem



PART NO.	SIZE	CTN QTY
C76811	1/2" x 3/4"	3

Swivel Elbow Union CTS x FIP



PART NO.	SIZE	CTN QTY
C76812	1/2" x 1/2"	3

Swivel Union Connector CTS x BC



PART NO.	SIZE	CTN QTY
C76813	1/2" x BC	3

Tube End Stop CTS

PART NO.	SIZE	CTN QTY
C76814	1/2"	3
C76815	3/4"	3
C76816	1"	3

Union Connector CTS x CTS

PART NO.	SIZE	CTN QTY
C76825	3/8"	3
C76826	1/2" x 3/8"	3
C76827	1/2"	3
C76828	3/4" x 1/2"	3
C76829	3/4"	3
C76830	1" x 3/4"	3
C76831	1"	3

Tube Elbow Union CTS x CTS Stem

PART NO.	SIZE	CTN QTY
C76817	1/2" x 1/2"	3
C76818	3/4" x 3/4"	3

Tee Union CTS x CTS x CTS

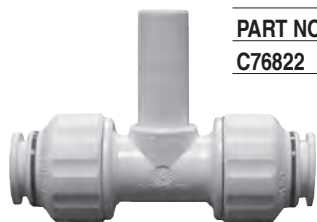
PART NO.	SIZE	CTN QTY
C76832	1/2"	3
C76833	3/4" x 3/4" x 1/2"	3
C76834	3/4"	3
C76835	1"	3
C76836	1" x 3/4" x 3/4"	3
C76837	3/4" x 1/2" x 1/2"	3

Elbow Union CTS x CTS

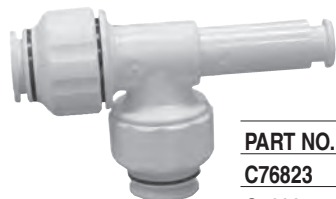
PART NO.	SIZE	CTN QTY
C76819	1/2"	3
C76820	3/4"	3
C76821	1"	3

Hand Vavle Union Connector CTS x CTS

PART NO.	SIZE	CTN QTY
C76838	1/2"	3
C76839	3/4"	3

Tube Tee Union Connector CTS x CTS x CTS Stem

PART NO.	SIZE	CTN QTY
C76822	1/2" x 1/2" x 1/2"	3

Stack Tube Tee Union CTS

PART NO.	SIZE	CTN QTY
C76823	1/2"	3
C76824	3/4"	3

Plastic Push On Fittings

- Quick and easy installation
- Very durable and fatigue resistant
- Manufactured from safe, non-toxic materials meeting the requirements of the US FDA, WRAS, ANSI/NSF-51, 61 and SK Zert
- All connections can be assembled and disassembled repeatedly



1. Cut the part of the tube to be inserted into the fitting to plane the end.

2. Make sure to use a clean tube without any foreign material or cracks.



3. When inserting the tube, remove any obstructions before fully inserting the tube. Make sure the tube is fully inserted.

4. Inserting the tube into the fitting only takes moderate force. The tube or fitting should not be scratched or damaged in the process, as this is the main cause for water leaks later on.



5. To make sure the fitting is properly connected to the tube, pull it once. After pulling, insert a spanner under the collet and push the tube into the fitting once more for a complete insertion.



6. When no play is desired for the fitting and tube, use our company's LC to eliminate the play of the fitting.



7. Make sure to completely eliminate pressure before disassembling the fitting.

8. When disassembling the tube, push the clip in direction to the main assembly and then pull the tube out for easy disassembling.

9. Fittings and tubes can be reused.

Straight Needle Valve CTS x MIP



PART NO.	SIZE	CTN QTY
C76840	1/4" x 1/4"	5
C76841	3/8" x 3/8"	5

Straight Needle Valve CTS



PART NO.	SIZE	CTN QTY
C76842	1/4"	5
C76843	3/8"	5

Angle Valve CTS x FIP



PART NO.	SIZE	CTN QTY
C76844	1/4" x 1/4"	5
C76845	3/8" x 3/8"	5

Straight Valve CTS x MIP



PART NO.	SIZE	CTN QTY
C76846	1/4" x 1/4"	5
C76847	3/8" x 3/8"	5

Straight Valve OD x CTS



PART NO.	SIZE	CTN QTY
C76848	1/4"	5
C76849	3/8"	5

End Cap CTS



PART NO.	SIZE	CTN QTY
C76850	1/4"	5
C76851	3/8"	5
C76852	1/2"	5

Plug CTS



PART NO.	SIZE	CTN QTY
C76853	1/4"	5
C76854	3/8"	5
C76855	1/2"	5

Union & Reducing Union CTS x CTS



PART NO.	SIZE	CTN QTY
C76856	1/4"	5
C76857	3/8" x 1/4"	5
C76858	3/8" x 3/8"	5
C76859	1/2" x 3/8"	5

Bulkhead Union CTS x CTS



PART NO.	SIZE	CTN QTY
C76860	1/4" x 1/4"	5
C76861	3/8" x 3/8"	5
C76862	1/2" x 3/8"	5

Tee & Reducing Tee CTS x CTS x CTS


PART NO.	SIZE	CTN QTY
C76863	1/4"	5
C76864	3/8" x 3/8" x 1/4"	5
C76865	3/8"	5
C76866	1/2" x 1/2" x 3/8"	5
C76867	1/2"	5

Elbow CTS x MIP


PART NO.	SIZE	CTN QTY
C76884	1/4" x 1/8"	5
C76885	1/4" x 1/4"	5
C76886	1/4" x 3/8"	5
C76887	3/8" x 1/4"	5
C76888	3/8" x 3/8"	5

Elbow & Reducing Elbow CTS x CTS


PART NO.	SIZE	CTN QTY
C76868	1/4"	5
C76869	3/8"	5
C76870	1/2"	5

Elbow Adapter CTS x CTS Stem


PART NO.	SIZE	CTN QTY
C76889	1/4" x 1/4"	5
C76890	3/8" x 3/8"	5

Coupling CTS x FIP


PART NO.	SIZE	CTN QTY
C76871	1/4" x 1/8"	5
C76872	1/4" x 1/4"	5
C76873	3/8" x 1/4"	5

Connector CTS Stem x Tube ID


PART NO.	SIZE	CTN QTY
C76891	3/8" x 3/8"	5
C76892	3/8" x 1/2"	5
C76893	1/2" x 1/2"	5

Kitchen Faucet Adapter Tee FIP x MIP x CTS


PART NO.	SIZE	CTN QTY
C76874	1/2" x 1/2" x 1/4"	5
C76875	1/2" x 1/2" x 3/8"	5

Connector CTS x MIP


PART NO.	SIZE	CTN QTY
C76876	1/4" x 1/8"	5
C76877	1/4" x 1/4"	5
C76878	1/4" x 3/8"	5
C76879	3/8" x 1/4"	5
C76880	3/8" x 3/8"	5
C76881	3/8" x 1/2"	5
C76882	1/2" x 3/8"	5
C76883	1/2" x 1/2"	5

Flanged Dielectric Union



- Temperature range: 180°F at 200 PSI
- Maximum temperature 200°F

PART NO.	FIP x COPPER SWEAT	CTN QTY
D06250	2 1/2" x 2 1/2"	1
D06300	3" x 3"	1
D06400	4" x 4"	1

Dielectric Union



Female x Sweat



Male x Sweat

- Prevents electrolysis or galvanic action when connecting dissimilar metals
- Residential or commercial use
- Zinc plated forged steel
- Solder ends conform to ANSI B16.19
- EPDM washer, ABS fiber sleeve
- Threads conform to ANSI B2.1
- Pressure rated at 250 PSI at 180°F

Female x Sweat

PART NO.	FIP x COPPER SWEAT	OD	CTN QTY
D06050	1/2" x 1/2"	5/8"	12
D06075	3/4" x 3/4"	7/8"	12
D06100	1" x 1"	1 1/8"	12
D06125	1 1/4" x 1 1/4"	1 3/8"	6
D06150	1 1/2" x 1 1/2"	1 5/8"	6
D06200	2" x 2"	2 1/8"	6

Reducing

PART NO.	FIP x COPPER SWEAT	OD	CTN QTY
D06350	3/4" x 1/2"	5/8"	12

Male x Sweat

PART NO.	MIP x COPPER SWEAT	OD	CTN QTY
D06005	1/2" x 1/2"	7/8"	12
D06750	3/4" x 3/4"	7/8"	12

Reducing

PART NO.	MIP x COPPER SWEAT	OD	CTN QTY
D06755	3/4" x 1/2"	5/8"	12

LEAD FREE

PART NO.	FIP x COPPER SWEAT	OD	CTN QTY
D07050	1/2" x 1/2"	5/8"	24
D07075	3/4" x 3/4"	7/8"	24
D07100	1" x 1"	1 1/8"	12
D07125	1 1/4" x 1 1/4"	1 3/8"	6
D07150	1 1/2" x 1 1/2"	1 5/8"	6
D07200	2" x 2"	2 1/8"	6
D07350	3/4" x 1/2"	5/8"	24

LEAD FREE

PART NO.	MIP x COPPER SWEAT	OD	CTN QTY
D07025	1/2" x 1/2"	5/8"	24
D07750	3/4" x 3/4"	7/8"	24
D07755	3/4" x 1/2"	5/8"	24

Gasket and Insert for Dielectric Union



Insert



Gasket

- For water
- 200°F temperature rating
- CARTON QUANTITIES ONLY

Insert		
PART NO.	DESCRIPTION	CTN QTY
D06800	1/2" insert	25
D06801	3/4" insert	25
D06802	1" insert	25
D06803	1 1/4" insert	25
D06804	1 1/2" insert	25
D06805	2" insert	25
Gasket		
PART NO.	DESCRIPTION	CTN QTY
D06850	1/2" gasket	25
D06875	3/4" gasket (EPDM rubber)	25
D06900	1" gasket	25
D06901	1 1/4" gasket	25
D06902	1 1/2" gasket	25
D06903	2" gasket	25

Dielectric Nipple



- 180° maximum temperature
- Prevents corrosion, lime and scale buildup
- Adds years of life to any water system
- For use on water heaters, dishwashers, water filtration systems
- Electroplated steel casing with non-corrosion thermoplastic lining

PART NO.	SIZE	CTN QTY
D06753	3/4" MIP x 3" length	1
D06450	1/2" MIP x 3" length	1
D06500	1" MIP x 3" length	1
D06510	1" MIP x 4" length	1
D06525	1 1/4" MIP x 4" length	1
D06550	1 1/2" MIP x 4" length	1
D06600	2" MIP x 6" length	1
D06650	2 1/2" MIP x 6" length	1
D06700	3" MIP x 6" length	1

Schedule 40 Pipe Hanger



- Alternating screw and nail holes
- Load rating 250# max

Galvanized

PART NO.	SIZE	CTN QTY
H30001	1 1/2"	50
H30002	2"	50
H30003	3"	50
H30004	4"	50

Vinyl

PART NO.	SIZE	CTN QTY
H30011	1 1/2"	50
H30022	2"	50
H30033	3"	50
H30044	4"	50

Plastic Coated Pipe Hook



- Steel pipe hook with plastic insulation

PART NO.	SIZE	CTN QTY
H12054	1/2" x 4"	50/1000
H12056	1/2" x 6"	50/1000
H12074	3/4" x 4"	50/1000
H12076	3/4" x 6"	50/1000
H12106	1" x 6"	50/1000

"Copper Boy" Pipe Hook



- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
H10052	1/2" x 2 1/2" copper clad pipe hook	100
H10072	3/4" x 2 1/2" copper clad pipe hook	100

Drive J-Hook



- Copper clad
- CARTON QUANTITIES ONLY

PART NO.	CTS	CTN QTY
H23050	1/2" x 3/4"	100

Pipe Hook



Plain Steel



Copper Clad

- 10 gauge
- CARTON QUANTITIES ONLY

Plain Steel

PART NO.	SIZE	CTN QTY
H10054	1/2" x 4"	50/500
H10056	1/2" x 6"	50/500
H10058	1/2" x 8"	50/500
H10074	3/4" x 4"	50/500
H10076	3/4" x 6"	50/500
H10078	3/4" x 8"	50/500
H10080	3/4" x 10"	50/500
H10106	1" x 6"	50/500
H10108	1" x 8"	50/500
H10110	1" x 10"	50/500
H10126	1 1/4" x 6"	50/500
H10128	1 1/4" x 8"	50/500
H10156	1 1/2" x 6"	50/500
H10158	1 1/2" x 8"	50/500
H10208	2" x 8"	50/500

Copper Clad

PART NO.	SIZE	CTN QTY
H11054	1/2" x 4"	50/500
H11056	1 1/2" x 6"	50/500
H11058	1/2" x 8"	50/500
H11074	3/4" x 4"	50/500
H11076	3/4" x 6"	50/500
H11078	3/4" x 8"	50/500
H11080	3/4" x 10"	50/500
H11106	1" x 6"	50/500
H11108	1" x 8"	50/500
H11126	1 1/4" x 6"	50/500
H11156	1 1/2" x 6"	50/500
H11208	2" x 8"	50/500
H11210	2" x 10"	50/500

J-Hook for Drain Pipe System



- Nails included
- Reduces installation time
- Glueable with universal cement
- Designed for PVC and ABS pipe
- Fabricated of durable ASB plastic
- Calibrated for 1/8" fall per foot - no more measuring & adjusting for fall
- FULL BAG QUANTITIES ONLY



PART NO.	DESCRIPTION	BAG/CTN QTY
J01150	1 1/2" DWV x 7" length	25/300
J01200	2" DWV x 7" length	25/300
J01300	3" DWV x 7" length	25/300
J01400	4" DWV x 7" length	25/300

J-Hook for CTS Water System



- Nail holes on all four sides - nails are included!
- No heat distortion even at 250°
- Eliminates corrosion and electrolysis on copper pipe
- Fabricated of durable ABS plastic
- FULL BAG QUANTITIES ONLY

Baby J-Hooks

PART NO.	DESCRIPTION	BAG/CTN QTY
J01050	1/2" CTS x 4" length	25/300
J01075	3/4" CTS x 4" length	25/300
J01100	1" CTS x 4" length	25/200

Long Baby J-Hooks

PART NO.	DESCRIPTION	BAG/CTN QTY
J01057	1/2" CTS x 7 1/2" length	25/200
J01077	3/4" CTS x 7 1/2" length	25/200

Double J-Hooks

PART NO.	DESCRIPTION	BAG/CTN QTY
J01051	1/2" CTS x 1/2" CTS x 4" length	25/200
J01052	1/2" CTS x 3/4" CTS x 4" length	25/200
J01053	3/4" CTS x 3/4" CTS x 4" length	25/200

Copper Clad Nail



- CARTON QUANTITIES ONLY

PART NO.	SIZE	CTN QTY
H15001	1 1/4"	200

Full Clamp



- Plastic clamp with preloaded nail for copper, CPVC, polybutylene tubing
- CARTON QUANTITIES ONLY

PART NO.	TUBING SIZE	CTN QTY
H25050	1/2"	100
H25075	3/4"	50
H25100	1"	25

Half Clamp



- Plastic clamp with preloaded nail for copper, CPVC, polybutylene tubing
- CARTON QUANTITIES ONLY

PART NO.	TUBING SIZE	CTN QTY
H24038	3/8"	100
H24050	1/2"	50
H24075	3/4"	50
H24100	1"	50

Insulating/Suspension Clamp



- Plastic insulating and suspension clamp in one
- Eliminates noise from tubing expansion and contraction
- For copper, CPVC and polybutylene tubing
- CARTON QUANTITIES ONLY

PART NO.	TUBING SIZE	CTN QTY
H26050	1/2"	50
H26075	3/4"	50
H26100	1"	50
H26125	1 1/4"	50
H26150	1 1/2"	25
H26200	2"	25

Pipe Insulator



- Plastic insulator eliminates noise from expansion and contraction
- For copper, CPVC and polybutylene tubing
- UPC listed
- Drill hole size 1 3/8"
- CARTON QUANTITIES ONLY

PART NO.	TUBING SIZE	CTN QTY
H27050	1/2"	25
H27075	3/4"	25
H27100	1"	25

Perforated Hanger Iron



- Alternating holes (bolt and nail)
- CARTON QUANTITIES ONLY

Galvanized

PART NO.	SIZE	GAUGE	CTN QTY
H20001	3/4" x 10'	20 (heavy)	50 rolls
H20002	3/4" x 10'	24 (medium)	50 rolls
H20003	3/4" x 10'	28 (light)	50 rolls
H20005	3/4" x 50'	20 (heavy)	10 rolls
H20006	3/4" x 50'	24 (medium)	10 rolls
H20007	3/4" x 50'	28 (light)	10 rolls
H20010	3/4" x 100'	20 (heavy)	5 rolls
H20011	3/4" x 100'	24 (medium)	10 rolls
H20012	3/4" x 100'	28 (light)	10 rolls

Copper Clad

PART NO.	SIZE	GAUGE	CTN QTY
H20100	3/4" x 10'	22 (heavy)	50 rolls
H20150	3/4" x 50'	22	10 rolls

Plastic Hanger Tape



- Flexible, non-conductive polypropylene
- 3/4" wide, .050 thick
- 1/8" diameter holes every 3/4"
- 125 lb. ultimate load ASTM A-370-77
- Can be cut with scissors or utility knife
- Uses: pipe hanger, duct hanger and tubing utility strapping

PART NO.	DESCRIPTION	CTN QTY
H21010	10' roll poly bagged	100
H21025	25' roll poly bagged	40
H21050	50' roll poly bagged	25
H21100	100' roll poly bagged	10
H21101	100' roll dispenser box	10

Plastic Hanger Tape



- 125# max load
- 1/8" diameter holes every 3/4"
- 2" wide; .05 thickness; cuts with scissors

PART NO.	SIZE	CTN QTY
H21200	2" x 100'	10

Pipe Strap



- Priced each
- CARTON QUANTITIES ONLY

Two-Hole Galvanized - IPS

PART NO.	SIZE	CTN QTY
H13038	3/8"	200
H13050	1/2"	150
H13075	3/4"	50
H13100	1"	50
H13125	1 1/4"	50
H13150	1 1/2"	25
H13200	2"	25
H13250	2 1/2"	25
H13300	3"	10
H13400	4"	10

Two-Hole Copper Clad - CTS

PART NO.	SIZE	CTN QTY
H15050	1/2"	100
H15075	3/4"	100
H15100	1"	100
H15125	1 1/4"	100
H15150	1 1/2"	100
H15200	2"	100

Two-Hole Solid Copper - CTS

PART NO.	SIZE	CTN QTY
H16038	3/8"	100
H16050	1/2"	100
H16075	3/4"	100
H16100	1"	100

One-Hole Galvanized - IPS

PART NO.	SIZE	CTN QTY
H18050	1/2"	100
H18075	3/4"	50

Stud Protectors and Plate



- Protects piping and wiring from nails
- CARTON QUANTITIES ONLY

PART NO.	SIZE	GAUGE	CTN QTY
S33001	1 1/2" x 6"	18	100
S33002	1 1/2" x 3"	18	100
S33003	5" x 8" (not self nailed)	16	50
S33005	1 1/2" x 6"	16	100
S33006	1 1/2" x 5"	18	100
S33010	1 1/2" x 6"	22	100
S33011	1 1/2" x 3"	22	100
S33012	3 1/2" x 6" (not self nailed)	16	25
S33014	3 1/2" x 6" (self nailed)	16	25

Interlocking Stud Guard



- CARTON QUANTITIES ONLY

PART NO.	SIZE	GAUGE	CTN QTY
S33004	1 1/2" x 6"	20	100
S33007	1 1/2" x 6"	16	100
S33016	3 1/2" x 6"	16	25

18 Gauge Galvanized Duct Hanger



PART NO.	SIZE	CTN QTY
H12008	7/8" x 8"	100
H12009	7/8" x 9"	100
H12010	7/8" x 10"	100

Gas Ball Valves

- CSA- certified for use with natural, manufactured, mixed, liquefied petroleum gas/air mixtures up to 2 psig
- UL listed 757x (1/2" and 3/4")
- Forged brass body
- Chrome plated brass ball
- Temperatures up to 175°F
- Threaded ends comply with ANSI B2.1
- 3/8"x 3/4" one piece body
- 1"-2" two-piece body with plated steel handle
- Made in Italy



Lever Handle, Female x Female



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B64375	3/8" FIP	10	100
B64050	1/2" FIP	10	100
B64075	3/4" FIP	10	100
B64100	1" FIP	6	36
B64125	1 1/4" FIP	4	24
B64150	1 1/2" FIP	4	16
B64200	2" FIP	2	10

Tee Handle, Female x Female



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B65375	3/8" FIP	10	100
B65050	3/8" FIP	10	100
B65075	3/4" FIP	10	100
B65100	1" FIP	6	36

Square Head, Female x Female



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B66375	3/8" FIP	10	100
B66050	1/2" FIP	10	100
B66075	3/4" FIP	10	100
B66100	1" FIP	6	36

Two-Piece Gas Ball Valves

- CSA- certified for use with natural, manufactured, mixed liquefied petroleum and L.P. gas/air mixtures up to 2 psig
- Forged brass body
- Chrome plated brass ball
- Temperatures up to 125° F
- Two-piece body
- Made in Italy



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B64450	1/2"	10	50
B64475	3/4"	10	50

Texas Pattern Gas Ball Valve

- CSA certified
- Female IPS x hose end x 1/8" MIP
- Lever handle
- One piece forged body
- Made in Italy



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B69121	1/2" FIP x 1/8" MIP	10	100

Lever Handle Gas Ball Valves

- Forged brass body
- 3/4" Chrome plated forged brass ball
- Temperatures up to 175°F
- Threaded ends comply with ANSI B2.1
- CSA- certified for use with natural, manufactured, mixed, liquefied petroleum and LP gas/air mixtures up to 2 psig
- One piece body construction
- Made in Italy



Flare x Female



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B67375	3/8" flare x 1/2" FIP	10	100
B67050	1/2" flare x 1/2" FIP	10	100
B67937	15/16" flare x 1/2" FIP	10	100
B67975	15/16" flare x 3/4" FIP	10	100

Flare x Male



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B68001	1/2" flare x 1/2" MIP	10	100

Flare x Flare



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B68375	3/8" flare x 3/8" flare	10	100
B68050	1/2" flare x 1/2" flare	10	100
B68058	5/8" flare x 5/8" flare	10	100

Gas Heater Valves

- 9/16" - 24 Fine Thread Flare (for 3/8" tube)
- Forged brass body
- Chrome plated forged brass ball
- CSA certified for use with natural, manufactured, mixed, liquefied petroleum and LP gas/air mixtures up to 2 psig
- One piece body construction
- Temperatures up to 175°F
- Made in Italy



PART NO.	SIZE	IN. CTN.	MSTR. CTN.
B69050	9/16"-24 x 1/2" FIP	10	100

Brass Gas Ball Valves

- Two-piece forged brass body with chrome plated brass ball
- Double O-ring packing
- PTFE Seats
- 1/4 turn aluminum handle
- 1/2 PSI for indoor appliance connections per ANSI Z21.15/CGA 9.1
- Blowout-proof stem
- 5 PSI for indoor shutoff per CGA 91-002 & ASME B16.44
- CUS certified



Female x Female

PART NO.	SIZE	CTN. QTY.
B67100	1/2" FIP x 1/2" FIP	1/160
B67101	3/4" FIP x 3/4" FIP	1/100

- Two-piece forged brass body with chrome plated brass ball
- Double O-ring packing
- PTFE Seats
- 1/4 turn aluminum handle
- 1/2 PSI for indoor appliance connections per ANSI Z21.15/CGA 9.1
- 5 PSI for indoor shutoff per CGA 91-002 & ASME B16.44
- CUS certified



Flare x Female

PART NO.	SIZE	CTN. QTY.
B67102	3/8" FL x 1/2" FIP	1/160
B67103	1/2" FL x 1/2" FIP	1/160

Flare x Male

PART NO.	SIZE	CTN. QTY.
B67104	1/2" FL x 1/2" MIP	1/160

Flare

PART NO.	SIZE	CTN. QTY.
B67105	3/8" FL x 3/8" FL	1/160
B67106	1/2" FL x 1/2" FL	1/160

- Full-port design
- Forged brass body up to 4"
- Chrome plated brass ball
- Adjustable packing nut
- Non-sticking teflon seats
- 1/4 turn zinc plated steel handle
- 600psi, WOG (water, oil, gas)
- Working steam pressure: 150psi
- Blowout-proof stem
- Teflon packing for safety against leakage
- CUS / FM / NSF61 / UL certified



Threaded

PART NO.	SIZE	CTN. QTY.
B67200	3/8"	20/100
B67201	1/2"	50/100
B67202	3/4"	30/60
B67203	1"	20/40
B67204	1-1/4"	12/24
B67205	1-1/2"	9/18
B67206	2"	6/12

- Full-port design
- Forged brass body up to 4"
- Chrome plated brass ball
- Adjustable packing nut
- Non-sticking teflon seats
- 1/4 turn zinc plated steel handle
- 600psi, WOG (water, oil, gas)
- Working steam pressure: 150psi
- Blowout-proof stem
- Teflon packing for safety against leakage
- FM / NSF61 / UL certified



Sweat

PART NO.	SIZE	CTN. QTY.
B67207	3/8"	20/100
B67208	1/2"	50/100
B67209	3/4"	30/60
B67210	1"	20/40
B67211	1-1/4"	12/24
B67212	1-1/2"	9/18
B67213	2"	6/12

- Full-port with waste design
- Forged brass body
- Chrome plated brass ball
- Adjustable packing nut
- Non-sticking teflon seats
- 1/4 turn zinc plated steel handle
- 600psi, WOG (water, oil, gas)
- Working steam pressure: 150psi
- Blowout-proof stem
- Teflon packing for safety against leakage
- NSF61 certified



Brass Ball & Waste Valve Sweat

PART NO.	SIZE	CTN. QTY.
B67214	1/2"	10/60
B67215	3/4"	10/60
B67216	1"	5/40



Brass Ball & Waste Valve Threaded

PART NO.	SIZE	CTN. QTY.
B67217	1/2"	10/60
B67218	3/4"	10/60
B67219	1"	5/40

- Cast brass body
- Cast iron handle
- 125 PSI WOG to 100° F
- Maximum Temperature 180°F



Brass Stop Valve Threaded

PART NO.	SIZE	CTN. QTY.
B67312	1/2"	6/48
B67313	3/4"	6/48



Brass Stop & Waste Valve Threaded

PART NO.	SIZE	CTN. QTY.
B67315	3/4"	6/48



Brass Stop Valve Sweat

PART NO.	SIZE	CTN. QTY.
B67316	1/2"	6/48
B67317	3/4"	6/48

- Forged brass body
- Copper or threads to hose
- Cast iron handle
- Non-sticking teflon seats
- 125 PSI WOG to 100°F
- Maximum Temperature 180°F
- Size range- 1/2" MIP (1/2" SWEAT) 3/4"MHT
- 3/4"MIP (1/2" SWEAT) 3/4"MHT



Brass Broiler Drain Valve - Male

PART NO.	SIZE	CTN. QTY.
B67320	1/2" MIP x 3/4" MHT	6/48
B67321	3/4" MIP x 3/4" MHT	6/48

- Forged brass body
- Threads to hose
- Cast iron handle
- 125 PSI WOG to 100°F
- Maximum Temperature 180°F
- Size range- 1/2" FIP * 3/4"MHT



Brass Broiler Drain Valve - Female

PART NO.	SIZE	CTN. QTY.
B67322	1/2" FIP x 3/4" MHT	6/48
B67323	3/4" FIP x 3/4" MHT	6/48

Gas Shut-Off Valve

- Rated at 2 PSIG
- Cast bronze plug style

MADE IN THE
USA**Lever Handle**

PART NO.	SIZE	QTY
G17025	1/4"	25
G17037	3/8"	25
G17050	1/2"	50
G17075	3/4"	50
G17100	1"	25
G17125	1-1/4"	10
G17150	1-1/2"	10
G17200	2"	5

**Square Head**

PART NO.	SIZE	QTY
G18025	1/4"	25
G18037	3/8"	25
G18050	1/2" AGA	50
G18075	3/4" AGA	50
G18100	1"	25
G18125	1-1/4"	15
G18150	1-1/2"	10
G18200	2"	5

**Flat/Tee Head**

PART NO.	SIZE	QTY
G19025	1/4"	25
G19037	3/8"	25
G19050	1/2" AGA	50
G19075	3/4" AGA	50
G19100	1"	25
G19125	1-1/4"	15
G19150	1-1/2"	10
G19200	2"	5

Flare x Flare

- 30 PSI



PART NO.	SIZE
N01013	1/4"
N01014	3/8"
N01015	1/2"

Flare x Male Pipe

- 30 PSI



PART NO.	SIZE
N01016	1/4" x 1/8"
N01017	1/4" x 1/4"
N01018	3/8" x 1/4"

Flare x Female Pipe

- 30 PSI



PART NO.	SIZE
N01020	3/8" x 3/8"
N01021	1/2" x 1/2"
N01022	5/8" x 3/4"
N01023	5/8" x 1/2"

Compression x Male Pipe

- 30 PSI



PART NO.	SIZE
N01024	1/4" x 1/8"
N01025	1/4" x 1/4"
N01026	3/8" x 1/4"
N01040	5/16" x 1/4"

Female Pipe x Female Pipe

- 30 PSI



PART NO.	SIZE
N01010	1/8"
N01011	1/4"
N01012	3/8"

Female Pipe x Male Pipe

- 30 PSI



PART NO.	SIZE
N01027	1/8"
N01028	1/4"
N01029	3/8"

Compression x Compression

- 30 PSI



PART NO.	SIZE
N01007	1/4"
N01009	1/2"

Drain Cock Internal Seat



PART NO.	SIZE
N01030	1/8"
N01031	1/4"

Drain Cock Tee Handle w/Bibb



• Hose x Male IPT

PART NO.	SIZE
N01032	1/4"

Drain Cock External Seat



PART NO.	SIZE
N01033	1/8"
N01034	1/4"
N01035	3/8"

Drain Cock



PART NO.	SIZE
N01001	1/8"
N01002	1/4"

Drain Cock Tank Valve



PART NO.	FLARE x MIP
N01005	3/8" x 1/2"
N01006	3/8" x 3/4"

Drain Cock Tank Valve



PART NO.	COMP x MIP
N01037	3/8" x 3/4"

Satin Brass Air Cock Female x Male Lever Handle Hex Shoulder



• Spring Bottoms

PART NO.	SIZE
A11011	1/8" x 1/8"
A11001	1/4" x 1/4"

Satin Brass Air Cock Male x Spigot Tee Handle Hex Shoulder



• Spring Bottoms

PART NO.	SIZE
A11002	1/4" x spigot

Satin Brass Air Cock Female x Male Tee Handle Hex Shoulder



• Spring Bottoms

PART NO.	SIZE
A11003	1/4" x 1/4"

Satin Brass Air Cock Female x Female Lever Handle Round Shoulder



• Spring Bottoms

PART NO.	SIZE
A11004	1/4" x 1/4"

Satin Brass Air Cock Female x Female Tee Handle Hex Shoulder



• Spring Bottoms

PART NO.	SIZE
A11005	1/4" x 1/4"

Satin Brass Air Cock Female x Female Tee Handle Round Shoulder



• Spring Bottoms

PART NO.	SIZE
A11016	1/8" x 1/8"
A11006	1/4" x 1/4"

Satin Brass Air Cock Female x Female Lever Handle Hex Shoulder



• Spring Bottoms

PART NO.	SIZE
A11017	1/8" x 1/8"
A11007	1/4" x 1/4"

Satin Brass Air Cock Female x Male Tee Handle Round Shoulder



• Spring Bottoms

PART NO.	SIZE
A11008	1/4" x 1/4"

Full Port Ball Valves

600# WOG/ 125# WSP

- Forged brass
- Chrome plated ball
- Teflon seats
- Blowout-proof stem
- Vinyl grip and vibration-proof locknut
- Temperature range: -20°F to 350°F (call for pressure rating when temperature is above 210°F)
- CSA- certified (1/2"-2") for use with natural, manufactured, mixed, liquefied petroleum and LP gas/air mixtures up to 2 psi
- Complies with Federal Specification WW-V-35B, Type II, Style 3
- Threaded ends comply with ANSI B2.1
- Solder ends comply with ANSI B16.18
- Made in Italy



Threaded Ends



PART NO.	SIZE	PORT	IN. CTN.	MSTR. CTN.
B60025	1/4"	0.315	20	200
B60375	3/8"	0.394	10	100
B60050	1/2"	0.590	10	100
B60075	3/4"	0.787	10	100
B60100	1"	0.984	10	50
B60125	1 1/4"	1.260	10	20
B60150	1 1/2"	1.575	4	20
B60200	2"	1.968	4	20
B60250	2 1/2"	2.283	2	6
B60300	3"	2.677	2	4
B60400	4"	3.543	1	2

Solder Ends



PART NO.	SIZE	PORT	IN. CTN.	MSTR. CTN.
B61050	1/2"	0.590	10	100
B61075	3/4"	0.787	5	60
B61100	1"	0.984	6	36
B61125	1 1/4"	1.260	4	24
B61150	1 1/2"	1.575	4	16
B61200	2"	1.968	2	10

Threaded Ends With 1/8" Waste



PART NO.	SIZE	PORT	IN. CTN.	MSTR. CTN.
B60650	1/2"		10	100
B60675	3/4"		10	100
B60610	1"		10	100

Solder Ends With 1/8" Waste



PART NO.	SIZE	PORT	IN. CTN.	MSTR. CTN.
B60750	1/2"		10	100
B60775	3/4"		10	100
B60710	1"		10	100

PVC Ball Valves Solvent End

- One piece body construction
- Standard port
- EPDM seats and o-rings
- Working pressure 150 psi at 73°F
- Quarter turn operation
- Not for compressed air
- Ideal for swimming pools, irrigation and water supply uses
- Solvent ends comply with ASTM D 2466
- Threaded ends comply with ANSI B2.1
- For cold water lines
- Large flow opening



PART NO.	SIZE	CTN. QTY.
B90050	1/2"	100
B90075	3/4"	100
B90100	1"	100
B90125	1 1/4"	100
B90150	1 1/2"	48
B90200	2"	24
B90250	2 1/2"	12
B90300	3"	12
B90400	4"	6

PVC Ball Valves Threaded Ends

- One piece body construction
- Standard port
- EPDM seats and o-rings
- Working pressure 150 psi at 73°F
- Quarter turn operation
- Not for compressed air
- Ideal for swimming pools, irrigation and water supply uses
- Solvent ends comply with ASTM D 2466
- Threaded ends comply with ANSI B2.1
- For cold water lines
- Large flow opening



PART NO.	SIZE	CTN. QTY.
B91050	1/2"	100
B91075	3/4"	100
B91100	1"	100
B91125	1 1/4"	100
B91150	1 1/2"	48
B91200	2"	24
B91250	2 1/2"	12
B91300	3"	12
B91400	4"	6

CPVC Ball Valves

- NSF approved!
- Standard port
- For use on CPVC tubing size (OD)
- Teflon seats
- EPDM o-rings
- One piece body construction
- Large flow opening
- For hot or cold water lines up to 100 psi at temperature up to 180°F
- Solvent ends comply with ASTM D2846
- Quarter turn operation



PART NO.	SIZE	CTN. QTY.
B92050	1/2" (5/8" OD)	100
B92075	3/4" (7/8" OD)	100

Radiator Coin Key Air Valve And Key

• CARTON QUANTITY ONLY



PART NO.	DESCRIPTION	CTN. QTY.
R20001	Vent valve with key	100
R20002	Key only	100
R20003	Valve only	100

Inline PVC Check Valves



- Stainless steel spring
- EPDM seats
- Maintenance-free operation
- .5 psi required to open unit
- 200 psi static pressure rating at 77°F
- Use anywhere to stop backflow and siphoning
 - Swimming Pools - Hot Tubs - Spas
 - Solar Installations

PART NO.	SIZE	CTN. QTY.
C30050	1/2"	12
C30075	3/4"	12
C30100	1"	12
C30125	1-1/4"	12
C30150	1-1/2"	12
C30200	2"	6

Threaded Ends



PART NO.	SIZE	CTN. QTY.
C31050	1/2"	12
C31075	3/4"	12
C31100	1"	12
C31125	1-1/4"	12
C31150	1-1/2"	12
C31200	2"	6

Forged Brass Hose Bibb



- Hard chrome ball
- Quarter-turn operation
- Teflon seats
- T-handle

PART NO.	SIZE	CTN. QTY.
B60950	1/2"	10
B60975	3/4"	10

Cast Brass Hose Bibb



PART NO.	MIP x MALE HOSE	CTN. QTY.
B59050	1/2" x 3/4"	12
B59075	3/4" x 3/4"	12
B59100	1" x 1"	6

Hose Bibb Reducer



- Reduces 1" hose bibb to standard 3/4" garden hose

PART NO.	FHT x MHT	CTN. QTY.
G20058	1" x 3/4"	10

Hose Bibb Vacuum Breaker



- 3/4" hose thread
- Vandal-proof breakoff screw
- Brass
- ASSE 1011

PART NO.	DESCRIPTION	CTN. QTY.
G04003	Vacuum breaker	50

Economy Hose Bibb Vacuum Breaker



- Brass
- 3/4" hose thread

PART NO.	DESCRIPTION	CTN. QTY.
G04004	Economy Vacuum Breaker	50

Hose Faucet Anchor



- Long lasting solution to loosen exterior faucets
- Works with any wall material (brick, concrete, vinyl siding or stucco)
- For repair or new home applications
- Fits all exterior or faucet water lines
- Corrosion free

PART NO.	DESCRIPTION	CTN. QTY.
B59000	Hose faucet anchor	1

"T" Burner Bar

- 12-1/4" long by 1-3/8" high, tapped 1/2" IPS in ends and bottom
- Supplied with two 1/2" plugs and close nipple orifice

PART NO.	DESCRIPTION	LENGTH	HEIGHT	CTN QTY
L75080	Natural Gas	12-1/4"	1-3/8"	10
L75180	LPG	12-1/4"	1-3/8"	10

Two Leg Burner

- Dimensions 14" long x 1-3/4" high x 2-1/4" wide
- Tapped 1/2" IPS on both ends and one leg
- Comes with two 1/2" IPS plugs and close nipple orifice
- Ledge over burner holes prevents clogging

PART NO.	DESCRIPTION	LENGTH	HEIGHT	CTN QTY
L75081	Natural Gas	14"	1-3/4"	10
L75181	LPG	14"	1-3/4"	10

Round Burner

- 1-3/4" high x 4 1/2" wide, tapped 1/2" IPS in bottom and sides
- Supplied with close nipple orifice and 1/2" plug

PART NO.	DESCRIPTION	WIDTH	HEIGHT	CTN QTY
L75086	Natural Gas	4-1/2"	1-3/4"	10
L75186	LPG	4-1/2"	1-3/4"	10

Rectangular Burner

- Dimensions 8-3/4" long x 1-1/2" high x 1-3/4" wide with 1/2" IPS inlet
- Supplied with close nipple orifice and removable lid
- Low Profile

PART NO.	DESCRIPTION	LENGTH	HEIGHT	CTN QTY
L75085	Natural Gas	8-3/4"	1-1/2"	10
L75185	LPG	8-3/4"	1-1/2"	10

Log Lighter Burner Bars

- Air mixing chamber
- Straight: 17" pipe plus 3" mixing chamber
- T-Pattern: Two 7" pipes plus 3" mixing chamber

PART NO.	DESCRIPTION	CTN QTY
L75091	Straight for natural gas	10
L75092	Straight for LPG	10
L75095	Tee for natural gas	10
L75096	Tee for LPG	10

Log Lighter Valves

- CSA design certified
- Brass Escutcheon
- 1/4" Key included
- Individually tested (pressure test in open and closed position after installation)
- BTU rating: angle 188,000, straight 120,000
- To extend escutcheon use 1/2" pipe coupling and 1/2" pipe nipple

Standard Valve (7 turns open/close)

PART NO.	DESCRIPTION	CTN QTY
L75001	Chrome plated angle	25
L75002	Polished brass angle	25
L75006	Chrome plated straight	25
L75007	Polished brass straight	25

Ball Valve (1/4" turn)

PART NO.	DESCRIPTION	CTN QTY
L75040	Chrome plated angle	25
L75041	Polished brass angle	25
L75042	Chrome plated straight	25
L75043	Polished brass straight	25

Escutcheons Only

PART NO.	DESCRIPTION	CTN QTY
L75908	Chrome plated	1
L75909	Polished brass	1

Combo Log Lighter Valves



- Straight or angle pattern
- 5/16" key and brass plug for extra outlet included

PART NO.	DESCRIPTION	CTN QTY
L75009	Chrome plated	10
L75010	Polished brass	10

Log Lighter Valves with T-Burner



- Solid brass escutcheon, 1/4" key and close nipple orifice included
- Individually tested (pressure test open and closed after installation)
- Angle: 188,000 BTU/Straight: 120,000 BTU

PART NO.	DESCRIPTION	CTN QTY
L75406	Chrome plated angle natural gas	1
L75407	Polished brass angle natural gas	1
L75408	Chrome plated straight natural gas	1
L75409	Polished brass straight natural gas	1
L75400	Chrome plated angle LPG	1
L75401	Polished brass angle LPG	1
L75402	Chrome plated straight LPG	1
L75403	Polished brass straight LPG	1

Log Lighter Keys and Accessories

- 1/4" and 5/16" drives on keys

All Brass Keys



PART NO.	DESCRIPTION	CTN QTY
L75019	1/4"x 3"	5
L75020	5/16"x 3"	5
L75021	1/4"x 6"	5
L75022	1/4"x 12"	5
L75023	5/16"x 6"	5
L75024	5/16"x 12"	5

Die Cast Zinc Keys



PART NO.	DESCRIPTION	CTN QTY
L75017	1/4"x 3"	5
L75018	5/16"x 3"	5

Close Nipple Orifices



PART NO.	DESCRIPTION	CTN QTY
L75015	7/64" Orifice for natural gas	1
L75016	5/64" Orifice for LP gas	1

Angle Needle Valve

PART NO.	FLARE x MIP
N10142	1/4" x 1/8"
N10164	3/8" x 1/4"

Straight Needle Valve

PART NO.	FLARE x FLARE
N10244	1/4" x 1/4"
N10266	3/8" x 3/8"

Straight Needle Valve

PART NO.	FLARE x MIP
N10342	1/4" x 1/8"
N10344	1/4" x 1/4"
N10364	3/8" x 1/4"

Angle Compression Needle Valve

PART NO.	COMP x MIP
N10442	1/4" x 1/8"
N10444	1/4" x 1/4"
N10464	3/8" x 1/4"

Straight Compression Needle Valve

PART NO.	COMP x COMP
N10544	1/4" x 1/4"
N10566	3/8" x 3/8"

Straight Compression Needle Valve

PART NO.	COMP x MIP
N10642	1/4" x 1/8"
N10644	1/4" x 1/4"
N10664	3/8" x 1/4"

Pipe Needle Valves

PART NO.	MIP x MIP
N10722	1/8" x 1/8"
N10744	1/4" x 1/4"

Pipe Needle Valves

PART NO.	MIP x FIP
N10822	1/8" x 1/8"
N10844	1/4" x 1/4"

Pipe Needle Valves

PART NO.	FIP x FIP
N10922	1/8" x 1/8"
N10944	1/4" x 1/4"

Needle Valve Tee Kit

PART NO.	COMP x COMP
N78064	3/8" x 1/4"
N78084	1/2" x 1/4"
N78104	5/8" x 1/4"

Brass Saddle Clamp

- Fits up to 3/4" iron pipe
- Fits up to 1" hard copper
- Unassembled

PART NO.	FPT
N01038	1/8"

Brass Saddle Clamp With Valve

- Fits up to 3/4" iron pipe
- Fits up to 1" hard copper
- Unassembled

PART NO.	OD
N01039	1/4"

Self Piercing Valve

- 1/4" OD compression outlet
- Fits 3/8" to 1.315" OD tube

PART NO.	TUBE SIZE
S92001	1/4"

Icemaker Or Humidifier Kit

- 1/4" tubing
- Self piercing valve
- Brass fittings



PART NO.	TUBE SIZE
S92025	1/4" x 25' poly tubing
S92030	1/4" x 25' copper tubing
S92031	1/4" x 15' poly tubing

3/8" OD Uncoated w/Fittings

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G70000	1/2" MIP x 1/2" MIP x 12"	25
G70001	1/2" FIP x 1/2" FIP x 12"	25
G70002	3/8" FIP x 3/8" FIP x 12"	25
G70003	1/2" FIP x 1/2" MIP x 12"	25
G70004	1/2" FIP x 3/8" MIP x 12"	25
G70005	3/8" FIP x 1/2" MIP x 12"	25
G70006	3/8" FIP x 3/8" MIP x 12"	25
G70007	1/2" MIP x 1/2" MIP x 18"	25
G70008	1/2" FIP x 1/2" FIP x 18"	25
G70009	3/8" FIP x 3/8" FIP x 18"	25
G70010	1/2" FIP x 1/2" MIP x 18"	25
G70011	1/2" FIP x 3/8" MIP x 18"	25
G70012	3/8" FIP x 1/2" MIP x 18"	25
G70013	3/8" FIP x 3/8" MIP x 18"	25
G70014	1/2" MIP x 1/2" MIP x 24"	25
G70015	1/2" FIP x 1/2" FIP x 24"	25
G70016	3/8" FIP x 3/8" FIP x 24"	25
G70017	1/2" FIP x 1/2" MIP x 24"	25
G70018	1/2" FIP x 3/8" MIP x 24"	25
G70019	3/8" FIP x 1/2" MIP x 24"	25
G70020	3/8" FIP x 3/8" MIP x 24"	25
G70021	1/2" MIP x 1/2" MIP x 30"	25
G70022	1/2" FIP x 1/2" FIP x 30"	25
G70023	3/8" FIP x 3/8" FIP x 30"	25
G70024	1/2" FIP x 1/2" MIP x 30"	25
G70025	1/2" FIP x 3/8" MIP x 30"	25
G70026	3/8" FIP x 1/2" MIP x 30"	25
G70027	3/8" FIP x 3/8" MIP x 30"	25
G70028	1/2" MIP x 1/2" MIP x 36"	25
G70029	1/2" FIP x 1/2" FIP x 36"	25
G70030	3/8" FIP x 3/8" FIP x 36"	25
G70031	1/2" FIP x 1/2" MIP x 36"	25
G70032	1/2" FIP x 3/8" MIP x 36"	25
G70033	3/8" FIP x 1/2" MIP x 36"	25
G70034	3/8" FIP x 3/8" MIP x 36"	25
G70035	1/2" MIP x 1/2" MIP x 48"	25
G70036	1/2" FIP x 1/2" FIP x 48"	25
G70037	3/8" FIP x 3/8" FIP x 48"	25
G70038	1/2" FIP x 1/2" MIP x 48"	25
G70039	1/2" FIP x 3/8" MIP x 48"	25
G70040	3/8" FIP x 1/2" MIP x 48"	25
G70041	3/8" FIP x 3/8" MIP x 48"	25
G70042	1/2" MIP x 1/2" MIP x 60"	25
G70043	1/2" FIP x 1/2" FIP x 60"	25
G70044	3/8" FIP x 3/8" FIP x 60"	25
G70045	1/2" FIP x 1/2" MIP x 60"	25

3/8" OD Uncoated w/Fittings (cont.)

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G70046	1/2" FIP x 3/8" MIP x 60"	25
G70047	3/8" FIP x 1/2" MIP x 60"	25
G70048	3/8" FIP x 3/8" MIP x 60"	25
G70049	1/2" MIP x 1/2" MIP x 72"	25
G70050	1/2" FIP x 1/2" FIP x 72"	25
G70051	3/8" FIP x 3/8" FIP x 72"	25
G70052	1/2" FIP x 1/2" MIP x 72"	25
G70053	1/2" FIP x 3/8" MIP x 72"	25
G70054	3/8" FIP x 1/2" MIP x 72"	25
G70055	3/8" FIP x 3/8" MIP x 72"	25

3/8" OD Coated w/Fittings

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G70100	1/2" MIP x 1/2" MIP x 12"	25
G70101	1/2" FIP x 1/2" FIP x 12"	25
G70102	3/8" FIP x 3/8" FIP x 12"	25
G70103	1/2" FIP x 1/2" MIP x 12"	25
G70104	1/2" FIP x 3/8" MIP x 12"	25
G70105	3/8" FIP x 1/2" MIP x 12"	25
G70106	3/8" FIP x 3/8" MIP x 12"	25
G70107	1/2" MIP x 1/2" MIP x 18"	25
G70108	1/2" FIP x 1/2" FIP x 18"	25
G70109	3/8" FIP x 3/8" FIP x 18"	25
G70110	1/2" FIP x 1/2" MIP x 18"	25
G70111	1/2" FIP x 3/8" MIP x 18"	25
G70112	3/8" FIP x 1/2" MIP x 18"	25
G70113	3/8" FIP x 3/8" MIP x 18"	25
G70114	1/2" MIP x 1/2" MIP x 24"	25
G70115	1/2" FIP x 1/2" FIP x 24"	25
G70116	3/8" FIP x 3/8" FIP x 24"	25
G70117	1/2" FIP x 1/2" MIP x 24"	25
G70118	1/2" FIP x 3/8" MIP x 24"	25
G70119	3/8" FIP x 1/2" MIP x 24"	25
G70120	3/8" FIP x 3/8" MIP x 24"	25
G70121	1/2" MIP x 1/2" MIP x 30"	25
G70122	1/2" FIP x 1/2" FIP x 30"	25

3/8" OD Coated w/Fittings (cont.)

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G70123	3/8" FIP x 3/8" FIP x 30"	25
G70124	1/2" FIP x 1/2" MIP x 30"	25
G70125	1/2" FIP x 3/8" MIP x 30"	25
G70126	3/8" FIP x 1/2" MIP x 30"	25
G70127	3/8" FIP x 3/8" MIP x 30"	25
G70128	1/2" MIP x 1/2" MIP x 36"	25
G70129	1/2" FIP x 1/2" FIP x 36"	25
G70130	3/8" FIP x 3/8" FIP x 36"	25
G70131	1/2" FIP x 1/2" MIP x 36"	25
G70132	1/2" FIP x 3/8" MIP x 36"	25
G70133	3/8" FIP x 1/2" MIP x 36"	25
G70134	3/8" FIP x 3/8" MIP x 36"	25
G70135	1/2" MIP x 1/2" MIP x 48"	25
G70136	1/2" FIP x 1/2" FIP x 48"	25
G70137	3/8" FIP x 3/8" FIP x 48"	25
G70138	1/2" FIP x 1/2" MIP x 48"	25
G70139	1/2" FIP x 3/8" MIP x 48"	25
G70140	3/8" FIP x 1/2" MIP x 48"	25
G70141	3/8" FIP x 3/8" MIP x 48"	25
G70142	1/2" MIP x 1/2" MIP x 60"	25
G70143	1/2" FIP x 1/2" FIP x 60"	25
G70144	3/8" FIP x 3/8" FIP x 60"	25
G70145	1/2" FIP x 1/2" MIP x 60"	25
G70146	1/2" FIP x 3/8" MIP x 60"	25
G70147	3/8" FIP x 1/2" MIP x 60"	25
G70148	3/8" FIP x 3/8" MIP x 60"	25
G70149	1/2" MIP x 1/2" MIP x 72"	25
G70150	1/2" FIP x 1/2" FIP x 72"	25
G70151	3/8" FIP x 3/8" FIP x 72"	25
G70152	1/2" FIP x 1/2" MIP x 72"	25
G70153	1/2" FIP x 3/8" MIP x 72"	25
G70154	3/8" FIP x 1/2" MIP x 72"	25
G70155	3/8" FIP x 3/8" MIP x 72"	25

3/8" OD Uncoated with Ball Valves

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G70200	3/8" MIP x 1/2" FIP Ball x 12"	25
G70201	1/2" MIP x 1/2" FIP Ball x 12"	25
G70202	1/2" FIP x 1/2" FIP Ball x 12"	25
G70203	3/8" FIP x 1/2" FIP Ball x 12"	25
G70204	3/8" MIP x 1/2" FIP Ball x 18"	25
G70205	1/2" MIP x 1/2" FIP Ball x 18"	25
G70206	1/2" FIP x 1/2" FIP Ball x 18"	25
G70207	3/8" FIP x 1/2" FIP Ball x 18"	25
G70208	3/8" MIP x 1/2" FIP Ball x 24"	25
G70209	1/2" MIP x 1/2" FIP Ball x 24"	25
G70210	1/2" FIP x 1/2" FIP Ball x 24"	25
G70211	3/8" FIP x 1/2" FIP Ball x 24"	25
G70212	3/8" MIP x 1/2" FIP Ball x 30"	25
G70213	1/2" MIP x 1/2" FIP Ball x 30"	25
G70214	1/2" FIP x 1/2" FIP Ball x 30"	25
G70215	3/8" FIP x 1/2" FIP Ball x 30"	25
G70216	3/8" MIP x 1/2" FIP Ball x 36"	25
G70217	1/2" MIP x 1/2" FIP Ball x 36"	25
G70218	1/2" FIP x 1/2" FIP Ball x 36"	25
G70219	3/8" FIP x 1/2" FIP Ball x 36"	25
G70220	3/8" MIP x 1/2" FIP Ball x 48"	25
G70221	1/2" MIP x 1/2" FIP Ball x 48"	25
G70222	1/2" FIP x 1/2" FIP Ball x 48"	25
G70223	3/8" FIP x 1/2" FIP Ball x 48"	25
G70224	3/8" MIP x 1/2" FIP Ball x 60"	25
G70225	1/2" MIP x 1/2" FIP Ball x 60"	25
G70226	1/2" FIP x 1/2" FIP Ball x 60"	25
G70227	3/8" FIP x 1/2" FIP Ball x 60"	25
G70228	3/8" MIP x 1/2" FIP Ball x 72"	25
G70229	1/2" MIP x 1/2" FIP Ball x 72"	25
G70230	1/2" FIP x 1/2" FIP Ball x 72"	25
G70231	3/8" FIP x 1/2" FIP Ball x 72"	25
G70232	1/2" MIP x 1/2" FIP Angle Ball x 48"	25
G70233	3/8" FIP x 1/2" FIP Angle Ball x 48"	25
G70234	1/2" MIP x 1/2" FIP Angle Ball x 60"	25
G70235	3/8" FIP x 1/2" FIP Angle Ball x 60"	25
G70236	1/2" MIP x 1/2" FIP Angle Ball x 72"	25
G70237	3/8" FIP x 1/2" FIP Angle Ball x 72"	25

3/8" OD Coated with Ball Valves

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G70300	3/8" MIP x 1/2" FIP Ball x 12"	25
G70301	1/2" MIP x 1/2" FIP Ball x 12"	25
G70302	1/2" FIP x 1/2" FIP Ball x 12"	25
G70303	3/8" FIP x 1/2" FIP Ball x 12"	25
G70304	3/8" MIP x 1/2" FIP Ball x 18"	25
G70305	1/2" MIP x 1/2" FIP Ball x 18"	25
G70306	1/2" FIP x 1/2" FIP Ball x 18"	25
G70307	3/8" FIP x 1/2" FIP Ball x 18"	25
G70308	3/8" MIP x 1/2" FIP Ball x 24"	25
G70309	1/2" MIP x 1/2" FIP Ball x 24"	25
G70310	1/2" FIP x 1/2" FIP Ball x 24"	25
G70311	3/8" FIP x 1/2" FIP Ball x 24"	25
G70312	3/8" MIP x 1/2" FIP Ball x 30"	25
G70313	1/2" MIP x 1/2" FIP Ball x 30"	25
G70314	1/2" FIP x 1/2" FIP Ball x 30"	25
G70315	3/8" FIP x 1/2" FIP Ball x 30"	25
G70316	3/8" MIP x 1/2" FIP Ball x 36"	25
G70317	1/2" MIP x 1/2" FIP Ball x 36"	25
G70318	1/2" FIP x 1/2" FIP Ball x 36"	25
G70319	3/8" FIP x 1/2" FIP Ball x 36"	25
G70320	3/8" MIP x 1/2" FIP Ball x 48"	25
G70321	1/2" MIP x 1/2" FIP Ball x 48"	25
G70322	1/2" FIP x 1/2" FIP Ball x 48"	25
G70323	3/8" FIP x 1/2" FIP Ball x 48"	25
G70324	3/8" MIP x 1/2" FIP Ball x 60"	25
G70325	1/2" MIP x 1/2" FIP Ball x 60"	25
G70326	1/2" FIP x 1/2" FIP Ball x 60"	25
G70327	3/8" FIP x 1/2" FIP Ball x 60"	25
G70328	3/8" MIP x 1/2" FIP Ball x 72"	25
G70329	1/2" MIP x 1/2" FIP Ball x 72"	25
G70330	1/2" FIP x 1/2" FIP Ball x 72"	25
G70331	3/8" FIP x 1/2" FIP Ball x 72"	25
G70332	1/2" MIP x 1/2" FIP Angle Ball x 48"	25
G70333	3/8" FIP x 1/2" FIP Angle Ball x 48"	25
G70334	1/2" MIP x 1/2" FIP Angle Ball x 60"	25
G70335	3/8" FIP x 1/2" FIP Angle Ball x 60"	25
G70336	1/2" MIP x 1/2" FIP Angle Ball x 72"	25
G70337	3/8" FIP x 1/2" FIP Angle Ball x 72"	25

5/8" OD Uncoated w/Fittings

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G71000	3/4" MIP x 3/4" MIP x 12"	25
G71001	3/4" MIP x 1/2" MIP x 12"	25
G71002	1/2" MIP x 1/2" MIP x 12"	25
G71003	3/4" FIP x 3/4" FIP x 12"	25
G71004	3/4" FIP x 1/2" FIP x 12"	25
G71005	1/2" FIP x 1/2" FIP x 12"	25
G71006	1/2" FIP x 3/4" MIP x 12"	25
G71007	3/4" FIP x 3/4" MIP x 12"	25
G71008	3/4" FIP x 1/2" MIP x 12"	25
G71009	1/2" FIP x 1/2" MIP x 12"	25
G71010	3/4" MIP x 3/4" MIP x 18"	25
G71011	3/4" MIP x 1/2" MIP x 18"	25
G71012	1/2" MIP x 1/2" MIP x 18"	25
G71013	3/4" FIP x 3/4" FIP x 18"	25
G71014	3/4" FIP x 1/2" FIP x 18"	25
G71015	1/2" FIP x 1/2" FIP x 18"	25
G71016	1/2" FIP x 3/4" MIP x 18"	25
G71017	3/4" FIP x 3/4" MIP x 18"	25
G71018	3/4" FIP x 1/2" MIP x 18"	25
G71019	1/2" FIP x 1/2" MIP x 18"	25
G71020	3/4" MIP x 3/4" MIP x 24"	25
G71021	3/4" MIP x 1/2" MIP x 24"	25
G71022	1/2" MIP x 1/2" MIP x 24"	25
G71023	3/4" FIP x 3/4" FIP x 24"	25
G71024	3/4" FIP x 1/2" FIP x 24"	25
G71025	1/2" FIP x 1/2" FIP x 24"	25
G71026	1/2" FIP x 3/4" MIP x 24"	25
G71027	3/4" FIP x 3/4" MIP x 24"	25
G71028	3/4" FIP x 1/2" MIP x 24"	25
G71029	1/2" FIP x 1/2" MIP x 24"	25
G71030	3/4" MIP x 3/4" MIP x 30"	25
G71031	3/4" MIP x 1/2" MIP x 30"	25
G71032	1/2" MIP x 1/2" MIP x 30"	25
G71033	3/4" FIP x 3/4" FIP x 30"	25
G71034	3/4" FIP x 1/2" FIP x 30"	25
G71035	1/2" FIP x 1/2" FIP x 30"	25
G71036	1/2" FIP x 3/4" MIP x 30"	25
G71037	3/4" FIP x 3/4" MIP x 30"	25
G71038	3/4" FIP x 1/2" MIP x 30"	25
G71039	1/2" FIP x 1/2" MIP x 30"	25
G71040	3/4" MIP x 3/4" MIP x 36"	25
G71041	3/4" MIP x 1/2" MIP x 36"	25
G71042	1/2" MIP x 1/2" MIP x 36"	25
G71043	3/4" FIP x 3/4" FIP x 36"	25
G71044	3/4" FIP x 1/2" FIP x 36"	25
G71045	1/2" FIP x 1/2" FIP x 36"	25

5/8" OD Uncoated w/Fittings (cont.)

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G71046	1/2" FIP x 3/4" MIP x 36"	25
G71047	3/4" FIP x 3/4" MIP x 36"	25
G71048	3/4" FIP x 1/2" MIP x 36"	25
G71049	1/2" FIP x 1/2" MIP x 36"	25
G71050	3/4" MIP x 3/4" MIP x 48"	25
G71051	3/4" MIP x 1/2" MIP x 48"	25
G71052	1/2" MIP x 1/2" MIP x 48"	25
G71053	3/4" FIP x 3/4" FIP x 48"	25
G71054	3/4" FIP x 1/2" FIP x 48"	25
G71055	1/2" FIP x 1/2" FIP x 48"	25
G71056	1/2" FIP x 3/4" MIP x 48"	25
G71057	3/4" FIP x 3/4" MIP x 48"	25
G71058	3/4" FIP x 1/2" MIP x 48"	25
G71059	1/2" FIP x 1/2" MIP x 48"	25
G71060	3/4" MIP x 3/4" MIP x 60"	25
G71061	3/4" MIP x 1/2" MIP x 60"	25
G71062	1/2" MIP x 1/2" MIP x 60"	25
G71063	3/4" FIP x 3/4" FIP x 60"	25
G71064	3/4" FIP x 1/2" FIP x 60"	25
G71065	1/2" FIP x 1/2" FIP x 60"	25
G71066	1/2" FIP x 3/4" MIP x 60"	25
G71067	3/4" FIP x 3/4" MIP x 60"	25
G71068	3/4" FIP x 1/2" MIP x 60"	25
G71069	1/2" FIP x 1/2" MIP x 60"	25
G71070	3/4" MIP x 3/4" MIP x 72"	25
G71071	3/4" MIP x 1/2" MIP x 72"	25
G71072	1/2" MIP x 1/2" MIP x 72"	25
G71073	3/4" FIP x 3/4" FIP x 72"	25
G71074	3/4" FIP x 1/2" FIP x 72"	25
G71075	1/2" FIP x 1/2" FIP x 72"	25
G71076	1/2" FIP x 3/4" MIP x 72"	25
G71077	3/4" FIP x 3/4" MIP x 72"	25
G71078	3/4" FIP x 1/2" MIP x 72"	25
G71079	1/2" FIP x 1/2" MIP x 72"	25

5/8" OD Coated w/Fittings

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G71100	3/4" MIP x 3/4" MIP x 12"	25
G71101	3/4" MIP x 1/2" MIP x 12"	25
G71102	1/2" MIP x 1/2" MIP x 12"	25
G71103	3/4" FIP x 3/4" FIP x 12"	25
G71104	3/4" FIP x 1/2" FIP x 12"	25
G71105	1/2" FIP x 1/2" FIP x 12"	25
G71106	1/2" FIP x 3/4" MIP x 12"	25
G71107	3/4" FIP x 3/4" MIP x 12"	25
G71108	3/4" FIP x 1/2" MIP x 12"	25
G71109	1/2" FIP x 1/2" MIP x 12"	25
G71110	3/4" MIP x 3/4" MIP x 18"	25
G71111	3/4" MIP x 1/2" MIP x 18"	25
G71112	1/2" MIP x 1/2" MIP x 18"	25
G71113	3/4" FIP x 3/4" FIP x 18"	25
G71114	3/4" FIP x 1/2" FIP x 18"	25
G71115	1/2" FIP x 1/2" FIP x 18"	25
G71116	1/2" FIP x 3/4" MIP x 18"	25
G71117	3/4" FIP x 3/4" MIP x 18"	25
G71118	3/4" FIP x 1/2" MIP x 18"	25
G71119	1/2" FIP x 1/2" MIP x 18"	25
G71120	3/4" MIP x 3/4" MIP x 24"	25
G71121	3/4" MIP x 1/2" MIP x 24"	25
G71122	1/2" MIP x 1/2" MIP x 24"	25
G71123	3/4" FIP x 3/4" FIP x 24"	25
G71124	3/4" FIP x 1/2" FIP x 24"	25
G71125	1/2" FIP x 1/2" FIP x 24"	25
G71126	1/2" FIP x 3/4" MIP x 24"	25
G71127	3/4" FIP x 3/4" MIP x 24"	25
G71128	3/4" FIP x 1/2" MIP x 24"	25
G71129	1/2" FIP x 1/2" MIP x 24"	25
G71130	3/4" MIP x 3/4" MIP x 30"	25
G71131	3/4" MIP x 1/2" MIP x 30"	25
G71132	1/2" MIP x 1/2" MIP x 30"	25
G71133	3/4" FIP x 3/4" FIP x 30"	25
G71134	3/4" FIP x 1/2" FIP x 30"	25
G71135	1/2" FIP x 1/2" FIP x 30"	25
G71136	1/2" FIP x 3/4" MIP x 30"	25
G71137	3/4" FIP x 3/4" MIP x 30"	25
G71138	3/4" FIP x 1/2" MIP x 30"	25
G71139	1/2" FIP x 1/2" MIP x 30"	25
G71140	3/4" MIP x 3/4" MIP x 36"	25
G71141	3/4" MIP x 1/2" MIP x 36"	25
G71142	1/2" MIP x 1/2" MIP x 36"	25

5/8" OD Coated w/Fittings (cont.)



- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G71143	3/4" FIP x 3/4" FIP x 36"	25
G71144	3/4" FIP x 1/2" FIP x 36"	25
G71145	1/2" FIP x 1/2" FIP x 36"	25
G71146	1/2" FIP x 3/4" MIP x 36"	25
G71147	3/4" FIP x 3/4" MIP x 36"	25
G71148	3/4" FIP x 1/2" MIP x 36"	25
G71149	1/2" FIP x 1/2" MIP x 36"	25
G71150	3/4" MIP x 3/4" MIP x 48"	25
G71151	3/4" MIP x 1/2" MIP x 48"	25
G71152	1/2" MIP x 1/2" MIP x 48"	25
G71153	3/4" FIP x 3/4" FIP x 48"	25
G71154	3/4" FIP x 1/2" FIP x 48"	25
G71155	1/2" FIP x 1/2" FIP x 48"	25
G71156	1/2" FIP x 3/4" MIP x 48"	25
G71157	3/4" FIP x 3/4" MIP x 48"	25
G71158	3/4" FIP x 1/2" MIP x 48"	25
G71159	1/2" FIP x 1/2" MIP x 48"	25
G71160	3/4" MIP x 3/4" MIP x 60"	25
G71161	3/4" MIP x 1/2" MIP x 60"	25
G71162	1/2" MIP x 1/2" MIP x 60"	25
G71163	3/4" FIP x 3/4" FIP x 60"	25
G71164	3/4" FIP x 1/2" FIP x 60"	25
G71165	1/2" FIP x 1/2" FIP x 60"	25
G71166	1/2" FIP x 3/4" MIP x 60"	25
G71167	3/4" FIP x 3/4" MIP x 60"	25
G71168	3/4" FIP x 1/2" MIP x 60"	25
G71169	1/2" FIP x 1/2" MIP x 60"	25
G71170	3/4" MIP x 3/4" MIP x 72"	25
G71171	3/4" MIP x 1/2" MIP x 72"	25
G71172	1/2" MIP x 1/2" MIP x 72"	25
G71173	3/4" FIP x 3/4" FIP x 72"	25
G71174	3/4" FIP x 1/2" FIP x 72"	25
G71175	1/2" FIP x 1/2" FIP x 72"	25
G71176	1/2" FIP x 3/4" MIP x 72"	25
G71177	3/4" FIP x 3/4" MIP x 72"	25
G71178	3/4" FIP x 1/2" MIP x 72"	25
G71179	1/2" FIP x 1/2" MIP x 72"	25

5/8" OD Uncoated w/ Ball Valves



- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G71200	3/4" FIP x 3/4" FIP Ball x 12"	25
G71201	1/2" FIP x 3/4" FIP Ball x 12"	25
G71202	3/4" FIP x 1/2" FIP Ball x 12"	25
G71203	1/2" FIP x 1/2" FIP Ball x 12"	25
G71204	3/4" MIP x 3/4" FIP Ball x 12"	25
G71205	1/2" MIP x 3/4" FIP Ball x 12"	25
G71206	3/4" MIP x 1/2" FIP Ball x 12"	25
G71207	1/2" MIP x 1/2" FIP Ball x 12"	25
G71208	3/4" FIP x 3/4" FIP Ball x 18"	25
G71209	1/2" FIP x 3/4" FIP Ball x 18"	25
G71210	3/4" FIP x 1/2" FIP Ball x 18"	25
G71211	1/2" FIP x 1/2" FIP Ball x 18"	25
G71212	3/4" MIP x 3/4" FIP Ball x 18"	25
G71213	1/2" MIP x 3/4" FIP Ball x 18"	25
G71214	3/4" MIP x 1/2" FIP Ball x 18"	25
G71215	1/2" MIP x 1/2" FIP Ball x 18"	25
G71216	3/4" FIP x 3/4" FIP Ball x 24"	25
G71217	1/2" FIP x 3/4" FIP Ball x 24"	25
G71218	3/4" FIP x 1/2" FIP Ball x 24"	25
G71219	1/2" FIP x 1/2" FIP Ball x 24"	25
G71220	3/4" MIP x 3/4" FIP Ball x 24"	25
G71221	1/2" MIP x 3/4" FIP Ball x 24"	25
G71222	3/4" MIP x 1/2" FIP Ball x 24"	25
G71223	1/2" MIP x 1/2" FIP Ball x 24"	25
G71224	3/4" FIP x 3/4" FIP Ball x 30"	25
G71225	1/2" FIP x 3/4" FIP Ball x 30"	25
G71226	3/4" FIP x 1/2" FIP Ball x 30"	25
G71227	1/2" FIP x 1/2" FIP Ball x 30"	25
G71228	3/4" MIP x 3/4" FIP Ball x 30"	25
G71229	1/2" MIP x 3/4" FIP Ball x 30"	25
G71230	3/4" MIP x 1/2" FIP Ball x 30"	25
G71231	1/2" MIP x 1/2" FIP Ball x 30"	25
G71232	3/4" FIP x 3/4" FIP Ball x 36"	25
G71233	1/2" FIP x 3/4" FIP Ball x 36"	25
G71234	3/4" FIP x 1/2" FIP Ball x 36"	25
G71235	1/2" FIP x 1/2" FIP Ball x 36"	25
G71236	3/4" MIP x 3/4" FIP Ball x 36"	25
G71237	1/2" MIP x 3/4" FIP Ball x 36"	25
G71238	3/4" MIP x 1/2" FIP Ball x 36"	25
G71239	1/2" MIP x 1/2" FIP Ball x 36"	25
G71240	3/4" FIP x 3/4" FIP Ball x 48"	25
G71241	1/2" FIP x 3/4" FIP Ball x 48"	25
G71242	3/4" FIP x 1/2" FIP Ball x 48"	25
G71243	1/2" FIP x 1/2" FIP Ball x 48"	25

5/8" OD Uncoated w/ Ball Valves (cont.)



- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G71244	3/4" MIP x 3/4" FIP Ball x 48"	25
G71245	1/2" MIP x 3/4" FIP Ball x 48"	25
G71246	3/4" MIP x 1/2" FIP Ball x 48"	25
G71247	1/2" MIP x 1/2" FIP Ball x 48"	25
G71248	3/4" FIP x 3/4" FIP Ball x 60"	25
G71249	1/2" FIP x 3/4" FIP Ball x 60"	25
G71250	3/4" FIP x 1/2" FIP Ball x 60"	25
G71251	1/2" FIP x 1/2" FIP Ball x 60"	25
G71252	3/4" MIP x 3/4" FIP Ball x 60"	25
G71253	1/2" MIP x 3/4" FIP Ball x 60"	25
G71254	3/4" MIP x 1/2" FIP Ball x 60"	25
G71255	1/2" MIP x 1/2" FIP Ball x 60"	25
G71256	3/4" FIP x 3/4" FIP Ball x 72"	25
G71257	1/2" FIP x 3/4" FIP Ball x 72"	25
G71258	3/4" FIP x 1/2" FIP Ball x 72"	25
G71259	1/2" FIP x 1/2" FIP Ball x 72"	25
G71260	3/4" MIP x 3/4" FIP Ball x 72"	25
G71261	1/2" MIP x 3/4" FIP Ball x 72"	25
G71262	3/4" MIP x 1/2" FIP Ball x 72"	25
G71263	1/2" MIP x 1/2" FIP Ball x 72"	25
G71264	1/2" MIP x 3/4" FIP Angle Ball x 36"	25
G71265	1/2" MIP x 3/4" FIP Angle Ball x 48"	25
G71266	1/2" MIP x 3/4" FIP Angle Ball x 60"	25
G71267	1/2" MIP x 3/4" FIP Angle Ball x 72"	25

5/8" OD Coated w/ Ball Valves



- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G71300	3/4" FIP x 3/4" FIP Ball x 12"	25
G71304	3/4" MIP x 3/4" FIP Ball x 12"	25
G71305	1/2" MIP x 3/4" FIP Ball x 12"	25
G71307	1/2" MIP x 1/2" FIP Ball x 12"	25
G71308	3/4" FIP x 3/4" FIP Ball x 18"	25
G71312	3/4" MIP x 3/4" FIP Ball x 18"	25
G71313	1/2" MIP x 3/4" FIP Ball x 18"	25
G71315	1/2" MIP x 1/2" FIP Ball x 18"	25
G71316	3/4" FIP x 3/4" FIP Ball x 24"	25
G71320	3/4" MIP x 3/4" FIP Ball x 24"	25
G71321	1/2" MIP x 3/4" FIP Ball x 24"	25
G71323	1/2" MIP x 1/2" FIP Ball x 24"	25
G71324	3/4" FIP x 3/4" FIP Ball x 30"	25
G71328	3/4" MIP x 3/4" FIP Ball x 30"	25
G71329	1/2" MIP x 3/4" FIP Ball x 30"	25
G71331	1/2" MIP x 1/2" FIP Ball x 30"	25
G71332	3/4" FIP x 3/4" FIP Ball x 36"	25
G71336	3/4" MIP x 3/4" FIP Ball x 36"	25
G71337	1/2" MIP x 3/4" FIP Ball x 36"	25
G71339	1/2" MIP x 1/2" FIP Ball x 36"	25
G71340	3/4" FIP x 3/4" FIP Ball x 48"	25
G71344	3/4" MIP x 3/4" FIP Ball x 48"	25
G71345	1/2" MIP x 3/4" FIP Ball x 48"	25
G71347	1/2" MIP x 1/2" FIP Ball x 48"	25
G71348	3/4" FIP x 3/4" FIP Ball x 60"	25
G71352	3/4" MIP x 3/4" FIP Ball x 60"	25
G71353	1/2" MIP x 3/4" FIP Ball x 60"	25
G71356	3/4" FIP x 3/4" FIP Ball x 72"	25
G71360	3/4" MIP x 3/4" FIP Ball x 72"	25
G71361	1/2" MIP x 3/4" FIP Ball x 72"	25

1/2" OD Uncoated w/Fittings

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G72000	1/2" MIP x 1/2" MIP x 12"	25
G72001	1/2" MIP x 3/8" MIP x 12"	25
G72002	3/8" MIP x 3/8" MIP x 12"	25
G72003	1/2" FIP x 1/2" FIP x 12"	25
G72004	1/2" FIP x 3/8" FIP x 12"	25
G72005	1/2" FIP x 1/2" MIP x 12"	25
G72006	1/2" FIP x 3/8" MIP x 12"	25
G72007	3/8" FIP x 1/2" MIP x 12"	25
G72008	1/2" MIP x 1/2" MIP x 18"	25
G72009	1/2" MIP x 3/8" MIP x 18"	25
G72010	3/8" MIP x 3/8" MIP x 18"	25
G72011	1/2" FIP x 1/2" FIP x 18"	25
G72012	1/2" FIP x 3/8" FIP x 18"	25
G72013	1/2" FIP x 1/2" MIP x 18"	25
G72014	1/2" FIP x 3/8" MIP x 18"	25
G72015	3/8" FIP x 1/2" MIP x 18"	25
G72016	1/2" MIP x 1/2" MIP x 24"	25
G72017	1/2" MIP x 3/8" MIP x 24"	25
G72018	3/8" MIP x 3/8" MIP x 24"	25
G72019	1/2" FIP x 1/2" FIP x 24"	25
G72020	1/2" FIP x 3/8" FIP x 24"	25
G72021	1/2" FIP x 1/2" MIP x 24"	25
G72022	1/2" FIP x 3/8" MIP x 24"	25
G72023	3/8" FIP x 1/2" MIP x 24"	25
G72024	1/2" MIP x 1/2" MIP x 30"	25
G72025	1/2" MIP x 3/8" MIP x 30"	25
G72026	3/8" MIP x 3/8" MIP x 30"	25
G72027	1/2" FIP x 1/2" FIP x 30"	25
G72028	1/2" FIP x 3/8" FIP x 30"	25
G72029	1/2" FIP x 1/2" MIP x 30"	25
G72030	1/2" FIP x 3/8" MIP x 30"	25
G72031	3/8" FIP x 1/2" MIP x 30"	25
G72032	1/2" MIP x 1/2" MIP x 36"	25
G72033	1/2" MIP x 3/8" MIP x 36"	25
G72034	3/8" MIP x 3/8" MIP x 36"	25
G72035	1/2" FIP x 1/2" FIP x 36"	25
G72036	1/2" FIP x 3/8" FIP x 36"	25
G72037	1/2" FIP x 1/2" MIP x 36"	25
G72038	1/2" FIP x 3/8" MIP x 36"	25
G72039	3/8" FIP x 1/2" MIP x 36"	25
G72040	1/2" MIP x 1/2" MIP x 48"	25
G72041	1/2" MIP x 3/8" MIP x 48"	25
G72042	3/8" MIP x 3/8" MIP x 48"	25
G72043	1/2" FIP x 1/2" FIP x 48"	25
G72044	1/2" FIP x 3/8" FIP x 48"	25
G72045	1/2" FIP x 1/2" MIP x 48"	25

1/2" OD Uncoated w/Fittings (cont.)

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G72046	1/2" FIP x 3/8" MIP x 48"	25
G72047	3/8" FIP x 1/2" MIP x 48"	25
G72048	1/2" MIP x 1/2" MIP x 60"	25
G72049	1/2" MIP x 3/8" MIP x 60"	25
G72050	3/8" MIP x 3/8" MIP x 60"	25
G72051	1/2" FIP x 1/2" FIP x 60"	25
G72052	1/2" FIP x 3/8" FIP x 60"	25
G72053	1/2" FIP x 1/2" MIP x 60"	25
G72054	1/2" FIP x 3/8" MIP x 60"	25
G72055	3/8" FIP x 1/2" MIP x 60"	25
G72056	1/2" MIP x 1/2" MIP x 72"	25
G72057	1/2" MIP x 3/8" MIP x 72"	25
G72058	3/8" MIP x 3/8" MIP x 72"	25
G72059	1/2" FIP x 1/2" FIP x 72"	25
G72060	1/2" FIP x 3/8" FIP x 72"	25
G72061	1/2" FIP x 1/2" MIP x 72"	25
G72062	1/2" FIP x 3/8" MIP x 72"	25
G72063	3/8" FIP x 1/2" MIP x 72"	25
G72064	1/2" MIP x 3/8" FIP Angle x 36"	25
G72065	1/2" MIP x 3/8" FIP Angle x 48"	25
G72066	1/2" MIP x 3/8" FIP Angle x 72"	25

1/2" OD Coated w/Fittings

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G72100	1/2" MIP x 1/2" MIP x 12"	25
G72101	1/2" MIP x 3/8" MIP x 12"	25
G72102	3/8" MIP x 3/8" MIP x 12"	25
G72103	1/2" FIP x 1/2" FIP x 12"	25
G72104	1/2" FIP x 3/8" FIP x 12"	25
G72105	1/2" FIP x 1/2" MIP x 12"	25
G72106	1/2" FIP x 3/8" MIP x 12"	25
G72107	3/8" FIP x 1/2" MIP x 12"	25
G72108	1/2" MIP x 1/2" MIP x 18"	25
G72109	1/2" MIP x 3/8" MIP x 18"	25
G72110	3/8" MIP x 3/8" MIP x 18"	25
G72111	1/2" FIP x 1/2" FIP x 18"	25
G72112	1/2" FIP x 3/8" FIP x 18"	25
G72113	1/2" FIP x 1/2" MIP x 18"	25
G72114	1/2" FIP x 3/8" MIP x 18"	25
G72115	3/8" FIP x 1/2" MIP x 18"	25
G72116	1/2" MIP x 1/2" MIP x 24"	25
G72117	1/2" MIP x 3/8" MIP x 24"	25
G72118	3/8" MIP x 3/8" MIP x 24"	25
G72119	1/2" FIP x 1/2" FIP x 24"	25
G72120	1/2" FIP x 3/8" FIP x 24"	25
G72121	1/2" FIP x 1/2" MIP x 24"	25
G72122	1/2" FIP x 3/8" MIP x 24"	25
G72123	3/8" FIP x 1/2" MIP x 24"	25
G72124	1/2" MIP x 1/2" MIP x 30"	25
G72125	1/2" MIP x 3/8" MIP x 30"	25
G72126	3/8" MIP x 3/8" MIP x 30"	25
G72127	1/2" FIP x 1/2" FIP x 30"	25
G72128	1/2" FIP x 3/8" FIP x 30"	25
G72129	1/2" FIP x 1/2" MIP x 30"	25
G72130	1/2" FIP x 3/8" MIP x 30"	25
G72131	3/8" FIP x 1/2" MIP x 30"	25
G72132	1/2" MIP x 1/2" MIP x 36"	25
G72133	1/2" MIP x 3/8" MIP x 36"	25
G72134	3/8" MIP x 3/8" MIP x 36"	25
G72135	1/2" FIP x 1/2" FIP x 36"	25
G72136	1/2" FIP x 3/8" FIP x 36"	25
G72137	1/2" FIP x 1/2" MIP x 36"	25
G72138	1/2" FIP x 3/8" MIP x 36"	25
G72139	3/8" FIP x 1/2" MIP x 36"	25
G72140	1/2" MIP x 1/2" MIP x 48"	25
G72141	1/2" MIP x 3/8" MIP x 48"	25
G72142	3/8" MIP x 3/8" MIP x 48"	25
G72143	1/2" FIP x 1/2" FIP x 48"	25
G72144	1/2" FIP x 3/8" FIP x 48"	25
G72145	1/2" FIP x 1/2" MIP x 48"	25

1/2" OD Coated w/Fittings (cont.)

- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G72146	1/2" FIP x 3/8" MIP x 48"	25
G72147	3/8" FIP x 1/2" MIP x 48"	25
G72148	1/2" MIP x 1/2" MIP x 60"	25
G72149	1/2" MIP x 3/8" MIP x 60"	25
G72150	3/8" MIP x 3/8" MIP x 60"	25
G72151	1/2" FIP x 1/2" FIP x 60"	25
G72152	1/2" FIP x 3/8" FIP x 60"	25
G72153	1/2" FIP x 1/2" MIP x 60"	25
G72154	1/2" FIP x 3/8" MIP x 60"	25
G72155	3/8" FIP x 1/2" MIP x 60"	25

1/2" OD Uncoated with Ball Valves



- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.

PART NO.	DESCRIPTION	CTN QTY
G72200	1/2" MIP x 1/2" FIP Ball x 12"	25
G72201	3/8" MIP x 1/2" FIP Ball x 12"	25
G72202	1/2" FIP x 1/2" FIP Ball x 12"	25
G72203	3/8" FIP x 1/2" FIP Ball x 12"	25
G72204	1/2" MIP x 1/2" FIP Ball x 18"	25
G72205	3/8" MIP x 1/2" FIP Ball x 18"	25
G72206	1/2" FIP x 1/2" FIP Ball x 18"	25
G72207	3/8" FIP x 1/2" FIP Ball x 18"	25
G72208	1/2" MIP x 1/2" FIP Ball x 24"	25
G72209	3/8" MIP x 1/2" FIP Ball x 24"	25
G72210	1/2" FIP x 1/2" FIP Ball x 24"	25
G72211	3/8" FIP x 1/2" FIP Ball x 24"	25
G72212	1/2" MIP x 1/2" FIP Ball x 30"	25
G72213	3/8" MIP x 1/2" FIP Ball x 30"	25
G72214	1/2" FIP x 1/2" FIP Ball x 30"	25
G72215	3/8" FIP x 1/2" FIP Ball x 30"	25
G72216	1/2" MIP x 1/2" FIP Ball x 36"	25
G72217	3/8" MIP x 1/2" FIP Ball x 36"	25
G72218	1/2" FIP x 1/2" FIP Ball x 36"	25
G72219	3/8" FIP x 1/2" FIP Ball x 36"	25
G72220	1/2" MIP x 1/2" FIP Ball x 48"	25
G72221	3/8" MIP x 1/2" FIP Ball x 48"	25
G72222	1/2" FIP x 1/2" FIP Ball x 48"	25
G72223	3/8" FIP x 1/2" FIP Ball x 48"	25
G72224	1/2" MIP x 1/2" FIP Ball x 60"	25
G72225	3/8" MIP x 1/2" FIP Ball x 60"	25
G72226	1/2" FIP x 1/2" FIP Ball x 60"	25
G72227	3/8" FIP x 1/2" FIP Ball x 60"	25
G72228	1/2" MIP x 1/2" FIP Ball x 72"	25
G72229	3/8" MIP x 1/2" FIP Ball x 72"	25
G72230	1/2" FIP x 1/2" FIP Ball x 72"	25
G72231	3/8" FIP x 1/2" FIP Ball x 72"	25

1/2" OD Coated w/Ball Valves



- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located

PART NO.	DESCRIPTION	CTN QTY
G72300	1/2" MIP x 1/2" FIP Ball x 12"	25
G72302	1/2" FIP x 1/2" FIP Ball x 12"	25
G72304	1/2" MIP x 1/2" FIP Ball x 18"	25
G72306	1/2" FIP x 1/2" FIP Ball x 18"	25
G72308	1/2" MIP x 1/2" FIP Ball x 24"	25
G72310	1/2" FIP x 1/2" FIP Ball x 24"	25
G72312	1/2" MIP x 1/2" FIP Ball x 30"	25
G72314	1/2" FIP x 1/2" FIP Ball x 30"	25
G72316	1/2" MIP x 1/2" FIP Ball x 36"	25
G72318	1/2" FIP x 1/2" FIP Ball x 36"	25
G72320	1/2" MIP x 1/2" FIP Ball x 48"	25
G72322	1/2" FIP x 1/2" FIP Ball x 48"	25
G72324	1/2" MIP x 1/2" FIP Ball x 60"	25
G72326	1/2" FIP x 1/2" FIP Ball x 60"	25
G72328	1/2" MIP x 1/2" FIP Ball x 72"	25
G72330	1/2" FIP x 1/2" FIP Ball x 72"	25
G72332	1/2" MIP x 1/2" FIP Angle Ball x 24"	25
G72333	1/2" MIP x 1/2" FIP Angle Ball x 36"	25
G72334	1/2" MIP x 1/2" FIP Angle Ball x 48"	25
G72335	1/2" MIP x 1/2" FIP Angle Ball x 72"	25

1/2" OD Black Coated

- For use with gas logs
- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located.

PART NO.	DESCRIPTION	CTN QTY
G74103	1/2" FIP x 1/2" FIP x 12"	25
G74105	1/2" FIP x 1/2" MIP x 12"	25
G74111	1/2" FIP x 1/2" FIP x 18"	25
G74113	1/2" FIP x 1/2" MIP x 18"	25
G74119	1/2" FIP x 1/2" FIP x 24"	25
G74121	1/2" FIP x 1/2" MIP x 24"	25
G74127	1/2" FIP x 1/2" FIP x 30"	25
G74129	1/2" FIP x 1/2" MIP x 30"	25
G74135	1/2" FIP x 1/2" FIP x 36"	25
G74137	1/2" FIP x 1/2" MIP x 36"	25

3/8" OD Black Coated

- For use with gas logs
- Corrugation extends all the way to the fitting for increased tubing flexibility
- CSA Design certified domestically and internationally for indoor and outdoor use
- 100% leak tested to ensure Safety and Quality and a product you can trust
- Quality flared end fittings to create a metal to metal seal in critical applications
- Durable stainless steel 304. Corrosion resistant.
- Coated connectors add additional safety in highly corrosive environments or in areas where caustic chemicals are located.

PART NO.	DESCRIPTION	CTN QTY
G73101	1/2" FIP x 1/2" FIP x 12"	25
G73108	1/2" FIP x 1/2" FIP x 18"	25
G73115	1/2" FIP x 1/2" FIP x 24"	25
G73122	1/2" FIP x 1/2" FIP x 30"	25
G73129	1/2" FIP x 1/2" FIP x 36"	25

Nominal Connector Series (I.D. Inches)	Straight Length Capacity - Ptu Per Hr (W) 0.64 Sp Gr.1000 Btu Per Cu Ft (37.2 MJ Per Cu Meter) Gas at @ 0.5 inch Water Column (124 Pa) Pressure Drop		
	12"	24"	36"
1/4	48000	40000	33400
3/8	102000	85000	71000
1/2	180000	150000	125000
NOTE: When using 0.2 inch water column pressure drop, capacity can be determined by multiplying the figures above by 0.632.			

Corrugated Water Heater Connector

- Corrugated for easy flex on water heaters and softeners
- Includes rubber washers

Copper



PART NO.	FPT x LENGTH	CTN QTY
J34712	3/4" x 12"	25
J34715	3/4" x 15"	25
J34718	3/4" x 18"	25
J34724	3/4" x 24"	25



PART NO.	FIP x SWT x LENGTH	CTN QTY
J35712	3/4" x 3/4" x 12"	25
J35715	3/4" x 3/4" x 15"	25
J35718	3/4" x 3/4" x 18"	25
J35724	3/4" x 3/4" x 24"	25



PART NO.	FIP x MIP x LENGTH	CTN QTY
J36712	3/4" x 3/4" x 12"	1
J36715	3/4" x 3/4" x 15"	1
J36718	3/4" x 3/4" x 18"	1
J36724	3/4" x 3/4" x 24"	1

Stainless Steel



PART NO.	MIP x FIP x LENGTH	CTN QTY
J38712	3/4" x 3/4" x 12"	50
J38715	3/4" x 3/4" x 15"	50
J38718	3/4" x 3/4" x 18"	50
J38724	3/4" x 3/4" x 24"	50



PART NO.	FIP x FIP x LENGTH	CTN QTY
J39712	3/4" x 3/4" x 12"	50
J39715	3/4" x 3/4" x 15"	50
J39718	3/4" x 3/4" x 18"	50
J39724	3/4" x 3/4" x 24"	50

Braided SS Water Heater Connector

- UPC listed
- S04350, S04351, S04352 - now LEAD FREE



PART NO.	FIP x LENGTH	CTN QTY
S04350	3/4" x 12"	25
S04351	3/4" x 18"	25
S04352	3/4" x 24"	25



PART NO.	FIP x COMP x LENGTH	CTN QTY
S04353	3/4" x 3/4" x 12"	25
S04354	3/4" x 3/4" x 18"	25
S04355	3/4" x 3/4" x 24"	25



PART NO.	FIP x MIP x LENGTH	CTN QTY
S04356	3/4" x 3/4" x 12"	25
S04357	3/4" x 3/4" x 18"	25
S04358	3/4" x 3/4" x 24"	25



PART NO.	MIP x COMP x LENGTH	CTN QTY
S04359	3/4" x 3/4" x 12"	25
S04360	3/4" x 3/4" x 18"	25
S04361	3/4" x 3/4" x 24"	25

Flexible SS Plumbing Connectors



- Reliable, trouble-free service- Inner core of non-toxic polymer withstands temperatures of 33°F (1°C) to 174°F (99°C)
- Leak proof seal- High quality outer braid of stainless steel and exclusive crimp-on fittings for maximum performance
- Quick and easy installation- No special tools; no soldering
- No pipe bending- Flexible connectors simplify installation- even in cramped spaces
- LEAD FREE

Washing Machine

PART NO.	FEM HOSE x FEM HOSE	LENGTH	CTN QTY
S04227	3/4" x 3/4"	48	5
S04228	3/4" x 3/4"	60	5
S04229	3/4" x 3/4"	72	5

Icemaker

PART NO.	OD x OD	LENGTH	CTN QTY
S04230	1/4" x 1/4"	12	5
S04231	1/4" x 1/4"	60	5
S04232	1/4" x 1/4"	84	5

Flexible SS Plumbing Connectors



- Reliable, trouble-free service- Inner core of non-toxic polymer withstands temperatures of 33°F (1°C) to 174°F (81°C); burst pressure 1,000 PSI
- Leak proof seal- High quality outer braid of stainless steel and exclusive crimp-on fittings for maximum performance
- Quick and easy installation- No special tools; no soldering
- No pipe bending- Flexible connectors simplify installation- even in cramped spaces
- Chrome plated nut
- These products are NSF approved
- LEAD FREE

Dishwasher Connectors

90° Elbow

PART NO.	OD x MIP	LENGTH	CTN QTY
S04233	3/8" x 3/8"	48	25
S04234	3/8" x 3/8"	60	25
S04235	3/8" x 3/8"	72	25
S04236	1/2" x 3/8"	48	25
S04237	1/2" x 3/8"	60	25
S04238*	1/2" x 3/8"	72	25

*elbow not included

Dishwasher Connectors

PART NO.	OD x OD	LENGTH	CTN QTY
S04260	3/8" x 3/8"	48	25
S04268	3/8" x 3/8"	12	25
S04269	3/8" x 3/8"	16	25
S04270	3/8" x 3/8"	20	25

PlumBite Push On Water Heater Connector



- Leak-Free, Tool-Free & Solvent Free
- Approved for behind-the-wall installation
- Fittings may be reused if necessary
- Internal PEX Tube insert provided for Perfect PEX connections
- For use with hot and cold potable water : Operating temp. 0°F to 200°F, 200 PSI

PART NO.	SIZE	CTN. QTY.
C76605	1/2" Push Fitting x 3/4" FIP x 12"	1
C76606	1/2" Push Fitting x 3/4" FIP x 15"	1
C76607	1/2" Push Fitting x 3/4" FIP x 18"	1
C76608	1/2" Push Fitting x 3/4" FIP x 24"	1
C76612	3/4" Push Fitting x 3/4" FIP x 12"	1
C76613	3/4" Push Fitting x 3/4" FIP x 15"	1
C76614	3/4" Push Fitting x 3/4" FIP x 18"	1
C76615	3/4" Push Fitting x 3/4" FIP x 24"	1

Water Hammer Arresters

- Maximum working temp: 250°F
- Maximum working pressure: 300psi
- Burst pressure: 2900psi
- Polly Bagged



FIXTURE	TYPE OF SUPPLY CONTROL	PUBLIC			PRIVATE		
		TOTAL	C.W.	H.W.	TOTAL	C.W.	H.W.
Water Closet	Flush Valve	10	10	--	6	6	--
Water Closet	Flush Tank	5	5	--	3	3	--
Pedestal Urinal	Flush Valve	10	10	--	--	--	--
Stall or Wall Unit	Flush Valve	5	5	--	--	--	--
Stall or Wall Unit	Flush Tank	3	3	--	--	--	1
Lavatory	Faucet	2	1-1/2	1-1/2	1	1	1-1/2
Bathtub	Faucet	4	2	3	2	1-1/2	1-1/2
Shower Head	Mixing Valve	4	2	3	2	1	2
Bathroom Group	Flush Valve Closet	--	--	--	8	8	3
Bathroom Group	Flush Tank Closet	--	--	--	6	6	3
Separate Shower	Mixing Valve	--	--	--	2	1	2
Service Sink	Faucet	3	3	3	--	--	--
Laundry Tubs (3)	Faucet	--	--	--	3	3	3
Combination Fixture	Faucet	--	--	--	3	3	3

Now apply the total fixture units to Table B to obtain your PDI size value.

PDI SIZE ARRESTER:	AA	A	B	C	D	E	F
FIXTURE UNITS:	1-5	1-11	12-32	33-60	61-113	114-154	155-330
THREAD SIZE:	1/2	1/2	3/4	3/4	1	1	1
CATALOG NUMBER:	ALL A95 SERIES						

MIP AA



PART NO.	SIZE	CTN. QTY.
A95001	1/2"	25

MSWT AA



PART NO.	SIZE	CTN. QTY.
A95002	1/2"	25

MSWT AA



PART NO.	SIZE	CTN. QTY.
A95003	3/4"	25

CPVC AA



PART NO.	SIZE	CTN. QTY.
A95004	1/2"	25

OD COMP AA



PART NO.	SIZE	CTN. QTY.
A95005	5/8"	25

PEX TEE AA



PART NO.	SIZE	CTN. QTY.
A95006	3/8"	25
A95007	1/2"	25

OD TEE AA



PART NO.	SIZE	CTN. QTY.
A95008	1/4"	25
A95009	3/8"	25
A95010	5/8"	25

Female Comp. x OD Comp.



PART NO.	SIZE	CTN. QTY.
A95014	3/8" x 3/8"	25

MHT x FHS AA



PART NO.	SIZE	CTN. QTY.
A95011	3/4"	25

Full Size

- CARTON QUANTITY ONLY
- 1/2" band

Part Stainless



PART NO.	TRADE SIZE	SIZE	CTN.QTY.
G10006	6	3/8" - 7/8"	10/200
G10008	8	7/16" - 1"	10/200
G10010	10	1/2" - 1 1/16"	10/500
G10012	12	1/2" - 1 1/4"	10/500
G10016	16	3/4" - 1 1/2"	10/500
G10020	20	3/4" - 1 3/4"	10/500
G10024	24	1" - 2"	10/500
G10032	32	1 1/2" - 2 1/2"	10/500
G10036	36	7/8" - 2 3/4"	10/500
G10040	40	1 1/8" - 3"	10/200
G10052	52	1 7/8" - 3 3/4"	10/100
G10072	72	3 1/8" - 5"	10/100
G10080	80	3 5/8" - 5 1/2"	10/100
G10104	104	5" - 7"	10/100

All Stainless



PART NO.	TRADE SIZE	SIZE	CTN.QTY.
G11006	6	3/8" - 7/8"	10/200
G11008	8	7/16" - 1"	10/200
G11010	10	1/2" - 1 1/16"	10/500
G11012	12	1/2" - 1 1/4"	10/500
G11016	16	11/16" - 1 1/2"	10/500
G11020	20	3/4" - 1 3/4"	10/500
G11024	24	1" - 2"	10/500
G11028	28	1 5/16" - 2 1/4"	10/500
G11032	32	1 9/16" - 2 1/2"	10/500
G11036	36	7/8" - 2 3/4"	10/500
G11040	40	1 1/8" - 3"	10/200
G11044	44	2 1/4" - 3 1/4"	10/200
G11048	48	1 5/8" - 3 1/2"	10/200
G11052	52	1 7/8" - 3 3/4"	10/200
G11056	56	2 1/8" - 4"	10/100
G11064	64	2 1/2" - 4 1/2"	10/100
G11072	72	3" - 5"	10/100
G11080	80	3 1/2" - 5 1/2"	10/100
G11088	88	4" - 6"	10/100
G11096	96	4 3/4" - 6 1/2"	10/100
G11104	104	5" - 7"	10/100

Replacement Clamp For Flexible Couplings

- CARTON QUANTITY ONLY



PART NO.	DESCRIPTION	CTN. QTY.
G15002	2" Replacement clamp	10
G15003	3" Replacement clamp	10
G15004	4" Replacement clamp	10
G15006	6" Replacement clamp	50
G15008	8" Replacement clamp	50

Micro Size

- CARTON QUANTITY ONLY
- 5/16" band

Part Stainless



PART NO.	TRADE SIZE	SIZE	CTN.QTY.
G08004	4	1/4" - 5/8"	10/1000
G08006	6	5/16" - 7/8"	10/1000
G08008	8	3/8" - 1"	10/500
G08012	12	1/2" - 1 1/4"	10/500
G08016	16	1/2" - 1 1/2"	10/500
G08020	20	3/4" - 1 3/4"	10/500
G08024	24	1" - 2"	10/500

All Stainless



PART NO.	TRADE SIZE	SIZE	CTN.QTY.
G09004	4	1/4" - 5/8"	10/1000
G09006	6	5/16" - 7/8"	10/1000
G09008	8	1/2" - 1"	10/500
G09012	12	1/2" - 1 1/4"	10/500
G09016	16	1/2" - 1 1/2"	10/500
G09020	20	3/4" - 1 3/4"	10/500
G09024	24	1" - 2"	10/500

"68" Series Stainless Gear Clamps

- 9/16" band
- All stainless, 300 grade construction
- Ideal for well drilling and applications requiring marine grade stainless clamps
- CARTON QUANTITY ONLY



PART NO.	TRADE SIZE	SIZE	CTN.QTY.
G14006	6	3/8" - 7/8"	10/200
G14008	8	7/16" - 1"	10/200
G14010	10	1/2" - 1 1/16"	10/500
G14012	12	1/2" - 1 1/4"	10/500
G14016	16	11/16" - 1 1/2"	10/500
G14020	20	3/4" - 1 3/4"	10/500
G14024	24	1" - 2"	10/500
G14028	28	1 1/4" - 2 1/4"	10/500
G14032	32	1 1/2" - 2 1/2"	10/500
G14036	36	1 3/4" - 2 3/4"	10/200
G14040	40	1 1/8" - 3"	10/200
G14044	44	2 1/4" - 3 1/4"	10/200
G14048	48	1 5/8" - 3 1/2"	10/200
G14052	52	1 7/8" - 3 3/4"	10/100
G14056	56	2 1/8" - 4"	10/100
G14064	64	2 1/2" - 4 1/2"	10/100
G14072	72	3" - 5"	10/100
G14080	80	3 1/2" - 5 1/2"	10/100
G14088	88	4" - 6"	10/100
G14096	96	4 1/2" - 6 1/2"	10/100
G14104	104	5" - 7"	10/100

Dryer Vent Hood



- PVC hood
- Weather proof 12" aluminum extension
- Pre-punched mounting holes
- CARTON QUANTITIES ONLY

PART NO.	SIZE	CTN QTY
D04012	4"	6

Aluminum Vent Hood



- For clothes dryers or exhaust fans
- Complete with damper and flange plate

PART NO.	SIZE	CTN QTY
D04023	3"	1
D04024	4"	1

Louvered Dryer Vent Hood



- Includes hood, aluminum pipe and collar

PART NO.	DESCRIPTION	CTN QTY
D04025	4" white hood assembly	6
D04026	4" brown hood assembly	6

White Back Collar for Dryer Vent Kits



PART NO.	DESCRIPTION	CTN QTY
D04064	White back collar	6

Complete Dryer Vent Kit



- Kit includes hose (5' or 8'), vent and 2 plastic clamps
- Hood is waterproof plastic
- 5 3/4" square back plate
- 12" aluminum extension, pre-punched mounting holes

PART NO.	DESCRIPTION	CTN QTY
D04005	4" x 5'	12
D04008	4" x 8'	12
D04009	4" x 8' flex aluminum duct with louvered hood and two metal clamps	6

Clamp for Dryer Vent Kit



PART NO.	DESCRIPTION	CTN QTY
D04010	4" clamp only	10

Metal Clamp for Dryer Vent



- Heavy duty all metal design
- Excellent for use with metal ducting

PART NO.	SIZE	CTN QTY
D04015	3"	1
D04016	4"	1
D04017	5"	1
D04018	6"	1

Aluminum Elbow and Pipe



- All aluminum

PART NO.	DESCRIPTION	CTN QTY
D04013	3" x 90° swivel elbow	50
D04014	3" x 24" aluminum pipe	40
D04027	4" x 90° swivel elbow	50
D04028	4" x 24" aluminum pipe	40

Flexible Duct Connector Kit



- Connects flexible ducting
- Extends exhaust collar of clothes dryer

PART NO.	SIZE	CTN QTY
D04019	4"	1

Increaser/Decreaser



- Connects 3" to 4" ducting or 4" ducting to 3" exhaust collar

PART NO.	DESCRIPTION	CTN QTY
D04021	3"-4" plastic increaser/decreaser	1
D04022	4"-3" aluminum reducer	1
D04055	3"-4" aluminum increaser	1

Flexible Aluminum Ducting



- Ideal for exhausting clothes dryers
- Bendable to any configuration
- No fire or UL ratings

PART NO.	SIZE	CTN QTY
D04031	3" x 8'	10
D04032	4" x 8'	10
D04033	5" x 8	6
D04034	6" x 8'	4
D04053	3" x 25'	20
D04054	4" x 25'	4

Proflex Aluminum Foil Ducting



- Flexible, fire resistant
- Will not support combustion
- Wire reinforced
- UL listed

PART NO.	SIZE	CTN QTY
D04058	4" x 5'	12
D04059	4" x 8'	12
D04060	4" x 50'	1

Flexible Aluminum Foil Ducting



- Ideal for exhausting clothes dryers and bathroom fans
- Will not support combustion
- No fire or UL ratings

PART NO.	SIZE	CTN QTY
D04056	4" x 25'	1
D04057	4" x 8'	1

Dryer Vent Hose



- Wire-reinforced vinyl

PART NO.	DESCRIPTION	CTN QTY
D04020	4" x 20' (boxed)	10
D04051	4" x 5' (bagged)	16

Dryer Vent Kit w/Louvered Hood



- Includes vinyl hose, aluminum pipe, collar, clamps and louvered hood

PART NO.	DESCRIPTION	CTN QTY
D04001	4" x 5' with white hood	12
D04002	4" x 5' with brown hood	12
D04003	4" x 8' with white hood	12
D04004	4" x 8' with brown hood	12

Bathroom Fan Vent Kit



- Contains the following part for 3" and 4" wall type exhaust fans: 4" x 5' flexible vinyl ducting, clamps, 4" louvered vent, 3"-4" foam increaser

PART NO.	DESCRIPTION	CTN QTY
D04035	Bathroom fan vent kit	1
D04050	4" x 50' (boxed)-vinyl hose only	1
D04062	3" x 50' (boxed)-vinyl hose only	1

Indoor Dryer Vent Kit



- Use on electric clothes dryers when outside venting is not possible
- Recirculates warm, moist air
- Specially designed lint reservoir

PART NO.	DESCRIPTION	CTN QTY
D04036	Indoor dryer vent kit	1

Universal Copper Thermocouple



- All copper with brass fittings
- Adaptable to 5 different pilot valves
- Kit includes 2 clips and nuts
- Individually carded

PART NO.	LENGTH	CTN QTY
J36118	18"	10
J36124	24"	10
J36130	30"	10
J36136	36"	10
J36148	48"	10

Water Heater Stand



- Galvanized
- Snap-in legs
- Easy to assemble
- Rating approval at 2,000 lbs. static weight

PART NO.	DESCRIPTION	CTN QTY
J36200	18" square x 17" high water heater stand	1

Water Heater Stand



- No assembly required
- 3/4 tubular steel construction
- Non-rust paint
- 800 lbs. static weight

PART NO.	DESCRIPTION	CTN QTY
J36300	25 1/2" x 17" high water heater stand	1
J36250	28" x 17" high water heater stand	1

Stand-rite Water Heater Stand



- Lab tested
- Meets UPC requirements
- Heavy duty
- Corrosion resistant
- 14 gauge galvanized steel
- Top 21.5" x 21.5"
- Rated up to 900 pounds
- For water heaters up to 65 gallons
- Includes mounting clips for securing to wall/floor
- Quick assembly

PART NO.	DESCRIPTION	CTN QTY
J36400	Water heater stand	1

Water Heater Safety Pan



- Supplied with 1" hookup adapter for any drain type (J34-800)
- 2 1/2" depth
- High impact plastic
- Southern Building Code and natural gas approved
- CARTON QUANTITIES ONLY

PART NO.	BOTTOM ID	TOP ID	CTN QTY
J36018	19"	20 1/2"	20
J36022	22"	22 1/2"	20
J36024	24"	25 1/2"	20
J36026	26"	27 1/2"	10
J36030	30"	31 1/2"	5

Galvanized Hot Water Heater Pans



- 24 gauge
- Flared sides
- 1" fitting (J34-800)

PART NO.	DESCRIPTION	CTN QTY
J37022	22" x 22" x 4"	1
J37024	24" x 24" x 4"	1
J37026	26" x 26" x 4"	1
J37028	28" x 28" x 4"	1
J37030	30" x 30" x 4"	1

Water Heater Pan

CORNERS
FOLDED FOR
STRENGTH



Seamless Galvanized Corner



- Seamless galvanized water heater pans are holded not welded
- 1" drain connector included (J34-800)
- One piece stamped aluminum .032 mil (20 gauge)
- Aluminum pans comply with SBCCI, sec. 1213.7

Round Aluminum

PART NO.	DESCRIPTION	CTN QTY
J38020	20" round water heater pan	1
J38022	22" round water heater pan	1
J38024	24" round water heater pan	1
J38026	26" round water heater pan	1
J38030	30" round water heater pan	1

Seamless Galvanized

PART NO.	DESCRIPTION	CTN QTY
J39019	19" seamless water heater pan	1
J39023	23" seamless water heater pan	1
J39027	27" seamless water heater pan	1
J39030	30" seamless water heater pan	1

Water Heater Pan Adapter



- 1" PVC
- Washer and locknut
- Fits all Jones Stephens pans

PART NO.	DESCRIPTION	CTN QTY
J34800	1" Adapter	1

Thermal Expansion Tanks



- Designed for the protection of potable hot water systems
- Install between the backflow preventer and the water heater
- Specifications:

Factory pre-charge: 40psi
System Connection: 304 Stainless Steel
Diaphragm: Butyl Rubber
Liner Material: Food Grade Polypropylene
Max. Operating Temp.: 200°F
Max. Operating Pressure: 150psi

PART NO.	DESCRIPTION	CTN. QTY.	PALLET QTY.
R15202	2 gallon tank	1	150
R15204	4-1/2 gallon tank	1	80

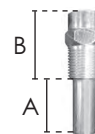
Run-Off Tube



- UL listed
- For water heaters
- Electroplated fittings
- 230°F temperature rating
- Hand tighten to T and P valve

PART NO.	DESCRIPTION	CTN QTY
J34975	3/4" NPT x 60" side mount	125
J34980	3/4" NPT top mount	25
J34970	3/4" NPT x 60" side mount	15

Hot Water/Refrigerant Line Thermometer



- Straight or angle pattern
- Steel or brass well
- 40°-280°F x 5°F (5-120°C x 2°C)
- 1/2" NPT; 1" stem

PART NO.	DESCRIPTION	DIM (A)	DIM (B)	CTN QTY
J40500	Straight pattern steel well	1"	1/2" NPT	1
J40501	Straight pattern brass well	1"	1/2" NPT	1
J40502	Angle pattern steel well	1"	1/2" NPT	1
J40503	Angle pattern brass well	1"	1/2" NPT	1

Standard F.H.A. with 6 Offset Holes

PART NO.	SIZE	GAUGE	CTN QTY
F160126	1 1/2" x 12"	16	50
F16016	1 1/2" x 16"	16	50
F160186	1 1/2" x 18"	16	50
F160246	1 1/2" x 24"	16	50
F163186	3" x 18"	16	50
F163246	3" x 24"	16	50
F165186	5" x 18"	16	15

Screw-On Wire Connectors



- Clamshell Packaging
- Ready to Hang!

PART NO.	DESCRIPTION	CTN QTY
E25125	Gray	100
E25126	Blue	100
E25127	Orange	100
E25128	Yellow	100
E25129	Red	50

Dual Port Self Cleaning Thermal Expansion Tank



- Designed for the protection of potable hot water systems
- Install between the backflow preventer and the water heater
- Specifications:

Factory pre-charge: 15psi
System Connection: 304 Stainless Steel
Diaphragm: Butyl Rubber
Liner Material: Food Grade Polypropylene
Max. Operating Temp.: 200°F
Max. Operating Pressure: 150psi

PART NO.	DESCRIPTION	CTN. QTY.	PALLET QTY.
R15206	2 gallon tank	1	150

Roofite® Hi-Heat Silicone Flashing



- Silicone range is designed for high temperature applications up to 390°F
- Ideal for corrugated metal roofs
- Can be used on flat roofs
- Pipe diameter markings
- For plumbing, heating, air conditioning, electrical or exhaust vents
- Pleated cone adjusts to any pitch up to 45° F
- Ozone and UV resistant

PART NO.	SIZE	CTN QTY
R16100	0"-2 3/4"	1
R16101	2"-6 1/8"	1
R16107	6"-10 1/32"	1
R16108	9 1/2"-14 3/4"	1

Roofite® Roof Flashing



- Ideal for corrugated metal roofs
- Can be used on flat roofs
- Pipe diameter markings
- For plumbing, heating, air conditioning, electrical or exhaust vents
- Made of EPDM with flexible aluminum base
- Pleated cone adjusts to any pitch
- -30°F to +250°F
- Ozone and UV resistant

PART NO.	SIZE	CTN QTY
R15109	0"-1 1/4"	1
R15100	0"-2 3/4" pipe	1
R15101	2"-6 1/8" pipe	1
R15107	6"-10 1/32" pipe	1
R15108	9 1/2"-14 3/4" pipe	1

Galvanized Roof Flashing



- Double seal neoprene collar
- UPC, BOCA and SBCCI approved

PART NO.	SIZE	FLANGE	CTN QTY
R40150	1 1/4" and 1 1/2"	8 3/4" x 12 1/2"	20
R40200	2"	8 3/4" x 12 1/2"	20
R40300	3"	10 3/4" x 14 1/2"	20
R40400	4"	12" x 16"	20

Aluminum Roof Flashing



- Double seal neoprene collar

PART NO.	SIZE	FLANGE	CTN QTY
R45150	1 1/4" and 1 1/2"	8 3/4" x 12 1/2"	12
R45200	2"	8 3/4" x 12 1/2"	20
R45300	3"	10 3/4" x 14 1/2"	20
R45400	4"	12" x 16"	20

All Neoprene Roof Flashing



- Double seal neoprene collar

PART NO.	SIZE	FLANGE	CTN QTY
R50150	1 1/4" and 1 1/2"	9" x 11 3/8"	20
R50200	2"	9" x 11 3/8"	20
R50300	3"	10" x 13 1/4"	20
R50400	4"	12" x 14 3/4"	20

Neo-poly Roof Flashing



- Poly vinyl base
- Neoprene collar

PART NO.	SIZE	FLANGE	CTN QTY
R57150	1 1/4" and 1 1/2"	9 1/4" x 13"	20
R57200	2"	9 1/4" x 13"	20
R57300	3"	11 1/8" x 15"	20
R57400	4"	12" x 15 1/2"	20

Lead Roof Flashing



- Southeastern Code
- 2 1/2 pounds
- Multi-pitch from flat to 7/12"
- CARTON QUANTITIES ONLY

PART NO.	SIZE	FLANGE	CTN QTY
R70150	1 1/2"	8 1/2" x 10 1/2"	12
R70200	2"	8 1/2" x 10 1/2"	12
R70300	3"	10 1/2" x 11 1/2"	6
R70400	4"	10 1/2" x 11 1/4"	6

Domestic Pipe Wrap Tape

• CARTON QUANTITIES ONLY

Yellow

PART NO.	SIZE	THICKNESS	CTN QTY
T16002	2" x 100'	12 mil.	24
T16004	4" x 100'	12 mil.	12

Black

PART NO.	SIZE	THICKNESS	CTN QTY
T17002	2" x 100'	12 mil.	24
T17004	4" x 100'	12 mil.	12

Imported Pipe Wrap Tape

- UPC listed black tape with PVC backing
- CARTON QUANTITIES ONLY

PART NO.	SIZE	THICKNESS	CTN QTY
T17101	1" x 100'	10 mil.	48
T17102	2" x 100'	10 mil.	24
T17104	4" x 100'	10 mil.	18
T18201	1" x 100'	20 mil.	48
T18202	2" x 100'	20 mil.	24

Primer for Pipe Wrap Tape

- Maximizes tape performance
- Final step in preparing steel surfaces for taping
- Can more than double adhesion of corrosion tapes to cleaned steel
- CARTON QUANTITIES ONLY
- MOTOR FREIGHT ONLY / FLAMMABLE

PART NO.	SIZE	CTN QTY
T16100	Quart	12

Duct Tape

- Premium grade, waterproof non-elastic reinforced cloth
- Pressure sensitive; vapor and flame resistant
- CARTON QUANTITIES ONLY

PART NO.	SIZE	THICKNESS	CTN QTY
T20020	2" x 60 yds (gray)	8.5 mil.	24
T20023	2" x 60 yds (black)	10 mil.	24

Electrical Tape

- UL listed
- Individually wrapped
- Black vinyl
- CARTON QUANTITIES ONLY

PART NO.	SIZE	CTN QTY
T20030	3/4" x 60'	10

Self-Fusing Tape

TOMMY TAPE®



- Silicone all purpose repair tape
- Water-tight seal for automotive, electrical, marine, plumbing and general-purpose applications
- Carded

PART NO.	DESCRIPTION	CTN QTY
T20200	20 mil x 1 x 16 self-fusing tape	6

Slic-tite® High Density Thread Sealants

- Thickness 4 mils
- Provides a highly resistant seal on pipe threads for all types of service
- Non-toxic
- Permits easy disassembly, even after years of service
- Meets Mil. Spec T-27730A
- Sealing temperature: -450°F to 550°F (-268°C to 288°C)
- Pressures: to 2,000 PSI (136 BAR)

LA-CO™

PART NO.	SIZE	CTN QTY
T19118	1/2" x 600"	12
T19119	3/4" x 600"	12
T19120	1" x 600"	12
T19121	1/4" x 300"	12
T19123	1/4" x 600"	12
T19124	1/2" x 300"	12
T19126	1/2" x 1200"	12
T19127	3/4" x 300"	12
T19128	1" x 300"	12

PTFE Thread Seal Tape

- Temperature range is 500°F to +650°F
- Withstands pressure up to 5000 PSI
- Meets U.S. government military specification MIL-T27730A
- Thickness 3 mil. plus

PART NO.	SIZE	CTN QTY
T19122	1/2" x 260"	200
T19125	1/2" x 520"	200
T19342	3/4" x 260"	150
T19345	3/4" x 520"	150

Thread Seal Tape Jar Display

- Meets U.S. MILSPEC T27730A
- Withstands pressure up to 5000 PSI
- Temperatures to +650°F
- Thickness 3 mil. plus

PART NO.	DESCRIPTION	CTN QTY
CJ1002	1/2" x 260" Teflon Tape	25

PTFE Yellow Gas Line Thread Seal Tape

- Temperature range is -450°F to +500°F
- Withstands pressure up to 5000 PSI
- Meets U.S. government military specification MIL-T27730A
- 0035 mil
- UL listed

PART NO.	SIZE	CTN QTY
T19222	1/2" x 260"	144

Box Sealing Tape

PART NO.	DESCRIPTION	CTN QTY
T20040	2" x 55 yds	36
T20041	2" x 110 yds	36
T20050	Dispenser	1

Flux Paste



- Super detergent action cleans as it solders
- Water soluble for faster flushing from pipe lines
- Non-acid, non-toxic, lead free
- Contains no zinc chloride

LA-CO

PART NO.	DESCRIPTION	CTN QTY
S95102	4 oz. Flux Paste	48
S95103	1 lb. Flux Paste	24

Flux-Rite 90® Flux



- Meets ASTM B-813
- Water soluble for faster flushing from pipe lines
- Super detergent action cleans as it solders
- Non-acid, non-toxic and lead free
- Contains no zinc chloride
- Use with all lead free and common soft solders
- For use on most metal types

LA-CO

PART NO.	DESCRIPTION	CTN QTY
S95104	4 oz. Flux-Rite 90® Flux	1
S95105	1 lb. Flux-Rite 90® Flux	1

Phos-Copper Brazing Rod



- 92.9% copper/ 7.1% phos
- Tensile strength 91,000 PSI
- Self-fluxing
- Liquid 1460°F, solid 1310°F
- Working temp 1350°-1500°F
- 1 pound plastic tubes

PART NO.	DESCRIPTION	CTN QTY
J41021	1 lb. tube brazing rod	1

2% Silver Solder



- 91% copper/ 7% phos/ 2% silver
- Liquid 1450°F, solid 1190°F
- Meets AWS A5.8QB-650 B Cup-6
- 1 pound plastic tubes

PART NO.	DESCRIPTION	CTN QTY
J41022	1 lb. tube 2% silver solder	1

5% Silver Solder



- 89% copper/ 6% phos/ 5% silver
- Meets AWS A5.8-81-BCup3 Fed QQB650B
- Liquid 1475°F, solid 1190°F
- Working temperature 1300°-1550°F
- 1 pound plastic tubes

PART NO.	DESCRIPTION	CTN QTY
J41023	1 lb. 5% silver solder	1

15% Silver Solder



- 80% copper/ 5% phos/ 15% silver
- Meets AWS A5.8-81-BC7P3 Fed QQB650B
- Liquid 1495°F, solid 1190°F
- Working temperature 1300°-1500°F
- 1 pound plastic tubes

PART NO.	DESCRIPTION	CTN QTY
J41024	1 lb. tube 15% silver solder	1

Plumber's Epoxy Putty



- Seal leaks in sink traps, water tanks, pipe joints, drain leaks and radiators
- Stop leaks in pools and drain lines
- Repair cracked porcelain wall tiles, floor tiles and fixtures
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
P40004	4 oz. Epoxy putty tubes in counter display	12

Plumber's Goop Adhesive



- 3.7 oz. tube
- Watertight bond for use on PVC, tile or porcelain
- CARTON QUANTITIES ONLY
- ORM-D

PART NO.	DESCRIPTION	CTN QTY
J45100	3.7 oz. tube plumber's goop adhesive	12

2CanCaddy™



- Grab and go handle
- Special velcro strap to keep cans organized and secure
- Works well with all size cans up to 32 oz.
- Made of extremely durable polymer
- Easily cleans, stain resistant and virtually indestructible
- Perfect for...Plumbers, Electricians, Painters & More

PART NO.	DESCRIPTION	CTN QTY
S95015	2CanCaddy™	12

100% Silicone Tub And Tile Sealant


 J40197
J40199

 J40200
J40201

- Ideal for tubs, sinks, toilets, showers and resetting loose tiles
- Warranted to last as long as the fixture
- Contains potent mildewcide
- CARTON QUANTITIES ONLY
- Application temperature range -10°F to 100°F
- Service temperature range -60°F to 400°F



PART NO.	DESCRIPTION	CTN QTY
J40199	2.8 oz. tube CLEAR caulk	12
J40197	2.8 oz. tube WHITE caulk	12
J40200	10.2 oz. tube CLEAR caulk	12
J40201	10.2 oz. tube WHITE caulk	12

PlumBest 100% Silicone Caulk



- Flexible, easy to use
- 50 year life
- CARTON QUANTITIES ONLY
- Will not stain or bleed
- Seal, bond or insulate

PlumBest

PART NO.	DESCRIPTION	CTN QTY
J40208	10.1 oz. tube CLEAR caulk	12
J40288	10.1 oz. tube WHITE caulk	12
J40289	10.1 oz. tube GRAY caulk	12

25-Year Siliconized Acrylic Caulk

- Cleans up with water
- Paintable
- Will not stain or bleed
- CARTON QUANTITIES ONLY
- Application temperature range 40°F to 90°F
- Service temperature range 0°F to 200°F



PART NO.	DESCRIPTION	CTN QTY
J40202	10.1 oz. tube WHITE caulk	12

Acrylic Tub And Tile Caulk

- Long-lasting watertight seal around tubs, showers, and sinks
- Cleans up with water
- Odorless, mildew resistant
- Paintable
- CARTON QUANTITIES ONLY
- Application temperature range 40°F to 90°F
- Service temperature range 0°F to 200°F



PART NO.	DESCRIPTION	CTN QTY
J40203	5.5 oz. ALMOND caulk	12
J40204	10.1 oz. WHITE caulk	12
J40206	5.5 oz. WHITE caulk	12

Latex Caulk

- General purpose
- Dries quickly
- Will not stain or bleed
- Paintable
- CARTON QUANTITIES ONLY



PART NO.	DESCRIPTION	CTN QTY
J40207	10.1 oz. WHITE caulk	12

Hi-Temp 100% Red Silicone Caulk

- 100% silicone
- USDA approved, UL listed, meets NSF 51
- Temperature from 65°F to 650°F
- CARTON QUANTITIES ONLY



PART NO.	DESCRIPTION	CTN QTY
J40285	Hi-temp 100% silicone caulk	12

Caulking Gun

- 9" barrel
- Drop-in half barrel type
- Painted steel

PART NO.	DESCRIPTION	CTN QTY
C35090	Caulking gun	10

Professional Caulking Gun

- Parallel hex rod frame
- Seal puncture tool
- Thumb release
- E-Z thrust mechanism
- Spout cutter
- Ladder hook

PART NO.	DESCRIPTION	CTN QTY
C35091	Parallel hex rod caulking gun	12

Firestop 814+ Intumescent Firestopping Sealant

J40284



J40286

- Colored red for ease of inspection
- Fulfills residential and commercial firestopping code requirements
- Meets ASTM-E814/UL 1479 test standards
- Resumes integrity for 1 & 2 hour fire rated assemblies

PART NO.	DESCRIPTION	CTN QTY
J40284	5 gallons	1
J40286	10.3 oz. tube	12

Fire Seal-136 Firestopping Caulk

- Resumes integrity of fireblocks 1 & 2 family construction
- Meets ASTM-E136 test standards
- Fulfills all residential fireblocking code requirements

PART NO.	DESCRIPTION	CTN QTY
J40287	10.3 oz. tube	12

Whitlam "Blue Magic" Pipe Joint Compound

- ORM-D
- NSF Approved
- Slow set
- Meets FED spec TT-S-1732
- Use on plastic and metal threads
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
S95710	1/2 pint brush top can joint compound	24
S95711	1 pint brush top can joint compound	12
S96014	1/4 pint joint compound	24
S96016	1 quart pipe joint compound	12

Whitlam Seal Unyte



- Hard set
- Dark gray
- Semi-paste
- Use on all metal threaded connections and flanges

PART NO.	DESCRIPTION	CTN QTY
S95012	1/2 pint Whitlam seal unyte	24
S95014	1/4 pint Whitlam seal unyte	24
S96012	1 pint Whitlam seal unyte	12
S95016	1 quart Whitlam seal unyte	12

Whitlam "Select Unyte" Teflon Pipe Joint Compound



- ORM-D
- NSF Approved
- Soft set, white virgin teflon (PTFE)
- Use on plastic and metal threads
- For use on air, steam, petroleum, water, gas and chemical lines
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
S95712	1/2 pint brush top can joint compound	24
S95713	1 pint brush top can joint compound	12

Slic-tite® Heavy Duty Thread Sealing Compound



- Working pressures: to 10,000 psi (liquids), 3,000 (gases)
- Temp: -50°F to +500°F
- Use for threaded connections on steel, aluminum, brass, PVC, CPVC & ABS

LA CO

PART NO.	DESCRIPTION	CTN QTY
S95011	8 fl. oz. Slic-tite® HD Thread Sealing Compound	24

Clear PVC Cement



- Low VOC
- For PVC pipe and fittings
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
G07005	Regular 1/2 pint	24
G07010	Regular pint	12
G07015	Regular quart	12
G07030	Medium 1/4 pint	24
G07032	Medium 1/2 pint	24
G07034	Medium pint	12
G07036	Medium quart	12
G07050	Heavy pint	12
G07055	Heavy quart	12
G07075	All weather quart	12

PlumBest® Spray Weld



- One-Step Primer/Cleaner and Cement for PVC & ABS Pipe Schedule 20, 30, 40 and 80 up to 12 inches
- No Mess - No Waste - No Spillage
- Spray Any Angle
- TWO YEAR SHELF LIFE - Goes twice as far as traditional brush and can method
- All Weather in a Wide Range of Temps Use within limitations of pipe manufacturer recommendations to achieve satisfactory bonding of pipe and fitting
- Meets the following: ASTM D 2564 (PVC), ASTM D 3138-95* (ABS-PVC Transition), ASTM F656 (Primer), ASTM D2235* (ABS), Complies with ANSI/NSF IAPMO Lab Tested & Listed, Low VOC per SCAQMD1168/316A (* performance requirement)

PART NO.	DESCRIPTION	CTN QTY
S30800	11 oz. purple	12
S30801	4.5 oz. purple	12
S30802	11 oz. clear	12
S30803	4.5 oz. clear	12

Hard Start Kits



- Combines PTC solid state relay with start capacitor to increase starting torque on low voltage or light compressor.
- Use on permanent split capacitor (P.S.C.) single phase A/C and heat pump systems, 115V through 288V, 4,000 through 12,000 BTU (1/2 through 10 H.P.)
- Individually bagged with header card
- UL Listed

PART NO.	MULTIPLIER	CTN QTY
H90001	300%	100
H90002	500%	50
H90003	690%	50

Flint Striker



- Round file style
- Renewable flint
- Flints priced per pack of 5 renewals

PART NO.	DESCRIPTION	CTN QTY
J40048	Striker	10
J40049	Pack of 5 flint renewals	1

Three Flint Friction Lighter



- Flints priced per pack of 4 renewals
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
J40047	Three flint friction lighter	1
J40044	Flint renewal unit (4/card)	1

PlumBest MAPP & Propane Cylinders



- Temperatures for burning: Propane 2300°, MAPP 3300°
- CARTON QUANTITIES ONLY
- LTL TRANSPORTATION ONLY
- NO UPS/FED EX

PART NO.	DESCRIPTION	CTN QTY
J40601	14.1 oz. Propane	12
J40600	16 oz. MAPP	12

Uniweld Torches

J40529



J40629



PART NO.	DESCRIPTION	CTN QTY
J40529	Hand torch with swivel tip and self-igniter	6
J40329	UT6 replacement tip for J40529	1
J40629	Hand torch with swivel tip	6
J40429	UT5 replacement tip for J40629	1

Pencil Flame Torch



- Includes valve, stem, and burner
- For MAPP or propane



PART NO.	DESCRIPTION	CTN QTY
J40229	Pencil flame torch	1

Solder Shield Protective Blanket



- For use when combustible material is present during soldering
- 9" x 12" protection area
- Protects up to 2300°F for five minutes
- Smoke and odor free non-asbestos material
- Lends a clean, professional appearance to your work
- Durable woven ceramic holds up well in multiple uses

PART NO.	DESCRIPTION	CTN QTY
J40812	9" x 12" Solder shield	1

Wypall® Waterless Hand Wipes



- 10 x 12 pre-moistened towels; 50 count
- Lower price per tub
- Conveniently sized tub
- All of the towels can be used before they dry out
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
B05007	50-count dispenser tub	8
B05008	Wypall display (32 tubs)	1

Wypall® Teri® Towels



- Strong and durable, wet or dry
- 125 reusable sheets per box-equivalent to 18 lbs. of rags
- Reinforced HYDROKNIT® provides extra scrubbing power
- CASE QUANTITIES ONLY



PART NO.	DESCRIPTION	CTN QTY
B05003	9 3/4" x 16 3/4" x 125 sheets	10

Wypall® Waterless Hand Wipes



- Full-sized pre-moistened hand towels- smooth for wiping on one side, tough for scrubbing on the other
- Natural d'limonene cleaning agent tough on grease, grime, ink & paint
- CASE QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
B05002	12" x 12" x 75 sheets	6

Box of Rags



- Colored cotton sweatshirt material
- 100% recycled
- Pull out dispensing

PART NO.	DESCRIPTION	CTN QTY
B05001	4 lb. box of rags	1

Poly Sheeting



- Clear
- 4 mil super tough plastic
- Hundreds of uses
- Made in the U.S.A.

MADE IN THE
USA

PART NO.	DESCRIPTION	CTN QTY
S08100	8' x 100' poly sheeting	1
S10100	10' x 100' poly sheeting	1
S12100	12' x 100' poly sheeting	1

Cotton Plumbers Handy Towels



- 100% cotton heavy duty shop towels are washable, reusable & nonabrasive
- Ideal for cleaning hands, wiping spills, removing grime from tools & parts
- 12 towels per bag

PART NO.	DESCRIPTION	CTN QTY
B05004	Plumbers handy towels	12

Commercial Sponges



- Commercial grade cellulose sponges- made to last!
- Deeply textured top makes cleanup easier
- Made in the U.S.A.

MADE IN THE
USA

DIMENSIONS	
S50001	6-3/4" x 4-3/8" x 3/4"
S50002	8" x 4-1/2" x 3/4"

PART NO.	DESCRIPTION	CTN QTY
S50001	Medium Cellulose sponge	24
S50002	Large Cellulose sponge	24

Plastic Drop Cloth



- Medium duty 1 mil plastic
- Convenient pleat fold pack design
- Protects furniture, appliances and carpets

PART NO.	DESCRIPTION	CTN QTY
D50000	9' x 12' plastic drop cloth	1

Trash Bags



G02042



G02033

- Hundreds of uses
- Keep the jobsite clean

PART NO.	DESCRIPTION	CTN QTY
G02042	42 gallon 3 mil. / 10 per bag	6
G02033	33 gallon .95 mil / 40 per box	6

Spray Bottle



- Economical to use for leak testing when filled with soapy water
- Clear bottle with various color tints based on availability

PART NO.	DESCRIPTION	CTN QTY
B25001	16 oz. clear spray bottle	1

Element Wrench



- Zinc plated steel
- For removing heater elements

PART NO.	DESCRIPTION	CTN QTY
J36100	Regular unit wrench	10
J36101	Heavy duty wrench	10

14 Piece Folding Hex Key Wrench Set



- Chrome plated steel case
- Fourteen fractional U.S. sizes

PART NO.	DESCRIPTION	CTN QTY
J40015	Hex key wrench set (carded)	1

Radiator Spud Wrench



- Plated malleable iron
- For use as spud key and wrench

PART NO.	DESCRIPTION	CTN QTY
J40030	Radiator spud wrench	5

Heavy Duty Pipe Wrench



- Manufactured to U.S. Specification GGG-W651 Type II Class A
- Upper and lower jaws forged and tempered
- Nodular cast iron handle



PART NO.	ROTHENBERGER	LENGTH	CAPACITY	CTN QTY
J40065	7.0150	8"	1"	6
J40066	7.0151	10"	1 1/2"	6
J40067	7.0152	12"	2"	6
J40068	7.0153	14"	2"	1
J40069	7.0154	18"	2 1/2"	1
J40070	7.0155	24"	3"	1
J40105	7.0156	36"	5"	1

Aluminum Pipe Wrench



- Manufactured to U.S. Specification GGG-W651 Type I Class B
- Forged and tempered handle, bottom jaw and nut
- Alloy handle



PART NO.	ROTHENBERGER	LENGTH	CAPACITY	CTN QTY
J40071	7.0159	10"	1 1/2"	6
J40072	7.0160	14"	2"	6
J40073	7.0161	18"	2 1/2"	6
J40074	7.0162	24"	3"	1
J40106	7.0163	36"	5"	1

Adjustable Wrench



- Drop forged
- Chrome plated
- Manufactured to Federal Specification GGG-W-631-B Type I Class I



PART NO.	LENGTH	CAPACITY	CTN QTY
J40075	6"	13/16"	6
J40076	8"	15/16"	6
J40077	10"	1 3/16"	6
J40078	12"	1 3/8"	6
J40079	15"	1 3/8"	6

Curb Box Wrench



- For pentagon curb boxes
- Thin wall socket fits most boxes

PART NO.	DESCRIPTION	CTN QTY
M25900	Curb box wrench	1

Box Wrench



- For B and MC tanks

PART NO.	DESCRIPTION	CTN QTY
J40230	Box wrench	1

Strap Wrench



- For chrome fittings and nipples

PART NO.	DESCRIPTION	CTN QTY
J40307	7" strap wrench	1
J40311	11" strap wrench	1

Twist-Off Strap Tool



Carded

- Grips when wet
- Will not scratch
- High density polyethylene handle
- Heavy duty rubber strap

PART NO.	DESCRIPTION	CTN QTY
J40325	Twist-off Strap Tool(carded)	1

Hydrostatic Pressure Pump



- Maximum pressure 700 PSI
- 1/2" NPT hose connection
- Three gallon tank capacity



PART NO.	ROTHENBERGER	DESCRIPTION	CTN QTY
J40223	6.1004	Complete pressure pump unit	1
J40224	6.1313	0 - 700 PSI gauge	1
J40225	6.1300	Piston	1

RP 30 Hydrostatic Test Pump



- For quick pressure testing and/or air tight testing
- Ideal for use in small spaces
- Steel reinforced test hose
- Test up to 440 lbs
- No false reading from any bulging of the hose!



PART NO.	DESCRIPTION	CTN QTY
J40123	Hydrostatic Test Pump	1

Air Pump



- Large diameter
- Heavy metal construction
- Pressure gauge included

PART NO.	DESCRIPTION	CTN QTY
P10001	Heavy duty pump	1

Economy Air Pump



PART NO.	DESCRIPTION	CTN QTY
P10002	1 1/2" x 18" air pump	10

Water Pump



- Excellent for draining water meter boxes
- High impact PVC; non-sparking; lightweight
- No priming necessary- removes 35 ounce/stroke
- Remove foot valve to clean

PART NO.	DESCRIPTION	CTN QTY
P13600	36" pump with 72" discharge hose	1

Copper Fitting Brush



- Carbon steel
- CARTON QUANTITIES ONLY

Wire Handle

Wooden Handle

Wire Handle			
PART NO.	ID	OD	CTN QTY
B28025	1/4"	3/8"	12
B28375	3/8"	1/2"	12
B28050	1/2"	5/8"	12
B28051	1/2"	5/8"	100-bulk
B28075	3/4"	7/8"	12
B28076	3/4"	7/8"	100-bulk
B28100	1"	1 1/8"	12
B28125	1 1/4"	1 3/8"	6
B28150	1 1/2"	1 5/8"	6
B28200	2"	2 1/8"	6
Wooden Handle			
PART NO.	ID	OD	CTN QTY
B29025	1/4"	3/8"	12
B29375	3/8"	1/2"	12
B29050	1/2"	5/8"	12
B29051	1/2"	5/8"	100-bulk
B29075	3/4"	7/8"	12
B29076	3/4"	7/8"	100-bulk
B29100	1"	1 1/8"	12
B29125	1 1/4"	1 3/8"	6
B29150	1 1/2"	1 5/8"	6
B29200	2"	2 1/8"	6

4-N-1 Copper Tube Fitting Brush



- Includes four long lasting high carbon steel brushes for 1 1/2" and 3/4" copper tube and fittings

PART NO.	DESCRIPTION	CTN QTY
B10004	Copper tube and fitting brush	6

Female Copper Tube Brush



- For cleaning copper tubing
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
B29625	CTS OD 5/8" copper tube brush	6
B29875	CTS OD 7/8" copper tube brush	6
B29999	CTS OD 1 1/8" copper tube brush	6

Socket Savers



- Removes Schedule 40 plastic pipe
- Cuts ABS or PVC DWV pipe below slab
- Fits 1/2" variable speed power drill
- Carded for display

PART NO.	DESCRIPTION	CTN QTY
J44050	1/2" Socket Saver	1
J44075	3/4" Socket Saver	1
J44100	1" Socket Saver	1
J44150	1 1/2" Socket Saver	1
J44200	2" Socket Saver	1
J44300	3" Socket Saver	1
J44400	4" Socket Saver	1

Inside Pipe Cutter



- Cuts 2" and larger plastic pipe
- Fits electric drill

PART NO.	DESCRIPTION	CTN QTY
P70023	3" shaft with 2 blades	10
P70029	3 replacement blades	10

PlumBest E-Z Shear Inside Pipe Cutter



- Cuts PVC and ABS pipe
- High speed steel blade with zinc-plated shaft

PART NO.	DESCRIPTION	CTN QTY
J40830	E-Z shear inside pipe cutter	1
J40831	Two (2) E-Z shear replacement blades	1

PVC Pipe Cutters



- High carbon steel blades
- Repair kits includes all screws and springs needed to repair cutter
- Aluminum alloy handles
- Ratchet action

PART NO.	DESCRIPTION	CTN QTY
P70001	1" pipe cutter (carded)	1
P70005	1" replacement blade	1
P70015	1" repair kit	1

Heavy Duty PVC Pipe Cutters



- High carbon steel blades
- Repair kits includes all screws and springs needed to repair cutter
- Aluminum alloy handles

PART NO.	DESCRIPTION	CTN QTY
P70010	1" heavy duty pipe cutter (boxed)	1
P70011	1" heavy duty replacement blade	1
P70012	1" repair kit	1
P70002	2" pipe cutter (boxed)	1
P70006	2" replacement blade	1
P70016	2" repair kit	1

PVC One-Handed Pipe Cutters



- Easy one-handed ratchet cutting action
- Spring loaded blade
- Heat treated hardened steel blade for straighter cuts - longer life
- Contractor quality - great for plumbers, pool contractors, electricians, etc.
- Cuts up to 2" pipe (2 1/2" OD)

PART NO.	DESCRIPTION	CTN QTY
P70035	2" PVC One-handed pipe cutter	1
P70036	2" replacement blade	1

Professional PVC Pipe Cutter



- Rustproof
- Capacity to 1 1/4" diameter PVC
- The blade is non-electro nickel plated which ensures a sharper blade
- Locking hook can be used to deburr pipe

PART NO.	DESCRIPTION	CTN QTY
P70018	1 1/4" PVC pipe cutter (carded)	6
P70019	Replacement blade for P70018	1
P70020	Repair kit	1

Vinyl Tubing Cutter



- Plastic body
- Cuts up to 1" vinyl tubing

PART NO.	DESCRIPTION	CTN QTY
P70030	Vinyl tube cutter	10
P70031	Vinyl tube cutter replacement blade	10

Telescopic Tubing Cutter



- Extra wheel in handle
- Grooved roller
- 1/4" - 1 1/4" cutter
- Imported
- Built-in deburring tool

PART NO.	DESCRIPTION	CTN QTY
P70050	Telescopic tubing cutter	1
P70055	Replacement cutter wheel	1
P70056	Two (2) Replacement cutter wheels	1

Telescoping Tubing Cutter



- Enclosed feed mechanism
- Grooved rollers for close-to-flare cuts
- Anodized body for corrosion resistance
- Allows cut with shorter arc
- Fold-away reamer
- Spare cutter wheel stored in body



PART NO.	ROTHENBERGER	DESCRIPTION	CTN QTY
J40240	70010	1/8" - 1 1/8" O.D. capacity	1
J40241	70011	1/4" - 1 5/8" O.D. capacity	1
J40242	70007	Replacement cutter wheel	1
J40243	51250	Cutter wheel pin	10
J40244	51240	Cutter wheel pin retaining ring	10

Enclosed Feed Tube Cutter



Retractable
Deburring
Blade

- Extra cutter in knob
- Heavy duty one piece slide
- Polished rollers for easy rotation
- Cuts: Copper, brass, aluminum tubing, thin-wall conduit

PART NO.	DESCRIPTION	CTN QTY
P70064	1/8" x 1 3/16"	1
P70056	Two (2) Replacement cutter wheels	1

Quick Release Tubing Cutter



P70069 Carded

- Spring-loaded for quick size adjustment
- Spring cutter wheel in handle
- Imported

PART NO.	DESCRIPTION	CTN QTY
P70065	1/4" - 2" O.D. Capacity tubing cutter	1
P70069	Two (2) Replacement cutter wheels (carded)	1

Quick Release Tubing Cutter



- Spring-loaded ratchet allows for quick size adjustment and release
- Spare cutter wheel in handle



PART NO.	ROTHENBERGER	DESCRIPTION	CTN QTY
J40217	70030	1/4" - 2 5/8" heavy duty cutter	1
J40218	70005	Repl. cutter wheel for metal	10
J40219	70028	Repl. cutter wheel for plastic	10
J40228	70006	Cutter wheel screw	10

Economy Tube Cutter



- Screw-feed
- Zinc plated

PART NO.	DESCRIPTION	CTN QTY
P70066	1/8" - 1 1/8"	1
P70067	Replacement blades (slide blister)	2

Mini Tubing Cutter



PART NO.	ROTHENBERGER	DESCRIPTION	CTN QTY
J40213	70001	5/8" capacity tubing cutter	1
J40214	70002	7/8" capacity tubing cutter	1
J40215	70003	Replacement cutter wheel	10
J40228	70006	Cutter wheel screw	10

Mini Tubing Cutter



- 1/8" - 1/2" cutter

PART NO.	DESCRIPTION	CTN QTY
P70051	Mini tubing cutter - 1/8"-7/8"	1
P70060	Mini tubing cutter- 1/8" - 1 1/8"	1
P70067	Replacement blades (slide blister)	2

Mini Tubing Cutter



- Good for all soft metal tubing

PART NO.	DESCRIPTION	CTN QTY
P70052	Mini tubing cutter-1/8"-7/8" (uses P70055 repl. blade)	1
P70053	Mini tubing cutter- 1/8" - 1 1/8"	1
P70067	Replacement blades (slide blister)	2

Copper Tube Cutter



- Self-clamping and self-aligning
- Easy to use in close quarters
- Cuts copper and PVC quickly and easily

PART NO.	DESCRIPTION	CTN QTY
J40260	1/2" Copper tube cutter	1
J40261	3/4" Copper tube cutter	1
J40263	Replacement blades for J40260 & J40261	1

Ratcheting Handle Copper Tube Cutter



- Cuts multiple sizes of copper, aluminum tubing, and thin-wall conduit
- Long handle for more leverage

PART NO.	DESCRIPTION	CTN QTY
J40262	1/4"-3/4" Ratcheting handle copper tube cutter	1

E-Z Stroke Pipe Saw



S49005

S49007

S49008

- For smooth, fast, accurate cutting
- Tri-edge teeth are borazon wheel ground
- Pull-stroke cutting action
- Cuts plastic pipe and wood
- Replaceable blade

PART NO.	DESCRIPTION	CTN QTY
S49005	8" E-Z stroke pipe saw	10
S49006	8" Replacement blade	1
S49008	12" E-Z stroke pipe saw	10
S49007	12" Replacement blade	1

PlumBest Plastic Saw



- Die cast aluminum handle
- Quickly cuts PVC, ABS, wood, sheetrock, etc.
- Large comfortable grip
- Flame hardened blade
- 18" blade has 10 teeth/inch

PART NO.	DESCRIPTION	CTN QTY
S49001	18" PlumBest saw	6
S49002	18" Replacement blade	10
S49010	Handle only	10

Drywall Saw



- High quality carbon steel blade
- Great for sheetrock, wallboard, gypsum, plywood, wood and plastic pipe
- 6" 8 TPI aggressive tooth design ensures super sharp, fast & easy cut
- Comfortable grip with thumb stop for greater leverage
- Handy wrist strap

PART NO.	DESCRIPTION	CTN QTY
S49012	Drywall saw	5
S49013	Replacement blade	5

Jr. Plumber's Saw



- Die cast aluminum handle
- Case hardened steel blade
- Deburs as it cuts
- Cuts up to 4" PVC pipe
- 8 1/2" blade; 10 teeth/inch
- Unique nose teeth permit starting cuts on flat surfaces

PART NO.	DESCRIPTION	CTN QTY
S49004	Jr. Plumber's saw	1
S49000	8 1/2" Replacement blade	1

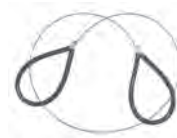
Hardwood 250 Speed Handsaw



- Great for hardwood and laminated wood
- Tri-edge and impulse hardened teeth for accurate rip, cross and slant cuts

PART NO.	DESCRIPTION	CTN QTY
S49200	Hardwood 250 Speed Handsaw	10/60
S49201	Replacement blade	50/100

Cable Saws



Bagged with Header

- For cutting PVC pipe
- For tight spots offering little clearance
- Fits easily into tool box and pocket
- Faster and easier than hacksaws in close quarters
- Individually bagged with header card

PART NO.	DESCRIPTION	CTN QTY
S49136	36" cable saws with display	36
S49148	48" cable saws with display	24
S49036	36" cable saw	1
S49048	48" cable saw	1

T-Handle Cable Saw



Bagged with Header

- For cutting PVC pipe
- Strong and comfortable t-handles
- Polybagged with header card
- Great for use in tight spots
- Long-lasting stainless steel cutting cable

PART NO.	DESCRIPTION	CTN QTY
S49236	36" cable saw	1

Close Quarters Hacksaw



S50060

S50062

- Nickel plated steel frame
- Cuts wood, plastic, brass, aluminum and steel

PART NO.	DESCRIPTION	CTN QTY
S50060	6" close quarters hacksaw	10
S50061	Replacement blades for S50060	5
S50062	6" adjustable hacksaw	10
S50063	Replacement blades for S50062	5

PlumBest Hacksaw



- Heavy square tubing and die cast construction
- Stores extra blades
- Blade tensioning adjustment
- Cuts flush with surface

PART NO.	DESCRIPTION	CTN QTY
S49003	Hacksaw with blade	1

Hacksaw Blades



- Available in carded 10-pack only
- Bi-metal or carbon steel blade

PART NO.	DESCRIPTION	CTN QTY
J40094	12" / 18 tooth bi-metal blade	10/pack
J40095	12" / 24 tooth bi-metal blade	10/pack
J40096	12" / 32 tooth bi-metal blade	10/pack
J40097	12" / 18 tooth carbon steel blade	10/pack
J40098	12" / 24 tooth carbon steel blade	10/pack
J40099	12" / 32 tooth carbon steel blade	10/pack

Utility Knife



- Heavy duty construction
- Supplied with extra blade
- Coated case

PART NO.	DESCRIPTION	CTN QTY
K50041	Utility knife	10
K50042	Five replacement blades per pack	10

Snap Knife



- Seven point snap-off blade
- Counter display box has 30 pcs.
- Replacement blades
- CARTON QUANTITIES ONLY
- 10 per tube, priced each

PART NO.	DESCRIPTION	CTN QTY
K50001	Snap knives with display box	30
K50002	7 point snap knife	1
K50003	7 point replacement blade	10

Deluxe Autolock Snap Knife



- Blade automatically locks into position
- Contoured shape for a more comfortable grip

PART NO.	DESCRIPTION	CTN QTY
K50005	Deluxe autolock snap knife	1

Offset Aviation Snip



- Offset for easier use
- Great for cutting at difficult angles

PART NO.	DESCRIPTION	CTN QTY
J40156	Right hand cut offset aviation snips	1
J40157	Left hand cut offset aviation snips	1
J40158	Straight cut aviation snips	1

Fiberglass Handle Shovels



S49411 (SFGLR)



S49412 (SFGLS)



S49416 (SFGD16)



S49413 (SFGDSL)

AMES
TRUE TEMPER.

- STINGER SERIES - Fiberglass handle is 40% stronger than Federal Strength Test for long handle wood tools.
- Large steel collar adds maximum strength to handle/socket connection.
- Forward - turned step for secure foot placement

PART NO.	DESCRIPTION	AMES #	BUNDLE QTY
S49411	Long handle round point	SFGLR	6
S49412	Long handle square point	SFGLS	6
S49416	D-Handle 16" drain spade	SFGD16	6
S49413	Long handle 16" drain spade	SFGDSL	6

Premium Grade Wood Handle Shovels



S49421 (BMTLR)



S49422 (BMTLS)



S49417 (BMTDR)



S49423 (15-738)



S49425 (15-566)

AMES
TRUE TEMPER.

- Lacquered ash handle
- Premium blade

PART NO.	DESCRIPTION	AMES #	BUNDLE QTY
S49421	Long handle round point	BMTLR	6
S49422	Long handle square point	BMTLS	6
S49417	D-Handle round point	BMTDR	6
S49423	D-Handle 16" drain spade	15-738	6
S49425	LH trenching shovel 4" blade	15-566	6
S49427	LH trenching shovel 5" blade	15-567	6

Economy Shovels



S49431 (15-047)



S49432 (15-049)

AMES
TRUE TEMPER.

PART NO.	DESCRIPTION	AMES #	BUNDLE QTY
S49431	Long handle round point	15-047	6
S49432	Long handle square point	15-049	6

Specialty Shovels



S49429 (15-663)

AMES
TRUE TEMPER.

- KODIAK CUB - smaller design for easier use in tight spaces
- 16 gauge tempered steel blade
- Forward turned step
- 27" overall length

PART NO.	DESCRIPTION	AMES #	BUNDLE QTY
S49429	Compact utility shovel	15-663	6

Long Handle Round Point Fiberglass Shovel



- Long fiberglass handle
- Round point

PART NO.	DESCRIPTION	BUNDLE QTY
S49400	Long handle round point	1

17 Pound Digging/Tamping Bar


AMES
TRUE TEMPER.

- For digging holes, cutting roots or tamping

PART NO.	DESCRIPTION	CTN QTY
S49500	1" x 69" post hole digger	1

Utility Pry Bar


AMES
TRUE TEMPER.

PART NO.	DESCRIPTION	CTN QTY
S49489	14" utility pry bar	5

Gooseneck Wrecking Bar


AMES
TRUE TEMPER.

- Painted and polished
- Claw on end removes nails

PART NO.	DESCRIPTION	CTN QTY
S49501	30" wrecking bar	10

Striking Tools


 MADE IN THE
USA
AMES
TRUE TEMPER.

- Made in the USA
- Hickory handles
- Long life - high quality

PART NO.	DESCRIPTION	CTN QTY
J40144	3 lb. engineers hammer	2
J40142	6 lb. sledgehammer	6
J40143	8 lb. sledgehammer	6

Pick Mattock


AMES
TRUE TEMPER.

- Hardwood handle
- 5 pound head

PART NO.	DESCRIPTION	CTN QTY
J40141	5 lb. pick mattock with handle	6
J40145	Replacement handle	12

Railroad Pick


AMES
TRUE TEMPER.

- Hardwood handle
- 6 pound head

PART NO.	DESCRIPTION	CTN QTY
J40140	6 lb. railroad pick with handle	6
J40145	Replacement handle	12

Probing Rod



- Weather resistant fiberglass
- Eliminates danger of shock
- Tip is not replaceable

PART NO.	DESCRIPTION	CTN QTY
P27048	4'	5

Steel Probing Rod



- Stainless steel tips
- Cushion vinyl handle
- Welded steel construction

PART NO.	DESCRIPTION	CTN QTY
P27004	4'	10
P27005	5'	10
P27001	Stainless steel tip	5

Steel Probing Rod With Ball Point



Ballpoint Tip

- Steel shaft
- Vinyl handle for comfort
- Carbon steel ballpoint will not puncture soft pipe
- Tip is not replaceable

PART NO.	DESCRIPTION	CTN QTY
P27003	3' metal probing rod	1
P27040	4' metal probing rod	1

Copper Sizing Tool



- For type "M" copper tubing
- Impact type to reround tube

PART NO.	DESCRIPTION	CTN QTY
J40750	1/2" Copper sizing tool	6
J40775	3/4" Copper sizing tool	6
J40800	1" Copper sizing tool	6

Copper Swedge Tool



J40375



J40369

- Use J40375 on 1/4", 5/16", 3/8", 1/2", and 5/8" copper tube
- Use J40369 on 5/8", 7/8", and 1 1/8" copper tube
- Heat-treated carbon steel
- Can also be used on soft copper, aluminum or any other thin-walled tubing

PART NO.	DESCRIPTION	CTN QTY
J40375	Copper swedge tool	1
J40369	Copper swedge tool (up to 1 1/8")	1

Polybutylene Crimping Tools



- Single crimp and combo tools
- Made in the USA
- Accurate and easy to use
- Unit can be calibrated in the field

MADE IN THE
USA

PART NO.	DESCRIPTION	CTN QTY
J42002	1/2" regular crimping tool	1
J42003	3/4" regular crimping tool	1
J42004	1/2" - 3/4" combo crimping tool	1

Note: These tools cannot be returned for repair.

Pex Crimp Set



J40950



J40952



J40965



J40966

- For use on crimping PEX pipe with copper crimp rings and stainless steel bands

PART NO.	DESCRIPTION	CTN QTY
J40950	PEX crimp set with 3/8", 1/2", 3/4"	1
J40951	3/8" PEX crimp tool	1
J40952	1/2" PEX crimp tool	1
J40953	3/4" PEX crimp tool	1
J40954	1" PEX crimp tool	1
J40955	PEX crimp sizing tool	1
J40960	PEX crimp ring cutter	1
J40965	One hand PEX SS clamp tool	1
J40966	PEX SS clamp tool	1

Flaring Tool



- Makes smooth flare
- For O.D. sizes 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8"

PART NO.	DESCRIPTION	CTN QTY
J40080	Bar flaring tool	1

Swing Release Flaring Tool



- 3/16" - 5/8" O.D.
- 45° single flare

PART NO.	ROTHENBERGER	DESCRIPTION	CTN QTY
J40220	2.6003	45° flaring tool	1
J40250	-	Roller for J40220	1
J40251	-	Roller Pin for J40220	1

Deburring Tool



- Easily removes burrs inside and outside of copper and plastic
- Handle stores spare blades

PART NO.	DESCRIPTION	CTN QTY
J40221	Deburring tool with blade	1
J40222	Replacement blade only	1

Nipple Extractor Sets



PART NO.	DESCRIPTION	CTN QTY
J40054	Nipple extractor set - 3/8", 1/2", 3/4"	1
J40055	Nipple extractor set - 3/8", 1/2", 3/4", 1"	1

Internal Pipe Nipple Extractors



- Heat treated and cad plated
- Removes or inserts nipples

PART NO.	DESCRIPTION	CTN QTY
J40050	3/8" nipple extractor	1
J40051	1/2" nipple extractor	1
J40052	3/4" nipple extractor	1
J40053	1" nipple extractor	1

Nipple And Screw Extractors



- Left hand spiral
- Removes nipples, bolts, and screws without thread damage

PART NO.	PIPE SIZE	DRILL SIZE	BOLT SIZE	CTN QTY
J41100	-	5/64"	3/32" - 5/32"	3
J41101	-	7/64"	5/32" - 7/32"	3
J41102	-	5/32"	7/32" - 9/32"	3
J41103	1/8"	1/4"	9/32" - 3/8"	3
J41104	1/4"	19/64"	3/8" - 5/8"	3
J41105	3/8"	13/32"	5/8" - 7/8"	1
J41106	1/2"	17/32"	7/8" - 1 1/8"	1
J41107	3/4"	13/16"	1 1/8" - 1 3/8"	1
J41108	1"	1 1/16"	1 3/8" - 2"	1

Carbide Tipped Masonry Drill Bit



PART NO.	REGULAR LENGTHS	SHANK SIZE	CTN QTY
S41349	5/32" x 4"	3/16"	6
S41351	3/16" x 4"	3/16"	6
S41350	1/4" x 4"	1/4"	6
S41352	5/16" x 4"	1/4"	6
S41353	3/8" x 6"	1/4"	6
S41354	7/16" x 6"	3/8"	6
S41355	1/2" x 6"	3/8"	2
S41356	9/16" x 6"	1/2"	2
S41357	5/8" x 6"	1/2"	2
S41361	5/8" x 12"	1/2"	2
S41358	3/4" x 6"	1/2"	2
S41359	7/8" x 6"	1/2"	2
S41362	7/8" x 12"	1/2"	2
S41360	1" x 6"	1/2"	2
S41363	1" x 12"	1/2"	2

Power Ship Augers

Long Pattern



- 17" overall length
- 12" twist

PART NO.	DESCRIPTION	CTN QTY
B22050	1/2" x 17"	1
B22625	5/8" x 17"	1
B22075	3/4" x 17"	1
B22087	7/8" x 17"	1
B22100	1" x 17"	1
B22112	1 1/8" x 17"	1
B22125	1 1/4" x 17"	1
B22150	1 1/2" x 17"	1

Dual Auger Wood Bits

Screw Point



- Up to 1" for use in 3/8" or 1/2" power drill; 1" and up for use in 1/2"

PART NO.	DESCRIPTION	CTN QTY
B21625	5/8" x 6" long	6
B21075	3/4" x 6" long	6
B21087	7/8" x 6" long	6
B21100	1" x 6" long	6
B21112	1 1/8" x 6" long	3
B21125	1 1/4" x 6" long	3
B21150	1 1/2" x 6" long	3

Flat "Paddle" Wood Bits



PART NO.	SIZE	CTN QTY
B24375	3/8"	1
B24050	1/2"	1
B24056	9/16"	1
B24063	5/8"	1
B24075	3/4"	1
B24081	13/16"	1
B24088	7/8"	1
B24100	1"	1
B24113	1 1/8"	1
B24125	1 1/4"	1
B24150	1 1/2"	1

Straight Shank Drill Bits



- High speed steel
- Jobber's length

PART NO.	DESCRIPTION	CTN QTY
B20062	1/16" drill	10
B20078	5/64" drill	10
B20094	3/32" drill	10
B20109	7/64" drill	10
B20125	1/8" drill	10
B20141	9/64" drill	10
B20156	5/32" drill	10
B20172	11/64" drill	10
B20188	3/16" drill	10
B20203	13/64" drill	10
B20219	7/32" drill	10
B20234	15/64" drill	10
B20250	1/4" drill	10
B20266	17/64" drill	5
B20281	9/32" drill	5
B20297	19/64" drill	5
B20313	5/16" drill	5
B20328	21/64" drill (1/8" pipe tap)	5
B20344	13/32" drill	5
B20359	23/64" drill	5
B20375	3/8" drill	5
B20391	25/64" drill	5
B20406	13/32" drill	5
B20422	27/64" drill	5
B20438	7/16" drill (1/4" pipe tap)	5
B20453	29/64" drill	5
B20469	15/32" drill	5
B20484	31/64" drill	5
B20500	1/2" drill	5

Pipe Taps



- NPT
- High carbon steel

PART NO.	DESCRIPTION	CTN QTY
T41001	1/8" NPT pipe tap	1
T41002	1/4" NPT pipe tap	1
T41003	3/8" NPT pipe tap	1
T41004	1/2" NPT pipe tap	1
T41005	3/4" NPT pipe tap	1
T41006	1" NPT pipe tap	1
T41009	1 1/4" NPT pipe tap	1
T41007	1 1/2" NPT pipe tap	1
T41008	2" NPT pipe tap	1

PlumbRule Tape Measure



- 1" locking blade with push button lock
- Offset fractions for easy reading
- Auto recoil; belt clip and wrist strap
- Red stud markings and joist markings

PART NO.	DESCRIPTION	CTN QTY
J40101	1" x 25' tape	6

Chrome Precision Tape



- 1" locking blade
- Tough tip

Starrett®

PART NO.	DESCRIPTION	CTN QTY
J40085	1" x 25' chrome tape	6

Neon Precision Tape



- Sure grip case

PlumBest®

PART NO.	DESCRIPTION	CTN QTY
J40086	1" x 25' neon orange tape	6
J40087	1" x 25' neon yellow tape	6

Long Tape



- Hook blade
- Pop-open handle

Starrett®

PART NO.	DESCRIPTION	CTN QTY
J40088	3/8" x 50' tape	1
J40089	3/8" x 100' tape	1

Wood Folding Ruler With Extension



- 6' with 6" brass extension
- Maple blade with 16" stud markings

Starrett®

PART NO.	DESCRIPTION	CTN QTY
J40093	Wood rule with extension	6

Locking Measuring Tape



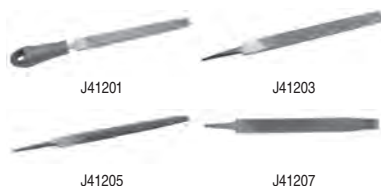
Call Us for Private Labeling

- Unbreakable chrome plated case
- Power return
- Double riveted tang
- Cushion stop
- Positive lock
- Yellow tape

PlumBest®

PART NO.	DESCRIPTION	CTN QTY
J40046	1" x 25' tape	1
J40045	3/4" x 16' tape	1

Files



- Durable plastic handles
- Top quality alloy steel

PART NO.	DESCRIPTION	CTN QTY
J41201	8" mill bastard file with handle	1
J41202	10" mill bastard file with handle	1
J41203	8" flat bastard file	1
J41204	10" flat bastard file	1
J41205	8" half round file	1
J41206	10" half round file	1

Slip Jaw Pliers



- Plated finish
- Plastic grips

PART NO.	DESCRIPTION	CTN QTY
P60001	2 1/8" capacity / 10" long	5

Water Pump Pliers



- Drop forged vanadium steel; black epoxy powder coated
- Cushion grip
- Self-locking on pipe



PART NO.	ROTHENBERGER	LENGTH	CAPACITY	CTN QTY
J40210	7.0521	7"	1"	6
J40211	7.0522	10"	1 1/4"	6
J40212	7.0523	12"	1 1/2"	6

Griplock Tongue & Groove Water Pump Pliers



- Comfort grips



PART NO.	CHANNEL LOCK NO.	LENGTH	NO. ADJ.	CAPACITY	CTN QTY
J40410	GL10	10"	5	1 1/4"	5
J40411	GL12	12"	6	2 1/4"	5

"No Pinch" Pipe Wrench Pliers



- 10" comfort cushion grips
- Unique handle design prevents pinched fingers
- 1 3/4" jaw capacity
- Drop forged; plated finish

PART NO.	DESCRIPTION	CTN QTY
P60002	10" Pipe wrench pliers	5

10" Smooth Jaw Pliers



- 2 1/8" jaw opening
- Smooth jaws for non-arranging surfaces (chrome, polished brass)
- Cushioned vinyl grips

PART NO.	DESCRIPTION	CTN QTY
P60003	10" Smooth jaw pliers	5

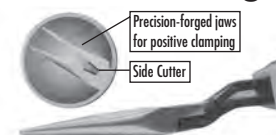
7" Offset Diagonal Cutting Pliers



- Chrome vanadium steel
- Offset shaft design for precise and maximum reach
- Cushion grip handle for extra leverage and comfort
- Equipped with convenient side cutter

PART NO.	DESCRIPTION	CTN QTY
J40420	7" Offset diagonal cutting pliers	12

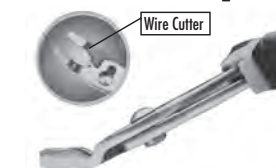
8" Offset Long Nose Pliers



- Chrome vanadium steel
- Offset maximum reach
- Cushion grip handle for extra leverage and comfort
- Equipped with convenient side cutter

PART NO.	DESCRIPTION	CTN QTY
J40421	8" Offset long nose pliers	12

8" Offset Slip Joint Pliers



- Chrome vanadium steel
- Offset jaws design for precise and maximum reach
- Cushion grip handle for extra leverage and comfort
- Equipped with wire cutting shears

PART NO.	DESCRIPTION	CTN QTY
J40422	8" Offset slip joint pliers	12

Tongue & Groove Pliers



- Right angle teeth
- Undercut tongue and groove-won't slip
- Comfort grips



PART NO.	CHANNEL LOCK NO.	LENGTH	NO. ADJ.	CAPACITY	CTN QTY
J40401	426	6 1/2"	5	7/8"	5
J40402	420	9 1/2"	5	1 1/2"	5
J40403	430	10"	7	2"	5
J40404	440	12"	7	2 1/4"	5
J40405	460	16"	8	4 1/4"	2

Curved Jaw Tongue & Groove Pliers



- Curved jaw for use on round stock and tubing
- Right angle teeth

CHAN NEL LOCK

PART NO.	CHANNEL LOCK NO.	LENGTH	NO. ADJ.	CAPACITY	CTN QTY
J40407	422	9 1/2"	5	1 1/2"	5
J40408	442	12"	7	2 1/4"	5

Smooth Jaw Tongue & Groove Pliers



- Smooth jaws for non-marring surfaces (PVC, chromes, etc.)
- Undercut tongue and groove-won't slip
- Comfort grips

CHAN NEL LOCK

PART NO.	CHANNEL LOCK NO.	LENGTH	NO. ADJ.	CAPACITY	CTN QTY
J40406	415	10"	7	2"	5

Long Nose Pliers



- Side cutter
- Polished high carbon drop forged steel
- Comfort grips

CHAN NEL LOCK

J40412

J40414

PART NO.	CHANNEL LOCK NO.	DESCRIPTION	CTN QTY
J40412	326	6" long nose plier	5
J40414	317	7 1/2" long nose plier	5

4 in 1 Screwdriver



- Alloy tool steel bits
- Ground and polished
- Heat treated for maximum strength
- High impact handle
- Floating ball bearing for tight fit

S41001 - 12 pk Display

PART NO.	DESCRIPTION	CTN QTY
S41001	Phillips and slotted	12
S41002	Slotted bit for 4 in 1 or 6 in 1	1
S41003	Phillips bit for 4 in 1	1

6 in 1 Screwdriver



- Shaft ends are 1/4" and 15/16" hex size for use as nut drivers
- Each bit has two sizes

S41006 - 12 pk Display

PART NO.	DESCRIPTION	CTN QTY
S41006	6 in 1 screwdriver	12
S41002	Slotted bit for 4 in 1 or 6 in 1	1
S41007	Phillips bit for 6 in 1	1

Spanner Screwdriver



- Notched for removing screws
- Heavy industrial handle with spanner holes
- Hardened steel tip

PART NO.	DESCRIPTION	CTN QTY
S41010	# 12 spanner remover	1

Screwdriver For # 8 And # 10 Screws



- One-Way for removing
- Heavy industrial handle #8 and #10 screws
- Hardened steel tip

PART NO.	DESCRIPTION	CTN QTY
S41012	#8 and #10 remover	1

Scratch Awl



PART NO.	DESCRIPTION	CTN QTY
S06020	Scratch Awl	10

Magnetic Power Nut Setters



- 1/4" hex shaft

PART NO.	DESCRIPTION	CTN QTY
S41300	1 3/4" long 1/4" head size	10
S41301	1 3/4" long 5/16" head size	10
S41302	2 9/16" long 1/4" head size	10
S41303	2 9/16" long 5/16" head size	10

Nut Driver



PART NO.	DESCRIPTION	CTN QTY
S06014	3/16" Nut driver	10
S06015	1/4" Nut driver	10
S06016	5/16" Nut driver	10
S06017	3/8" Nut driver	10
S06018	7/16" Nut driver	10
S06019	1/2" Nut driver	10

Bit Holders



- For insert type bits
- Magnetic

PART NO.	DESCRIPTION	CTN QTY
S41307	1/4" drive x 3" long	10

Phillips Bits



Insert Type

PART NO.	DESCRIPTION	CTN QTY
S41306	#2 point 1/4" hex 1" long	10

Long Insert Type

PART NO.	DESCRIPTION	CTN QTY
S41308	# 2 point 1/4" hex 11 5/16" long	10

Putty Knives



PART NO.	DESCRIPTION	CTN QTY
K50015	1 1/4" putty knife	1
K50016	3" putty knife	1

Lumber Crayon



- Fade-proof, waterproof and smear-proof
- Will work on wet or dry wood, metal and concrete
- 4 1/2" long by 1/2" diameter
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
J40350	Black lumber crayon	12
J40351	Yellow lumber crayon	12
J40352	Red lumber crayon	12
J40353	Blue lumber crayon	12

Carpenters Pencil



- Flat black lead makes wood marking crisp and accurate
- Long-lasting and easy sharpening

PART NO.	DESCRIPTION	CTN QTY
J40360	Carpenters pencil	12

Carpenters Pencil Sharpener



- Suitable for all kind of carpenter's pencils
- Candy jar display (60 ct.)

PART NO.	DESCRIPTION	CTN QTY
J40361	Carpenters pencil sharpener	60

Marking Products



- High-performance industrial marking products
- Permanent paint
- Quick drying



PART NO.	DESCRIPTION	CTN QTY
J40330	Dura Ink 15 Marker Red	72
J40331	Dura Ink 15 Marker Black	72
J40332	Dura Ink 25 Marker Black	48
J40333	Dura Ink 55 Marker Red	48
J40334	Dura Ink 55 Marker Black	48
J40335	Dura Ink 200 Marker Black	24
J40336	Paint Marker White	48
J40337	Paint Marker Yellow	48
J40338	Paint Marker Red	48
J40339	Paint Marker Black	48
J40340	Paint Marker Blue	48
J40341	Paint Marker Display	1
J40342	Round Counter Display Black	1
J40343	Round Counter Display Red/Black	1

Industrial Choice Precision-Line Inverted Marking Paint



- Features a distance tip for easy-to-read, bright, vivid markings
- Marks more linear feet than the competition
- Virtually no overspray
- Fast-drying and non-clogging
- Can be applied down to 25°F
- Dries in 5 minutes or less
- Easy-to-use, spray through cap guaranteed not to clog
- "No Mess" spray tip keeps paint off finger
- Locking tip keeps tip from popping off
- Best resistance to premature chalking and fading
- CARTON QUANTITIES ONLY
- GROUND TRANSPORTATION ONLY

PART NO.	DESCRIPTION	CTN QTY
J40380	White marking point	12
J40381	Yellow marking point	12
J40382	Red marking point	12
J40383	Blue marking point	12
J40384	Green marking point	12
J40385	Orange marking point	12
J40387	Pink marking point	12

Paint Spotter Hand-Help Wand



- For quick, easy one-hand application of marking point

PART NO.	DESCRIPTION	CTN QTY
J40386	Paint spotter	1

Steel Nipple Caddy Tray



- Steel construction
- Baked epoxy finish
- Push away handles
- Nipple storage range (close-6")

PART NO.	SIZE	DIMENSIONS	CAPACITY	CTN QTY
N70050	1/2"	10 1/2" x 7" x 6 1/2"	77 pieces	1
N70075	3/4"	12 1/2" x 7" x 6 1/2"	66 pieces	1
N70016	1"	14 1/8" x 7 3/4" x 6 1/2"	50 pieces	1
N70020	1 1/4"	18" x 8" x 6 1/2"	40 pieces	1
N70024	1 1/2"	19 1/2" x 6 1/2" x 6 1/2"	30 pieces	1
N70032	2"	23 7/8" x 8 1/2" x 6 1/2"	27 pieces	1

1/2" & 3/4" Combo Nipple Caddy



- Holds 39 1/2" x close-6"
- Holds 33 3/4" x close-6"
- Steel construction with baked epoxy finish
- Fold over handle

PART NO.	DIMENSIONS	DESCRIPTION	CTN QTY
N70575	12 1/8" x 7" x 6 1/2"	Combo Caddy	1

Fitting Tote Tray



- Excellent for copper and PVC fittings
- Steel construction with baked epoxy finish
- Inside compartments measure 4 7/8" x 4 7/8" x 3 7/8"
- 8 compartments
- Fold over handle

PART NO.	DIMENSIONS	DESCRIPTION	CTN QTY
N70500	20" x 10 1/2" x 5"	Fitting Caddy	1

Plastic Nipple Caddy



- High impact plastic
- Strong and lightweight
- Will not rust or corrode
- Nipple storage range (close-6")

PART NO.	SIZE	DIMENSIONS	CAPACITY	CTN QTY
N70150	1/2"	11" x 7 1/2" x 6 1/2"	77 pieces	4
N70175	3/4"	13 1/4" x 7 7/8" x 6 1/2"	66 pieces	4
N70200	1"	14 3/4" x 8 1/8" x 6 1/2"	50 pieces	4
N70250	1 1/2"	21" x 7" x 6 1/2"	30 pieces	2
N70300	2"	23 1/4" x 8 1/2" x 6 1/2"	27 pieces	2

Utility Tote Tray



- Lightweight, durable, high impact plastic

PART NO.	DIMENSIONS	DESCRIPTION	CTN QTY
T60100	10" x 15" x 5"	Tote tray	12

Tool Totes



T60121



T60122



T60123



T60124

- High density polyethylene construction resistant to acids, chemicals, oils and glues
- Removable dividers
- Reinforced metal handle
- Made in the U.S.A.

MADE IN THE
USA

PART NO.	DESCRIPTION	CTN QTY
T60121	12" x 24" x 6" deep tray with 4 dividers	5
T60122	9" x 15" x 5" deep tray with 4 dividers	10
T60123	9" x 15" x 3" deep tray with 4 dividers	10
T60124	12 1/2" x 18" x 4 1/2" deep tray	5
T60125	Extra dividers for T60121	4
T60126	Extra dividers for T60122	4
T60127	Extra dividers for T60123	4

Bucket Caddies



T60101 Red Bucket with Black Lid and Trays



T60103



T60104



T60108

- 5 gallon high-impact red plastic bucket holds 4 combinations of trays- 3 large; 6 small; 1 large with 4 small; and 2 large with 2 small
- All trays have 4 sections; use tray subdividers to increase small tray capacity up to 8 sections
- Tool apron fits 5 and 3 1/2" gallon buckets; apron straps on or can be permanently secured (hardware included)
- Made in the U.S.A.

MADE IN THE
USA

PART NO.	DESCRIPTION	CTN QTY
T60101	5 gallon bucket with 6 small trays	8
T60102	5 gallon bucket with 1 large tray & 4 small trays	8
T60103	Large trays (4 1/2" deep)	3
T60104	Small trays (2 1/2" deep)	6
T60105	Lid for 5 gallon bucket	1
T60106	5 gallon bucket only	1
T60107	Subdividers for small trays (4 pack)	1
T60108	20-pocket tool apron	1
T60110	5 gallon bucket with 2 large and 2 small trays	1
T60111	5 gallon bucket with 3 large trays	1

Work Gloves

BROWN JERSEY GLOVE

- 100% Brown cotton
- One size fits all
- Knit wrist
- 8 ounce



G50200
G50210

LEATHER PALM WORK GLOVE

- Split leather palm, thumb, fingers and knuckle
- 100% cotton back and liner
- Safety cuff



G50204
G50214

COTTON GLOVES

with Rubber Grippers or Palms

- Durable 100% cotton canvas
- No-slip grip dots or rubber on palm and fingers
- One size fits all
- Knit wrist



G50205
G50206

DRIVERS' STYLE LEATHER GLOVES

- Durable and long lasting - conforms to your hand with time
- Grain leather glove
- Elastic cuff



G50208
G50218

• CARTON QUANTITIES ONLY

Carded for Display (Priced per Pair)

PART NO.	DESCRIPTION	CTN QTY
G50200	Brown cotton jersey	12
G50204	Leather palm low safety cuff	12
G50208	Drivers' style leather	12

Display Carton Display-Each pair carded (Priced per Pair)

PART NO.	DESCRIPTION	CTN QTY
G50210	Brown cotton jersey	216 pair
G50214	Leather palm low safety cuff	96 pair
G50218	Drivers' style leather	48 pair

Special Use Gloves-Bulk Only (Priced per Pair)

PART NO.	DESCRIPTION	CTN QTY
G50205	White cotton with rubber grippers	12
G50206	White cotton with rubber palms	12

All Purpose Latex Palm/Mesh Back Gloves



- Durable
- Excellent in wet conditions
- Protects hands during rugged jobs
- CARTON QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
G50202	Latex palm/mesh back gloves	12

Vinyl Gloves



- 5 mil.
- One size fits all
- Lightly powdered
- 100 reversible gloves (50 pair)

PART NO.	DESCRIPTION	CTN QTY
G50250	100 vinyl gloves	1

Vinyl Disposable Gloves



- One size fits all
- Ready to Hang or Place on Shelf
- Rolled cuff
- Lightly powdered for easy on and off

PART NO.	DESCRIPTION	CTN QTY
G50251	20 pack disposable gloves	20

Nemesis® Safety Glasses



Display



- Soft-touch temples
- Light weight construction
- Single-lens wrap-around protection
- 99.9% UV resistant
- Meets ANSI Z87.1 + standards

Glasses

PART NO.	DESCRIPTION	CTN QTY
G30011	Nemesis® Clear	12
G30012	Nemesis® Smoke Mirror	12
G30013	Nemesis® Blue Mirror	12
G30014	Nemesis® Camo/Bronze	12

Display

PART NO.	DESCRIPTION	CTN QTY
G30000	Includes: 12 pair Smoke Mirror, 6 pair Blue Mirror, 6 pair Clear, Free Display	1
G30030	Includes: 12 pair Camo/Bronze, Free Display	1

Hellraiser Safety Glasses



Clear



Smoke



Blue Mirror

PART NO.	DESCRIPTION	CTN QTY
G30015	Hellraiser clear safety glasses	12
G30016	Hellraiser smoke safety glasses	12
G30017	Hellraiser blue mirror safety glasses	12

Visio Safety Glasses



- One-piece frame
- Adjustable temples
- Sleek, lightweight and comfortable
- Meets ANSI z87.1

PART NO.	DESCRIPTION	CTN QTY
G30003	Visio clear safety glasses	12
G30004	Visio blue mirror safety glasses	12
G30005	Visio silver indoor/outdoor glasses	12

Clear Safety Goggles



- Direct ventilation
- Economical protection

PART NO.	DESCRIPTION	CTN QTY
G30001	Clear safety goggles	200

Dust Masks



- Disposable
- Non-toxic

PART NO.	DESCRIPTION	CTN QTY
G30021	Dust mask	50/box

Safety Face Shield With Headgear



- High performance ratchet headband
- Crown assembly pivots up
- Low-riding nape strap for firm fit

PART NO.	DESCRIPTION	CTN QTY
G30008	Safety face shield with headgear	10

Safety Hats



- Fits sizes 6 1/2- 8
- Meets ANSI z89.1 requirement
- Short peak design creates greater upward visibility
- Comfortable 4-point suspension with terrycloth sweatbands
- Low nape strap and rain trough features
- Universal slots to accommodate hearing, welding and face shield accessories

PART NO.	DESCRIPTION	CTN QTY
H40001	Yellow with 4-point pin lock suspension	12
H40002	White with 4-point pin lock suspension	12
H40003	Yellow with 4-point ratchet suspension	12
H40004	White with 4-point ratchet suspension	12

Knee Pads



K01120



K012000

- Lightweight and water-resistant
- Comfortable while kneeling, standing or walking
- Won't pinch or bind behind knee
- Soft, breathable inner lining for coolness and comfort
- Velcro closures on straps
- Heavy duty knee cap on K012000

PART NO.	DESCRIPTION	CTN QTY
K01120	Heavy duty foam economy	1 pair
K012000	Heavy duty knee cap	1 pair

Ready Fit Corded Ear Plugs



- Display box included

PART NO.	DESCRIPTION	CTN QTY
E85000	Ready fit corded ear plugs	100

Hornet & Wasp Spray



- Long range spray- shoots a stream up to 20 feet, reaching nests far above ground, letting you keep a comfortable distance from the nest
- Contains no CFCs which deplete the ozone layer
- GROUND TRANSPORTATION ONLY
- CARTON QUANTITIES ONLY
- ORM-D

PART NO.	DESCRIPTION	CTN QTY
J40393	20 oz. can hornet & wasp spray	12

Cable Ties



Natural Color



Black

- Standard size
- CARTON QUANTITIES ONLY
- Nylon

Natural Color		
PART NO.	DESCRIPTION	CTN QTY
J40107	7" long (1/16" - 1 3/4")	100
J40111	11" regular (1/16" - 3")	100
Black		
PART NO.	DESCRIPTION	CTN QTY
J40115	15" (5/16")	100

Cable Tie Assortment



- 400 pieces in kit: 100 pieces of 11", 100 pieces of 7", 200 pieces of 4"

PART NO.	DESCRIPTION	CTN QTY
J40108	Cable tie assortment	1

Duct Straps



- HVAC application
- CARTON QUANTITIES ONLY
- Natural nylon
- Up to 10" diameter

PART NO.	DESCRIPTION	CTN QTY
J40134	34" Duct straps	50

Heavy Duty Utility Straps



- Made in the USA
- Plated S-hooks
- Meets or exceeds ASTM standards
- CARTON QUANTITIES ONLY
- Weather and wear resistant

MADE IN THE
USA

PART NO.	DESCRIPTION	CTN QTY
S20015	15" Heavy duty utility strap	25
S20021	21" Heavy duty utility strap	25
S20031	31" Heavy duty utility strap	25
S20041	41" Heavy duty utility strap	25

Ratchet Tie Down Strap



- 1" wide/400 lb. working load limit
- Comfort grip handles
- Weather and corrosion resistant
- PVC coated hooks that will not scratch
- Cut and abrasion resistant webbing

PART NO.	DESCRIPTION	CTN QTY
S20300	1" x 16' Ratchet tie down strap	1

Camouflage Strap With Hooks



- 1" wide/300 lb. working load limit
- 2 hooks included with each strap; pack of 4 ratchet straps

PART NO.	DESCRIPTION	CTN QTY
S20301	1" x 9' Camo strap with hooks	1

Ratchet Strap With Step Release J-Hooks



- 2" wide/ 3,333 lb. working load limit
- Step by step release action
- Gradually releases tension with double J-hook
- Flex grip handle

PART NO.	DESCRIPTION	CTN QTY
S20302	2" x 27' Ratchet strap with step release J-hooks	1

Cam Strap



- 1" wide / 750# test nylon straps
- All colored straps and threads are UV resistant
- Straps are secured by a heavy duty zinc plated metal cam buckle, which will not slip even in wet conditions
- Ideal for handling loads for all kinds of contractor needs
- Call for details about Cam Strap Display
- S20999 Display includes: One 2' x 2' peg board, Six peg hooks and reorder cards, 1 Display header card, Includes an assortment of 72 straps

PART NO.	DESCRIPTION	CTN QTY
S20100	1" x 2' Black	12
S20101	1" x 4' Red	12
S20102	1" x 6' Yellow	12
S20103	1" x 8' Green	12
S20104	1" x 10' Blue	12
S20105	1" x 12' Purple	12
S20106	1" x 20' Black	12
S20999	Cam Straps Display	1

Twin Packs

PART NO.	DESCRIPTION	CTN QTY
S20200	1" x 2' Black - Twin Pack	1
S20201	1" x 4' Red - Twin Pack	1
S20202	1" x 6' Yellow - Twin Pack	1
S20203	1" x 8' Green - Twin Pack	1
S20204	1" x 10' Blue - Twin Pack	1

3-N-1 Tubing Bender



- For 1/4", 5/16" or 3/8" tubing

PART NO.	DESCRIPTION	CTN QTY
T50001	3-N-1 tubing bender	1

Spring Tubing Bender



- Spring prevents collapse of the wall at bending point
- Allows fast free-form bending of soft copper and aluminum tube

PART NO.	DESCRIPTION	CTN QTY
J41030	3/8" spring tubing bender	1
J41031	1/2" spring tubing bender	1
J41032	5/8" spring tubing bender	1

WD-40® Lubricant



- Cleans
- Protects against rust and corrosion
- Lubricates
- ORM-D
- Penetrates stuck metal parts
- CARTON QUANTITIES ONLY
- Displaces moisture
- GROUND TRANSPORTATION ONLY

PART NO.	DESCRIPTION	CTN QTY
S95700	8 oz. can lubricant	12

Neon Chalk Lines



Starrett®

- Push-button line release
- Can be used as a plumb bob
- 3 1/2 times faster reel

PART NO.	DESCRIPTION	CTN QTY
J40090	100' orange chalk line	6
J40092	8 oz. blue chalk	6

Soap Stones And Holders



- ROUND- Pen size lightweight aluminum holder with built-in chuck
- FLAT- Stainless steel spring tension with locknut
- Soap stones sold in carton quantities only

PART NO.	DESCRIPTION	CTN QTY
J40060	Round soap stone holder	6
J40061	Flat soap stone holder	6
J40062	Round soap stone	144/box
J40063	Flat soap stone	144/box

Brass Plumb Bob



- Solid brass
- Removable tip

PART NO.	DESCRIPTION	CTN QTY
J42008	8 oz. brass plumb bob	1
J42012	12 oz. brass plumb bob	1

Garden Hoses



- G04001:
- 500 PSI burst strength
- Kink-free construction
- Heavy-duty solid brass nickel plated coupling
- Built-in spring at faucet end to prevent hose damage
- Nylon reinforced

- G04002 and G04000:
- 300 PSI burst strength
- Solid brass couplings
- Reinforced green nylon construction

PART NO.	DESCRIPTION	CTN QTY
G04001	5/8" x 60' (500 PSI) garden hose	6
G04002	5/8" x 50' (300 PSI) garden hose	6
G04000	5/8" x 75' (300 PSI) garden hose	6

Caution Tape



- Black print on safety yellow
- 3 mil thickness

PART NO.	DESCRIPTION	CTN QTY
J43300	3" x 300'	10
J43310	3" x 1000'	6

Gas Line Marking Labels



- Yellow self adhesive stickers
- Clearly identifies gas lines from other utility and water lines
- 100 labels per roll

PART NO.	DESCRIPTION	CTN QTY
J40481	2 PSI gas line stickers	1
J40482	Gas line stickers	1

E-Z Light



- Extendable for lighting flames from a distance
- Safe and convenient for torch, fireplace, or any hard-to-reach area

PART NO.	DESCRIPTION	CTN QTY
J40450	E-Z Light	1

E-Z Reach



- Extendable, magnetized arm for easy retrieval of small metal parts
- Great for shop or job site

PART NO.	DESCRIPTION	CTN QTY
J40451	E-Z Reach	1

24" Grab-It Tool



- Makes hard-to-reach areas accessible using retractable fingers

PART NO.	DESCRIPTION	CTN QTY
J40020	24" Grab-it tool	6

Steel Wool



- Packaged 16 pads per bag, 12 bags per carton
- Priced per bag

PART NO.	DESCRIPTION	CTN QTY
B29300	Size 00 steel wool	12
B29310	Size 0 steel wool	12

Copper Cleaning Pads



- Reusable
- Use wet or dry - will not clog
- Nylon impregnated fine maroon
- Good general cleaner for removing rust, corrosion, etc.
- Deoxidizes and cleans copper tube and fittings for soldering
- CARTON QUANTITIES ONLY

PART NO.	SIZE	CTN QTY
B29400	4" x 6 1/4" x 1/4"	10

Acid Brushes



- Tin handle
- CARTON QUANTITIES ONLY

PART NO.	SIZE	CTN QTY
B29700	3/8" x 6"	144
B29701	1/2" x 6"	144
B29702	9/16" x 6"	144
B29699	1/4" x 3"	144

Paint And Dope Brush



- Natural bristles
- CARTON QUANTITIES ONLY
- Ideal for use with pipe cleaners, thread cutting oil, paint, pipe dope

PART NO.	SIZE	CTN QTY
B29801	1"	36
B29802	2"	24

Wire Brush



- For cleaning rough surfaces
- Stiff steel wire bristle
- Polished hardwood handle
- CARTON QUANTITIES ONLY

PART NO.	SIZE	CTN QTY
B29900	1"	6

Magnetic Polycast Post Level



- Magnetic edge and stretchable strap make this level easy to use
- Quickly and accurately establish level or plumb on posts and pipes
- Made of sturdy polycast material

PART NO.	DESCRIPTION	CTN QTY
J40103	Magnetic polycast post level	6

Torpedo Level



- Manufactured to rigid requirements
- Professional quality
- Aluminum construction
- Magnetic sides
- 7 1/2" length

EMPIRE

PART NO.	DESCRIPTION	CTN QTY
J40100	Torpedo level	1

Cast Magnetic Level with Front Vial Viewer



- Saves time and money
- Eliminates neck and back strain
- Large solid acrylic vials
- Magnetic
- Epoxy set vials
- V-groove for pipes
- Accuracy: 0.5 mm / M-0.029
- Integrated Euroslot hanging hole

PART NO.	DESCRIPTION	CTN QTY
J42100	Cast iron magnetic level	1

Plastic Magnetic Level



- Has front vial viewer
- Saves time and money
- Eliminates neck and back strain
- Internal aluminum frame for accuracy and strength
- Magnetic
- Integrated Euroslot hanging hole

PART NO.	DESCRIPTION	CTN QTY
J42101	10" Plastic magnetic level	1

Top Grade Gradient Level



- The ultimate plumbing level
- Set accurate slopes of 1 and 2 percent
- Includes conversion of pitch and slope
- Accuracy: 0.5mm/ M-0.029" on all vials
- Length: 60cm/24"
- U.S. patent 6,209,211

PART NO.	DESCRIPTION	CTN QTY
J42200	24" length gradient level	1

Industrial Swivel-Lite Flashlights



F20016



F20017

- Contractor grade construction
- Sure grip rubber handles

PART NO.	DESCRIPTION	CTN QTY
F20016	Flashlight for AA batteries	6
F20017	Flashlight for D batteries	6

Rayovac Floating Lantern & Battery



F20003



F20004



F20005

- 6-volt F20004 battery included
- Heavy duty battery priced each

PART NO.	DESCRIPTION	CTN QTY
F20003	Floating lantern with battery	1
F20004	6 volt spring top - battery only	12
F20005	6 volt screw top - battery only	12

Rayovac Industrial Flashlights



- Yellow flashlights with ring hangers

PART NO.	DESCRIPTION	CTN QTY
F20001	2 cell D size flashlight	6
F20002	3 cell D size flashlight	6

4 D/6 Volt Swivel-Lite



- Contractor grade construction
- Krypton bulb, spare bulb holder
- Floats in water (with beam up)
- Long range beam
- 45° swivel for hands-free use
- Comfort-grip handle, push-button switch
- No batteries included
- Can use 6V lantern battery for additional power

PART NO.	DESCRIPTION	CTN QTY
F20018	4D/ 6-Volt Swivel-Lite	1

Sportsman L.E.D. Head-Lite



- New technology unique 3-way hands-free L.E.D. system
- Close range use super white L.E.D., "Night vision" 2 super red L.E.D., Long range beam-krypton bulb
- Batteries last 20 times longer with L.E.D. bulbs than normal bulbs
- Rubber spot-flood reflector, head rotates 180° compact design, comfort-grip band
- Weatherproof, heavy duty construction

PART NO.	DESCRIPTION	CTN QTY
F20019	Sportsman L.E.D. Head-Lite	1

Rayovac Heavy Duty Industrial Batteries



- List price is for each battery
- PACK QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
F20006	Heavy duty C batteries	6
F20007	Heavy duty D batteries	6

Rayovac Heavy Duty Alkaline Industrial Batteries



- List price is for each battery
- PACK QUANTITIES ONLY

PART NO.	DESCRIPTION	CTN QTY
F20012	AAA alkaline batteries	8
F20008	AA alkaline batteries	6
F20009	9 volt alkaline batteries	6
F20010	C alkaline batteries	6
F20011	D alkaline batteries	6

Flashlight Replacement Bulbs



- Two bulbs per card

PART NO.	DESCRIPTION	CTN QTY
F20013	Bulb for F20001	1
F20014	Bulb for F20002	1
F20015	Bulb for F20003	1

Cutting Oil



- Medium brown color

PART NO.	DESCRIPTION	CTN QTY
J45005	Premium all-purpose oil (gallon)	6

Gatorade



- Powder

PART NO.	DESCRIPTION	CTN QTY
G90001	2.5 gal. Lemon Lime Gatorade	32
G90002	2.5 gal. Orange Gatorade	32

Leak Alert Water Detector



- Loud alarm sounds with direct water contact
- Floats and signals for up to 72 hours
- Fully automatic operation - no wiring required
- Low battery indicator for optimum safety and performance

PART NO.	DESCRIPTION	CTN QTY
L95400	Leak alert water detector	1

2CanCaddy™	82	C	
3-N-1 Tubing Bender	103	Cable Saws	91
45 Deg Ell, Banded	21	Cable Ties	102
45° Elbow	32	Assortment	102
45° Flare Tube Fittings	29	Caddies, Bucket	100
45° Street Elbow	32	Caddy Tray	100
45 Street Ell, Banded	21	Camouflage Strap With Hooks	103
90 Deg Elbow, Banded	20	Cam Strap	103
90 Deg Reducing Elbow, Banded	21	Cap	15, 19, 27, 29, 32, 40
90° Elbow	32	Test	13
90° Male Elbow	32	Carpenters Pencil	99
90° Street Elbow	32	Sharpener	99
90 Street Ell, Banded	21	Cast DWV Solder Fittings	17
A		Cast Magnetic Level with Front Vial Viewer	105
Acid Brushes	104	Caulk	82
Acrylic Caulk	83	Acrylic Tub And Tile	83
Acrylic Tub And Tile Caulk	83	Hi-Temp Red Silicone	83
Adapter	38, 39	Latex	83
Female	10, 13, 15, 38	PlumBest Silicone	82
Fitting C.O. Adapter, w/Plug	38	Siliconized Acrylic	83
Fitting Female	10	Caulking Gun	83
Hose	10	Caution Tape	104
Male	10, 13, 15, 38	Chalk Lines, Neon	103
Soil Pipe	15	Check Valves	60
Adhesive	82-84	Clamp	53
Adhesive, Plumber's Goop	82	Cleaners	86
Air Pump	88	Cleanout Tee	42
Economy	88	Cleanout Test Tee	41
Aluminum Elbow and Pipe	77	Close Nipple	33
Awl, Scratch	98	Combo Log Lighter Valves	62
B		Compression Branch Tee	27
Bags, Trash	86	Compression Cap	27
Ball Valves	36, 59, 59-60	Compression Connector	28
Bar	93	Compression Elbow	28
Digging/Tamping	93	Compression Fittings	28
Gooseneck Wrecking	93	Compression Nuts	27
Utility Pry	93	Compression Sleeve	27
Baseboard Tee	12	Compression Tee	27
Bathroom Fan Vent Kit	78	Compression Union	27
Batteries	106	Compression x Sweat Adapter	28
Bell Reducer	32	Condensate Traps	42
Black & Galvanized Malleable Fittings	19	Connector	28
Black & Galvanized Pipe Nipples	24	Copper	88
Black & Galvanized ReadyCut Pipe	26	4-N-1 Tube Fitting Brush	88
Bottle, Spray	86	Cleaning Pads	104
Box of Rags	86	Coil	1
Box Sealing Tape	81	Coupling	9
Box Wrench	87	Ell	9
Branch Tee	27, 29	Female Tube Brush	88
Brass Compression Fittings	27, 28	Fitting Brush	88
Brass Compression Insert	27	Reducer	9
Brass Gas Ball Valves	56	Sizing Tool	94
Brass Hose Barbs	34	Swedge Tool	94
Brass Needle Valve	63	Tee	9
Brass Needle Valves	63	Wrot/ACR Solder Joint Fittings	9
Brass PEX	35	Copper Clad Nail	53
Brass Plumb Bob	103	Copper Cleaning Pads	104
Brass Saddle Clamp	63	Copper Fitting Brush	88
Brazing Rod	82	Copper Sizing Tool	94
Brush	88	Copper Swedge Tool	94
4-N-1 Copper Tube Fitting	88	Copper Thermocouple	78
Acid	104	Copper Tube Cutter	90
Copper Fitting	88	Countersunk Plug	33
Female Copper Tube	88	Coupling	13, 16, 30, 32, 35, 37, 38
Paint And Dope	104	Drain, with Cap	10
Wire	105	Less Stop	13
Brushes	104	Reducing	9
Bucket Caddies	100	With Stop	13
Bulbs, Flashlight Replacement	106	Coupling, Banded	19
Bushing	10, 17	CPVC Ball Valves	59

Crimping Tools.....	94
Pex Crimp Set.....	36, 94
Polybutylene.....	94
Crimp Ring.....	36
Cross.....	10
Cross, Banded.....	20
Curb Box Wrench.....	87
Curved Jaw Tongue & Groove Pliers.....	98
Cutting Oil.....	106

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Deburring Tool.....	94
Delrin Compression Sleeve.....	27
Dielectric Nipple.....	51
Dielectric Union.....	51
Flanged.....	51
Gasket and Insert.....	51
Digging/Tamping Bar.....	93
Disposable.....	101
Vinyl Gloves.....	101
Double 90 Deg Elbow.....	40
Double Fixture Tee.....	41
Double Long Turn T-Y.....	18
Double Sanitary Tee.....	42
Double Wye.....	18, 40
Drain Cock.....	58
Drain Cock Tank Valve.....	58
Drain Coupling.....	10
Drill Bits.....	95
Carbide Tipped Masonry.....	95
Straight Shank.....	96
Drop Cloth, Plastic.....	86
Drop Tee.....	11
Dryer Repair.....	77
Aluminum Ducting.....	77
Flexible Aluminum.....	77
Flexible Aluminum Foil.....	78
Proflex Aluminum Foil.....	78
Aluminum Elbow and Pipe.....	77
Flexible Duct Connector Kit.....	77
Increaser/Decreaser.....	77
Vent.....	77
Aluminum Hood.....	77
Clamp for Dryer Vent Kit.....	77
Complete Dryer Vent Kit.....	77
Dryer Vent Hood.....	77
Dryer Vent Hose.....	78
Dryer Vent Kit w/Louvered Hood.....	78
Indoor Dryer Vent Kit.....	78
Louvered Dryer Vent Hood.....	77
Metal Clamp for Dryer Vent.....	77
White Back Collar for Dryer Vent Kits.....	77
Dryer Vent Hood.....	77
Dryer Vent Kit.....	78
Drywall Saw.....	91
Duct Hanger.....	54
Ducting.....	78
Duct Straps.....	102
Duct Tape.....	81
Dust Masks.....	102

E	
Ear Plugs, Ready Fit Corded.....	102
Economy Hose Bibb Vacuum Breaker.....	60
Elbow.....	28, 30, 32, 37, 38, 39, 40
Electrical Tape.....	81
Ell.....	10, 11, 13, 14, 16, 17, 20, 35, 36
11 1/4°.....	17
22 1/2°.....	16
45°.....	9, 11, 14, 16
Street.....	9, 14
60°.....	16

90°.....	10, 11, 13, 16
Drop.....	11
Flanged Sink.....	11
Hi-Ear.....	11
Long Turn.....	13
Short Turn Street.....	9
Street.....	14, 16
with Drain Cap.....	10
Epoxy Putty.....	82
Equal Tee.....	35
Extended Bushing.....	17
Extension Piece.....	19
E-Z.....	104
Light.....	104
Reach.....	104

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Face Bushing.....	33
Face Shield With Headgear, Safety.....	102
Female Adapter.....	10, 13, 15, 35, 38
Female Copper Tube Brush.....	88
Female Flare Swivel.....	29
Files.....	97
Fire Seal-136 Firestopping Caulk.....	83
Firestop 814+ Intumescent Firestopping Sealant.....	83
Firestopping Caulk.....	83
Firestopping Sealant.....	83
Fitting Cleanout.....	15
Fitting Cleanout, Flush.....	15
Fitting C.O. Adapter.....	39
Fitting Reducer.....	14
Flanged Sink Ell.....	11
Flare Elbow.....	30
Flare Tees.....	29
Flare Union.....	29
Flare x FIP Coupling.....	30
Flare x MIP Branch Tee.....	29
Flare x MIP Half Union.....	30
Flaring Tools.....	94
Swing Release.....	94
Flashlights.....	105
Industrial Swivel-Lite.....	105
Rayovac Industrial.....	105
Replacement Bulbs.....	106
Flexible Aluminum Ducting.....	77
Flint Striker.....	85
Three Flint Friction Lighter.....	85
Floating Lantern & Battery.....	105
Floor Flange.....	21
Flush Bushing.....	10, 38
Flush Fitting Cleanout.....	15
Flux Paste.....	82
Flux-Rite 90® Flux.....	82
Forged Brass & Cast Pressure Fittings.....	10
Full Clamp.....	53
Full Port Ball Valves.....	59

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Galvanized Malleable Fittings.....	19
Galvanized Pipe Nipples.....	24
Garden Hoses.....	104
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Gas Burners/Log Lighter Valves/Access.....	61-62
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Coated.....	
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3/8" OD with Ball Valves	65	For Drain Pipe System	52
3/8" OD with Fittings	64	K	
5/8" OD with Ball Valves	68	Knee Pads	102
5/8" OD with Fittings	66	Knives	92
Gas Heater Valves	55	Deluxe Autolock Snap	92
Gas Line Marking Labels	104	Putty	99
Gas Range Fittings	31	Snap	92
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Hellraiser	101	Latex Caulk	83
Nemesis	101	Leak Alert Water Detector	106
Visio	101	Levels	105
Gloves	101	Cast Magnetic, with Front Vial Viewer	105
All Purpose Latex Palm/Mesh Back	101	Magnetic Polycast Post	105
Vinyl	101	Plastic Magnetic	105
Vinyl Disposable	101	Top Grade Gradient	105
Work	101	Torpedo	105
Goggles, Clear Safety	101	Lock Nut	33
Grab-It Tool	104	Locknut/Backnut	22
Gradient Level, Top Grade	105	Log Lighter Burner Bars	61
Griplock Tongue & Groove Water Pump Pliers	97	Log Lighter Keys	62
H		Log Lighter Valves	61
Hacksaw	91	Log Lighter Valves with T-Burner	62
Blades	91	Long Flare Nut	29
Close Quarters	91	Long Nipple	33
PlumBest	91	Long Nose Pliers	98
Half Clamp	53	Long Sweep Elbow	39
Half Union	30	Long Turn Tee Wye	41
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Hose Barb Fittings	34	N	
Hose Barb Tee	34	Nails	53
Hose Bibb	60	Copper Clad Nail	53
Hose Bibb Reducer	60	Needle Valve	63
Hose Bibb Vacuum Breaker	60	Neon Chalk Lines	103
Hose Faucet Anchor	60	Nipple Caddy	
Hot Water Heater Pans	79	Combo	100
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Hydrostatic Pressure Pump	88	Steel Tray	100
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I		And Screw Extractors	95
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PEX Equal Tee.....	35	Power Ship Augers.....	95
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PEX Plug.....	36	Propane Cylinders.....	85
PEX Sweat Adapter.....	35	PTFE Thread Seal Tape.....	81
PEX Swivel Plastic Nut.....	35	PTFE Yellow Gas Line Thread Seal Tape.....	81
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Pick.....	93	With Cleanout.....	18
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30111	24	30712	24	31560	25	34055	25
30112	24	30715	24	31570	25	34060	25
30115	24	30720	24	31580	25	34070	25
30120	24	30725	24	31590	25	34080	25
30125	24	30730	24	32000	25	34090	25
30130	24	30735	24	32010	25	35000	25
30135	24	30740	24	32011	25	35045	25
30140	24	30745	24	32012	25	35050	25
30145	24	30750	24	32013	25	35055	25
30150	24	30755	24	32025	25	35060	25
30155	24	30760	24	32030	25	35070	25
30160	24	30765	24	32035	25	35080	25
30170	24	30770	24	32040	25	36000	25
30180	24	30775	24	32045	25	36010	25
30190	24	30780	24	32050	25	36011	25
30200	24	30790	24	32055	25	36012	25
30210	24	31000	24	32060	25	36040	25
30211	24	31010	24	32065	25	36045	25
30212	24	31011	24	32070	25	36050	25
30215	24	31012	24	32075	25	36055	25
30220	24	31014	24	32080	25	36060	25
30225	24	31020	24	32090	25	36070	25
30230	24	31025	24	32500	25	36080	25
30235	24	31030	24	32510	25	36090	25
30240	24	31035	24	32511	25	40200	25
30245	24	31040	24	32512	25	40300	25
30250	24	31045	24	32514	25	40500	25
30255	24	31050	24	32518	26	40700	25
30260	24	31055	24	32520	26	41000	25
30270	24	31060	24	32524	26	41200	25
30280	24	31065	24	32530	25	41500	25
30290	24	31070	24	32535	25	42000	25
30300	24	31075	24	32540	25	50100	24
30310	24	31080	24	32545	25	50110	24
30311	24	31085	24	32550	25	50111	24
30312	24	31090	24	32555	25	50112	24
30314	24	31095	24	32560	25	50115	24
30315	24	31200	24	32565	25	50120	24
30320	24	31210	24	32570	25	50125	24
30325	24	31211	24	32580	25	50130	24
30330	24	31212	24	32590	25	50135	24
30335	24	31213	24	33000	25	50140	24
30340	24	31214	24	33010	25	50145	24
30345	24	31220	24	33011	25	50150	24
30350	24	31225	24	33012	25	50155	24
30355	24	31230	24	33018	26	50160	24
30360	24	31235	24	33030	25	50170	24
30370	24	31240	24	33035	25	50180	24
30380	24	31245	25	33040	25	50190	24
30390	24	31250	25	33045	25	50200	24
30500	24	31255	25	33050	25	50210	24
30510	24	31260	25	33055	25	50211	24
30511	24	31265	25	33060	25	50212	24
30512	24	31270	25	33070	25	50215	24
30515	24	31280	25	33080	25	50220	24
30520	24	31285	25	33090	25	50225	24
30525	24	31290	25	33500	25	50230	24
30530	24	31295	25	33540	25	50235	24
30535	24	31500	25	33550	25	50240	24
30540	24	31510	25	33555	25	50245	24
30545	24	31511	25	33580	25	50250	24
30550	24	31512	25	34000	25	50255	24
30555	24	31514	25	34010	25	50260	24
30560	24	31520	25	34011	25	50270	24
30570	24	31525	25	34012	25	50280	24
30575	24	31530	25	34014	25	50290	24
30580	24	31535	25	34024	26	50300	24
30590	24	31540	25	34035	25	50310	24
30700	24	31545	25	34040	25	50311	24

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50312	24	51220	24	53080	25	162950390	14
50315	24	51225	24	53090	25	164100303	14
50320	24	51230	24	53550	25	164100398	14
50325	24	51235	24	54000	25	164100399	14
50330	24	51240	24	54010	25	164100663	14
50335	24	51245	25	54011	25	164100664	14
50340	24	51250	25	54012	25	164600390	13
50345	24	51255	25	54024	26	164600398	13
50350	24	51260	25	54035	25	164600665	13
50355	24	51270	25	54040	25	300 B0218	26
50360	24	51280	25	54045	25	300 B0224	26
50370	24	51290	25	54050	25	300 B0230	26
50380	24	51500	25	54055	25	300 B0236	26
50390	24	51510	25	54060	25	300 B0248	26
50500	24	51511	25	54070	25	300 B0260	26
50510	24	51512	25	54080	25	300 B0272	26
50511	24	51520	25	54090	25	300 B0318	26
50512	24	51525	25	56000	25	300 B0324	26
50515	24	51530	25	56010	25	300 B0330	26
50520	24	51535	25	56011	25	300 B0336	26
50525	24	51540	25	56012	25	300 B0348	26
50530	24	51545	25	56040	25	300 B0360	26
50535	24	51550	25	56045	25	300 B0372	26
50540	24	51555	25	56050	25	300 B0518	26
50545	24	51560	25	56055	25	300 B0524	26
50550	24	51570	25	56060	25	300 B0530	26
50555	24	51580	25	56070	25	300 B0536	26
50560	24	51590	25	56080	25	300 B0542	26
50570	24	52000	25	56090	25	300 B0548	26
50580	24	52010	25	161010295	13	300 B0554	26
50590	24	52011	25	161010390	13	300 B0560	26
50700	24	52012	25	161050215	13	300 B0572	26
50710	24	52025	25	161050295	13	300 B0718	26
50711	24	52030	25	161050390	13	300 B0724	26
50712	24	52035	25	161570050	13	300 B0730	26
50715	24	52040	25	161570100	13	300 B0736	26
50720	24	52045	25	161570150	13	300 B0742	26
50725	24	52050	25	161570215	13	300 B0748	26
50730	24	52055	25	161570295	13	300 B0754	26
50735	24	52060	25	161570390	13	300 B0760	26
50740	24	52070	25	161570650	13	300 B0772	26
50745	24	52080	25	161650215	13	300 B1018	26
50750	24	52090	25	161650295	13	300 B1024	26
50755	24	52500	25	161650303	13	300 B1030	26
50760	24	52510	25	161650390	13	300 B1036	26
50770	24	52511	25	161650398	13	300 B1042	26
50775	24	52512	25	161650399	13	300 B1048	26
50780	24	52518	26	161650650	13	300 B1054	26
50790	24	52524	26	161650663	13	300 B1060	26
51000	24	52530	25	161650664	13	300 B1066	26
51010	24	52535	25	161650860	13	300 B1072	26
51011	24	52540	25	161650872	13	300 B1218	26
51012	24	52545	25	161720215	13	300 B1224	26
51014	24	52550	25	161720295	13	300 B1230	26
51020	24	52555	25	161720390	13	300 B1236	26
51025	24	52560	25	161720650	13	300 B1242	26
51030	24	52570	25	161720860	13	300 B1248	26
51035	24	52580	25	162350215	13	300 B1254	26
51040	24	52590	25	162350295	13	300 B1260	26
51045	24	53000	25	162350390	13	300 B1272	26
51050	24	53010	25	162420295	13	300 B1518	26
51055	24	53011	25	162420390	13	300 B1524	26
51060	24	53012	25	162540215	14	300 B1530	26
51070	24	53030	25	162540295	14	300 B1536	26
51080	24	53035	25	162540390	14	300 B1542	26
51090	24	53040	25	162900215	14	300 B1548	26
51200	24	53045	25	162900295	14	300 B1554	26
51210	24	53050	25	162900390	14	300 B1560	26
51211	24	53055	25	162900650	14	300 B1572	26
51212	24	53060	25	162950215	14	300 B2018	26
51215	24	53070	25	162950295	14	300 B2024	26

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300 B2030	26	301 G1518	26	B144-0058	19	B165-0050	19
300 B2036	26	301 G1524	26	B144-0059	19	B165-0058	20
300 B2042	26	301 G1530	26	B144-0060	19	B165-0059	20
300 B2048	26	301 G1536	26	B144-0107	19	B165-0060	20
300 B2054	26	301 G1542	26	B144-0108	19	B165-0100	19
300 B2060	26	301 G1548	26	B144-0109	19	B165-0107	20
300 B2072	26	301 G1554	26	B144-0110	19	B165-0108	20
300 B2530	26	301 G1560	26	B144-0159	19	B165-0109	20
300 B2560	26	301 G1572	26	B144-0160	19	B165-0110	20
300 B3024	26	301 G2018	26	B144-0161	19	B165-0150	19
300 B3036	26	301 G2024	26	B144-0162	19	B165-0159	20
300 B4018	26	301 G2030	26	B144-0222	19	B165-0160	20
300 B4060	26	301 G2036	26	B144-0223	19	B165-0161	20
301 G0118	26	301 G2042	26	B144-0224	19	B165-0162	20
301 G0124	26	301 G2048	26	B144-0225	19	B165-0215	19
301 G0130	26	301 G2054	26	B144-0226	19	B165-0222	20
301 G0136	26	301 G2060	26	B144-0303	19	B165-0223	20
301 G0148	26	301 G2072	26	B144-0304	19	B165-0224	20
301 G0160	26	301 G3018	26	B144-0305	19	B165-0225	20
301 G0172	26	301 G3024	26	B144-0306	19	B165-0295	19
301 G0218	26	301 G4018	26	B144-0307	19	B165-0303	20
301 G0224	26	301 G4048	26	B144-0308	19	B165-0304	20
301 G0230	26	31210TOE	25	B144-0398	19	B165-0305	20
301 G0236	26	31212TOE	25	B144-0399	19	B165-0306	20
301 G0248	26	31215TOE	25	B144-0400	19	B165-0307	20
301 G0260	26	31510TOE	25	B144-0401	19	B165-0390	19
301 G0272	26	605B	26	B144-0402	19	B165-0398	20
301 G0318	26	605G	26	B144-0403	19	B165-0399	20
301 G0324	26	607B	26	B144-0531	19	B165-0400	20
301 G0330	26	607G	26	B144-0532	19	B165-0401	20
301 G0336	26	610B	26	B144-0533	19	B165-0402	20
301 G0348	26	610G	26	B144-0534	19	B165-0520	19
301 G0360	26	A11001	58	B144-0535	19	B165-0531	20
301 G0372	26	A11002	58	B144-0536	19	B165-0532	20
301 G0518	26	A11003	58	B144-0662	19	B165-0533	20
301 G0524	26	A11004	58	B144-0663	19	B165-0534	20
301 G0530	26	A11005	58	B144-0664	19	B165-0535	20
301 G0536	26	A11006	58	B144-0665	19	B165-0650	19
301 G0542	26	A11007	58	B144-0666	19	B165-0662	20
301 G0548	26	A11008	58	B144-0667	19	B165-0663	20
301 G0554	26	A11011	58	B144-0668	19	B165-0664	20
301 G0560	26	A11016	58	B144-0790	19	B165-0665	20
301 G0572	26	A11017	58	B144-0870	19	B165-0666	20
301 G0718	26	A95001	75	B144-0871	19	B165-0667	20
301 G0724	26	A95002	75	B144-0872	19	B165-0668	20
301 G0730	26	A95003	75	B144-0873	19	B165-0860	19
301 G0736	26	A95004	75	B144-0874	19	B165-0870	20
301 G0742	26	A95005	75	B144-0875	19	B165-0871	20
301 G0748	26	A95006	75	B144-0876	19	B165-0872	20
301 G0754	26	A95007	75	B144-1109	19	B165-0873	20
301 G0760	26	A95008	75	B144-1111	19	B165-0874	20
301 G0772	26	A95009	75	B155-0001	19	B165-0875	20
301 G1018	26	A95010	75	B155-0002	19	B165-1100	19
301 G1024	26	A95011	75	B155-0025	19	B165-1109	20
301 G1030	26	A95014	75	B155-0050	19	B165-1111	20
301 G1036	26	AB05	26	B155-0100	19	B195-0001	20
301 G1042	26	AB07	26	B155-0150	19	B195-0002	20
301 G1048	26	AB10	26	B155-0215	19	B195-0025	20
301 G1054	26	AG05	26	B155-0295	19	B195-0050	20
301 G1060	26	AG07	26	B155-0390	19	B195-0100	20
301 G1072	26	AG10	26	B155-0520	19	B195-0150	20
301 G1218	26	B05001	86	B155-0650	19	B195-0215	20
301 G1220	26	B05002	86	B155-0860	19	B195-0295	20
301 G1224	26	B05003	86	B155-0975	19	B195-0390	20
301 G1230	26	B05004	86	B155-1100	19	B195-0520	20
301 G1236	26	B05007	86	B165-0001	19	B195-0650	20
301 G1242	26	B05008	86	B165-0002	19	B195-0860	20
301 G1248	26	B10004	88	B165-0007	20	B20062	96
301 G1254	26	B144-0007	19	B165-0025	19	B20078	96
301 G1260	26	B144-0032	19	B165-0032	20	B20094	96
301 G1272	26	B144-0033	19	B165-0033	20	B20109	96

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B20125	96	B235-0402	21	B29076	88	B460-0007	23
B20141	96	B235-0520	20	B29100	88	B460-0025	22
B20156	96	B235-0531	21	B29125	88	B460-0032	23
B20172	96	B235-0532	21	B29150	88	B460-0033	23
B20188	96	B235-0533	21	B29200	88	B460-0050	22
B20203	96	B235-0534	21	B29300	104	B460-0056	23
B20219	96	B235-0535	21	B29310	104	B460-0057	23
B20234	96	B235-0536	21	B29375	88	B460-0058	23
B20250	96	B235-0650	20	B29400	104	B460-0059	23
B20266	96	B235-0662	21	B295-0001	21	B460-0060	23
B20281	96	B235-0663	21	B295-0002	21	B460-0100	22
B20297	96	B235-0664	21	B295-0025	21	B460-0105	23
B20313	96	B235-0860	20	B295-0050	21	B460-0106	23
B20328	96	B235-0870	21	B295-0100	21	B460-0107	23
B20344	96	B235-0871	21	B295-0150	21	B460-0108	23
B20359	96	B235-0872	21	B295-0215	21	B460-0109	23
B20375	96	B235-0975	20	B295-0295	21	B460-0116	23
B20391	96	B235-1100	20	B295-0390	21	B460-0117	23
B20406	96	B24050	95	B295-0520	21	B460-0118	23
B20422	96	B24056	95	B295-0650	21	B460-0150	22
B20438	96	B24063	95	B295-0860	21	B460-0156	23
B20453	96	B24075	95	B29625	88	B460-0157	23
B20469	96	B24081	95	B29699	104	B460-0158	23
B20484	96	B24088	95	B29700	104	B460-0159	23
B20500	96	B24100	95	B29701	104	B460-0160	23
B21075	95	B24113	95	B29702	104	B460-0161	23
B21087	95	B24125	95	B29801	104	B460-0162	23
B21100	95	B24150	95	B29802	104	B460-0169	23
B21112	95	B24375	95	B29875	88	B460-0170	23
B21125	95	B247-0215	20	B29900	105	B460-0171	23
B21150	95	B25001	86	B29999	88	B460-0180	23
B21625	95	B254-0001	21	B335-0050	19	B460-0181	23
B22050	95	B254-0002	21	B335-0100	19	B460-0182	23
B22075	95	B254-0025	21	B335-0150	19	B460-0215	22
B22087	95	B254-0050	21	B335-0215	19	B460-0220	23
B22100	95	B254-0100	21	B335-0295	19	B460-0221	23
B22112	95	B254-0150	21	B335-0390	19	B460-0222	23
B22125	95	B254-0215	21	B355-0001	21	B460-0223	23
B22150	95	B254-0295	21	B355-0002	21	B460-0224	23
B22625	95	B254-0390	21	B355-0025	21	B460-0225	23
B235-0001	20	B254-0520	21	B355-0050	21	B460-0233	23
B235-0002	20	B254-0650	21	B355-0100	21	B460-0234	23
B235-0007	21	B254-0860	21	B355-0150	21	B460-0235	23
B235-0025	20	B28025	88	B355-0215	21	B460-0236	23
B235-0032	21	B28050	88	B355-0295	21	B460-0237	23
B235-0050	20	B28051	88	B355-0390	21	B460-0245	23
B235-0058	21	B28075	88	B375-0001	22	B460-0246	23
B235-0059	21	B28076	88	B375-0002	22	B460-0247	23
B235-0060	21	B28100	88	B375-0025	22	B460-0248	23
B235-0100	20	B28125	88	B375-0050	22	B460-0256	23
B235-0107	21	B28150	88	B375-0100	22	B460-0257	23
B235-0108	21	B28200	88	B375-0150	22	B460-0258	23
B235-0109	21	B28375	88	B375-0215	22	B460-0259	23
B235-0150	20	B290-0001	21	B375-0295	22	B460-0295	22
B235-0159	21	B290-0002	21	B375-0390	22	B460-0302	23
B235-0160	21	B290-0025	21	B375-0520	22	B460-0303	23
B235-0161	21	B290-0050	21	B396-0001	22	B460-0304	23
B235-0215	20	B290-0100	21	B396-0002	22	B460-0305	23
B235-0222	21	B290-0150	21	B396-0025	22	B460-0306	23
B235-0223	21	B290-0215	21	B396-0050	22	B460-0307	23
B235-0224	21	B290-0295	21	B396-0100	22	B460-0315	23
B235-0295	20	B290-0390	21	B396-0150	22	B460-0316	23
B235-0303	21	B290-0520	21	B396-0215	22	B460-0317	23
B235-0304	21	B290-0650	21	B396-0295	22	B460-0318	23
B235-0305	21	B290-0860	21	B396-0390	22	B460-0319	23
B235-0306	21	B290-0975	21	B396-0520	22	B460-0328	23
B235-0390	20	B290-1100	21	B396-0650	22	B460-0329	23
B235-0398	21	B29025	88	B396-0860	22	B460-0330	23
B235-0399	21	B29050	88	B396-1100	22	B460-0331	23
B235-0400	21	B29051	88	B460-0001	22	B460-0332	23
B235-0401	21	B29075	88	B460-0002	22	B460-0339	23

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
B460-0340	23	B60125	59	B67210	56	C74004	27
B460-0342	23	B60150	59	B67211	56	C74005	27
B460-0343	23	B60200	59	B67212	56	C74006	27
B460-0350	23	B60250	59	B67213	56	C74007	27
B460-0351	23	B60300	59	B67214	56	C74008	27
B460-0352	23	B60375	59	B67215	56	C74009	27
B460-0353	23	B60400	59	B67216	56	C74010	27
B460-0354	23	B60610	59	B67217	56	C74011	27
B460-0390	22	B60650	59	B67218	56	C74012	27
B460-0397	23	B60675	59	B67219	56	C74013	27
B460-0398	23	B60710	59	B67312	56	C74014	27
B460-0399	23	B60750	59	B67313	56	C74015	27
B460-0400	23	B60775	59	B67315	56	C74016	27
B460-0401	23	B60950	60	B67316	56	C74017	27
B460-0402	23	B60975	60	B67317	56	C74018	27
B460-0403	23	B61050	59	B67320	56	C74019	27
B460-0413	23	B61075	59	B67321	56	C74020	27
B460-0414	23	B61100	59	B67322	56	C74021	27
B460-0415	23	B61125	59	B67323	56	C74022	27
B460-0416	23	B61150	59	B67375	55	C74023	27
B460-0417	23	B61200	59	B67937	55	C74024	27
B460-0418	23	B63050	36	B67975	55	C74025	27
B460-0429	23	B63075	36	B68001	55	C74026	27
B460-0430	23	B63100	36	B68050	55	C74027	27
B460-0431	23	B64050	55	B68058	55	C74028	27
B460-0432	23	B64075	55	B68375	55	C74029	27
B460-0444	23	B64100	55	B69050	55	C74030	27
B460-0447	23	B64125	55	B69121	55	C74031	27
B460-0457	23	B64150	55	B90050	59	C74032	27
B460-0461	23	B64200	55	B90075	59	C74033	27
B460-0470	23	B64375	55	B90100	59	C74034	27
B460-0520	22	B64450	55	B90125	59	C74035	27
B460-0531	23	B64475	55	B90150	59	C74036	27
B460-0532	23	B65050	55	B90200	59	C74037	27
B460-0533	23	B65075	55	B90250	59	C74038	27
B460-0534	23	B65100	55	B90300	59	C74039	27
B460-0535	23	B65375	55	B90400	59	C74040	28
B460-0536	23	B657-0001	22	B91050	59	C74041	28
B460-0548	23	B657-0002	22	B91075	59	C74042	28
B460-0549	23	B657-0025	22	B91100	59	C74043	28
B460-0650	22	B657-0050	22	B91125	59	C74044	28
B460-0662	23	B657-0100	22	B91150	59	C74045	28
B460-0663	23	B657-0150	22	B91200	59	C74046	28
B460-0664	23	B657-0215	22	B91250	59	C74047	28
B460-0665	23	B657-0295	22	B91300	59	C74048	28
B460-0666	23	B657-0390	22	B91400	59	C74049	28
B460-0667	23	B657-0520	22	B92050	59	C74050	28
B460-0668	23	B657-0650	22	B92075	59	C74051	28
B460-0860	22	B657-0860	22	BI05	26	C74052	28
B460-0870	23	B66050	55	BI07	26	C74053	28
B460-0871	23	B66075	55	BI10	26	C74054	28
B460-0872	23	B66100	55	BI12	26	C74055	28
B460-0873	23	B66375	55	BI15	26	C74056	27
B460-0874	23	B67050	55	BI20	26	C74057	27
B460-0875	23	B67100	56	C30050	60	C74058	28
B460-0975	22	B67101	56	C30075	60	C74059	28
B460-1100	22	B67102	56	C30100	60	C74060	28
B486-0050	22	B67103	56	C30125	60	C74061	28
B486-0100	22	B67104	56	C30150	60	C74062	28
B486-0150	22	B67105	56	C30200	60	C74063	28
B486-0215	22	B67106	56	C31050	60	C74064	28
B486-0295	22	B67200	56	C31075	60	C74065	28
B486-0390	22	B67201	56	C31100	60	C74066	28
B59000	60	B67202	56	C31125	60	C74067	28
B59050	60	B67203	56	C31150	60	C74068	28
B59075	60	B67204	56	C31200	60	C74069	28
B59100	60	B67205	56	C35090	83	C74070	28
B60025	59	B67206	56	C35091	83	C74071	28
B60050	59	B67207	56	C74001	27	C74072	28
B60075	59	B67208	56	C74002	27	C74073	28
B60100	59	B67209	56	C74003	27	C74074	28

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
C74075	28	C74147	27	C76029	35	C76605	74
C74076	28	C74148	28	C76030	35	C76606	74
C74077	28	C74149	28	C76034	35	C76607	74
C74078	28	C74150	28	C76035	35	C76608	74
C74079	28	C74151	27	C76036	35	C76612	74
C74080	28	C74152	27	C76037	35	C76613	74
C74081	28	C74154	27	C76038	35	C76614	74
C74082	28	C74155	27	C76041	35	C76615	74
C74083	28	C74156	28	C76042	35	C76700	37
C74084	28	C74157	28	C76043	35	C76701	37
C74085	28	C74158	28	C76044	35	C76702	37
C74086	28	C75001	9	C76047	35	C76703	37
C74087	28	C75002	9	C76048	35	C76704	37
C74088	28	C75003	9	C76049	35	C76705	37
C74089	28	C75004	9	C76050	35	C76706	37
C74090	28	C75005	9	C76051	35	C76707	37
C74091	27	C75006	9	C76055	35	C76708	37
C74092	27	C75015	9	C76056	35	C76709	37
C74093	28	C75018	9	C76057	35	C76710	37
C74096	27	C75020	9	C76060	36	C76711	37
C74097	27	C75043	9	C76061	36	C76712	37
C74098	27	C75044	9	C76065	36	C76720	37
C74099	27	C75045	9	C76066	36	C76722	37
C74100	27	C75077	9	C76067	36	C76723	37
C74100T	27	C75081	9	C76070	36	C76727	37
C74101	27	C75084	9	C76071	36	C76740	37
C74101T	27	C75144	9	C76072	36	C76741	37
C74102	27	C75147	9	C76073	36	C76800	47
C74103	27	C75380	9	C76074	36	C76801	47
C74104	27	C75381	9	C76075	36	C76802	47
C74106	27	C75403	9	C76076	36	C76803	47
C74107	27	C75405	9	C76077	36	C76804	47
C74108	27	C75406	9	C76079	36	C76805	47
C74109	28	C75407	9	C76080	36	C76806	47
C74110	28	C75408	9	C76081	36	C76807	47
C74111	28	C75434	9	C76500	46	C76808	47
C74112	28	C75435	9	C76501	46	C76809	47
C74113	28	C75439	9	C76502	46	C76810	47
C74114	28	C75466	9	C76503	46	C76811	47
C74115	28	C75467	9	C76504	46	C76812	47
C74116	28	C75482	9	C76505	46	C76813	47
C74117	28	C75483	9	C76506	46	C76814	48
C74118	28	C75484	9	C76507	46	C76815	48
C74119	28	C75485	9	C76508	46	C76816	48
C74120	28	C75486	9	C76509	46	C76817	48
C74121	28	C75487	9	C76510	46	C76818	48
C74122	28	C75540	9	C76511	46	C76819	48
C74123	28	C75566	9	C76512	46	C76820	48
C74124	28	C76001	35	C76513	46	C76821	48
C74125	28	C76002	35	C76514	46	C76822	48
C74126	28	C76003	35	C76515	46	C76823	48
C74127	28	C76004	35	C76516	46	C76824	48
C74128	28	C76005	35	C76520	46	C76825	48
C74129	28	C76008	35	C76521	46	C76826	48
C74130	28	C76009	35	C76522	46	C76827	48
C74131	28	C76010	35	C76530	46	C76828	48
C74132	28	C76013	35	C76531	46	C76829	48
C74133	28	C76014	35	C76532	46	C76830	48
C74134	28	C76015	35	C76550	46	C76831	48
C74135	28	C76016	35	C76551	46	C76832	48
C74136	28	C76017	35	C76553	46	C76833	48
C74137	28	C76018	35	C76554	46	C76834	48
C74138	28	C76019	35	C76555	46	C76835	48
C74139	28	C76020	35	C76556	46	C76836	48
C74140	28	C76021	35	C76557	46	C76837	48
C74141	28	C76022	35	C76558	46	C76838	48
C74142	28	C76023	35	C76561	46	C76839	48
C74143	28	C76024	35	C76562	46	C76840	49
C74144	28	C76025	35	C76563	46	C76841	49
C74145	27	C76027	35	C76570	46	C76842	49
C74146	28	C76028	35	C76571	46	C76843	49

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
C76844	49	D04015	77	D07150	51	F40030	29
C76845	49	D04016	77	D07200	51	F40031	29
C76846	49	D04017	77	D07350	51	F40032	29
C76847	49	D04018	77	D07750	51	F40033	29
C76848	49	D04019	77	D07755	51	F40034	29
C76849	49	D04020	78	D50000	86	F40035	29
C76850	49	D04021	77	E25125	79	F40036	29
C76851	49	D04022	77	E25126	79	F40037	29
C76852	49	D04023	77	E25127	79	F40038	29
C76853	49	D04024	77	E25128	79	F40039	29
C76854	49	D04025	77	E25129	79	F40040	29
C76855	49	D04026	77	E85000	102	F40041	29
C76856	49	D04027	77	ERB05	26	F40042	30
C76857	49	D04028	77	ERB07	26	F40043	30
C76858	49	D04031	77	ERG05	26	F40044	30
C76859	49	D04032	77	ERG07	26	F40045	30
C76860	49	D04033	77	F160126	79	F40046	30
C76861	49	D04034	77	F16016	79	F40047	30
C76862	49	D04035	78	F160186	79	F40048	30
C76863	50	D04036	78	F160246	79	F40049	30
C76864	50	D04050	78	F163186	79	F40050	30
C76865	50	D04051	78	F163246	79	F40051	30
C76866	50	D04053	77	F165186	79	F40052	30
C76867	50	D04054	77	F20001	105	F40053	30
C76868	50	D04055	77	F20002	105	F40054	30
C76869	50	D04056	78	F20003	105	F40055	30
C76870	50	D04057	78	F20004	105	F40056	30
C76871	50	D04058	78	F20005	105	F40057	30
C76872	50	D04059	78	F20006	106	F40058	30
C76873	50	D04060	78	F20007	106	F40059	30
C76874	50	D04062	78	F20008	106	F40060	30
C76875	50	D04064	77	F20009	106	F40061	30
C76876	50	D06005	51	F20010	106	F40062	30
C76877	50	D06050	51	F20011	106	F40063	30
C76878	50	D06075	51	F20012	106	F40064	30
C76879	50	D06100	51	F20013	106	F40065	30
C76880	50	D06125	51	F20014	106	F40066	30
C76881	50	D06150	51	F20015	106	F40067	30
C76882	50	D06200	51	F20016	105	F40068	30
C76883	50	D06250	51	F20017	105	F40069	30
C76884	50	D06300	51	F20018	105	F40070	30
C76885	50	D06350	51	F20019	105	F40071	30
C76886	50	D06400	51	F40001	29	F40072	30
C76887	50	D06450	51	F40002	29	F40073	30
C76888	50	D06500	51	F40003	29	F40074	30
C76889	50	D06510	51	F40004	29	F40075	30
C76890	50	D06525	51	F40005	29	F40076	30
C76891	50	D06550	51	F40006	29	F40077	30
C76892	50	D06600	51	F40007	29	F40078	30
C76893	50	D06650	51	F40008	29	F40079	30
CB05	26	D06700	51	F40009	29	F40080	30
CB07	26	D06750	51	F40010	29	F40081	30
CB10	26	D06753	51	F40011	29	F40082	30
CB12	26	D06755	51	F40012	29	F40083	30
CB15	26	D06800	51	F40013	29	F40084	30
CG05	26	D06801	51	F40014	29	F40085	30
CG07	26	D06802	51	F40015	29	F40086	30
CG10	26	D06803	51	F40016	29	F40087	30
CG12	26	D06804	51	F40017	29	F40088	30
CJ1002	81	D06805	51	F40018	29	F40089	30
D04001	78	D06850	51	F40019	29	F40090	30
D04002	78	D06875	51	F40020	29	F40091	30
D04003	78	D06900	51	F40021	29	F40092	30
D04004	78	D06901	51	F40022	29	F40093	30
D04005	77	D06902	51	F40023	29	F40094	30
D04008	77	D06903	51	F40024	29	F40095	29
D04009	77	D07025	51	F40025	29	F40096	29
D04010	77	D07050	51	F40026	29	F40097	29
D04012	77	D07075	51	F40027	29	F40098	29
D04013	77	D07100	51	F40028	29	F40100	29
D04014	77	D07125	51	F40029	29	F40101	30

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
F40102	30	G10008	76	G144-0224	19	G165-0110	20
F40103	30	G10010	76	G144-0225	19	G165-0150	19
F40104	30	G10012	76	G144-0226	19	G165-0159	20
F40105	30	G10016	76	G144-0303	19	G165-0160	20
F40106	30	G10020	76	G144-0304	19	G165-0161	20
F40107	30	G10024	76	G144-0305	19	G165-0162	20
F40108	30	G10032	76	G144-0306	19	G165-0215	19
F40109	30	G10036	76	G144-0307	19	G165-0222	20
F40110	30	G10040	76	G144-0308	19	G165-0223	20
F40111	30	G10052	76	G144-0398	19	G165-0224	20
F40112	30	G10072	76	G144-0399	19	G165-0225	20
F40113	30	G10080	76	G144-0400	19	G165-0295	19
F40114	30	G10104	76	G144-0401	19	G165-0303	20
F40115	30	G11006	76	G144-0402	19	G165-0304	20
F40116	30	G11008	76	G144-0403	19	G165-0305	20
F40117	30	G11010	76	G144-0531	19	G165-0306	20
F40118	30	G11012	76	G144-0532	19	G165-0307	20
F40119	29	G11016	76	G144-0533	19	G165-0390	19
F40120	29	G11020	76	G144-0534	19	G165-0398	20
F40121	30	G11024	76	G144-0535	19	G165-0399	20
F40122	30	G11028	76	G144-0536	19	G165-0400	20
F40123	29	G11032	76	G144-0662	19	G165-0401	20
F40124	29	G11036	76	G144-0663	19	G165-0402	20
F40125	29	G11040	76	G144-0664	19	G165-0520	19
F40126	29	G11044	76	G144-0665	19	G165-0531	20
F40127	29	G11048	76	G144-0666	19	G165-0532	20
F40128	30	G11052	76	G144-0667	19	G165-0533	20
F40131	29	G11056	76	G144-0668	19	G165-0534	20
F40132	29	G11064	76	G144-0790	19	G165-0535	20
F40133	29	G11072	76	G144-0870	19	G165-0536	20
F40135	30	G11080	76	G144-0871	19	G165-0650	19
F401516	31	G11088	76	G144-0872	19	G165-0662	20
F41001	31	G11096	76	G144-0873	19	G165-0663	20
F41002	31	G11104	76	G144-0874	19	G165-0664	20
F41003	31	G14006	76	G144-0875	19	G165-0665	20
F41004	31	G14008	76	G144-0876	19	G165-0666	20
F41005	31	G14010	76	G144-1109	19	G165-0667	20
F41006	31	G14012	76	G144-1111	19	G165-0668	20
F41007	31	G14016	76	G15002	76	G165-0860	19
F41008	31	G14020	76	G15003	76	G165-0870	20
F41009	31	G14024	76	G15004	76	G165-0871	20
F41011	31	G14028	76	G15006	76	G165-0872	20
F41012	31	G14032	76	G15008	76	G165-0873	20
F41013	31	G14036	76	G155-0001	19	G165-0874	20
F411516	31	G14040	76	G155-0002	19	G165-0875	20
F461012	31	G14044	76	G155-0025	19	G165-1100	19
F46108	31	G14048	76	G155-0050	19	G165-1109	20
F481012	31	G14052	76	G155-0100	19	G165-1111	20
F48108	31	G14056	76	G155-0150	19	G17025	57
G02033	86	G14064	76	G155-0215	19	G17037	57
G02042	86	G14072	76	G155-0295	19	G17050	57
G04000	104	G14080	76	G155-0390	19	G17075	57
G04001	104	G14088	76	G155-0520	19	G17100	57
G04002	104	G14096	76	G155-0650	19	G17125	57
G04003	60	G14104	76	G155-0860	19	G17150	57
G04004	60	G144-0007	19	G155-0975	19	G17200	57
G08004	76	G144-0032	19	G155-1100	19	G18025	57
G08006	76	G144-0033	19	G165-0001	19	G18037	57
G08008	76	G144-0058	19	G165-0002	19	G18050	57
G08012	76	G144-0059	19	G165-0007	20	G18075	57
G08016	76	G144-0060	19	G165-0025	19	G18100	57
G08020	76	G144-0107	19	G165-0032	20	G18125	57
G08024	76	G144-0108	19	G165-0033	20	G18150	57
G09004	76	G144-0109	19	G165-0050	19	G18200	57
G09006	76	G144-0110	19	G165-0058	20	G19025	57
G09008	76	G144-0159	19	G165-0059	20	G19037	57
G09012	76	G144-0160	19	G165-0060	20	G19050	57
G09016	76	G144-0161	19	G165-0100	19	G19075	57
G09020	76	G144-0162	19	G165-0107	20	G19100	57
G09024	76	G144-0222	19	G165-0108	20	G19125	57
G10006	76	G144-0223	19	G165-0109	20	G19150	57

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
G19200	57	G25048	34	G290-0215	21	G396-0150	22
G195-0001	20	G25052	34	G290-0295	21	G396-0215	22
G195-0002	20	G25054	34	G290-0390	21	G396-0295	22
G195-0025	20	G25056	34	G290-0520	21	G396-0390	22
G195-0050	20	G25062	34	G290-0650	21	G396-0520	22
G195-0100	20	G25064	34	G290-0860	21	G396-0650	22
G195-0150	20	G25066	34	G290-0975	21	G396-0860	22
G195-0215	20	G25068	34	G290-1100	21	G396-1100	22
G195-0295	20	G25084	34	G29003	34	G460-0001	22
G195-0390	20	G25086	34	G29004	34	G460-0002	22
G195-0520	20	G25088	34	G29005	34	G460-0007	23
G195-0650	20	G25101	34	G29006	34	G460-0025	22
G195-0860	20	G25106	34	G29008	34	G460-0032	23
G20058	60	G25108	34	G29010	34	G460-0033	23
G235-0001	20	G25121	34	G295-0001	21	G460-0050	22
G235-0002	20	G25128	34	G295-0002	21	G460-0056	23
G235-0007	21	G25161	34	G295-0025	21	G460-0057	23
G235-0025	20	G25169	34	G295-0050	21	G460-0058	23
G235-0032	21	G254-0001	21	G295-0100	21	G460-0059	23
G235-0050	20	G254-0002	21	G295-0150	21	G460-0060	23
G235-0058	21	G254-0025	21	G295-0215	21	G460-0100	22
G235-0059	21	G254-0050	21	G295-0295	21	G460-0105	23
G235-0060	21	G254-0100	21	G295-0390	21	G460-0106	23
G235-0100	20	G254-0150	21	G295-0520	21	G460-0107	23
G235-0107	21	G254-0215	21	G295-0650	21	G460-0108	23
G235-0108	21	G254-0295	21	G295-0860	21	G460-0109	23
G235-0109	21	G254-0390	21	G30000	101	G460-0116	23
G235-0150	20	G254-0520	21	G30001	101	G460-0117	23
G235-0159	21	G254-0650	21	G30003	101	G460-0118	23
G235-0160	21	G254-0860	21	G30004	101	G460-0150	22
G235-0161	21	G25612	34	G30005	101	G460-0157	23
G235-0215	20	G25812	34	G30008	102	G460-0158	23
G235-0222	21	G26022	34	G30011	101	G460-0159	23
G235-0223	21	G26032	34	G30012	101	G460-0160	23
G235-0224	21	G26034	34	G30013	101	G460-0161	23
G235-0295	20	G26042	34	G30014	101	G460-0162	23
G235-0303	21	G26044	34	G30015	101	G460-0169	23
G235-0304	21	G26046	34	G30016	101	G460-0170	23
G235-0305	21	G26052	34	G30017	101	G460-0171	23
G235-0306	21	G26054	34	G30021	102	G460-0180	23
G235-0390	20	G26056	34	G30030	101	G460-0181	23
G235-0398	21	G26062	34	G335-0050	19	G460-0182	23
G235-0399	21	G26064	34	G335-0100	19	G460-0215	22
G235-0400	21	G26066	34	G335-0150	19	G460-0221	23
G235-0401	21	G26068	34	G335-0215	19	G460-0222	23
G235-0402	21	G26084	34	G335-0295	19	G460-0223	23
G235-0520	20	G26086	34	G335-0390	19	G460-0224	23
G235-0531	21	G26088	34	G355-0001	21	G460-0225	23
G235-0532	21	G26121	34	G355-0002	21	G460-0233	23
G235-0533	21	G26161	34	G355-0025	21	G460-0234	23
G235-0534	21	G27042	34	G355-0050	21	G460-0235	23
G235-0535	21	G27044	34	G355-0100	21	G460-0236	23
G235-0536	21	G27054	34	G355-0150	21	G460-0237	23
G235-0650	20	G27062	34	G355-0215	21	G460-0245	23
G235-0662	21	G27064	34	G355-0295	21	G460-0246	23
G235-0663	21	G27066	34	G355-0390	21	G460-0247	23
G235-0664	21	G27068	34	G375-0001	22	G460-0248	23
G235-0860	20	G27084	34	G375-0002	22	G460-0256	23
G235-0870	21	G27086	34	G375-0025	22	G460-0257	23
G235-0871	21	G27088	34	G375-0050	22	G460-0258	23
G235-0872	21	G27106	34	G375-0100	22	G460-0259	23
G235-0975	20	G27108	34	G375-0150	22	G460-0295	22
G235-1100	20	G28044	34	G375-0215	22	G460-0302	23
G24004	34	G28066	34	G375-0295	22	G460-0303	23
G24006	34	G28088	34	G375-0390	22	G460-0304	23
G25022	34	G290-0001	21	G375-0520	22	G460-0305	23
G25032	34	G290-0002	21	G396-0001	22	G460-0306	23
G25034	34	G290-0025	21	G396-0002	22	G460-0307	23
G25042	34	G290-0050	21	G396-0025	22	G460-0315	23
G25044	34	G290-0100	21	G396-0050	22	G460-0316	23
G25046	34	G290-0150	21	G396-0100	22	G460-0317	23

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
G460-0318	23	G50200	101	G70048	64	G70207	65
G460-0319	23	G50202	101	G70049	64	G70208	65
G460-0328	23	G50204	101	G70050	64	G70209	65
G460-0329	23	G50205	101	G70051	64	G70210	65
G460-0330	23	G50206	101	G70052	64	G70211	65
G460-0331	23	G50208	101	G70053	64	G70212	65
G460-0332	23	G50210	101	G70054	64	G70213	65
G460-0339	23	G50214	101	G70055	64	G70214	65
G460-0340	23	G50218	101	G70100	64	G70215	65
G460-0342	23	G50250	101	G70101	64	G70216	65
G460-0343	23	G50251	101	G70102	64	G70217	65
G460-0350	23	G657-0001	22	G70103	64	G70218	65
G460-0351	23	G657-0002	22	G70104	64	G70219	65
G460-0352	23	G657-0025	22	G70105	64	G70220	65
G460-0353	23	G657-0050	22	G70106	64	G70221	65
G460-0354	23	G657-0100	22	G70107	64	G70222	65
G460-0390	22	G657-0150	22	G70108	64	G70223	65
G460-0397	23	G657-0215	22	G70109	64	G70224	65
G460-0398	23	G657-0295	22	G70110	64	G70225	65
G460-0399	23	G657-0390	22	G70111	64	G70226	65
G460-0400	23	G657-0520	22	G70112	64	G70227	65
G460-0401	23	G657-0650	22	G70113	64	G70228	65
G460-0402	23	G657-0860	22	G70114	64	G70229	65
G460-0403	23	G70000	64	G70115	64	G70230	65
G460-0413	23	G70001	64	G70116	64	G70231	65
G460-0414	23	G70002	64	G70117	64	G70232	65
G460-0415	23	G70003	64	G70118	64	G70233	65
G460-0416	23	G70004	64	G70119	64	G70234	65
G460-0417	23	G70005	64	G70120	64	G70235	65
G460-0418	23	G70006	64	G70121	64	G70236	65
G460-0429	23	G70007	64	G70122	64	G70237	65
G460-0430	23	G70008	64	G70123	65	G70300	66
G460-0431	23	G70009	64	G70124	65	G70301	66
G460-0432	23	G70010	64	G70125	65	G70302	66
G460-0444	23	G70011	64	G70126	65	G70303	66
G460-0447	23	G70012	64	G70127	65	G70304	66
G460-0457	23	G70013	64	G70128	65	G70305	66
G460-0461	23	G70014	64	G70129	65	G70306	66
G460-0470	23	G70015	64	G70130	65	G70307	66
G460-0520	22	G70016	64	G70131	65	G70308	66
G460-0531	23	G70017	64	G70132	65	G70309	66
G460-0532	23	G70018	64	G70133	65	G70310	66
G460-0533	23	G70019	64	G70134	65	G70311	66
G460-0534	23	G70020	64	G70135	65	G70312	66
G460-0535	23	G70021	64	G70136	65	G70313	66
G460-0536	23	G70022	64	G70137	65	G70314	66
G460-0548	23	G70023	64	G70138	65	G70315	66
G460-0549	23	G70024	64	G70139	65	G70316	66
G460-0650	22	G70025	64	G70140	65	G70317	66
G460-0662	23	G70026	64	G70141	65	G70318	66
G460-0663	23	G70027	64	G70142	65	G70319	66
G460-0664	23	G70028	64	G70143	65	G70320	66
G460-0665	23	G70029	64	G70144	65	G70321	66
G460-0666	23	G70030	64	G70145	65	G70322	66
G460-0667	23	G70031	64	G70146	65	G70323	66
G460-0668	23	G70032	64	G70147	65	G70324	66
G460-0860	22	G70033	64	G70148	65	G70325	66
G460-0870	23	G70034	64	G70149	65	G70326	66
G460-0871	23	G70035	64	G70150	65	G70327	66
G460-0872	23	G70036	64	G70151	65	G70328	66
G460-0873	23	G70037	64	G70152	65	G70329	66
G460-0874	23	G70038	64	G70153	65	G70330	66
G460-0875	23	G70039	64	G70154	65	G70331	66
G460-0975	22	G70040	64	G70155	65	G70332	66
G460-1100	22	G70041	64	G70200	65	G70333	66
G486-0050	22	G70042	64	G70201	65	G70334	66
G486-0100	22	G70043	64	G70202	65	G70335	66
G486-0150	22	G70044	64	G70203	65	G70336	66
G486-0215	22	G70045	64	G70204	65	G70337	66
G486-0295	22	G70046	64	G70205	65	G71000	66
G486-0390	22	G70047	64	G70206	65	G71001	66

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
G71002	66	G71073	67	G71164	68	G71255	69
G71003	66	G71074	67	G71165	68	G71256	69
G71004	66	G71075	67	G71166	68	G71257	69
G71005	66	G71076	67	G71167	68	G71258	69
G71006	66	G71077	67	G71168	68	G71259	69
G71007	66	G71078	67	G71169	68	G71260	69
G71008	66	G71079	67	G71170	68	G71261	69
G71009	66	G71100	67	G71171	68	G71262	69
G71010	66	G71101	67	G71172	68	G71263	69
G71011	66	G71102	67	G71173	68	G71264	69
G71012	66	G71103	67	G71174	68	G71265	69
G71013	66	G71104	67	G71175	68	G71266	69
G71014	66	G71105	67	G71176	68	G71267	69
G71015	66	G71106	67	G71177	68	G71300	69
G71016	66	G71107	67	G71178	68	G71304	69
G71017	66	G71108	67	G71179	68	G71305	69
G71018	66	G71109	67	G71200	68	G71307	69
G71019	66	G71110	67	G71201	68	G71308	69
G71020	66	G71111	67	G71202	68	G71312	69
G71021	66	G71112	67	G71203	68	G71313	69
G71022	66	G71113	67	G71204	68	G71315	69
G71023	66	G71114	67	G71205	68	G71316	69
G71024	66	G71115	67	G71206	68	G71320	69
G71025	66	G71116	67	G71207	68	G71321	69
G71026	66	G71117	67	G71208	68	G71323	69
G71027	66	G71118	67	G71209	68	G71324	69
G71028	66	G71119	67	G71210	68	G71328	69
G71029	66	G71120	67	G71211	68	G71329	69
G71030	66	G71121	67	G71212	68	G71331	69
G71031	66	G71122	67	G71213	68	G71332	69
G71032	66	G71123	67	G71214	68	G71336	69
G71033	66	G71124	67	G71215	68	G71337	69
G71034	66	G71125	67	G71216	68	G71339	69
G71035	66	G71126	67	G71217	68	G71340	69
G71036	66	G71127	67	G71218	68	G71344	69
G71037	66	G71128	67	G71219	68	G71345	69
G71038	66	G71129	67	G71220	68	G71347	69
G71039	66	G71130	67	G71221	68	G71348	69
G71040	66	G71131	67	G71222	68	G71352	69
G71041	66	G71132	67	G71223	68	G71353	69
G71042	66	G71133	67	G71224	68	G71356	69
G71043	66	G71134	67	G71225	68	G71360	69
G71044	66	G71135	67	G71226	68	G71361	69
G71045	66	G71136	67	G71227	68	G72000	70
G71046	67	G71137	67	G71228	68	G72001	70
G71047	67	G71138	67	G71229	68	G72002	70
G71048	67	G71139	67	G71230	68	G72003	70
G71049	67	G71140	67	G71231	68	G72004	70
G71050	67	G71141	67	G71232	68	G72005	70
G71051	67	G71142	67	G71233	68	G72006	70
G71052	67	G71143	68	G71234	68	G72007	70
G71053	67	G71144	68	G71235	68	G72008	70
G71054	67	G71145	68	G71236	68	G72009	70
G71055	67	G71146	68	G71237	68	G72010	70
G71056	67	G71147	68	G71238	68	G72011	70
G71057	67	G71148	68	G71239	68	G72012	70
G71058	67	G71149	68	G71240	68	G72013	70
G71059	67	G71150	68	G71241	68	G72014	70
G71060	67	G71151	68	G71242	68	G72015	70
G71061	67	G71152	68	G71243	68	G72016	70
G71062	67	G71153	68	G71244	69	G72017	70
G71063	67	G71154	68	G71245	69	G72018	70
G71064	67	G71155	68	G71246	69	G72019	70
G71065	67	G71156	68	G71247	69	G72020	70
G71066	67	G71157	68	G71248	69	G72021	70
G71067	67	G71158	68	G71249	69	G72022	70
G71068	67	G71159	68	G71250	69	G72023	70
G71069	67	G71160	68	G71251	69	G72024	70
G71070	67	G71161	68	G71252	69	G72025	70
G71071	67	G71162	68	G71253	69	G72026	70
G71072	67	G71163	68	G71254	69	G72027	70

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
G72028	70	G72132	71	G72330	72	H13150	54
G72029	70	G72133	71	G72332	72	H13200	54
G72030	70	G72134	71	G72333	72	H13250	54
G72031	70	G72135	71	G72334	72	H13300	54
G72032	70	G72136	71	G72335	72	H13400	54
G72033	70	G72137	71	G73101	73	H15001	53
G72034	70	G72138	71	G73108	73	H15050	54
G72035	70	G72139	71	G73115	73	H15075	54
G72036	70	G72140	71	G73122	73	H15100	54
G72037	70	G72141	71	G73129	73	H15125	54
G72038	70	G72142	71	G74103	73	H15150	54
G72039	70	G72143	71	G74105	73	H15200	54
G72040	70	G72144	71	G74111	73	H16038	54
G72041	70	G72145	71	G74113	73	H16050	54
G72042	70	G72146	71	G74119	73	H16075	54
G72043	70	G72147	71	G74121	73	H16100	54
G72044	70	G72148	71	G74127	73	H18050	54
G72045	70	G72149	71	G74129	73	H18075	54
G72046	70	G72150	71	G74135	73	H20001	53
G72047	70	G72151	71	G74137	73	H20002	53
G72048	70	G72152	71	G90001	106	H20003	53
G72049	70	G72153	71	G90002	106	H20005	53
G72050	70	G72154	71	GI05	26	H20006	53
G72051	70	G72155	71	GI07	26	H20007	53
G72052	70	G72200	72	GI10	26	H20010	53
G72053	70	G72201	72	GI12	26	H20011	53
G72054	70	G72202	72	GI15	26	H20012	53
G72055	70	G72203	72	GI20	26	H20100	53
G72056	70	G72204	72	H10052	52	H20150	53
G72057	70	G72205	72	H10054	52	H21010	54
G72058	70	G72206	72	H10056	52	H21025	54
G72059	70	G72207	72	H10058	52	H21050	54
G72060	70	G72208	72	H10072	52	H21100	54
G72061	70	G72209	72	H10074	52	H21101	54
G72062	70	G72210	72	H10076	52	H21200	54
G72063	70	G72211	72	H10078	52	H23050	52
G72064	70	G72212	72	H10080	52	H24038	53
G72065	70	G72213	72	H10106	52	H24050	53
G72066	70	G72214	72	H10108	52	H24075	53
G72100	71	G72215	72	H10110	52	H24100	53
G72101	71	G72216	72	H10126	52	H25050	53
G72102	71	G72217	72	H10128	52	H25075	53
G72103	71	G72218	72	H10156	52	H25100	53
G72104	71	G72219	72	H10158	52	H26050	53
G72105	71	G72220	72	H10208	52	H26075	53
G72106	71	G72221	72	H11054	52	H26100	53
G72107	71	G72222	72	H11056	52	H26125	53
G72108	71	G72223	72	H11058	52	H26150	53
G72109	71	G72224	72	H11074	52	H26200	53
G72110	71	G72225	72	H11076	52	H27050	53
G72111	71	G72226	72	H11078	52	H27075	53
G72112	71	G72227	72	H11080	52	H27100	53
G72113	71	G72228	72	H11106	52	H30001	52
G72114	71	G72229	72	H11108	52	H30002	52
G72115	71	G72230	72	H11126	52	H30003	52
G72116	71	G72231	72	H11156	52	H30004	52
G72117	71	G72300	72	H11208	52	H30011	52
G72118	71	G72302	72	H11210	52	H30022	52
G72119	71	G72304	72	H12008	54	H30033	52
G72120	71	G72306	72	H12009	54	H30044	52
G72121	71	G72308	72	H12010	54	H40001	102
G72122	71	G72310	72	H12054	52	H40002	102
G72123	71	G72312	72	H12056	52	H40003	102
G72124	71	G72314	72	H12074	52	H40004	102
G72125	71	G72316	72	H12076	52	H90001	84
G72126	71	G72318	72	H12106	52	H90002	84
G72127	71	G72320	72	H13038	54	H90003	84
G72128	71	G72322	72	H13050	54	I10001	45
G72129	71	G72324	72	H13075	54	I10002	45
G72130	71	G72326	72	H13100	54	I10003	45
G72131	71	G72328	72	H13125	54	I10004	45

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
I10005	45	I11027	44	I56158	8	I63218	4
I10006	45	I11028	44	I56218	8	I63250	4
I10007	45	I50058	8	I57058	8	I63258	4
I10008	45	I50075	8	I57078	8	I63300	4
I10009	45	I50078	8	I57115	8	I63318	4
I10010	45	I50118	8	I57118	8	I63350	4
I10011	45	I50138	8	I57138	8	I63358	4
I10012	45	I50158	8	I57158	8	I80034	5
I10013	45	I50178	8	I57178	8	I80038	5
I10014	45	I50218	8	I57218	8	I80050	5
I10015	45	I50238	8	I57238	8	I80058	5
I10016	45	I50258	8	I57258	8	I80078	5
I10017	45	I51058	8	I60025	4	I80118	5
I10018	45	I51078	8	I60038	4	I80138	5
I10019	45	I51118	8	I60050	4	I80150	5
I10020	45	I51138	8	I60058	4	I80158	5
I10021	45	I51158	8	I60075	4	I80200	5
I10022	45	I51178	8	I60078	4	I80218	5
I10023	45	I51218	8	I60118	4	I80250	5
I10024	45	I51238	8	I60138	4	I80258	5
I10025	45	I51258	8	I60158	4	I80318	5
I10026	45	I52034	8	I60200	4	I81034	5
I10027	45	I52058	8	I60218	4	I81038	5
I10028	45	I52078	8	I60250	4	I81050	5
I10029	45	I52118	8	I60258	4	I81058	5
I10030	45	I52138	8	I60300	4	I81078	5
I10031	45	I52158	8	I60318	4	I81118	5
I10032	45	I52178	8	I60350	4	I81138	5
I10033	45	I52218	8	I61038	4	I81150	5
I10034	45	I52238	8	I61050	4	I81158	5
I10035	45	I52258	8	I61058	4	I81200	5
I10036	45	I52318	8	I61075	4	I81218	5
I10037	45	I53058	8	I61078	4	I81250	5
I10038	45	I53075	8	I61118	4	I81258	5
I10039	45	I53078	8	I61138	4	I81300	5
I10040	45	I53118	8	I61158	4	I81318	5
I10041	45	I53138	8	I61200	4	I81358	5
I10042	45	I53158	8	I61218	4	I81400	5
I10043	45	I53178	8	I61250	4	I81418	5
I10044	45	I53218	8	I61258	4	I82034	5
I10045	45	I53238	8	I61300	4	I82038	5
I10046	45	I53258	8	I61318	4	I82050	5
I10047	45	I53312	8	I61350	4	I82058	5
I10048	45	I53318	8	I61358	4	I82078	5
I10049	45	I53358	8	I61418	4	I82118	5
I11001	44	I53412	8	I61450	4	I82138	5
I11002	44	I53418	8	I62038	4	I82150	5
I11003	44	I54050	8	I62050	4	I82158	5
I11004	44	I54058	8	I62058	4	I82200	5
I11005	44	I54075	8	I62075	4	I82218	5
I11006	44	I54078	8	I62078	4	I82250	5
I11007	44	I54118	8	I62118	4	I82258	5
I11008	44	I54138	8	I62138	4	I82300	5
I11009	44	I54158	8	I62158	4	I82318	5
I11010	44	I54178	8	I62200	4	I82358	5
I11011	44	I54218	8	I62218	4	I82400	5
I11012	44	I54258	8	I62250	4	I82418	5
I11013	44	I55058	8	I62258	4	I83034	5
I11014	44	I55075	8	I62300	4	I83058	5
I11015	44	I55078	8	I62318	4	I83078	5
I11016	44	I55118	8	I62350	4	I83118	5
I11017	44	I55138	8	I62358	4	I83138	5
I11018	44	I55158	8	I62418	4	I83150	5
I11019	44	I55178	8	I62450	4	I83158	5
I11020	44	I55218	8	I63058	4	I83200	5
I11021	44	I55258	8	I63075	4	I83218	5
I11022	44	I56058	8	I63078	4	I83250	5
I11023	44	I56075	8	I63118	4	I83258	5
I11024	44	I56078	8	I63138	4	I83300	5
I11025	44	I56118	8	I63158	4	I83318	5
I11026	44	I56138	8	I63200	4	I83358	5

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
J83418	5	J40045	96	J40204	83	J40386	99
J01050	53	J40046	96	J40206	83	J40387	99
J01051	53	J40047	85	J40207	83	J40393	102
J01052	53	J40048	85	J40208	82	J40401	97
J01053	53	J40049	85	J40210	97	J40402	97
J01057	53	J40050	94	J40211	97	J40403	97
J01075	53	J40051	94	J40212	97	J40404	97
J01077	53	J40052	94	J40213	90	J40405	97
J01100	53	J40053	94	J40214	90	J40406	98
J01150	52	J40054	94	J40215	90	J40407	98
J01200	52	J40055	94	J40217	90	J40408	98
J01300	52	J40060	103	J40218	90	J40410	97
J01400	52	J40061	103	J40219	90	J40411	97
J34712	74	J40062	103	J40220	94	J40412	98
J34715	74	J40063	103	J40221	94	J40414	98
J34718	74	J40065	87	J40222	94	J40420	97
J34724	74	J40066	87	J40223	88	J40421	97
J34800	79	J40067	87	J40224	88	J40422	97
J34970	79	J40068	87	J40225	88	J40429	85
J34975	79	J40069	87	J40228	90	J40450	104
J34980	79	J40070	87	J40229	85	J40451	104
J35712	74	J40071	87	J40230	87	J40481	104
J35715	74	J40072	87	J40240	90	J40482	104
J35718	74	J40073	87	J40241	90	J40500	79
J35724	74	J40074	87	J40242	90	J40501	79
J36018	78	J40075	87	J40243	90	J40502	79
J36022	78	J40076	87	J40244	90	J40503	79
J36024	78	J40077	87	J40250	94	J40529	85
J36026	78	J40078	87	J40251	94	J40600	85
J36030	78	J40079	87	J40260	90	J40601	85
J36100	87	J40080	94	J40261	90	J40629	85
J36101	87	J40085	96	J40262	90	J40750	94
J36118	78	J40086	96	J40263	90	J40775	94
J36124	78	J40087	96	J40284	83	J40800	94
J36130	78	J40088	96	J40285	83	J40812	85
J36136	78	J40089	96	J40286	83	J40830	89
J36148	78	J40090	103	J40287	83	J40831	89
J36200	78	J40092	103	J40288	82	J40950	36
J36250	78	J40093	96	J40289	82	J40950	94
J36300	78	J40094	91	J40307	87	J40951	36
J36400	78	J40095	91	J40311	87	J40951	94
J36712	74	J40096	91	J40325	87	J40952	36
J36715	74	J40097	91	J40329	85	J40952	94
J36718	74	J40098	91	J40330	99	J40953	36
J36724	74	J40099	91	J40331	99	J40953	94
J37022	79	J40100	105	J40332	99	J40954	36
J37024	79	J40101	96	J40333	99	J40954	94
J37026	79	J40103	105	J40334	99	J40955	36
J37028	79	J40105	87	J40335	99	J40955	94
J37030	79	J40106	87	J40336	99	J40960	36
J38020	79	J40107	102	J40337	99	J40960	94
J38022	79	J40108	102	J40338	99	J40965	36
J38024	79	J40111	102	J40339	99	J40965	94
J38026	79	J40115	102	J40340	99	J40966	36
J38030	79	J40123	88	J40341	99	J40966	94
J38712	74	J40134	102	J40342	99	J41021	82
J38715	74	J40140	93	J40343	99	J41022	82
J38718	74	J40141	93	J40350	99	J41023	82
J38724	74	J40142	93	J40351	99	J41024	82
J39019	79	J40143	93	J40352	99	J41030	103
J39023	79	J40144	93	J40353	99	J41031	103
J39027	79	J40145	93	J40360	99	J41032	103
J39030	79	J40156	92	J40361	99	J41100	95
J39712	74	J40157	92	J40369	94	J41101	95
J39715	74	J40158	92	J40375	94	J41102	95
J39718	74	J40197	82	J40380	99	J41103	95
J39724	74	J40199	82	J40381	99	J41104	95
J40015	87	J40200	82	J40382	99	J41105	95
J40020	104	J40201	82	J40383	99	J41106	95
J40030	87	J40202	83	J40384	99	J41107	95
J40044	85	J40203	83	J40385	99	J41108	95

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
J41201	97	K102550150	11	K126650295	12	K202350303	16
J41202	97	K102550215	11	K126650390	12	K202350398	16
J41203	97	K102550295	11	K142400050	11	K202350650	16
J41204	97	K102550390	11	K142400100	11	K202350663	16
J41205	97	K102570050	11	K142590050	11	K202350860	16
J41206	97	K102570057	11	K142590100	11	K202540215	16
J42002	94	K102570058	11	K151650002	9	K202540390	16
J42003	94	K102570100	11	K151650015	9	K202540650	16
J42004	94	K102570107	11	K151650025	9	K202540860	16
J42008	103	K102570150	11	K151650050	9	K202550295	16
J42012	103	K102570160	11	K151650090	9	K202570295	16
J42100	105	K102570215	11	K151650093	9	K202570390	16
J42101	105	K102570295	11	K151650100	9	K202850390	16
J42200	105	K102570390	11	K151650149	9	K202850650	16
J43300	104	K102590050	11	K151650150	9	K202900860	16
J43310	104	K102590058	11	K151650159	9	K202950650	16
J44050	89	K102590107	11	K152350002	9	K202960295	16
J44075	89	K102590150	11	K152350090	9	K203100215	16
J44100	89	K102600050	11	K152350150	9	K203100295	16
J44150	89	K102900860	11	K152420002	9	K203100390	16
J44200	89	K104670050	11	K152420015	9	K203100860	16
J44300	89	K104800025	12	K152420025	9	K203150295	17
J44400	89	K104800050	12	K152420050	9	K203150650	17
J45005	106	K104800057	12	K152420090	9	K204100663	17
J45100	82	K104800058	12	K152420100	9	K204100870	17
K01120	102	K104800100	12	K152420150	9	K204180295	17
K012000	102	K104800106	12	K152540090	9	K204600215	17
K101010050	10	K104800107	12	K152540100	9	K204600295	17
K101010057	10	K104800108	12	K152720002	9	K204600390	17
K101010100	10	K104800117	12	K152720050	9	K204600398	17
K101010105	10	K104800150	12	K152720090	9	K204600413	17
K101010107	10	K104800159	12	K152720100	9	K204600414	17
K101010150	10	K104800160	12	K152720150	9	K204600650	17
K101010215	10	K104800215	12	K152900090	9	K204600663	17
K101010295	10	K104800222	12	K152900100	9	K204600860	17
K101010390	10	K104800223	12	K152900150	9	K204600873	17
K101010520	10	K104800224	12	K152950090	9	K204650295	17
K101010860	10	K104800295	12	K152950100	9	K204650390	17
K101020057	10	K104800304	12	K154100107	9	K204650398	17
K101050050	10	K104800306	12	K154100149	9	K204650695	17
K101050057	10	K104800400	12	K154100159	9	K204800215	17
K101050100	10	K104820050	12	K154600002	9	K204800295	17
K101050105	10	K104920050	12	K154600090	9	K204800390	17
K101050106	10	K104920081	12	K201010215	15	K204800414	17
K101050150	10	K104920100	12	K201010295	15	K204850295	17
K101050157	10	K104920117	12	K201010303	15	K204850390	17
K101050215	10	K104920143	12	K201010390	15	K204920295	17
K101050295	10	K104920150	12	K201010650	15	K204990390	17
K101050304	10	K104920169	12	K201010860	15	K205220390	18
K101050390	10	K104920180	12	K201050221	15	K208400215	18
K101050650	10	K104920206	12	K201050295	15	K208400295	18
K101150059	10	K104920283	12	K201050302	15	K208400303	18
K101150107	10	K104950050	12	K201050650	15	K208400390	18
K101400663	10	K104980050	12	K201050860	15	K208400398	18
K101750050	10	K104980100	12	K201100390	15	K208400399	18
K101750100	10	K104980107	12	K201100394	15	K208400413	18
K101950050	10	K104980118	12	K201100650	15	K208400650	18
K101950100	10	K108400100	12	K201120302	15	K208400664	18
K101950150	10	K108400295	12	K201120390	15	K208400665	18
K101950215	10	K108400390	12	K201150295	15	K208450295	18
K101950390	10	K126610025	12	K201150390	15	K208450650	18
K102350223	10	K126610050	12	K201200295	15	K208450695	18
K102360050	10	K126610100	12	K201540295	15	K245411541	18
K102400100	11	K126610150	12	K201610215	15	K245500215	18
K102400150	11	K126610215	12	K201610295	15	K245500295	18
K102550025	11	K126610295	12	K201610390	15	K245500390	18
K102550050	11	K126610390	12	K201620215	15	K245510215	18
K102550057	11	K126650050	12	K201620650	15	K245510295	18
K102550058	11	K126650100	12	K201650663	16	K245510390	18
K102550100	11	K126650150	12	K201650664	16	K245540295	18
K102550107	11	K126650215	12	K201650872	16	K245560295	18

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
K245610295	18	N01023	57	N14008	43	P11208	33
K50001	92	N01024	57	N14009	43	P11212	33
K50002	92	N01025	57	N14010	43	P11928	33
K50003	92	N01026	57	N14011	43	P11964	33
K50005	92	N01027	57	N14012	43	P11986	33
K50015	99	N01028	57	N14013	43	P12102	32
K50016	99	N01029	57	N14014	43	P12104	32
K50041	92	N01030	58	N14015	43	P12106	32
K50042	92	N01031	58	N14016	43	P12108	32
L75001	61	N01032	58	N14017	43	P12112	32
L75002	61	N01033	58	N14018	43	P12202	33
L75006	61	N01034	58	N14019	43	P12204	33
L75007	61	N01035	58	N15001	43	P12206	33
L75009	62	N01037	58	N18001	43	P12208	33
L75010	62	N01038	63	N18002	43	P12212	33
L75015	62	N01039	63	N70016	100	P12328	33
L75016	62	N01040	57	N70020	100	P12342	33
L75017	62	N06001	43	N70024	100	P12362	33
L75018	62	N07001	43	N70032	100	P12364	33
L75019	62	N09001	43	N70050	100	P12384	33
L75020	62	N09002	43	N70075	100	P12386	33
L75021	62	N10001	43	N70150	100	P12402	32
L75022	62	N10002	43	N70175	100	P12404	32
L75023	62	N10003	43	N70200	100	P12406	32
L75024	62	N10004	43	N70250	100	P12408	32
L75040	61	N10005	43	N70300	100	P13224	33
L75041	61	N10006	43	N70500	100	P13232	33
L75042	61	N10007	43	N70575	100	P13424	33
L75043	61	N10008	43	N78064	63	P13432	33
L75080	61	N10142	63	N78084	63	P13600	88
L75081	61	N10164	63	N78104	63	P13624	33
L75085	61	N10244	63	P10001	88	P13632	33
L75086	61	N10266	63	P10002	88	P13986	32
L75091	61	N10342	63	P10012	32	P15050	42
L75092	61	N10344	63	P10014	32	P15075	42
L75095	61	N10364	63	P10016	32	P15175	42
L75096	61	N10442	63	P10018	32	P16002	32
L75180	61	N10444	63	P10032	32	P16004	32
L75181	61	N10464	63	P10034	32	P16006	32
L75185	61	N10544	63	P10036	32	P16008	32
L75186	61	N10566	63	P10038	32	P19042	32
L75400	62	N10642	63	P10082	32	P19062	32
L75401	62	N10644	63	P10084	32	P19064	32
L75402	62	N10664	63	P10086	32	P19082	32
L75403	62	N10722	63	P10088	32	P19084	32
L75406	62	N10744	63	P10092	32	P19086	32
L75407	62	N10822	63	P10094	32	P19128	32
L75408	62	N10844	63	P10096	32	P20002	32
L75409	62	N10922	63	P10098	32	P20004	32
L75908	61	N10944	63	P10312	32	P20006	32
L75909	61	N11001	43	P10452	32	P20008	32
L95400	106	N11002	43	P10454	32	P20092	33
M25900	87	N11003	43	P10812	32	P20094	33
N01001	58	N11004	43	P10912	32	P20096	33
N01002	58	N11005	43	P11042	33	P20098	33
N01005	58	N11006	43	P11062	33	P27001	93
N01006	58	N11007	43	P11064	33	P27003	93
N01007	57	N11008	43	P11082	33	P27004	93
N01009	57	N12001	43	P11084	33	P27005	93
N01010	57	N12002	43	P11086	33	P27040	93
N01011	57	N12003	43	P11102	33	P27048	93
N01012	57	N12004	43	P11104	33	P40004	82
N01013	57	N12005	43	P11106	33	P60001	97
N01014	57	N12006	43	P11108	33	P60002	97
N01015	57	N14001	43	P11122	33	P60003	97
N01016	57	N14002	43	P11124	33	P70001	89
N01017	57	N14003	43	P11126	33	P70002	89
N01018	57	N14004	43	P11128	33	P70005	89
N01020	57	N14005	43	P11202	33	P70006	89
N01021	57	N14006	43	P11204	33	P70010	89
N01022	57	N14007	43	P11206	33	P70011	89

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
P70012	89	PFB231	38	PFY521	41	R20002	59
P70015	89	PFB232	38	PFY530L	41	R20003	59
P70016	89	PFB242	38	PFY531	41	R40150	80
P70018	89	PFB243	38	PFY532	41	R40200	80
P70019	89	PFB264	38	PFY540L	41	R40300	80
P70020	89	PFC114	38	PFY542	41	R40400	80
P70023	89	PFC115	38	PFY543	41	R45150	80
P70029	89	PFC116	38	PHC151	40	R45200	80
P70030	89	PFC120	38	PHC152	40	R45300	80
P70031	89	PFC121	38	PHC153	40	R45400	80
P70035	89	PFC122	38	PHC154	40	R50150	80
P70036	89	PFC130	38	PMA414	38	R50200	80
P70050	89	PFC131	38	PMA415	38	R50300	80
P70051	90	PFC132	38	PMA420	38	R50400	80
P70052	90	PFC133	38	PMA430	38	R57150	80
P70053	90	PFC140	38	PMA440	38	R57200	80
P70055	89	PFC142	38	PSL031	42	R57300	80
P70056	89	PFC143	38	PSL042	42	R57400	80
P70056	90	PFC144	38	PSL132	42	R70150	80
P70060	90	PFC160	38	PSL715S	38	R70200	80
P70064	90	PFL031	39	PSL716S	38	R70300	80
P70065	90	PFL032	39	PSL720	38	R70400	80
P70066	90	PFL131	39	PSL730	38	REF-050-0187	1
P70067	90	PFL515	40	PSL740	38	REF-050-0250	1
P70069	90	PFL520	40	PSL760	38	REF-050-0312	1
PCT315	41	PFL530	40	PSL815	40	REF-050-0375	1
PCT320	41	PFL540	40	PSL820	40	REF-050-0500	1
PCT330	41	PFL560	40	PSL830	40	REF-050-0625	1
PCT340	41	PFL614	40	PSL840	40	REF-050-0750	1
PCT416	41	PFL615	40	PSL916	39	REF-050-0875	1
PCT421	41	PFL615S	40	PSL926	39	REF-050-1125	1
PCT431	41	PFL620	40	PSL936	39	REF-100-0250	1
PCT441	41	PFL620S	40	PSL946	39	REF-100-0312	1
PDL716	40	PFL630	40	PSS140	41	REF-100-0375	1
PDL722	40	PFL640	40	PST114	41	REF-100-0500	1
PDL736	40	PFL660	40	PST115	41	REF-100-0625	1
PDT515	42	PFL715	39	PST120	41	REF-100-0750	1
PDT520	42	PFL720	39	PST121	41	REF-100-0875	1
PDT521	42	PFL730	39	PST122	41	S04227	74
PDT530	42	PFL814	39	PST123	41	S04228	74
PDT531	42	PFL815	39	PST130	41	S04229	74
PDT532	42	PFL815L	39	PST131	41	S04230	74
PDT540	42	PFL820	39	PST132	41	S04231	74
PDT542	42	PFL820L	39	PST140	41	S04232	74
PDT543	42	PFL821	39	PST141	41	S04233	74
PDT621	41	PFL830	39	PST142	41	S04234	74
PDY415	40	PFL830L	39	PST143	41	S04235	74
PDY420	40	PFL834	39	PST160	41	S04236	74
PDY430	40	PFL840	39	PST164	41	S04237	74
PDY440	40	PFL840L	39	PST232	42	S04238	74
PDY442	40	PFL860	39	PTC633	42	S04260	74
PDY443	40	PFL915	39	PTC644	42	S04268	74
PFA311	38	PFL920	39	PVT415	41	S04269	74
PFA314	38	PFL930	39	PVT420	41	S04270	74
PFA315	38	PFL940	39	PVT430	41	S04350	74
PFA320	38	PFY014	40	PVT440	41	S04351	74
PFA330	38	PFY015	40	R15050	42	S04352	74
PFA340	38	PFY020	40	R15075	42	S04353	74
PFA360	38	PFY021	40	R15100	80	S04354	74
PFA614	39	PFY023	40	R15101	80	S04355	74
PFA615	38	PFY030	40	R15107	80	S04356	74
PFA619	39	PFY031	40	R15108	80	S04357	74
PFA620	38	PFY032	40	R15109	80	S04358	74
PFA629	39	PFY040	40	R15202	79	S04359	74
PFA630	38	PFY041	40	R15204	79	S04360	74
PFA639	39	PFY042	40	R15206	79	S04361	74
PFA640	38	PFY043	40	R16100	80	S06014	98
PFA659	39	PFY060	40	R16101	80	S06015	98
PFB211	38	PFY064	40	R16107	80	S06016	98
PFB221	38	PFY515L	41	R16108	80	S06017	98
PFB224	38	PFY520L	41	R20001	59	S06018	98

PART NO.	PG #	PART NO.	PG #	PART NO.	PG #	PART NO.	PG #
S06019	98	S49001	91	T18202	81	T60108	100
S06020	98	S49002	91	T19118	81	T60110	100
S08100	86	S49003	91	T19119	81	T60111	100
S10100	86	S49004	91	T19120	81	T60121	100
S12100	86	S49005	91	T19121	81	T60122	100
S20015	102	S49006	91	T19122	81	T60123	100
S20021	102	S49007	91	T19123	81	T60124	100
S20031	102	S49008	91	T19124	81	T60125	100
S20041	102	S49010	91	T19125	81	T60126	100
S20100	103	S49012	91	T19126	81	T60127	100
S20101	103	S49013	91	T19127	81		
S20102	103	S49036	91	T19128	81		
S20103	103	S49048	91	T19222	81		
S20104	103	S49136	91	T19342	81		
S20105	103	S49148	91	T19345	81		
S20106	103	S49200	91	T20020	81		
S20200	103	S49201	91	T20023	81		
S20201	103	S49236	91	T20030	81		
S20202	103	S49400	93	T20040	81		
S20203	103	S49411	92	T20041	81		
S20204	103	S49412	92	T20050	81		
S20300	103	S49413	92	T20200	81		
S20301	103	S49416	92	T25250	1		
S20302	103	S49417	92	T25312	1		
S20999	103	S49421	92	T25375	1		
S30800	84	S49422	92	T25500	1		
S30801	84	S49423	92	T25625	1		
S30802	84	S49425	92	T26000	1		
S30803	84	S49427	92	T26124	1		
S33001	54	S49429	93	T26125	1		
S33002	54	S49431	92	T26186	1		
S33003	54	S49432	92	T26187	1		
S33004	54	S49489	93	T26250	1		
S33005	54	S49500	93	T26252	1		
S33006	54	S49501	93	T26312	1		
S33007	54	S50001	86	T26313	1		
S33010	54	S50002	86	T26375	1		
S33011	54	S50060	91	T26376	1		
S33012	54	S50061	91	T26377	1		
S33014	54	S50062	91	T26498	1		
S33016	54	S50063	91	T26500	1		
S41001	98	S92001	63	T26625	1		
S41002	98	S92025	63	T26626	1		
S41003	98	S92030	63	T26750	1		
S41006	98	S92031	63	T26875	1		
S41007	98	S95011	84	T27125	1		
S41010	98	S95012	84	T27188	1		
S41012	98	S95014	84	T27250	1		
S41300	98	S95015	82	T27313	1		
S41301	98	S95016	84	T27375	1		
S41302	98	S95102	82	T27438	1		
S41303	98	S95103	82	T27500	1		
S41306	99	S95104	82	T27625	1		
S41307	98	S95105	82	T41001	96		
S41308	99	S95700	103	T41002	96		
S41349	95	S95710	83	T41003	96		
S41350	95	S95711	83	T41004	96		
S41351	95	S95712	84	T41005	96		
S41352	95	S95713	84	T41006	96		
S41353	95	S96012	84	T41007	96		
S41354	95	S96014	83	T41008	96		
S41355	95	S96016	83	T41009	96		
S41356	95	T16002	81	T50001	103		
S41357	95	T16004	81	T60100	100		
S41358	95	T16100	81	T60101	100		
S41359	95	T17002	81	T60102	100		
S41360	95	T17004	81	T60103	100		
S41361	95	T17101	81	T60104	100		
S41362	95	T17102	81	T60105	100		
S41363	95	T17104	81	T60106	100		
S49000	91	T18201	81	T60107	100		

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