

LSP[®]

PRODUCTS GROUP

Specialty Products[™]



Insulation[™]



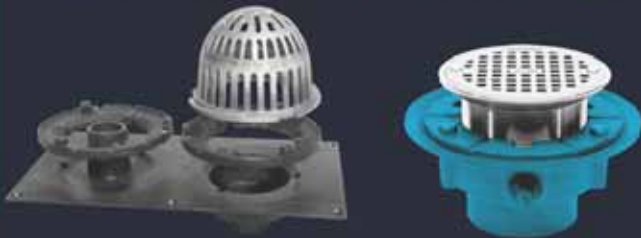
AQUAFLO[®]



RAPID-FIT[®]



TechSpecialties/ Frank Pattern & Mfg.



CHEMICALS



PRODUCT CATALOG

2012

COMPANY HISTORY

LSP Products Group (LSP) was founded by plumbers over 40 years ago with a focus on unparalleled innovation, superior product quality, and best-in-class service to the plumbing industry. Since its beginning as Specialty Products™, LSP has continued to lead plumbing products innovation with inventions like the stainless steel braided flex connector, the Kahuna™ outlet box, and the Revolver waste & overflow. Our primary focus is the new construction market where we develop products that make installations easy and provide significant cost savings to the plumbing/mechanical contractor.



BACKGROUND / OPERATIONS

LSP is owned by NCH Corporation (NCH), a privately (family) owned corporation based in Irving, Texas. NCH has been owned by the same family and headquartered in Irving for over 90 years which provides significant stability and longevity to LSP. LSP 100% owns and operates two manufacturing facilities located in Carson City, Nevada, and Hainan, China. LSP also has two Distribution Centers located in Carson City, Nevada (servicing the West/Rockies), and Dallas, Texas (servicing the Central and Eastern U.S.), plus a number of satellite warehouses providing local inventory.

COMPANY TODAY

While plumbing practices and products have changed over the last 40 years, LSP's focus on designing and manufacturing innovative products remains steadfast. LSP concentrates its efforts on making a plumber's job simpler, easier, and faster. Our products not only reduce installation time and labor, but are also built to the highest quality standards and come with unmatched customer support and service.



Today, LSP consists of the following product divisions:

- **Specialty Products™ / Benjamin Mfg.** - outlet boxes, tub boxes, clamps, test caps, hangers, AAVs, pipe secure brackets, copper stubouts, hammer arresters, tub protectors, water heater pans, foam wrap, and much more
- **Aqua-Flo®** - a full line of braided, vinyl, and corrugated connectors and stops
- **Rapid-Fit®** - bath waste and overflow assemblies with designer finishes
- **Insulation** - polyolefin foam and rubber pipe insulation (sticks and rolls)
- **Tech Specialties® / Frank Pattern & Mfg.** - a broad line of roof drains, floor drains, shower drains, closet flanges, and access covers
- **Chemicals** - solvent cements and primers, pipe thread sealants, and Valspar paints

"LSP's foundation is its People, Products, and Customers. We are relentlessly focused on becoming the premier source of innovative products to the plumbing industry."

BUY AMERICA

LSP Products Group proudly supports the American Recovery and Reinvestment Act (ARRA) of 2009 and the original Buy American Act of 1933. ARRA requires that any project receiving government funding must purchase American-made goods, if at all possible. This provision promotes American people to buy goods that have been produced by other Americans.

LSP has manufacturing facilities and is headquartered in the United States. We do everything possible to manufacture and source our products domestically and are proud to offer many American made products. You can easily locate American-made products throughout the catalog by looking for the USA symbol below.

The products below meet the “Buy American: provisions of Section 1605” of the ARRA.

Specialty Products™

- All Plastic Outlet Boxes Without Valves
- Lever-Lock
- PEX Elbows
- Pull Stop Box™
- Single Nail Clamps
- Flexi-Fin Clamps
- Acousto® Clamp Systems
- Plastic Plumbers Tape
- Hang'Em II Pipe Hangers
- All Groundwork Items
- All Test Caps and Plugs
- Hard Base Poly Roof Flashings
- Flex-All™ Soft Base Roof Flashings
- Poly Pipe Vent Shields
- Benjamin Mfg. Products



- Roof Drains
- Deck Drains
- Drain Accessoriesg

CHEMICALS

- Solvent Cements and Primers
- Pipe Thread Sealants
- Valspar Paints



Insulation

- Polyolefin Foam Insulation

LEAD FREE

LSP Products Group is continually focused on quality products. This focus includes consumer safety. In support of the “Lead Free” legislation that is now in effect in several states, LSP offers “Lead Free” products that contain less than 0.25% lead by weighted average. These products comply with all state and federal legislation that revise the Federal Safe Drinking Water Act and the Lead Contamination Control Act of 1988. Previous to the recent “Lead Free” legislature, plumbing components could contain up to 8% lead.



Where does the lead come from?

Lead has been a core part of plumbing for thousands of years because of its easy workability and low melting point. Lead pipes were used through the early 1900s. Lead solder was used almost primarily for joining pipes and fittings prior to 1980. Today, lead comes from brass and solder. Brass is a mix of copper, zinc, and a minute amount of lead. Lead is used in brass to seal the microscopic cracks that can occur between the copper and zinc crystals as they cool down from the forging process. The lead also provides additional malleability for brass to be forged and converted into the machined components like valves.

LSP is devoted to providing “Lead Free” products. In addition to our standard line, we also offer a line of “Lead Free” products. These items are easily identified by the checkmark symbol.

Specialty Products™



Washing Machine Outlet Boxes, Ice Maker Boxes, Pull Stop Box™, Utility Boxes, Gas Outlet Boxes, Faceplates, Air Admittance Valves, PipeSecure™ Brackets & Accessories, PEX Products, Clamps, Acousto® Clamp Systems, Mini-Hammer Arresters, Hangers, Groundwork Items, Test Caps, Test Plugs, Flashings & Shields, Access Panels, Access Covers, Clean Out Covers, Spacers, In-Sul Wrap, Foam Tape, Bin Boxes, Organizational Trays, Nipple Caddies, Dirt Rider, Ladder Ledge, Water Heater Pans, Washing Machine Pans, Tub Protectors

6-47

Insulation™



Polyolefin Foam (Self-Sealing, Half-Slit), Rubber Un-slit, Rubber Seam Seal

48-55

AQUAFLO®



Water Heater Connectors, Faucet Connectors, Toilet Connectors, Washing Machine Connectors, Ice Maker Connectors, Dishwasher Connectors, Connector Kits, Specialized Connectors, Quarter Turn Ball Valves

56-71

RAPID-FIT™



PVC & ABS Bath Waste & Assemblies Testing & Non-Testing, Designer Finish Trim Kits, Brass & Plastic Tubular Bath Waste & Assemblies, Trim Kits & Accessories

72-79

**TechSpecialties/
Frank Pattern & Mfg.**



Roof Drains, Deck Drains & Accessories, Floor Drains, Area Drains, Shower Drains, Closet Flanges, Clean Out Covers, Floor Access Covers

80-93

CHEMICALS



Solvent Cements and Primers, Pipe Thread Sealants, Valspar Paints

94-103

Specialty Products™

Specialty Products™ is LSP's original division. When it developed washing machine and ice maker outlet boxes over 40 years ago, Specialty Products™ acquired its reputation as the innovation leader to the plumbing industry. That unwavering focus on innovation also led to the development of pipe clamps, test caps, and tub boxes among many other products. Today, Specialty's Hang 'em Hangers™ and PipeSecure™ Brackets provide the quickest way to support pipe runs.

LSP has partnered with Benjamin Manufacturing Co. to offer a broad range of tub protectors, tote trays, nipple caddies, plastic water heater pans, access covers, foam wrap, and much more. These products are designed to make a plumber's job easier and reduce installation costs. Many of the products are constructed of high impact plastic that is extremely tough, resilient, and withstands rust. These products are manufactured domestically.

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Washing Machine Outlet Boxes & Valves.....	8
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Kahuna™ Outlet Box W/ Clear Cover and Optional Condensate
OB-2011



Condensate
P-00991



Test Hose for Kahuna™
P-2000



White Faceplate
P-00910



Kahuna™ Outlet Box W/ Hammer Arresters, Plastic Simplex Handle, Clear Cover and Optional Condensate
OB-2111



Plastic Simplex Handle
P-06066

Kahuna™ Outlet Box

Introducing the most durable outlet box in the plumbing industry. Our error-proof, no knockout drains allow for hassle-free testing. Fill your stack directly from the box and test without a mess! Dual drain feature allows you to choose right or left outlet. Easy-to-install cosmetic cap hides unused drain. Optional, innovative condensate, with visible air gap, accommodates secondary drainage where needed. Quarter Turn Ball Valve Outlet Box includes a clear cover to protect valves from debris during rough in stage. Dimensions: 7-1/4" x 9-3/4" x 3-3/4". Faceplate: 12.32" x 8.50".

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OB-2000	Unassembled	10	16
WITH M.I.P. VALVES			
OB-2010	Unassembled	10	25
OB-2011	Assembled	10	25
WITH CPVC VALVES			
OB-2020	Unassembled	10	24
OB-2021	Assembled	10	24
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-2030	Unassembled	10	25
OB-2031	Assembled	10	25
WITH REHAU VALVES			
OB-2040	Unassembled	10	25
OB-2041	Assembled	10	25
WITH WIRSBO ProPEX® VALVES			
OB-2060	Unassembled	10	25
OB-2061	Assembled	10	25
WITH SIMPLEX VALVES			
OB-2400	M.I.P.	10	25
OB-2401	CPVC	10	25
OB-2402	PEX	10	25
ACCESSORIES / REPLACEMENT PARTS			
P-00991	Condensate	1 ea.	-
P-2000	Test Hose for Kahuna™	25	-
P-00910	White, Faceplate	20	-

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

* Add "-C" to the end of the part number for Condensate



Kahuna™ Outlet Box with Hammer Arresters

All of the great features of our Kahuna™ Outlet Box with Water Hammer Arresters. Outlet box includes a clear cover to protect valves from debris during rough in stage and a plastic Simplex handle.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-2110	Unassembled	10	32
OB-2111	Assembled	10	32
WITH CPVC VALVES			
OB-2120	Unassembled	10	31
OB-2121	Assembled	10	31
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-2130	Unassembled	10	32
OB-2131	Assembled	10	32
WITH REHAU VALVES			
OB-2141	Assembled	10	32
WITH WIRSBO ProPEX® VALVES			
OB-2160	Unassembled	10	32
OB-2161	Assembled	10	32
ACCESSORIES / REPLACEMENT PARTS			
P-00991	Condensate	1 ea.	-
P-00910	White, Faceplate	20	-
P-06066	Plastic Simplex Handle	1 ea.	-

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

* Add "-C" to the end of the part number for Condensate



Plastic Switch Hitter® Outlet Box

One box does it all! Patented design provides left, center and right waste options. Knockouts accept either waste or water lines. Quarter Turn Ball Valve. Durable brass resists corrosion. Valves certified to ASME 112.18.1 Standard. Long lasting double stem O-rings and tough Teflon® seats. Dimensions: Box: 6-1/2" x 7-5/8" x 3". Faceplate: 10-3/8" x 8-7/16".



Center Outlet
OB-201



Right Outlet
OB-205



Left Outlet
OB-203



White Faceplate
OB-901

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OB-100	Beige	10	9
OB-101	White	10	9
WITH M.I.P. VALVES			
OB-102	Beige, Unassembled	10	18
OB-200	Beige, Center Outlet	10	18
OB-202	Beige, Left Outlet	10	18
OB-103	White, Unassembled	10	18
OB-201	White, Center Outlet	10	18
OB-203	White, Left Outlet	10	18
OB-205	White, Right Outlet	10	18
WITH CPVC VALVES			
OB-351	White, Unassembled	10	16
OB-353	White, Center Outlet	10	16
OB-355	White, Left Outlet	10	16
OB-357	White, Right Outlet	10	16
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-321	White, Unassembled	10	18
OB-323	White, Center Outlet	10	18
OB-325	White, Left Outlet	10	18
OB-327	White, Right Outlet	10	18
WITH REHAU VALVES			
OB-371	White, Unassembled	10	18
OB-373	White, Center Outlet	10	18
OB-375	White, Left Outlet	10	18
WITH WIRSBO ProPEX® VALVES			
OB-331	White, Unassembled	10	18
OB-338	White, Center Outlet	10	18
WITH VIEGA PEX VALVES			
OB-341	White, Unassembled	10	18
OB-343	White, Center Outlet	10	18
ACCESSORIES / REPLACEMENT PARTS			
OB-900	Beige, for Switch Hitter®	100	17
OB-901	White, for Switch Hitter®	100	17
OB-903	White, for Switch Hitter® (Deep)	100	21

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)
 * Add "-TOP" to the end of the part number for Top Mounted valves





Plastic Switch Hitter® Outlet Box
W/ Hammer Arresters
OB-207



White Faceplate
OB-901



Plastic Simplex Handle
P-06066



Plastic Switch Hitter® Outlet Box W/ Water
Hammer Arresters and Plastic Simplex Handle
OB-416-R

Plastic Switch Hitter® Outlet Box With Water Hammer Arresters

All the great features of our Plastic Switch Hitter® Outlet Box with Water Hammer Arresters.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-210	Unassembled	10	27
OB-207	Center Outlet	10	27
WITH CPVC VALVES			
OB-211	Unassembled	10	23
OB-213	Center Outlet	10	23
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-216	Unassembled	10	27
OB-218	Center Outlet	10	27
WITH WIRSBO ProPEX® VALVES			
OB-217	Unassembled	10	27
OB-219	Assembled	10	27
WITH REHAU VALVES			
OB-226	Unassembled	10	27
OB-227	Center Outlet	10	27
ACCESSORIES / REPLACEMENT PARTS			
OB-900	Beige, for Switch Hitter®	100	17
OB-901	White, for Switch Hitter®	100	17
OB-903	White, for Switch Hitter® (Deep)	100	21

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

* Add "-TOP" to the end of the part number for Top Mounted valves



Plastic Switch Hitter® Outlet Box With Water Hammer Arresters and Plastic Simplex™ Handle

Our standard Plastic Washing Machine Outlet Box with Water Hammer Arresters is now available with convenient Plastic Simplex handle. The Plastic Simplex handle slides onto the valve handles, turning them into a single-lever valve. Quarter Turn Ball Valve. Dimensions: Box 6-1/2" x 7-5/8" x 3". Faceplate: 10-3/8" x 8-7/16"

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-410-L	Assembled, Left Outlet	10	27
OB-410-R	Assembled, Right Outlet	10	27
WITH CPVC VALVES			
OB-411-L	Assembled, Left Outlet	10	26
OB-411-R	Assembled, Right Outlet	10	26
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-416-L	Assembled, Left Outlet	10	27
OB-416-R	Assembled, Right Outlet	10	27
WITH WIRSBO ProPEX® VALVES			
OB-417-L	Assembled, Left Outlet	10	27
OB-417-R	Assembled, Right Outlet	10	27
ACCESSORIES / REPLACEMENT PARTS			
OB-901	White, for Switch Hitter®	100	17
P-06066	Plastic Simplex Handle	1 ea.	-

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)





Plastic Switch Hitter® Outlet Box
W/ Brass Simplex Valve
OB-405



White Faceplate
OB-901



Single Lever PEX Valve
P-06321

Plastic Switch Hitter® Outlet Box With Brass Simplex Valve

Consolidates all valves and hose connections into one unit. Unique single-lever handle controls both hot and cold water with one movement. Patented design. Dimensions: Box 6-1/2" x 7-5/8" x 3". Faceplate: 10-3/8" x 8-7/16".

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-400	Beige, Unassembled	10	24
OB-402	Beige, Left Outlet	10	24
OB-404	Beige, Right Outlet	10	24
OB-401	White, Unassembled	10	24
OB-403	White, Left Outlet	10	24
OB-405	White, Right Outlet	10	24
WITH CPVC VALVES			
OB-429	White, Unassembled	10	24
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-435	White, Unassembled	10	24
OB-437	White, Left Outlet	10	24
ACCESSORIES / REPLACEMENT PARTS			
P-06067	Black Plastic Knob for Simplex Valve	600	
P-06290	Single Lever M.I.P. Valve W/ Rough Brass Finish	32	49
P-06320	5/8" O.D., Compr. 3/4" Male Hose Thread Valve	144	
P-06321	Single Lever PEX Valve W/ Rough Brass Finish	32	49
P-06322	Single Lever CPVC Valve W/ Rough Brass Finish	32	49
OB-901	White, for Switch Hitter®	100	17
OB-903	White, for Switch Hitter® (Deep)	100	21

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)





Tornado™ Outlet Box
OB-713



Tornado™ Outlet Box
W/ Hammer Arresters
OB-723

Tornado™ Outlet Box

Constructed from high-impact plastic. Deeper faceplate and factory assembled drain funnel. Accommodates washing machine discharge and condensate while preventing installation errors. Easy to install condensate pipe stand provides quick visual inspection of required air gap. Quarter Turn Ball Valve. Dimensions: 11-1/4" x 6-1/4" x 3.8".

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-711	Unassembled	5	23
OB-713	Assembled	5	23
OB-713-TOP	Top Mounted, Assembled	5	23
OB-723	W/ Hammer Arresters, Assembled	5	23
WITH CPVC VALVES			
OB-707	Unassembled	5	23
OB-709	Assembled	5	23
OB-709-TOP	Top Mounted, Assembled	5	23
OB-719	W/ Hammer Arresters, Assembled	5	23
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-703	Unassembled	5	23
OB-705	Assembled	5	23
OB-705-TOP	Top Mounted, Assembled	5	23
OB-724	W/ Hammer Arresters, Assembled	5	23
OB-724-TOP	Top Mounted W/ Hammer Arresters	5	23
WITH WIRSBO ProPEX® VALVES			
OB-720	Assembled	5	23
OB-720-TOP	Top Mounted, Assembled	5	23
OB-721	W/ Hammer Arresters, Assembled	5	23
OB-721-TOP	Top Mounted W/ Hammer Arresters	5	23
WITH REHAU VALVES			
OB-740	Unassembled	5	23
OB-741	W/ Hammer Arresters, Unassembled	5	23
WITH VIEGA PEX VALVES			
OB-704	Unassembled	5	23
OB-706	Assembled	5	23
ACCESSORIES / REPLACEMENT PARTS			
OB-781	White, Faceplate & Brackets	50	-

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)





FireStop™ Washing Machine Outlet Box
OBFS-2011



FireStop™ Washing Machine Outlet
Box W/ Hammer Arresters
OBFS-2111

FireStop™ Washing Machine Outlet Box

The most versatile, fire-rated box in the industry. Similar in design to the Switch Hitter®, valves may be mounted right/left, or with center drain, and from top or bottom. Constructed from fire-resistant PVC, with a factory-mounted intumescent pad. FireStop™ boxes are Warnock Hersey certified to ASTM E-814 and CAN/ULC S115 – 1Hr. and 2Hr. listings. Suitable for use on wood or metal studs, and with all pipe types. Molded in test cap for testing of DWV drain. Quarter Turn Ball Valve. Dimensions: 7-1/16" x 8-3/16" x 3". Faceplate: 11" x 8-3/4". Faceplates will accommodate 1.25" wall thickness.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OBFS-2000	Without Valves	10	16
WITH M.I.P. VALVES			
OBFS-2010	Unassembled	10	24
OBFS-2011	Assembled, Center Drain	10	24
OBFS-2110	Unassembled W/ Hammer Arresters	10	24
OBFS-2111	Assembled, Center Drain, W/ Hammer Arresters	10	24
WITH CPVC VALVES			
OBFS-2020	Unassembled	10	24
OBFS-2021	Assembled, Center Drain	10	24
OBFS-2120	Unassembled W/ Hammer Arresters	10	24
OBFS-2121	Assembled, Center Drain, W/ Hammer Arresters	10	24
WITH PEX VALVES (Fits Vanguard & Zurn)			
OBFS-2030	Unassembled	10	24
OBFS-2031	Assembled, Center Drain	10	24
OBFS-2130	Unassembled W/ Hammer Arresters	10	24
OBFS-2131	Assembled, Center Drain, W/ Hammer Arresters	10	24
WITH WIRSBO ProPEX® VALVES			
OBFS-2060	Unassembled	10	24
OBFS-2061	Assembled, Center Drain	10	24
OBFS-2160	Unassembled W/ Hammer Arresters	10	24
OBFS-2161	Assembled, Center Drain, W/ Hammer Arresters	10	24
WITH REHAU VALVES			
OBFS-2040	Unassembled	10	24
OBFS-2041	Assembled, Center Drain	10	24
OBFS-2140	Unassembled W/ Hammer Arresters	10	24
OBFS-2141	Assembled, Center Drain, W/ Hammer Arresters	10	24
ACCESSORIES / REPLACEMENT PARTS			
P-00213	Faceplate	Bulk	-

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)



Metal Washing Machine Outlet Box

Available in reversible left or right outlet and center outlet models. Easy to install. Packaged with faceplate. Valves certified to ASME A112.18.1 Standard. 20 gauge, with white powder-coat paint. Patented design. Quarter Turn Ball Valve. Dimensions: Box: 5-7/8" x 8-11/32" x 3-1/2". Faceplate: 8-1/4" x 10-5/16".

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH VALVES UNASSEMBLED			
OB-501	M.I.P. Valves, Reversible Outlet	5	25
OB-502	M.I.P. Valves, Center Outlet	5	25
OB-505	M.I.P. Simplex Valve	5	26
OB-506	PEX Valves, Center Outlet	5	29
OB-550	CPVC Valves, Center Outlet	5	24
OB-551	CPVC Valves, Reversible Outlet	5	24

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)





Metal Washing Machine Outlet Box
W/ Water Hammer Arresters
OB-510

Metal Washing Machine Outlet Box With Water Hammer Arresters

All of the same great features of our Metal Washing Machine Outlet Box with Water Hammer Arresters.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-508	Center Outlet	5	29
OB-510	Reversible Outlet	5	29
WITH CPVC VALVES			
OB-513	Center Outlet	5	29
OB-511	Reversible Outlet	5	29
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-516	Center Outlet	5	29
OB-517	Reversible Outlet	5	29
WITH REHAU VALVES			
OB-523	Reversible Outlet	5	29
WITH WIRSBO ProPEX® VALVES			
OB-519	Center Outlet	5	29

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)



Washing Machine Outlet Box Valve - M.I.P.

Washing Machine Outlet Box Valves

Quarter Turn Ball Valves. Durable brass resists cracking and corrosion. Color coded handles - red/blue for hot/cold. Easy on/off finger control. Valves are certified to ASME A112.18.1 Standard. Long lasting double stem O-rings and tough Teflon® seats.

HANDLE	STD. VALVE	MSTR CTN QTY	VALVE W/ H.A.	MSTR CTN QTY	VALVE W/ H.A. (FOR TORNADO)	MSTR CTN QTY
M.I.P.						
Red	P-06287	100	P-06295	24	P-06313	24
Blue	P-06286	100	P-06294	24	P-06294-RB	24
CPVC						
Red	P-06292	100	P-06257	24	P-06312	24
Blue	P-06291	100	P-06256	24	P-06256-RB	24
PEX (Fits Vanguard & Zurn)						
Red	P-06301	100	P-06237	24	P-06311	48
Blue	P-06300	100	P-06238	24	P-06238-RB	48
REHAU						
Red	P-06424	100	P-06434	48	P-06434-LR	48
Blue	P-06423	100	P-06433	48		
WIRSBO ProPEX®						
Red	P-06421	100	P-06434-WB	48	P-06332-WB	48
Blue	P-06420	100	P-06433-WB	48	P-06333-WB	48
ACCESSORIES / REPLACEMENT PARTS						
	1/2" Plastic Nut For Mounting Valves				P-06068	1,000
	1/2" Metal Nut for Mounting Valves				P-06069	1,000

H.A. = Hammer Arrester



Washing Machine Outlet Box Valve - CPVC



Washing Machine Outlet Box Valve - PEX

Mini Ice Maker Box

Modern design with added strength provides unquestionable reliability. Longer mounting ears accommodate all applications. Each box includes a captive nail to ensure hassle-free installation Quarter Turn Ball Valve. All boxes are assembled and come with a clear cover to protect valves from debris during the rough in stage.



Mini Ice Maker Box
OB-8010

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OB-8000	No Valves	10	8
WITH M.I.P. VALVES			
OB-8010	1/2" M.I.P. x 1/4" Compr.	10	11
WITH CPVC VALVES			
OB-8020	1/2" CPVC x 1/4" Compr.	10	11
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-8030	1/2" PEX x 1/4" Compr.	10	11
OB-8031	3/8" PEX x 1/4" Compr.	10	11

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

✓ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



Mini Ice Maker Box With Water Hammer Arresters

All the great features of our Mini Ice Maker Box with Water Hammer Arresters. All boxes are assembled and come with a clear cover to protect valves from debris during the rough in stage.



Mini Ice Maker Box W/
Water Hammer Arresters
OB-8110

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-8110	1/2" M.I.P. x 1/4" Compr.	10	14
WITH CPVC VALVES			
OB-8120	1/2" CPVC x 1/4" Compr.	10	14
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-8130	1/2" PEX x 1/4" Compr.	10	14
OB-8131	3/8" PEX x 1/4" Compr.	10	14
WITH WIRSBO ProPEX® VALVES			
OB-8140	1/2" WIRSBO x 1/4" Compr.	10	14

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

✓ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.





Plastic Ice Maker Box
OB-801

Plastic Ice Maker Box

Slim-line profile for 1" backing. Ribbed walls add support for greater strength and better alignment. Adjustable faceplate accommodates up to 5/8" wall thickness. Top and bottom nailing tabs assure solid installation. Constructed of high-impact plastic. Valve certified to ASME A112.18.1 Standard. Quarter Turn Ball Valve. Dimensions: Box: 5-3/16" x 5-3/16" x 2-1/2". Faceplate: 6-13/16" x 6-13/16". All valves are 1/2" inlet x 1/4" outlet, unless otherwise noted. All boxes are assembled.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OB-802	Beige	10	5
OB-803	White	10	5
WITH M.I.P. VALVES			
OB-800	Beige, 1/2" M.I.P. x 1/4" Compr.	10	9
OB-801	White, 1/2" M.I.P. x 1/4" Compr.	10	9
WITH CPVC VALVES			
OB-807	White, 1/2" CPVC x 1/4" Compr.	10	8
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-811	1/2" PEX x 1/4" Compr.	10	9
OB-810	3/8" PEX x 1/4" Compr.	10	9
OB-812	3/8" PEX x 3/8" Compr.	10	9
WITH WIRSBO ProPex® VALVES			
OB-814	1/2" WIRSBO x 1/4" Compr.	10	9
WITH REHAU VALVES			
OB-831	1/2" Rehau x 1/4" Compr.	10	9
WITH VIEGA PEX VALVES			
OB-843	1/2" Viega x 1/4" Compr.	10	9

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



Plastic Ice Maker Box
W/ Hammer Arrester
OB-817

Plastic Ice Maker Box With Hammer Arresters

All the great features of our Plastic Ice Maker Box with Water Hammer Arresters.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-817	1/2" M.I.P. x 1/4" Compr.	10	13
WITH CPVC VALVES			
OB-819	1/2" CPVC x 1/4" Compr.	10	12
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-818	1/2" PEX x 1/4" Compr.	10	12
OB-820	3/8" PEX x 1/4" Compr.	10	12
OB-821	3/8" PEX x 3/8" Compr.	10	12
WITH WIRSBO ProPEX® VALVES			
OB-824	1/2" WIRSBO x 1/4" Compr.	10	12
WITH REHAU VALVES			
OB-838	1/2" Rehau x 1/4" Compr.	10	12

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.





Deep Plastic Ice Maker Box W/ Connector Kit

Deep Plastic Ice Maker Box With Connector Kit

Deeper Ice Maker Box with 60" Aqua-Flo® Connector (1/4" Compr. x 1/4" Compr., 60" long). All boxes are assembled. Ice Maker connector comes packaged in a poly bag and placed behind the valve.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
OB-1281	1/2" M.I.P. x 1/4" Compr.	10	12
OB-1282	1/2" CPVC x 1/4" Compr.	10	12
OB-1283	1/2" PEX x 1/4" Compr.	10	12
OB-1284	1/2" M.I.P. x 1/4" Compr. W/ Hammer Arrestor	10	12
OB-1285	1/2" CPVC x 1/4" Compr. W/ Hammer Arrestor	10	12
OB-1286	1/2" PEX x 1/4" Compr. W/ Hammer Arrestor	10	12

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



FireStop™ Ice Maker Box
OBFS-8010

FireStop™ Ice Maker Box

The fire-rated Ice Maker box is similar in design to the Mini Ice Maker, with a modern look and compact profile, but constructed from fire-resistant PVC, with a factory-mounted intumescent pad. FireStop™ boxes are Warnock Hersey certified to ASTM E-814 and CAN/ULC S115 - 1Hr. and 2Hr. listings. Suitable for use on wood or metal studs, and with all pipe types. Quarter Turn Ball Valve. Dimensions: 5-11/16" x 3-7/8" x 2-5/8". Faceplate: 5-1/4" x 7-1/4". Faceplates will accommodate 1.25" wall thickness.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OBFS-8000	No Grommet	10	11
OBFS-8001	W/ 5/8" Installed Grommet	10	11
OBFS-8002	W/ 3/4" Installed Grommet	10	11
WITH M.I.P. VALVES			
OBFS-8010	1/2" M.I.P. x 1/4" Compr.	10	12
OBFS-8110	1/2" M.I.P. x 1/4" Compr. W/ Hammer Arrestor	10	12
WITH CPVC VALVES			
OBFS-8020	1/2" CPVC x 1/4" Compr.	10	12
OBFS-8120	1/2" CPVC x 1/4" Compr. W/ Hammer Arrestor	10	12
WITH PEX VALVES (Fits Vanguard & Zurn)			
OBFS-8030	1/2" PEX x 1/4" Compr.	10	12
OBFS-8130	1/2" PEX x 1/4" Compr. W/ Hammer Arrestor	10	12
WITH WIRSBO ProPEX® VALVES			
OBFS-8040	1/2" WIRSBO x 1/4" Compr.	10	12
OBFS-8140	1/2" WIRSBO x 1/4" Compr. W/ Hammer Arrestor	10	12

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



FireStop™ Ice Maker Box
W/ Hammer Arrestor
OBFS-8110



Metal Ice Maker Box
OB-504



Metal Ice Maker Box
W/ Hammer Arrestor
OB-509



Ice Maker Outlet Box Valve

Metal Ice Maker Box

Slim-line profile for 1" backing. Ribbed walls add support for greater strength and better alignment. Adjustable faceplate accommodates up to 5/8" wall thickness. Top and bottom nailing tabs assure solid installation. Valve certified to ASME A112.18.1 Standard. Quarter Turn Ball Valve. Dimensions: Box: 5-1/8" x 5-5/8" x 2-1/2". Faceplate: 6-13/16" x 6-13/16". All boxes are unassembled.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITHOUT VALVES			
OB-503	White	5	8
WITH M.I.P. VALVES			
OB-504	1/2" M.I.P. x 1/4" Compr.	5	10
WITH CPVC VALVES			
OB-514	1/2" CPVC x 1/4" Compr.	5	10
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-507	1/2" PEX x 1/4" Compr.	5	10

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



Metal Ice Maker Box With Water Hammer Arrestor

All the great features of our Metal Ice Maker Box with Water Hammer Arresters.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-509	1/2" M.I.P. x 1/4" Compr.	5	13
WITH CPVC VALVES			
OB-515	1/2" CPVC x 1/4" Compr.	5	13
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-518	1/2" PEX x 1/4" Compr.	5	13
WITH WIRSBO ProPEX® VALVES			
OB-520	1/2" WIRSBO x 1/4" Compr.	5	13

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



Ice Maker Outlet Box Valves

Quarter Turn Ball Valves. Durable brass resists cracking and corrosion. Easy on/off finger control. Valves are certified to ASME A112.18.1 Standard. Long lasting double stem O-rings and tough Teflon® seats.

INLET	OUTLET	STD. VALVE	VALVE W/ H. A.
M.I.P			
1/2"	1/4" Compr.	P-06288	P-06296
1/2"	3/8" Compr.	P-06440	P-06441
CPVC			
1/2"	1/4" Compr.	P-06293	P-06258
PEX (Fits Vanguard & Zurn)			
1/2"	1/4" Compr.	P-06302	P-06239
1/2"	3/8" Compr.	P-06442	P-06443
3/8"	1/4" Compr.	P-06462	P-06466
3/8"	3/8" Compr.	P-06463	P-06467
REHAU			
1/2"	1/4" Compr.	P-06425	P-06435
1/2"	3/8" Compr.	-	P-06436
3/8"	1/4" Compr.	P-06410	P-06412
3/8"	3/8" Compr.	P-06411	P-06413
WIRSBO ProPEX®			
1/2"	1/4" Compr.	P-06422	P-06335-WB
1/2"	3/8" Compr.	-	P-06447
ACCESSORIES / REPLACEMENT PARTS			
1/2" Plastic Nut For Mounting Valves			P-06068

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.





Sweat Pull Stop Box™
OBPS-101-RK



CPVC Pull Stop Box™
OBPS-102-RK



Crimp PEX Pull Stop Box™
OBPS-103-RK



WIRSBO/Uponor PEX Pull Stop Box™
OBPS-104-RK



CPVC FireStop™ Pull Stop Box™
OBFPS-102-RK-LL



Trim Kit
OBPS-200-W



Deep Trim Kit
OBPS-300D-W

Pull Stop Box™

The Pull Stop Box™ takes the hassle out of angle stop installation by eliminating the need to stub out. Moving the angle stop into the wall provides a sleek and sophisticated finished look. The decorative knob controls the flow of water to the supply line by actuating the valve in a push/pull motion. The valve can be easily replaced if needed.

☑ Lead Free product available.

PART NUMBER	DESCRIPTION	MSTR CTN QTY
ROUGH-IN KITS-INCLUDES BOX, VALVES AND PROTECTIVE COVER		
OBPS-101-RK	1/2" Sweat	10
OBPS-102-RK	1/2" CPVC	10
OBPS-103-RK	1/2" Crimp PEX	10
OBPS-104-RK	1/2" WIRSBO/Uponor PEX	10
OBPS-101-RK-LL	1/2" Sweat, Lead Free	10
OBPS-102-RK-LL	1/2" CPVC, Lead Free	10
OBPS-103-RK-LL	1/2" Crimp PEX, Lead Free	10
OBPS-104-RK-LL	1/2" WIRSBO/Uponor PEX, Lead Free	10
TRIM OUT KITS-INCLUDES KNOB AND ESCUTCHEON		
OBPS-200-W	White-Paintable	10
OBPS-300D-W	White-Paintable (Deep)	10
ACCESSORIES/REPLACEMENT PARTS		
P-06878	1/4 Turn Replacement Valve	144
P-06878-LL	1/4 Turn Replacement Valve, Lead Free	144



FireStop™ Pull Stop Box™

The FireStop™ Pull Stop Box™ is constructed of fire resistant PVC with a factory mounted intumescent pad. The OBFPS series are Warnock Hersey certified to ASTM E-814 and CAN/ULC S115 with 1 hour and 2 hour listings. Suitable for wood or metal studs and for all pipe types.

☑ All models are Lead Free.

PART NUMBER	DESCRIPTION	MSTR CTN QTY
ROUGH-IN KITS-INCLUDES BOX, VALVES AND PROTECTIVE COVER		
OBFPS-101-RK-LL	1/2" Sweat	10
OBFPS-102-RK-LL	1/2" CPVC	10
OBFPS-103-RK-LL	1/2" Crimp PEX	10
OBFPS-104-RK-LL	1/2" WIRSBO/Uponor PEX	10
TRIM OUT KITS-INCLUDES KNOB AND ESCUTCHEON		
OBFPS-200-W	White-Paintable	10
OBFPS-300D-W	White-Paintable (Deep)	10
ACCESSORIES/REPLACEMENT PARTS		
P-06878	1/4 Turn Replacement Valve	144
P-06878-LL	1/4 Turn Replacement Valve, Lead Free	144





Utility Box

Utility Box

Innovative box for multiple applications. Provides easy access to main water supply shut-off. Saves time and money. Utility Box includes compact 1" shut-off valve with butterfly-handle. Box is offered without valves for your own innovative applications. Dimensions: 6" x 6" x 3-3/8". Faceplate: 8" x 8".

PART NUMBER	DESCRIPTION	MSTR CTN QTY
WITHOUT VALVES		
OB-1200	White	10

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)



Angle Stop & Dishwasher Combination
Box W/ Hammer Arrester
OB-1212

Angle Stop & Dishwasher Combination Box

Angle Stop Box eliminates labor steps and material required to stub out for supply lines. Many different valve combinations available. Provides a more professional installation. Dimensions: 6" x 6" x 3-3/8". Faceplate: 8" x 8".

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WITH M.I.P. VALVES			
OB-1210	1/2" M.I.P. x 3/8" Compr.	10	2
OB-1211	Dishwasher Box, 1/2" M.I.P. x 3/8" Compr.	10	3
OB-1212	Dishwasher Box, 1/2" M.I.P. x 3/8" Compr. W/ Hammer Arrester	10	3
WITH CPVC VALVES			
OB-1220	1/2" CPVC x 3/8" Compr.	10	2
OB-1221	Dishwasher Box, 1/2" CPVC x 3/8" Compr.	10	3
WITH PEX VALVES (Fits Vanguard & Zurn)			
OB-1230	1/2" PEX x 3/8" Compr.	10	2
OB-1231	Dishwasher Box, 1/2" PEX x 3/8" Compr.	10	3
OB-1232	Dishwasher Box, 1/2" PEX x 3/8" Compr. W/ Hammer Arrester	10	3
WITH REHAU VALVES			
OB-1242	Dishwasher Box, 1/2" Rehau x 3/8" Compr. W/ Hammer Arrester	10	3
WITH WIRSBO ProPEX® VALVES			
OB-1250	1/2" WIRSBO x 3/8" Compr.	10	2
OB-1251	Dishwasher Box, 1/2" WIRSBO x 3/8" Compr.	10	3
OB-1252	Dishwasher Box, 1/2" WIRSBO x 3/8" Compr. W/ Hammer Arrester	10	3

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)





Perfect Fit™ Plastic Gas Outlet Box
GSB-101



Perfect Fit™ Plastic Gas Outlet Box
GSB-101-FX



Perfect Fit™ Plastic Gas Outlet Box
GSB-501



Deep Gas Box
OB-1260



FireStop™ Gas Box
GSFS-101

Perfect Fit™ Gas Outlet Box

All gas boxes are unassembled. Recessed construction eliminates line kinks. Reduced clearance from the wall keeps appliances out of the way. Finished, attractive installations. Includes mounting brackets and safety plug. Quarter Turn Ball Valve for easy shut-off. Valve is CSA and AGA approved.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
FOR IRON PIPE			
GSB-101	1/2" Valve	10	13
GSB-201	3/4" Valve	10	18
GSB-501	Metal, 1/2" Valve	10	24
GSB-601	Metal, 3/4" Valve	10	28
FOR CORRUGATED STAINLESS STEEL TUBING (CSST)			
GSB-101-FX	1/2" Valve	10	13
GSB-501-FX	Metal, 1/2" Valve	10	21

* Add "-T" to the end of the part number for Tract Pack (faceplates packaged separately)

Deep Gas Box

New, utility box for gas supply. Deep box design keeps valve recessed and out of the way of appliances. Ideal for 3/4" valve applications.

PART NUMBER	DESCRIPTION	MSTR CTN QTY
GAS OUTLET BOX		
OB-1260	1/2" Valve	10
OB-1261	3/4" Valve	10
OB-1262	1/2" Valve for CSST	10

* Add "-GP" to the end of the part number for Gas Pack (faceplates packaged separately)

FireStop™ Gas Box

The Industry's best, compact, fire-rated box available with gas valves for gas appliance applications. Dimensions: 5-11/16" x 3-7/8" x 2-5/8". Faceplate: 5-1/4" x 7-1/4".

PART NUMBER	DESCRIPTION	MSTR CTN QTY
GSFS-101	1/2" Valve	10
GSFS-201	3/4" Valve	10
FOR CORRUGATED STAINLESS STEEL TUBING (CSST)		
GSFS-101-FX	1/2" Valve	10
GSFS-201-FX	3/4" Valve	10

* Add "-GP" to the end of the part number for Gas Pack (faceplates packaged separately)





Faceplate Replacement

Faceplate Replacements

Standard faceplate—constructed of high-impact plastic; 5/8” depth. Deep plastic faceplate—accommodates two 1/2” thicknesses of drywall or up to 1” thick plaster; 1-1/4” depth.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
WASHING MACHINE			
P-00213	White, for FireStop™	100	-
P-00910	White, for Kahuna™	20	-
OB-781	White, for Tornado*	50	-
OB-900	Beige, for Switch Hitter®	100	17
OB-901	White, for Switch Hitter®	100	17
OB-902	Beige, for Switch Hitter® (Deep)	100	21
OB-903	White, for Switch Hitter® (Deep)	100	21
P-4163	White, for Metal WMOB, 20 Gauge	100	49
ICE MAKER			
P-00908	White, for Mini Ice Maker	20	-
P-00805	White, for FireStop™	40	-
OB-904	Beige, for Standard	100	17
OB-905	White, for Standard	10	-
P-4164	White, for Metal IMOB, 20 Gauge	200	-
UTILITY			
P-00961	White Louver, for AAV	-	-

* Includes mounting brackets



P-3703



P-3704



P-00961



P-3706

Air Admittance Valves

Faster. Better. Smarter.

Air Admittance Valves (AAV) provide an acceptable means for ventilating a plumbing drainage system without venting through the roof or to open atmosphere. AAVs ensure that no sewer gases or liquids will enter the building through the valve.

The AAV closes by gravity, sealing at zero-differential pressure and remains closed under positive internal pressure (back pressure). It opens under negative pressure to allow proper drainage to occur without siphoning of fixture traps.

AAVs are offered with adapters in three different sizes to handle all applications.

- Junior: Perfect for horizontal runs in residential applications.
- Senior: Great for stack or branch systems.
- US90 3": For large or commercial requirements.
- Wall Box and Louver offers a recessed clean look for AAVs in visible locations.

Code Approvals:

- Manufactured in compliance with ASSE 1051
- ICC Evaluation Service, Report 9731B
- Standard Plumbing Code
- International Plumbing Code
- International Residential Code

PART NUMBER	DESCRIPTION	MSTR CTN QTY
P-3700	Durgo Senior 1-1/2" - 2" W/ White ABS Adapter (20 DFU)	25
P-3701	Durgo Senior 1-1/2" - 2" W/ PVC Adapter (20 DFU)	25
P-3702	Durgo Junior 1-1/2" - 2" W/ White ABS Adapter (20 DFU)	25
P-3703	Durgo Junior 1-1/2" - 2" W/ PVC Adapter (20 DFU)	25
P-3704	Durgo US90 3"	12
OBAV-200	AAV Wall Box W/ Louver Faceplate	10
OBAV-3702	AAV Wall Box W/ Louver Faceplate & Durgo Jr 1-1/2" - 2" W/ White ABS Adapter	10
OBAV-3703	AAV Wall box W/ Louver Faceplate & Durgo Jr 1-1/2" - 2" W/ PVC Adapter	10
ACCESSORIES / REPLACEMENT PARTS		
P-00961	AAV Wall box Louver Faceplate	1 ea.
P-3705	1-1/2" White ABS Adapter	1 ea.
P-3706	1-1/2" PVC Adapter	1 ea.
P-3707	Durgo Junior Frost Cap	1 ea.
P-3708	Durgo Senior Frost Cap	1 ea.
P-3709	Durgo US90 3" Frost Cap	1 ea.



P-1059



P-1060



P-1060-26



P-1061



P-1062



P-1062-26



P-1063



P-1063-26



P-1065



P-1066



P-1068



P-1068-26



P-1071



P-1072



P-1073



P-1074



P-1075

Copper Plated PipeSecure™ Brackets

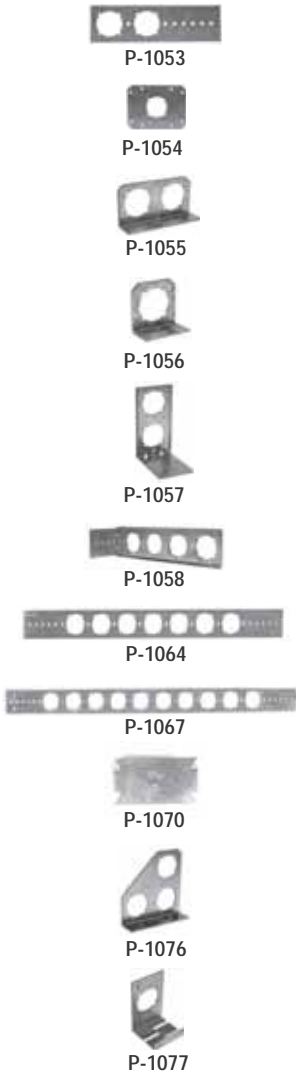
Unique manufacturing process ensures a uniform copper coat for a superior sweating surface. Durable construction for maximum strength and easier handling.


PART NUMBER	DESCRIPTION	MSTR CTN QTY
P-1059	20" Copper, 1/2" Holes 1-1/4" Wide	50
P-1060	20" Copper, 1/2" Extruded Holes 1-1/4" Wide	50
P-1060-26	26" Copper, 1/2" Extruded Holes 1-1/4" Wide	50
P-1061	26" Copper, 1/2" Holes 1-3/4" Wide	50
P-1062	20" Copper, 1/2" & 3/4" Alternating Holes	50
P-1062-26	26" Copper, 1/2" & 3/4" Alternating Holes	50
P-1063	20" Copper, 3/4" Holes & 1" Alternating Holes	50
P-1063-26	26" Copper, 3/4" Holes & 1" Alternating Holes	50
P-1065	20" Copper, 1/2" Holes 2" Centers, 3/4" & 1" Holes on 4" Centers	50
P-1066	20" Copper, Extruded Half Holes, 1/2" & 3/4" Holes	50
P-1068	20" Copper, 1/2" Extruded Holes 2" Centers, 3/4" & 1" Extruded Holes on 4" Centers	50
P-1068-26	26" Copper, 1/2" Extruded Holes 2" Centers, 3/4" & 1" Extruded Holes on 4" Centers	50
P-1071	1/2" x 9-1/2", Half Holes on 1" Centers, 3/4" on 2" Centers. Kits furnished W/ felt pad & SS Clamp	50
P-1072	3" x 9-1/2", Half Holes on 1" center. Kits furnished W/ felt pad & SS Clamp	50
P-1073	5" x 6-3/4" Extruded, 1/2" and 3/4" Holes	50
P-1074	Closet Carrier Bracket	50
P-1075	Closet Carrier Bracket, Open Top	50

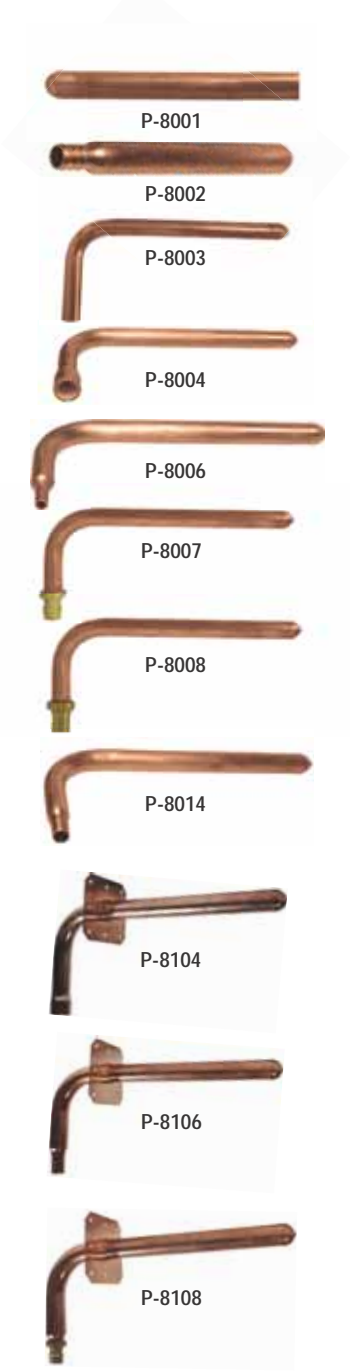


Galvanized PipeSecure™ Brackets

Sturdy, galvanized steel brackets with 1-3/8" keyed holes accommodate grommets for all pipe types, including glueable CPVC grommets, as well as the PEX Elbow (P-2021). Multiple configurations for all bracketing applications.



PART NUMBER	DESCRIPTION	MSTR CTN QTY
P-1053	2 Hole, Vertical, Flat Bracket	50
P-1054	1 Hole, Flat Bracket	50
P-1055	2 Hole, Side-by-side, Angled Bracket	50
P-1056	1 Hole, Angled Bracket	50
P-1057	2 Hole, Vertical, Angled Bracket	50
P-1058	4 Hole, Vertical, Angled Bracket	50
P-1064	20" Galvanized, 1-3/8" Notched Holes	50
P-1067	26" Galvanized, 1-3/8" Notched Holes	25
P-1076	3 Hole, Vertical/Horizontal, Angled Bracket	50
P-1077	1 Hole, Concrete Mount, Angled Bracket	50 
NAIL GUARD		
P-1070	Nail Guard, 3" x 1-1/2" Galvanized	50
P-1070-6	Nail Guard, 6" x 1-1/2" Galvanized	50



Copper Stub Outs

Reduce installation time and cost with convenient, pre-formed copper stub outs and elbows. Accepts sweat and compression valves. Available in multiple pipe types and configurations. Type L copper.

PART NUMBER	DESCRIPTION	MSTR CTN QTY
P-8001	1/2" x 1/2" Sweat, 6" Straight	50
P-8002	1/2" x 1/2" Vanguard PEX, 6" Straight	50
P-8003	1/2" x 1/2" Sweat, 8" Elbow	50
P-8004	1/2" x 1/2" CPVC, 8" Elbow	50
P-8006	1/2" x 3/8" Vanguard PEX, 8" Elbow	50
P-8014	1/2" x 1/2" Vanguard PEX, 8" Elbow	50
P-8007	1/2" x 1/2" WIRSBO, 8" Elbow	50
P-8008	1/2" x 1/2" Rehau, 8" Elbow	50
P-8103	1/2" x 1/2" Sweat, 8" Elbow W/ Flange	50
P-8104	1/2" x 1/2" CPVC, 8" Elbow W/ Flange	50
P-8106	1/2" x 3/8" Vanguard PEX, 8" Elbow W/ Flange	50
P-8107	1/2" x 1/2" WIRSBO, 8" Elbow W/ Flange	50
P-8108	1/2" x 1/2" Rehau, 8" Elbow W/ Flange	50
P-8114	1/2" x 1/2" Vanguard PEX, 8" Elbow W/ Flange	50



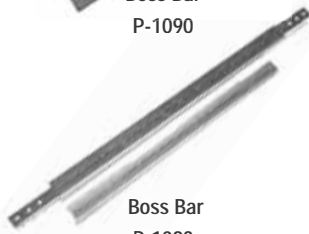
Grommets
P-2016



Grommets
P-2020



Boss Bar
P-1090



Boss Bar
P-1093



Lever Lock
P-2001

Grommets

Sized for metal studs or Galvanized PipeSecure Brackets. For use with Copper, PEX or CPVC.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
FOR ALL PIPE TYPE				
P-2016	1/2" CTS, Blue	100	1000	21
P-2017	3/4" CTS, Blue	100	1000	17.5
P-2018	1" CTS, Blue	100	1000	15
FOR CPVC PIPING (GLUEABLE)				
P-2019	1/2" CTS, White	100	1000	21
P-2020	3/4" CTS, White	100	1000	17.5



Boss Bar™ Adjustable Bracket

Our Boss Bar™ is a multipurpose, galvanized steel, adjustable sliding bracket designed to support all pipe types. Specially designed mounting ears allow attachment to wood, metal, steel or concrete. In side-by-side testing, the unique triangular design of the Boss Bar™ easily surpasses similar brackets in strength. Our Flexi-Fin™ and Acousto® pipe clamps easily attach with four self-tapping sheet metal screws that are included with each bracket.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
P-1090	10" Adjustable Sliding Bracket	50	18
P-1093	13" Adjustable Sliding Bracket	50	26

Lever-Lock™

Lever-Lock™ easily clamps down on any 1/2" pipe. Great for securing stub outs. No more soldering copper elbows when running PEX systems. Snaps easily into any 1-3/8" notched hole. Mounting ears allow for mounting directly to a stud. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY
P-2001	Lever-Lock Clamp, 1/2"	25	500





PEX Plug

PEX Test Plug

Innovative, new plug for testing 3/8" or 1/2" PEX stub outs under pressure up to 250 PSI. Simply screw the plug into place by hand – no tools or crimp rings required. Most cost-effective plug available for testing all brands of PEX. Designed for single use.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY
P-0048	3/8" For Testing	25	1250
P-0049	1/2" For Testing	25	1250



PEX Elbow
P-2021

PEX Elbow

Easiest PEX elbow to install allows plumber to bend pipe and quickly clip elbow into a PipeSecure™ bracket. The bend support works with any 1-3/8" keyed holes bracket. The PEX Elbow can also be fastened directly to the stud or stacked when two or more are needed. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY
P-2021	90° For 1/2" & 3/8" PEX	50	500



Stacked PEX Elbows,
mounted to stud



PEX Elbows installed in
PipeSecure Bracket (P-1064)



Talon Clamp With Nail

Talon Clamp With Nail

Constructed of high-impact plastic. Fast and easy to use. Pre-installed barbed nail prevents backout. Black in color.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-40429	3/8" CTS	100	1000	8
P-40433	1/2" CTS	100	1000	9.5
P-40434	3/4" CTS	100	1000	14.5
P-40435	1" CTS	50	500	11.5
P-40436	1-1/4" CTS	25	250	8



Full Clamp With Nail

Full Clamp With Nail

Constructed of high-impact plastic. Fast and easy to use. Pre-installed barbed nail prevents backout. Isolates tube from surface to reduce noise and protect tube from errant nails. Black in color.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-2070	1/2" CTS	100	1000	13
P-2071	3/4" CTS	50	500	10
P-2072	1" CTS	25	250	13



Single Nail Clamp

Single Nail Clamp

Constructed of high-impact plastic. Fast and easy to use. Pre-installed barbed nail prevents backout. Ribbed design completely encircles pipe. Use with copper, CPVC and PEX pipe. Beige in color. Patented design. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-2090	1/2" CTS	100	1500	16.5
P-2091	3/4" CTS	100	1000	13



Multi Fit Joist Clamp

Multi-Fit Clamps

Specially designed by contractors for contractors! Constructed of high impact plastic. Fast and easy to use. Ribbed design accommodates several pipe sizes. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
JOIST CLAMPS				
P-2073	1/2", 3/4", 1" CTS	50	200	10
P-2074	1-1/4", 1-1/2" CTS	50	200	9
P-2098	Joist Marking Tool	1 ea.	-	-
RAFTER CLAMPS				
P-2075	1/2", 3/4", 1" CTS	50	200	9
P-2076	1-1/4", 1-1/2" CTS	50	200	12

CTS: Copper Tube Size



Multi Fit Rafter Clamp



Flexi-Fin® Pipe Insulator

Flexi-Fin® Pipe Insulator For Wood & Metal Studs

Features patented fin design. Exterior fins securely fasten insulator to both wood and metal studs. Ideal for potable and hydronic water systems. Secure copper, CPVC and PEX. Drill 1-3/8" hole. Beige in color. Patented design. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-2086	1/2" CTS	100	1000	21
P-2087	3/4" CTS	100	1000	17.5
P-2089	1" CTS	100	300	6.5



Flexi-Fin® Insulating Suspension

Flexi-Fin® Insulating Suspension

Features patented fin design. High-ear design allows installation in hard-to-reach areas. Secures copper, CPVC and PEX pipe to both wood and metal framework. Use in both residential and commercial construction. Beige in color. Patented design. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-2062	1/2" CTS	100	1000	13
P-2063	3/4" CTS	100	1000	15.5
P-2064	1" CTS	50	250	6
P-2056	1-1/4" CTS	50	800	26.5
P-2058	1-1/2" CTS	25	600	23.5
P-2060	2" CTS	25	300	15



Flexi-Fin® Pipe Clamp

Flexi-Fin® Pipe Clamp

Patented fin design. Secures copper, CPVC and PEX pipe to both wood and metal framework. Use in both residential and commercial construction. Beige in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-2031	1/2" CTS	100	1000	12
P-2032	3/4" CTS	100	1000	13.5
P-2033	1" CTS	50	250	6
P-2025	1-1/4" CTS	50	800	28
P-2027	1-1/2" CTS	25	600	26
P-2029	2" CTS	25	300	21



Strut Clamp

Strut Clamp

Designed to work with channel bar. Completely encircles pipe. No tools needed for installation. Fits 1-5/8" track. Black in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-2041	1/2" CTS	50	1200	30.5
P-2042	3/4" CTS	50	900	27
P-2043	1" CTS	50	600	21
P-2044	1-1/4" CTS	50	600	33
P-2045	1-1/2" CTS	25	500	31
P-2046	2" CTS	25	300	23

CTS: Copper Tube Size





Acousto® Lator

Acousto® Lator

Keeps pipes from touching noise-transmitting surfaces such as wood & metal studs. Features high-impact plastic construction with special acoustic lining. Fish-hook lugs hold insulator securely in place. Drill 1-3/8" hole. For best results, use with PipeSecure™ Pipe Brackets. Made in the U.S.A..

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-6301	1/2" CTS	25	500	22
P-6302	3/4" CTS	25	500	16



Acousto® Clamp

Acousto® Clamp

Special acoustic lining completely encircles pipe to insulate it and absorb noise vibrations. Secures water pipe to joists. Constructed of durable high-impact plastic. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-6101	1/2" CTS	25	700	21
P-6102	3/4" CTS	25	400	20
P-6103	1" CTS	25	300	17
P-6104	1-1/4" CTS	25	300	25



High-Ear Acousto® Clamp

High-Ear Acousto® Clamp

High-ear design may be nailed to floor or ceiling joists or broken off during installation. Grooved body allows attachment to ceiling joists using a clevis hanger. Features high-impact plastic construction with special acoustic lining. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-6201	1/2" CTS	25	700	21.5
P-6202	3/4" CTS	25	500	22.5
P-6203	1" CTS	25	300	19
P-6204	1-1/4" CTS	25	300	25



Acousto® Pad

Acousto® Pad

Isolates pipe from surface contact with structure and dry wall. Use when installing pipe for shower risers, for tub drops, and through finished walls. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-6701	Acousto Pad	25	250	38

CTS: Copper Tube Size





Acousto® Scutcheon

Acousto® Scutcheon

Supports water supply line nipples that protrude from wall. Provides an attractive cover plate. Prevents pipe from contacting wall board, plaster or paneling. Special acoustic lining absorbs noise vibrations. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-6401	1/2" Ivory	50	400	21
P-6410	1/2" Chrome	50	400	21



Acousto® Kit
P-6721



Acousto® Kit
P-6730

Acousto® Kit

Choose from a variety of kits for sinks and toilet installations. All kits include 1/2" Acousto® Lator 20" or 26" bracket.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
P-6721	Sink/Lav 26" Bracket 2 Ea P-6301	50	24
P-6730	Toilet 20" Bracket 1 EA P-6301	50	31
P-1064	20" Galvanized, 1-3/8" Notched Holes, Bracket Only	25	15
P-1067	26" Galvanized, 1-3/8" Notched Holes, Bracket Only	25	18



Mini-Hammer Arrester
P-06390



Mini-Hammer Arrester
P-06396



Mini-Hammer Arrester
P-06399

Mini-Hammer Arrester

Eliminates water hammer problems. AA size rating. Can be installed vertically or horizontally. Machined fittings for superior quality. Spun copper top for unobtrusive, clean look. NSF compliant; UPC certified. No access panel required.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
P-06379	1/2" Crimp PEX	50	17
P-06389	1/2" M.I.P.	50	17
P-06390	1/2" CPVC	50	20
P-06391	1/2" Male Sweat	50	17
P-06392	3/4" Male Sweat	50	18
P-06393	3/8" PEX tee	50	23
P-06394	1/2" PEX tee	50	26
P-06395	1/4" O.D. Compr. tee	50	36
P-06396	3/8" O.D. Compr. tee	50	36
P-06397	5/8" O.D. Compr.	50	20
P-06398	5/8" O.D. Compr. tee	50	19
P-06399	3/4" F.G.H.T. x 3/4" M.G.H.T.	50	32
P-06400	3/8" O.D. FEM x 3/8" O.D. Compr.	50	35
P-06401	5/8" O.D. FEM x 5/8" O.D. Compr.	50	41
P-06402	1/2" FEM Sweat x 1/2" Male Sweat	50	20





Plastic Plumber's Tape

Plastic Plumber's Tape

Provides maximum 100 lbs. tensile strength. 1/8" holes on 3/4" centers. Used to support potable water piping. Eliminates rust or electrolysis problems. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY
P-1011	3/4"	100' Roll	24



Hang'Em® II Pipe Hanger

Hang'Em® II Pipe Hanger

Replaces galvanized straps. Constructed of heat-resistant plastic. Fits all Schedule 40 DWV pipe sizes up to 4" in diameter. Features adjustable zip-strap. "Triple-beam" yoke construction. 1/2" grade/flow indicators allow more accurate installations. Ultrasonically welded. Patented design. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-1602	Hanger Kits 2' Rod	25	25	6
P-1604	Hanger Kits, 4' Rod	25	25	10
P-10132	Strap Only	25	25	2



J-Hook

J-Hooks

Strong and rigid I-Beam design. Supports drain-waste and vent piping from joists and rafters. Two captive nails and nail holes on all four sides. Made of corrosion-proof, high-impact ABS.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY
P-1610	1-1/2" W/ Nail	25	125
P-1612	2" W/ Nail	25	125
P-1613	3" W/ Nail	25	100
P-1614	4" W/ Nail	25	75



Plasti-Sleeve Pipe Protector

Plasti-Sleeve Pipe Protector

For use with copper, PEX, CPVC, and ABS/PVC, as listed below. Economical and efficient. Protects 1/2", 3/4", 1" and 2" pipe during installation. Flexible material forms a seal around pipe in concrete. Packaged in self-dispensing box. 180° F maximum. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
FOR USE WITH ALL PIPE MATERIAL, INCLUDING CPVC (POLYETHYLENE)				
P-3013	1" Red / 4 mil	200' Roll	20	44
P-3014	1" Black / 4 mil	200' Roll	20	47
P-3015	1" Blue / 4 mil	200' Roll	20	45
P-3016	2" Blue / 4 mil	200' Roll	8	28
P-3020	1" Clear / 4 mil	200' Roll	20	47
FOR USE WITH ALL PIPE MATERIAL, EXCEPT CPVC				
P-3044	2" Blue / 27 mil	50' Roll	1 ea.	5
P-3045	2" Red / 27 mil	50' Roll	1 ea.	5
P-3046	3/4" Blue / 27 mil	50' Roll	1 ea.	4
P-3047	3/4" Red / 27 mil	50' Roll	1 ea.	3.5
P-3048	1" Blue / 27 mil	50' Roll	1 ea.	4.5
P-3049	1" Red / 27 mil	50' Roll	1 ea.	4.5



Right-Tite® II Tub Box
P-3000

Tub Boxes

Patented, improved closure makes assembly a snap. More pipe knockouts - 10 total, compatible with 1-1/2" and 2" pipe. Angled corner increases versatility. Zip ties included for rebar anchoring. High-impact injection molded plastic. Use in concrete slabs, wood floors and multi-story flooring. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-3000	14-7/8" x 14-7/8" x 7" Deep	5 Pair	5	17



Plastic Tub Box by Benjamin
1313

Tub boxes by Benjamin Mfg. Constructed of high impact plastic. Will not fall apart when exposed to rain or water. Easily cut with utility knife for openings. Rodent proof. Can be used individually or in pairs.

PART NUMBER	DESCRIPTION	MSTR CTN QTY
1313	13" x 13" x 7" Deep	12
1410	12" x 8" x 6" Deep	36



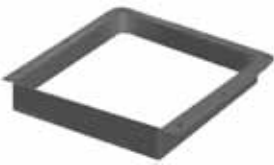
Stabilizer
P-3006

Stabilizer

Ideal for wooden floors or concrete slab applications. Prevents bend or riser from moving to eliminate water closet rocking. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-3006	4" Flush	1 ea.	75	26





Light Pour Time-Savers Stokes™ Tub Dam
P-3092

Light Pour Time-Savers Stokes™ Tub Dam

Single piece construction cans out tub cavity for waste and overflow connection. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
P-3092	1-1/2" Height	25	9



Sure-Sleeve® Plastic Hole Form

Sure-Sleeve® Plastic Hole Form

Use vertically and horizontally for both floor and wall installations. For use in electrical, mechanical and plumbing installations and concrete casting applications. Stackable feature allows extension to higher elevations. Height - 8". Patented design. NOTE: Use 1 size larger than pipe size. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY
P-3050	1-1/2" 1° - 3° Taper	120
P-3051	2" 3° Taper	90
P-3060	3" 3° Taper	45
P-3061	4" 3° Taper	45
P-3062	5" 3° Taper	24
P-3063	6" 3° Taper	24
P-3064	8" 3° Taper	36
P-3056	10" 1° Taper	12
P-3057	12" 1° Taper	12



Multi-Purpose Pipe Holder - PVC

Multi-Purpose Pipe Holder

Secures pipe to forms during the concrete pour. Scored tail piece snaps off when stripping from boards. Solvent cements to pipe. Made of high-impact plastic. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-1039	1-1/2" - 2" PVC	50	500	38
P-1040	3" - 4" PVC	25	300	30
P-1009	1-1/2" - 2" ABS	50	500	28
P-1010	3" - 4" ABS	25	300	19



Multi-Purpose Pipe Holder - ABS

Light Pour Time-Savers Stokes™ Closet Ring

Single piece ring-stabilizer. Preset closet ring heights. Special ring slot for closet bolts. Patented design. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
P-3070	3/4" H for 3" ABS	20	26
P-3074	1-1/2" H for 3" ABS	20	39
P-3076	3/4" H for 4" ABS	20	22
P-3078	1" H for 4" ABS	20	36
P-3079	1" H for 4" PVC	20	50
P-3080	1-1/2" H for 4" ABS	20	39



Light Pour Time-Savers Stokes™ Closet Ring
P-3079



Inset Plug On



Cap On



Slip On



Cap All

Inset Plug On

Designed for ABS or PVC Schedule 40 DWV pipe. Hinged knockouts prevent center from falling into pipe. Constructed of high-impact plastic. White in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-0002	1-1/2"	100	1000	9.5
P-0003	2"	100	1000	13
P-0004	3"	50	500	14
P-0005	4"	25	200	12.5
P-0006	6"	10	200	27



Cap On

Designed for ABS or PVC Schedule 40 DWV pipe and fittings. Hinged knockouts prevent center from falling into pipe. Constructed of high-impact plastic. White in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-0014	1-1/2"	100	1600	33
P-0015	2"	100	1600	42
P-0016	3"	50	700	47.5
P-0017	4"	25	250	25



Slip On

"Friction-hold" test cap for one story testing. Designed for ABS or PVC Schedule 40 DWV pipe and fittings. No solvent cementing required; cap slips over end of pipe or inserts into fittings. Orange in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-0018	1-1/2"	50	900	25
P-0019	2"	50	600	25
P-0020	3"	20	280	27
P-0021	4"	10	150	23



Cap All

Use above or below ground to test ABS, PVC Schedule 40 DWV, steel, cast iron or copper pipe. Reusable for greater economy. Features all-stainless-steel band and screw. Black in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-0029	1-1/2"	50	50	7
P-0030	2"	50	50	8
P-0031	3"	25	25	7
P-0032	4"	25	25	9.5
P-0038	5"	25	25	16
P-0039	6"	20	20	15
P-0040	8"	15	15	16.5





End Cap
PVC



End Cap
ABS

End Cap

Heavy-duty design has been tested to 100 psi. Solvent cements to pipe. Offers an economical alternative to conventional Schedule 40 DWV test caps. PVC: White in color. ABS: Black in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
PVC				
P-0071	1-1/2" PVC	100	2000	32.5
P-0072	2" PVC	100	1200	47.5
P-0073	3" PVC	25	500	40.5
P-0074	4" PVC	25	400	48
ABS				
P-0075	1-1/2" ABS	100	2000	52
P-0076	2" ABS	100	1200	49
P-0077	3" ABS	25	500	39
P-0078	4" ABS	25	400	37



Wing Nut Plug

For testing all plastic, cast iron and DWV soil pipes. No tools required; extra large wing nut makes it easy to hand tighten. Reusable for greater economy. Built-in hose connection. Blue and orange in color. Made in the U.S.A.



Wing Nut Plug

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-0033	1-1/2"	10	100	21
P-0034	2"	10	100	25
P-0035	3"	10	50	16
P-0036	4"	5	25	13.5
P-0037	6"	5	40	38



Expansion Dollar Plug

Expansion Dollar Plug

For testing all plastic, cast iron and DWV pipe. No tools required; extra large wing nut makes it easy to hand tighten. Reusable for greater economy. Blue and orange in color. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PARTS/BAG	MSTR CTN QTY	LBS
P-0044	1-1/2"	10	120	12
P-0045	2"	10	100	14
P-0046	3"	10	50	12
P-0047	4"	5	25	11





Neo-Poly Roof Flashing

Neo-Poly Roof Flashing

Injection molded poly base. TPR collar molded onto base to form one-piece permanent bonding of materials. Accommodates roofs from 0 to 45 degrees. Not for hot mop applications. Eliminates leaks by compressing around the pipe, creating a watertight seal. Resists extreme weather conditions and exposure to UV light.

PART NUMBER	DESCRIPTION	PIPE SIZE	MSTR CTN QTY	LBS
P-6150	8-7/8" x 11-3/4"	1-1/4"–1-1/2"	12	4
P-6200	8-7/8" x 11-3/4"	2"	12	4
P-6300	10-3/4" x 13-5/8"	3"	12	6
P-6400	11-3/4" x 15-3/4"	4"	12	7
MULTI-FIT				
P-7123	10-3/4" x 13-5/8"	1-1/2", 2", 3"	12	7



Galvanized Roof Flashing

Galvanized Roof Flashing

Self-sealing design allows for pipe expansion and contraction. Resists weather and exposure to UV light. Use with ABS, PVC, galvanized and cast iron DWV pipe. 25 gauge.

PART NUMBER	DESCRIPTION	PIPE SIZE	MSTR CTN QTY	LBS
P-4030	8-3/4" x 12-5/8"	1-1/4"–1-1/2"	12	10
P-4031	8-3/4" x 12-5/8"	2"	12	10
P-4032	10-3/4" x 14-1/2"	3"	12	15
P-4033	11-3/4" x 15-1/2"	4"	12	17



MULTI-FIT				
P-8123	10-3/4" x 14-1/2"	1-1/2", 2", 3"	12	16
P-8034	11-3/4" x 15-1/2"	3", 4"	12	19



Aluminum Roof Flashing

Aluminum Roof Flashing

Self-sealing design allows for pipe expansion and contraction. Resists weather and exposure to UV light. Use with ABS, PVC, galvanized and cast iron DWV pipe. 25 gauge.

PART NUMBER	DESCRIPTION	PIPE SIZE	MSTR CTN QTY	LBS
P-4042	8-3/4" x 12-5/8"	1-1/4"–1-1/2"	12	5
P-4043	8-3/4" x 12-5/8"	2"	12	5
P-4044	10-3/4" x 14-1/2"	3"	12	7
P-4045	11-3/4" x 15-1/2"	4"	12	8



MULTI-FIT				
P-9123	10-3/4" x 14-1/2"	1-1/2", 2", 3"	12	7
P-9034	11-3/4" x 15-1/2"	3", 4"	12	9



Hard Base Poly Roof Flashing

Hard Base Poly Roof Flashing

Flexible design conforms to roof shakes, shingles, and flat tile for a universal fit. Eliminates leaks by compressing around the pipe, creating a watertight seal. Resistant to extreme weather temperatures, ultra-violet rays, moisture and salt air corrosion. Use with all plastic DWV pipe systems. Features nail holes for easy installation. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PIPE SIZE	MSTR CTN QTY	LBS
P-4150	13-1/16" x 8-7/8"	1-1/2"	25	9
P-4200	13-1/16" x 8-7/8"	2"	25	9
P-4300	16-5/32" x 11-9/16"	3"	25	15
P-4400	16-5/32" x 11-9/16"	4"	25	14.5



Flex-All™ Soft Base Roof Flashing

Flex-All™ Soft Base Roof Flashing

Accommodates 0 to 40 degrees. Flexible design conforms to roof shakes, shingles, and flat tile for a universal fit. Eliminates leaks by compressing around the pipe, creating a watertight seal. Resistant to extreme weather temperatures and ultra-violet rays. Use with all plastic DWV pipe systems. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PIPE SIZE	MSTR CTN QTY	LBS
P-5150	11-1/4" x 8-7/8"	1-1/4", 1-1/2"	25	11
P-5200	11-1/4" x 8-7/8"	2"	25	12
P-5300	13-1/4" x 9-7/8"	3"	25	16



Poly Pipe Vent Shield

Poly Pipe Vent Shield

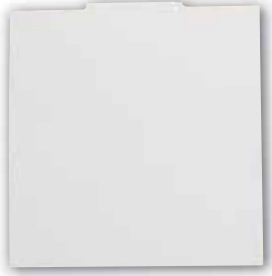
Requires no tools or mastics for sealing. Constructed of durable weather resistant materials. For use with ABS, PVC, galvanized or cast iron DWV pipe. Made in the U.S.A.

PART NUMBER	DESCRIPTION	PIPE SIZE	MSTR CTN QTY	LBS
P-4190	1-1/2"	25	300	20
P-4191	2"	25	225	21
P-4192	3"	25	125	14
P-4193	4"	25	100	14





Access Panels - Plastic



Access Panels - Plastic



Access Cover - Plastic

Access Panels - Plastic

Provides access to pumps on whirl pools and spas, tub/shower valve bodies, hidden shut off or regulating valves, trap primers, clean outs, etc. Made in the U.S.A.

- Nothing to wear out
- No snaps
- No screws
- No hinges
- No springs
- White
- Beveled edge
- Texture finish
- Can be painted
- High impact plastic

PART NUMBER	SIZE I.D. W x H	SIZE O.D. W x H	QTY
AP55	4.75" x 4.75"	7.5" x 8"	12
AP88	8" x 7.875"	11.75" x 11.75"	12
AP96	9.125" x 6.125"	12.375" x 9.5"	12
AP1212	11.375" x 11.25"	14.75" x 14.625"	12
AP1414	13.35" x 13.25"	16.75" x 16.625"	12
AP1426	13" x 25.625"	16.75" x 29.5"	12



Access Cover - Plastic

- An inexpensive way to cover an access panel
- Pre-drilled holes in corners
- Textured finish for easy painting
- High impact plastic material
- Made in the U.S.A.

PART NUMBER	SIZE O.D. W x H	QTY
ACF-1212	12" x 12"	20
ACF-1717	17" x 17"	20





Flat White



Flat Chrome



Bell White



Bell Chrome

Clean Out Cover Plates

- Available in chrome/matte finish (stops unsightly scratches & marks) or pure white/matte finish (paintable)
- Made of durable high-impact plastic (will not rust or corrode)
- Provided with #14 screw (easy installation into plastic plug)
- Each cover plate is individually bagged
- High quality - inexpensive
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	FINISH	QTY
FLAT CLEAN-OUT COVER PLATES - FOR USE WHEN CLEAN OUT IS WITHIN WALL CAVITY			
R-1538*	4-1/2" Flat	Chrome	20
104FC	4-1/4" Flat	Chrome	25
R-1539*	5-1/2" Flat	Chrome	20
105FC	5-1/4" Flat	Chrome	25
107FC	7-1/4" Flat	Chrome	25
109FC	9-1/4" Flat	Chrome	10
104FW	4-1/4" Flat	White	25
105FW	5-1/4" Flat	White	25
107FW	7-1/4" Flat	White	25
109FW	9-1/4" Flat	White	10
R-1278*	4-1/2" Flat	Unplated	20
R-1279*	5-1/2" Flat	Unplated	20
BELL CLEAN-OUT COVER PLATES - FOR USE WHEN CLEAN OUT FITTING EXTENDS OUTSIDE WALL CAVITY			
R-1542*	4-1/2" Bell	Chrome	20
104BC	4-1/4" Bell	Chrome	25
R-1543*	5-1/2" Bell	Chrome	20
105BC	5-1/4" Bell	Chrome	25
107BC	7-1/4" Bell	Chrome	25
109BC	9-1/4" Bell	Chrome	10
104BW	4-1/4" Bell	White	25
105BW	5-1/4" Bell	White	25
107BW	7-1/4" Bell	White	25
109BW	9-1/4" Bell	White	10
R-1282*	4-1/2" Bell	Unplated	20
R-1283*	5 1/2" Bell	Unplated	20

* Not Made in the U.S.A.





Corrugated Closet Bend
1100



Cardboard Tub Box
1300



Foam Spacer
FS24



In-Sul Wrap
6200

Corrugated Spacer

- Made of corrugated cardboard
- Keeps concrete from pipe
- Easily installed
- Great labor saver - eliminates need to chip out concrete
- Replaces Styrofoam, coffee can and duct tape
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	SIZE	QTY
1100	Closet Bend Protector	6" High 4" x 6"	100
1300	Cardboard Tub Box	6" Deep 14 1/2" x 12"	25
1300W	Waxed Tub Box (water resistant)	8-1/2" Deep 12" x 8"	25
2600	Deep Tub Box	12" Deep 14 1/4" x 12"	25



Foam Spacer

- Easily installed
- Keeps concrete from pipe
- Replaces Styrofoam, coffee can and duct tape
- Great labor saver- eliminates need to chip out concrete

PART NUMBER	DESCRIPTION	QTY
FS24	4" High 2" x 6"	36
FS44	4" High 4" x 6"	60

In-Sul Wrap

- EASIER to install than fiberglass
- FASTER to install than duct tape
- COST of material is far below that of duct tape or fiberglass
- IN-SUL WRAP can be pinned with nails or taped for fast securing
- IN-SUL WRAP will conform to fittings and pipe using far less material compared to other wraps
- INSULATION FACTOR 0.75 per wrap

PART NUMBER	DESCRIPTION	QTY
6200	3/32" x 6" x 200'	5 Rolls



Handi-Cap Wrap
HCW24

Handi-Cap Wrap Multi-Purpose Foam Tape

- A closed polyethylene foam specifically designed for wrapping traps and supplies in public restroom, pipe wrap, etc.
- Pressure sensitive adhesive backing
- Full 2" adhesive coverage (will not curl)
- Installs fast and easy
- Multi-Use / Insulation
- White color for pleasing appearance
- Meets ADA requirements
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
HCW24	0.125" x 2" x 40' Roll	24



Bin Box

Bin Boxes

- Assembles in seconds
- Organizes existing shelf space
- Self-locking construction keeps bins rigid on shelf
- All dimensions listed are outside dimensions
- Slanted open front for fast identification
- Crisp white finish for easy legibility when marked
- Stores flat until ready for use
- Needs no tape, tools, or staples to set up
- Furnished knocked down flat in bundles
- Made in the U.S.A.

PART NUMBER	DESCRIPTION W x L x H	QTY
BB212	2" x 12" x 4.5"	1 ea.
BB412	4" x 12" x 4.5"	1 ea.
BB418	4" x 18" x 4.5"	1 ea.
BB812	8" x 12" x 4.5"	1 ea.
BB818	8" x 18" x 4.5"	1 ea.
BB1212	12" x 12" x 4.5"	1 ea.
BB1218	12" x 18" x 4.5"	1 ea.





Chemical Tray
T1040



Saddle Tray
T1065



Tote Tray
T1000



Tote Tray
T1025



Tote Tray
T1050



Tote Tray
T1075

Chemical Tray

- Don't let your chemicals freeze in the winter weather
- Organize your chemicals to quickly transport on site or inside at night
- Carrier holds combinations of half pint, pint and quart cans
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
T1040	13" x 10.5" x 2.75"	5



Saddle Tray

- Tray and lid made of high density polyethylene
- Will not rust or corrode
- Acids, harsh chemicals and oils will not harm
- Glue will not stick to them
- Will withstand temperature from 250°F to minus 40°F
- Reinforced handle
- Snap on lid to keep parts and tools clean and dry
- Six removable dividers for compartment preference
- Sits on 2" x 4", 2" x 6" etc.
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
T1065	22" x 14" x 8" High	5
T1065-L	T1065 W/ Lid	1 ea.
T1065-XD	T1065 Dividers	1 ea.



Tote Trays / Organizers

All trays are made of high density polyethylene. They will not rust or corrode and acids, harsh chemicals and oils will not harm them. Glue will not stick to them and they will withstand temperatures from 250°F to minus 40°F. These trays are great truck organizers and have incredible industrial strength reinforced handles. Made in the U.S.A.

T1000: Tray can be divided into compartments as small as 4.5"x 1.5". Tray comes with four dividers. Extra dividers are available at extra cost.

T1025: Deep handy carrier with extra duty handle. Does not have dividers like other models.

T1050: Tray can be divided into the same size compartments as T1000 tray, except 5" in depth. Tray comes with four dividers. Extra dividers are available at extra cost.

T1075: Just the right tray for carrying longer tools and bulky parts such as copper or galvanized fittings. This also makes an excellent nail box. Can be divided into 8 compartments 6"x 5"x 6" deep. Comes with four dividers.

PART NUMBER	DESCRIPTION	QTY
T1000	15" x 9" x 3"	10
T1000-XD	T1000 Dividers	1 ea.
T1025	16-3/4" x 11-3/4" x 4-1/2"	5
T1050	15" x 9" x 5"	10
T1050-XD	T1050 Dividers	1 ea.
T1075	24" x 12" x 6"	5
T1075-XD	T1075 Dividers	1 ea.





Nipple Caddy
T1007



Nipple Caddy
T1015



Nipple Caddy
T1057



Dirt Rider
T1075-DR



Ladder Ledge
T1050-LL

Nipple Caddies

- Made of high density polyethylene
- Will withstand harsh chemicals, acids and oils
- Will not rust or corrode or cause nipples to rust
- When bent or crushed, will spring back into shape leaving no permanent damage
- Great in cold weather (material tested to minus 40°F)
- Drain holes in bottom lets caddy drain
- Strong enough to take abuse yet half the weight of metal
- Bottom design holds nipples up and keeps them out of water and other liquids
- Perfect for every plumber's truck
- Made in the U.S.A.

PART NUMBER	NIPPLE SIZE	OUTSIDE DIMENSION	QTY
T1005	1/2"	11-1/4" x 7-3/4" x 8-3/4" Tall	4
T1007	3/4"	13-3/4" x 8" x 8-3/4" Tall	4
T1010	1"	15-1/4" x 8-1/4" x 8-3/4" Tall	4
T1015	1-1/2"	21-1/4" x 7-1/4" x 9-3/4" Tall	2
T1020	2"	23-1/2" x 8-3/4" x 10-1/2" Tall	2
T1057	1/2" / 3/4" Combo	18-1/2" x 8-1/4" x 8-3/4" Tall	4



Dirt Rider

- No more dragging tool boxes and parts through the dirt! Take all the tools and parts in one trip.
- Constructed of high molecular weight polyethylene
 - Use by itself for tools and parts or snap on the popular Benjamin T1075 tote tray
 - Glides over dirt on two runners
 - Comes with a 6 ft. rope
 - Easy to clean, simply hose off
 - Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
T1075-DR	29" x 14" x 3-1/2"	5
T1075-DRTT	29" x 14" x 7" (W/ T1075 Tote Tray)	1 ea.



Ladder Ledge

- Keeps parts & tools at easy reach when working off a ladder
- Fits most OSHA approved step ladders
- T1050 tote tray can easily be removed from T1050 Ladder Ledge
- Will not rust or corrode
- Great for holding parts, tools, chemicals, etc.
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
T1050-LL	10" x 11" x 6"	5
T1050-LLTT	12" x 16" x 10" (W/ T1050 Tote Tray)	1 ea.





Water Heater Pan - Plastic

Water Heater Pan - Plastic

- Recommended and installed by the leading plumbing contractors
- Protects against water damage caused when water heaters start leaking
- Simple to install - Just set water heater into pan when installing
- Available with or without a drain hole in the side
- Pans come with a 1" drain adapter fitting
- Pans without drain holes can be drilled in the field to allow custom placement for drain in side or bottom of pan
- Will not rust or corrode
- Round design enables pan to be installed in small areas
- Comes in seven nominal sizes (19" - 20" - 22" - 24" - 26" - 28" - 30")
- Made in the U.S.A.

See specifications for actual I.D. and O.D. dimensions.

PART NUMBER	DESCRIPTION	WEIGHT	QTY
DRILLED			
WHP19-1D	19" I.D. Drilled	.75 lb.	20
WHP20-1D	20" I.D. Drilled	.75 lb.	20
WHP22-1D	22" I.D. Drilled	1 lb.	20
WHP24-1D	24" I.D. Drilled	1.25 lb.	20
WHP26-1D	26" I.D. Drilled	1.5 lb.	20
WHP28-1D	28" I.D. Drilled	1.5 lb.	20
WHP30-1D	30" I.D. Drilled	1.75 lb.	6
SPF-100	1" Adapter		1 ea.
UNDRILLED			
WHP19-1U	19" I.D. Undrilled		20
WHP20-1U	20" I.D. Undrilled		20
WHP22-1U	22" I.D. Undrilled		20
WHP24-1U	24" I.D. Undrilled		20
WHP26-1U	26" I.D. Undrilled		20
WHP28-1U	28" I.D. Undrilled		20
WHP30-1U	30" I.D. Undrilled		6
SPF-100	1" Adapter		1 ea.



Washing Machine Saf-T-Pan

Washing Machine Pan

Why have a leaking or overflowing washer ruin the floor?

- Made of heavy gauge high-impact plastic
- Pan will not rust or corrode
- Available with or without a drain hole in the side
- Pans come with 1" drain adapter fitting
- Different model number for each option make it easy to get the pan you want
- Pans without drain holes can be drilled in the field to allow custom placement of drain in side or bottom of pan
- Made in the U.S.A.
- O.D. Dimensions (outside at top of pan): 32-1/2" x 30-3/4" x 2-1/4"
- I.D. Dimensions (inside at bottom of pan): 30" x 28" x 1-3/4"

PART NUMBER	DESCRIPTION	QTY
WMSP-1U	29" x 27" Undrilled	10
WMSP-1D	29" x 27" Drilled	10



Tub Protectors

The Original Patented Foam Based Tub Protector. An Inexpensive Way to Protect Your Valuable Tub.

- Made of heavy gauge high-impact plastic
- Soft foam bottom grips tub surface to protect finish from the abrasive action resulting from a protector moving under workman's feet
- No set up or assembly time as you just pull out of the box and drop it into the tub
- Nest together for space-saving storage
- Most durable protectors yet, can often be reused
- Fits both left and right-hand drain tubs
- Larger sizes are available and we can make custom fit protectors for larger jobs
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
FOAM BOTTOM TUB PROTECTORS		
TP6030-14	60" x 30" x 14"	35
TP6030-16	60" x 30" x 16"	35
TP6042-16	60" x 42" x 16"	25
TP6030-14-B	BULK	315
TP6030-16-B	BULK	315
NO FOAM BOTTOM TUB PROTECTORS		
TP6030-14-NF	60" x 30" x 14"	35
TP6030-16-NF	60" x 30" x 16"	35
TP6042-16-NF	60" x 42" x 16"	25
TP6030-14-NF-B	BULK	315
TP6030-16-NF-B	BULK	315



Foam Bottom



Multi-Fit Shower Base Protector
SBP-6036MF



Flex Poly



Custom Tub Protectors

Multi-Fit Shower Base Protector

SBP-6036MF fits 9 sizes of shower bases

Use right out of the box for 60" x 32", 60" x 34", 60" x 36" bases -or-

Cut off small end on left side for use in 48" x 32", 48" x 34", 48" x 36" bases -or-

Cut off large end on right side for use in 36" x 32", 36" x 34", 36" x 36"

- Made of high impact plastic with foam pad bottom. Foam pad grips the shower base to protect finish from abrasive action.
- Nest together for space saving storage. Fits left hand, right hand or center drain pans.
- Made in the U.S.A.

PART NUMBER	DESCRIPTION	QTY
SBP-6036MF	58" x 35" x 3"	50



Flex Poly

Allows you to get tub protection even on small jobs. Now you can order as few as one tub protector at a time.

- Made of flexible poly to resist mud, dirt and paint. Foam bottom to prevent scratching and abrasion.
- Folds to a carton size of 19" x 8" x 19". Comes in over 100 different shapes and sizes.
- Made in the U.S.A.

Add "-FP" to the end of the part number for Flex Poly.



Custom & Oversized Tub Protectors

Now offering custom and oversized protectors in hundreds of styles. Custom Tub Protector order form located in the back of catalog.

CORNER TUBS, ROUND TUBS, OVAL TUBS, RECTANGLE TUBS, HOUR GLASS TUBS, KOHLER, JACUZZI, AMERICAN STANDARD, AND MANY OTHER MANUFACTURERS



InsulationTM

Polyolefin foam insulation provides exceptional performance for thermal insulation, shock absorption, and sound dampening. It is extremely low in water absorption and moisture vapor transmission, making it ideal for many applications.

Rubber insulation is used to retard heat gain and prevent condensation on cold water plumbing and air conditioning lines. The closed-cell structure is non-porous, resists mold growth, and provides effective moisture vapor resistance. The tough skin withstands tearing, rough handling, and severe environmental conditions. Factory-applied talc coating allows it to easily slide onto the pipe during installation.



Polyolefin Foam (Self-Sealing, Half-Slit)	50
Rubber Un-Slit	52
Rubber Seam Seal	54



Foam (Self-Sealing, Half-Slit)

Polyolefin foam insulation is available in a wide variety of sizes and styles. Whether you require an un-slit design for a slide on application or a peel and seal design for existing projects, LSP carries the right foam insulation product for you. Made in the U.S.A.



NOMINAL WALL THICKNESS 3/8"						
PART NUMBER (CARTON)		NOMINAL I.D.	CTS		IPS NOMINAL	FT/CTN
SELF-SEALING	HALF-SLIT		NOMINAL	O.D.		
F-03838-SS	F-03838-HS	3/8"	1/4"	3/8"	1/8"	540
F-01238-SS	F-01238-HS	1/2"	3/8"	1/2"	1/4"	456
F-05838-SS	F-05838-HS	5/8"	1/2"	5/8"	3/8"	396
F-03438-SS	F-03438-HS	3/4"	5/8"	3/4"	1/2"	300
F-07838-SS	F-07838-HS	7/8"	3/4"	7/8"	-	276
F-10038-SS	F-10038-HS	1"	-	-	3/4"	246
F-11838-SS	F-11838-HS	1-1/8"	1"	1-1/8"	-	222
F-11438-SS	F-11438-HS	1-1/4"	-	-	1"	186
F-13838-SS	F-13838-HS	1-3/8"	1-1/4"	1-3/8"	-	180
F-15838-SS	F-15838-HS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	138
F-20038-SS	F-20038-HS	2"	-	-	1-1/2"	126
F-21838-SS	F-21838-HS	2-1/8"	2"	2-1/8"	-	102
F-23838-SS	F-23838-HS	2-3/8"	-	-	2"	84
F-25838-SS	F-25838-HS	2-5/8"	2-1/2"	2-5/8"	-	72
F-27838-SS	F-27838-HS	2-7/8"	-	-	2-1/2"	60
F-31838-SS	F-31838-HS	3-1/8"	3"	3-1/8"	-	54
F-31238-SS	F-31238-HS	3-1/2"	-	-	3"	48
F-35838-SS	F-35838-HS	3-5/8"	3-1/2"	3-5/8"	-	48
F-41838-SS	F-41838-HS	4-1/8"	4"	4-1/8"	-	36
F-41238-SS	F-41238-HS	4-1/2"	-	-	4"	36

NOMINAL WALL THICKNESS 1/2"						
PART NUMBER (CARTON)		NOMINAL I.D.	CTS		IPS NOMINAL	FT/CTN
SELF-SEALING	HALF-SLIT		NOMINAL	O.D.		
F-03812-SS	F-03812-HS	3/8"	1/4"	3/8"	1/8"	414
	F-01212-HS	1/2"	3/8"	1/2"	1/4"	336
F-05812-SS	F-05812-HS	5/8"	1/2"	5/8"	3/8"	300
F-03412-SS	F-03412-HS	3/4"	5/8"	3/4"	1/2"	264
F-07812-SS	F-07812-HS	7/8"	3/4"	7/8"	-	240
F-10012-SS	F-10012-HS	1"	-	-	3/4"	210
F-11812-SS	F-11812-HS	1-1/8"	1"	1-1/8"	-	186
F-11412-SS	F-11412-HS	1-1/4"	-	-	1"	168
F-13812-SS	F-13812-HS	1-3/8"	1-1/4"	1-3/8"	-	150
F-15812-SS	F-15812-HS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	120
F-20012-SS	F-20012-HS	2"	-	-	1-1/2"	96
F-21812-SS	F-21812-HS	2-1/8"	2"	2-1/8"	-	84
F-23812-SS	F-23812-HS	2-3/8"	-	-	2"	72
F-25812-SS	F-25812-HS	2-5/8"	2-1/2"	2-5/8"	-	60
F-27812-SS	F-27812-HS	2-7/8"	-	-	2-1/2"	54
F-31812-SS	F-31812-HS	3-1/8"	3"	3-1/8"	-	48
F-31212-SS	F-31212-HS	3-1/2"	-	-	3"	42
F-35812-SS	F-35812-HS	3-5/8"	3-1/2"	3-5/8"	-	36
F-41812-SS	F-41812-HS	4-1/8"	4"	4-1/8"	-	24
F-41212-SS	F-41212-HS	4-1/2"	-	-	4"	24

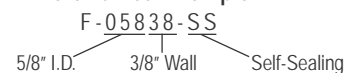
CTS: Copper Tube Size

SS: Peel & Seal Seam Closure Feature

HS: Half-Slit Design

Note: Uncommon sizes may require a longer lead time.
Minimum order size may apply.

Part Number Example:





Foam (Self-Sealing, Half-Slit)

Polyolefin foam insulation is available in a wide variety of sizes and styles. Whether you require an un-slit design for a slide on application or a peel and seal design for existing projects, LSP carries the right foam insulation product for you. Made in the U.S.A.

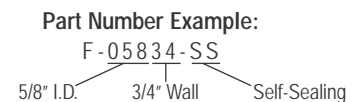


NOMINAL WALL THICKNESS 3/4"						
PART NUMBER (CARTON)		NOMINAL I.D.	CTS		IPS NOMINAL	FT/CTN
SELF-SEALING	HALF-SLIT		NOMINAL	O.D.		
F-03834-SS	F-03834-HS	3/8"	1/4"	3/8"	1/8"	228
F-01234-SS	F-01234-HS	1/2"	3/8"	1/2"	1/4"	210
F-05834-SS	F-05834-HS	5/8"	1/2"	5/8"	3/8"	180
F-03434-SS	F-03434-HS	3/4"	5/8"	3/4"	1/2"	162
F-07834-SS	F-07834-HS	7/8"	3/4"	7/8"	-	150
F-10034-SS	F-10034-HS	1"	-	-	3/4"	132
F-11834-SS	F-11834-HS	1-1/8"	1"	1-1/8"	-	120
F-11434-SS	F-11434-HS	1-1/4"	-	-	1"	114
F-13834-SS	F-13834-HS	1-3/8"	1-1/4"	1-3/8"	-	96
F-15834-SS	F-15834-HS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	84
F-20034-SS	F-20034-HS	2"	-	-	1-1/2"	66
F-21834-SS	F-21834-HS	2-1/8"	2"	2-1/8"	-	54
F-23834-SS	F-23834-HS	2-3/8"	-	-	2"	54
F-25834-SS	F-25834-HS	2-5/8"	2-1/2"	2-5/8"	-	48
	F-27834-HS	2-7/8"	-	-	2-1/2"	42
F-31834-SS	F-31834-HS	3-1/8"	3"	3-1/8"	-	36
F-31234-SS	F-31234-HS	3-1/2"	-	-	3"	30
F-35834-SS	F-35834-HS	3-5/8"	3-1/2"	3-5/8"	-	30
F-41834-SS	F-41834-HS	4-1/8"	4"	4-1/8"	-	24
F-41234-SS	F-41234-HS	4-1/2"	-	-	4"	24

NOMINAL WALL THICKNESS 1"						
PART NUMBER (CARTON)		NOMINAL I.D.	CTS		IPS NOMINAL	FT/CTN
SELF-SEALING	HALF-SLIT		NOMINAL	O.D.		
F-03810-SS	F-03810-HS	3/8"	1/4"	3/8"	1/8"	150
F-01210-SS	F-01210-HS	1/2"	3/8"	1/2"	1/4"	126
F-05810-SS	F-05810-HS	5/8"	1/2"	5/8"	3/8"	126
F-03410-SS	F-03410-HS	3/4"	5/8"	3/4"	1/2"	120
F-07810-SS	F-07810-HS	7/8"	3/4"	7/8"	-	102
F-10010-SS	F-10010-HS	1"	-	-	3/4"	96
F-11810-SS	F-11810-HS	1-1/8"	1"	1-1/8"	-	84
F-11410-SS	F-11410-HS	1-1/4"	-	-	1"	72
F-13810-SS	F-13810-HS	1-3/8"	1-1/4"	1-3/8"	-	72
F-15810-SS	F-15810-HS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	54
F-20010-SS	F-20010-HS	2"	-	-	1-1/2"	54
F-21810-SS	F-21810-HS	2-1/8"	2"	2-1/8"	-	48
F-23810-SS	F-23810-HS	2-3/8"	-	-	2"	42
F-25810-SS	F-25810-HS	2-5/8"	2-1/2"	2-5/8"	-	36
F-27810-SS	F-27810-HS	2-7/8"	-	-	2-1/2"	36
F-31810-SS	F-31810-HS	3-1/8"	3"	3-1/8"	-	24
F-31210-SS	F-31210-HS	3-1/2"	-	-	3"	24
F-35810-SS	F-35810-HS	3-5/8"	3-1/2"	3-5/8"	-	24
F-41810-SS	F-41810-HS	4-1/8"	4"	4-1/8"	-	18
F-41210-SS	F-41210-HS	4-1/2"	-	-	4"	18

CTS: Copper Tube Size
 SS: Peel & Seal Seam Closure Feature
 HS: Half-Slit Design

Note: Uncommon sizes may require a longer lead time.
 Minimum order size may apply.



insulation™

POLYOLEFIN FOAM INSULATION



Rubber Un-Slit

Rubber insulation is available in a wide variety of sizes. Un-slit rubber insulation is made to slip over pipe.

3/8" WALL

PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/CTN	PIECES/CTN
K-03838	3/8"	1/4"	3/8"	1/8"	612	102
K-01238	1/2"	3/8"	1/2"	1/4"	432	72
K-05838	5/8"	1/2"	5/8"	3/8"	378	63
K-03438	3/4"	5/8"	3/4"	1/2"	342	57
K-07838	7/8"	3/4"	7/8"	-	288	48
K-11838	1-1/8"	1"	1-1/8"	3/4"	216	36
K-13838	1-3/8"	1-1/4"	1-3/8"	1"	168	28
K-15838	1-5/8"	1-1/2"	1-5/8"	1-1/4"	150	25
K-21838	2-1/8"	2"	2-1/8"	-	96	16
K-23838	2-3/8"	-	-	2"	84	14

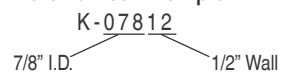
1/2" WALL

PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/CTN	PIECES/CTN
K-03812	3/8"	1/4"	3/8"	1/8"	456	76
K-01212	1/2"	3/8"	1/2"	1/4"	360	60
K-05812	5/8"	1/2"	5/8"	3/8"	324	54
K-03412	3/4"	5/8"	3/4"	1/2"	270	45
K-07812	7/8"	3/4"	7/8"	-	228	38
K-11812	1-1/8"	1"	1-1/8"	3/4"	156	26
K-13812	1-3/8"	1-1/4"	1-3/8"	1"	120	20
K-15812	1-5/8"	1-1/2"	1-5/8"	1-1/4"	114	19
K-20012	2"	-	-	1-1/2"	114	19
K-21812	2-1/8"	2"	2-1/8"	-	72	12
K-23812	2-3/8"	--	-	2"	66	11
K-25812	2-5/8"	2-1/2"	2-5/8"	-	60	10
K-27812	2-7/8"	-	-	2-1/2"	48	8
K-31812	3-1/8"	3"	3-1/8"	-	48	8
K-31212	3-1/2"	-	-	3"	36	6
K-35812	3-5/8"	3-1/2"	3-5/8"	-	36	6
K-41812	4-1/8"	4"	4-1/8"	-	24	4
K-41212	4-1/2"	-	-	4"	24	4

CTS: Copper Tube Size

Note: Uncommon sizes may require a longer lead time. Minimum order size may apply.

Part Number Example:





Rubber Un-Slit

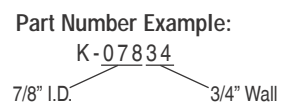
Rubber insulation is available in a wide variety of sizes. Un-slit rubber insulation is made to slip over pipe.

3/4" WALL						
PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/CTN	PIECES/CTN
K-01234	1/2"	3/8"	1/2"	1/4"	228	38
K-05834	5/8"	1/2"	5/8"	3/8"	180	30
K-03434	3/4"	5/8"	3/4"	1/2"	144	24
K-07834	7/8"	3/4"	7/8"	-	126	21
K-11834	1-1/8"	1"	1-1/8"	3/4"	90	15
K-13834	1-3/8"	1-1/4"	1-3/8"	1"	78	13
K-15834	1-5/8"	1-1/2"	1-5/8"	1-1/4"	72	12
K-20034	2"	-	-	1-1/2"	66	11
K-21834	2-1/8"	2"	2-1/8"	-	60	10
K-23834	2-3/8"	-	-	2"	48	8
K-27834	2-7/8"	-	-	2-1/2"	36	6
K-31834	3-1/8"	3"	3-1/8"	-	36	6
K-35834	3-5/8"	3-1/2"	3-5/8"	-	30	5
K-41834	4-1/8"	4"	4-1/8"	3-1/2"	24	4

1" WALL						
PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/CTN	PIECES/CTN
K-05810	5/8"	1/2"	5/8"	3/8"	108	18
K-03410	3/4"	5/8"	3/4"	1/2"	108	18
K-07810	7/8"	3/4"	7/8"	-	90	15
K-11810	1-1/8"	1"	1-1/8"	3/4"	66	11
K-13810	1-3/8"	1-1/4"	1-3/8"	1"	60	10
K-15810	1-5/8"	1-1/2"	1-5/8"	1-1/4"	54	9
K-20010	2"	-	-	1-1/2"	42	7
K-21810	2-1/8"	2"	2-1/8"	-	42	7
K-23810	2-3/8"	-	-	2"	36	6
K-25810	2-5/8"	2-1/2"	2-5/8"	-	36	6
K-27810	2-7/8"	-	-	2-1/2"	36	6
K-31810	3-1/8"	3"	3-1/8"	-	30	5
K-31210	3-1/2"	-	-	3"	30	5
K-35810	3-5/8"	3-1/2"	3-5/8"	-	30	5
K-41810	4-1/8"	4"	4-1/8"	3-1/2"	18	3
K-41210	4-1/2"	-	-	4"	18	3

CTS: Copper Tube Size

Note: Uncommon sizes may require a longer lead time. Minimum order size may apply.





Rubber Seam Seal

Rubber insulation is available in a wide variety of sizes. Made for existing pipe systems so the insulation can slip over the pipe and then be sealed.

3/8" WALL

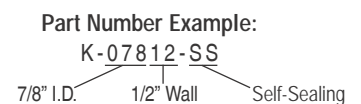
PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/ CTN	PIECES/ CTN
K-01238-SS	1/2"	3/8"	1/2"	1/4"	402	67
K-05838-SS	5/8"	1/2"	5/8"	3/8"	348	58
K-03438-SS	3/4"	5/8"	3/4"	1/2"	318	53
K-07838-SS	7/8"	3/4"	7/8"	-	288	48
K-11838-SS	1-1/8"	1"	1-1/8"	3/4"	216	36
K-13838-SS	1-3/8"	1-1/4"	1-3/8"	1"	150	25
K-15838-SS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	132	22
K-20038-SS	2"	-	-	1-1/2"	120	20
K-21838-SS	2-1/8"	2"	2-1/8"	-	78	13

1/2" WALL

PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/ CTN	PIECES/ CTN
K-03812-SS	3/8"	1/4"	3/8"	1/8"	420	70
K-01212-SS	1/2"	3/8"	1/2"	1/4"	312	52
K-05812-SS	5/8"	1/2"	5/8"	3/8"	312	52
K-03412-SS	3/4"	5/8"	3/4"	1/2"	270	45
K-07812-SS	7/8"	3/4"	7/8"	-	216	36
K-11812-SS	1-1/8"	1"	1-1/8"	3/4"	150	25
K-13812-SS	1-3/8"	1-1/4"	1-3/8"	1"	120	20
K-15812-SS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	108	18
K-20012-SS	2"	-	-	1-1/2"	108	18
K-21812-SS	2-1/8"	2"	2-1/8"	-	60	10
K-23812-SS	2-3/8"	-	-	2"	60	10
K-25812-SS	2-5/8"	2-1/2"	2-5/8"	-	60	10
K-27812-SS	2-7/8"	-	-	2-1/2"	48	8
K-31812-SS	3-1/8"	3"	3-1/8"	-	48	8
K-31212-SS	3-1/2"	-	-	3"	36	6
K-35812-SS	3-5/8"	3-1/2"	3-5/8"	-	36	6
K-41812-SS	4-1/8"	4"	4-1/8"	3-1/2"	24	4
K-41212-SS	4-1/2"	-	-	4"	24	4

CTS: Copper Tube Size

Note: Uncommon sizes may require a longer lead time.
Minimum order size may apply.





Rubber Seam Seal

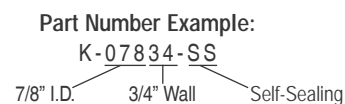
Rubber insulation is available in a wide variety of sizes. Made for existing pipe systems so the insulation can slip over the pipe and then be sealed.

3/4" WALL						
PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/ CTN	PIECES/ CTN
K-03834-SS	3/8"	1/4"	3/8"	1/8"	258	43
K-01234-SS	1/2"	3/8"	1/2"	1/4"	192	32
K-05834-SS	5/8"	1/2"	5/8"	3/8"	180	30
K-03434-SS	3/4"	5/8"	3/4"	1/2"	120	20
K-07834-SS	7/8"	3/4"	7/8"	-	126	21
K-11834-SS	1-1/8"	1"	1-1/8"	3/4"	90	15
K-13834-SS	1-3/8"	1-1/4"	1-3/8"	1"	78	13
K-15834-SS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	72	12
K-20034-SS	2"	-	-	1-1/2"	66	11
K-21834-SS	2-1/8"	2"	2-1/8"	-	60	10
K-23834-SS	2-3/8"	-	-	2"	48	8
K-25834-SS	2-5/8"	2-1/2"	2-5/8"	-	42	7
K-27834-SS	2-7/8"	-	-	2-1/2"	36	6
K-31834-SS	3-1/8"	3"	3-1/8"	-	36	6
K-31234-SS	3-1/2"	-	-	3"	30	5
K-35834-SS	3-5/8"	3-1/2"	3-5/8"	-	30	5
K-41834-SS	4-1/8"	4"	4-1/8"	3-1/2"	24	4
K-41234-SS	4-1/2"	-	-	4"	24	4

1" WALL						
PART NUMBER	INSULATION NOMINAL I.D.	CTS NOMINAL I.D. (PLMB)	CTS O.D. (HVAC/R)	IPS NOMINAL	LINEAR FT/ CTN	PIECES/ CTN
K-05810-SS	5/8"	1/2"	5/8"	3/8"	108	18
K-03410-SS	3/4"	5/8"	3/4"	1/2"	78	13
K-07810-SS	7/8"	3/4"	7/8"	-	78	13
K-11810-SS	1-1/8"	1"	1-1/8"	3/4"	66	11
K-13810-SS	1-3/8"	1-1/4"	1-3/8"	1"	60	10
K-15810-SS	1-5/8"	1-1/2"	1-5/8"	1-1/4"	42	7
K-20010-SS	2"	-	-	1-1/2"	42	7
K-21810-SS	2-1/8"	2"	2-1/8"	-	42	7
K-23810-SS	2-3/8"	-	-	2"	36	6
K-25810-SS	2-5/8"	2-1/2"	2-5/8"	-	36	6
K-27810-SS	2-7/8"	-	-	2-1/2"	36	6
K-31810-SS	3-1/8"	3"	3-1/8"	-	30	5
K-31210-SS	3-1/2"	-	-	3"	30	5
K-35810-SS	3-5/8"	3-1/2"	3-5/8"	-	30	5
K-41810-SS	4-1/8"	4"	4-1/8"	3-1/2"	18	3
K-41210-SS	4-1/2"	-	-	4"	18	3

CTS: Copper Tube Size

Note: Uncommon sizes may require a longer lead time. Minimum order size may apply.



AQUAFLO®

Aqua-Flo® has been part of the LSP family for over 20 years. As the innovation and quality standard bearer in water connectors and valves, Aqua-Flo's® performance and durability is unmatched in the market place. Aqua-Flo® developed the majority of the connectors available to the plumbing industry today. It introduced stainless steel braided connectors to the U.S. It developed the first NSF certified connector liner with its patented Ultracore® tubing to resist attacks to the connector liner from chemicals found in most modern potable water systems. As we continue to push the technological envelope on new materials, LSP has developed better and tougher corrugated stainless and copper water heater connectors.



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UltraCore™

UltraCore™

As the quality of our water supply changes, aggressive chemical treatment has become more necessary to ensure quality drinking water. As treated water comes into contact with the various rubber components and compounds in a plumbing system, the chemicals change the properties in the rubber.

The exclusive UltraCore™ barrier in the Aqua-Flo® connectors does not flake or erode like other connectors. It is super-resistant to chemicals such as chloramine and can withstand dramatic changes in water pressure. UltraCore™ connectors have a unique 12-point crimp, making them far less susceptible to leaks than the standard 8-point crimp.

Crimp Points: 12

Working Pressure: 125 PSI

Working Temperature: 40° F - 140° F

Hose Braid: 316 Stainless Steel



MightyFlex™

MightyFlex™

Installations are easier and faster than ever with our MightyFlex™ connectors, even in cramped conditions. They feature a reinforced PVC liner with a stainless steel braided cover, are chloramine-resistant and have been manufactured to withstand dramatic changes in water pressure to prevent bursting.

MightyFlex™ connectors have a unique 12-point crimp, making them far less susceptible to leaks than the standard 8-point crimp.

Crimp Points: 12

Working Pressure: 125 PSI

Working Temperature: 40° F - 140° F

Hose Braid: 304 Stainless Steel



DiamondBack™

DiamondBack™

With our DiamondBack™ reinforced PVC connectors you'll never need special installation tools again. They are easy to install, require no soldering, are chloramine-resistant and have been manufactured to withstand dramatic changes in water pressure.

DiamondBack™ connectors have a unique 12-point crimp, making them far less susceptible to leaks than the standard 8-point crimp.

Crimp Points: 12

Working Pressure: 125 PSI

Working Temperature: 40° F - 140° F

**Soft Compression Seal (S.C.)**

Uses a soft cone washer to make a water-tight seal.

**Hard Compression Seal (H.C.)**

Metal to metal seal.

**O.D. Compression**

Uses a brass compression ring seal around the outside of a copper tube.

**Ballcock**

Available in either plastic or metal for toilet connection.

**Flare**

Metal to Metal tapered seal.

**Female Garden Hose Thread (F.G.H.T.)**

The same fitting as a garden hose. Uses a washer to make a water tight seal.

Glossary Information

H.C. = Hard Compression Seal

S.C. = Soft Compression Seal

F.I.P. = Female Iron Pipe Thread

M.I.P. = Male Iron Pipe Thread

Compr. = Unified National Threads

F.G.H.T. = Female Garden Hose Thread

M.G.H.T. = Male Garden Hose Thread

O.D. Compr. = Copper Tube Compression

All ballcocks are female and have soft cone compression washers, unless otherwise noted.



Stainless Steel Braided

Stainless Steel Braided

Stainless steel braided. Brass and bright nickel plated fittings and 12 point crimp.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
3/4" M.I.P. X 7/8" O.D. COMPR.			
WHC-112-PP	12"	10	8
WHC-118-PP	18"	10	9.2
WHC-124-PP	24"	10	10.4
3/4" M.I.P. X 3/4" F.I.P.			
WHF-112-PP	12"	10	6.6
WHF-115-PP	15"	10	7.4
WHF-118-PP	18"	10	8.2
WHF-124-PP	24"	10	9.5
3/4" F.I.P. X 3/4" F.I.P.			
WFF-115-PP	15"	10	6.9
WFF-118-PP	18"	10	8
WFF-124-PP	24"	10	8.7

✓ Lead Free compliant product available.



5/8" O.D. COMPR. X 3/4" M.I.P.			
WHC-512-PP	12"	10	6.8
WHC-518-PP	18"	10	8.5
WHC-524-PP	24"	10	9.6
3/4" M.I.P. W/ DIELECTRIC INSERT X 3/4" CPVC SOCKET			
WHL-2118-PP	18"	10	7.6
3/4" M.I.P. W/ DIELECTRIC INSERT X 3/4" PEX BARB			
WHJ-2118-PP	18"	10	7.6
3/4" F.I.P. X 7/8" O.D. COMPR.			
WFC-112-PP	12"	10	7.2
WFC-118-PP	18"	10	8.5
WFC-124-PP	24"	10	9.7
3/4" F.I.P. X 5/8" O.D. COMPR.			
WFC-518-PP	18"	10	7.9
WFC-524-PP	24"	10	8.8
3/4" F.I.P. X 3/4" CPVC			
WFL-2118-PP	18"	10	7.6
3/4" F.I.P. X 3/4" PEX			
WFJ-2118-PP	18"	10	6.6





Stainless Steel Corrugated Connectors

Stainless Steel Corrugated Connectors

Chrome plated brass nut. Non-toxic and sanitary. Truly kink resistant. Flexible but durable even with multiple bends. Tube resists work hardening allowing for more flexibility and easier installation. No dielectric union required. 100% leak tested. High corrosion-resistant stainless steel.

PART NUMBER	DESCRIPTION	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
WCS-112-PP	3/4" F.I.P. x 3/4" F.I.P.	12"	25	7.9
WCS-118-PP	3/4" F.I.P. x 3/4" F.I.P.	18"	25	9.5
WCS-124-PP	3/4" F.I.P. x 3/4" F.I.P.	24"	25	11.1
WCS-312-PP	1" F.I.P. x 1" F.I.P.	12"	25	7.9
WCS-318-PP	1" F.I.P. x 1" F.I.P.	18"	25	9.5
WCS-324-PP	1" F.I.P. x 1" F.I.P.	24"	25	11.1
WITH SWEAT ADAPTER				
WSS-112-PP	3/4" F.I.P. x 3/4" F.I.P.	12"	25	11.7
WSS-118-PP	3/4" F.I.P. x 3/4" F.I.P.	18"	25	13.3
WSS-124-PP	3/4" F.I.P. x 3/4" F.I.P.	24"	25	14.9

☑ Lead Free compliant product available.



Copper Corrugated Connectors

Annealed corrugated copper for improved flexibility and durability. Machined brass fittings with built in dielectric.



Copper Corrugated Connectors

PART NUMBER	DESCRIPTION	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
WCP-112-PP*	3/4" F.I.P. x 3/4" F.I.P.	12"	25	7.9
WCP-118-PP	3/4" F.I.P. x 3/4" F.I.P.	18"	25	9.5
WCP-124-PP	3/4" F.I.P. x 3/4" F.I.P.	24"	25	11.1
WCP-212-PP*	3/4" F.I.P. x 3/4" Sweat	12"	25	11.7
WCP-218-PP	3/4" F.I.P. x 3/4" Sweat	18"	25	13.3
WCP-224-PP	3/4" F.I.P. x 3/4" Sweat	24"	25	14.9
WCP-312-PP*	3/4" F.I.P. x 3/4" PEX	12"	25	11.7
WCP-318-PP	3/4" F.I.P. x 3/4" PEX	18"	25	13.3
WCP-324-PP	3/4" F.I.P. x 3/4" PEX	24"	25	14.9

WITH MALE ADAPTERS

WCP-112-AP*	3/4" F.I.P. x 3/4" F.I.P.	12"	25	7.9
WCP-118-AP	3/4" F.I.P. x 3/4" F.I.P.	18"	25	9.5
WCP-212-AP*	3/4" F.I.P. x 3/4" Sweat	12"	25	11.7
WCP-218-AP	3/4" F.I.P. x 3/4" Sweat	18"	25	13.3
WCP-312-AP*	3/4" F.I.P. x 3/4" PEX	12"	25	8.2
WCP-318-AP	3/4" F.I.P. x 3/4" PEX	18"	25	9.7
WCP-324-AP	3/4" F.I.P. x 3/4" PEX	24"	25	11.3

☑ Lead Free compliant product available.

* Not Lead Free compliant product.





MightyFlex™ Stainless Steel Braided

MightyFlex™ Stainless Steel Braided

Stainless steel braided. Brass couplings. Bright nickel plated and 12 point crimp.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/2" F.I.P. H.C. X 3/8" COMPR. H.C.			
CFC-109-PP	9"	25	4
CFC-120-PP	20"	25	7.5
CFC-130-PP	30"	25	9.0
1/2" F.I.P. H.C. X 7/16" COMPR. H.C.			
CFC-216-PP	16"	25	6.8
CFC-220-PP	20"	25	7.5
1/2" F.I.P. H.C. X 1/2" COMPR. H.C.			
CFC-309-PP	9"	25	5.0
CFC-312-PP	12"	25	5.5
CFC-316-PP	16"	25	7.0
CFC-320-PP	20"	25	7.0
CFC-330-PP	30"	25	8.5
1/2 F.I.P. H.C. X 1/2" F.I.P. W/ WASHER			
CFC-412-PP	12"	25	6.5
CFC-416-PP	16"	25	7.0
CFC-420-PP	20"	25	7.0
CFC-430-PP	30"	25	10.5
1/2" F.I.P. H.C. X 1/2" F.I.P. H.C.			
CFC-512-PP	12"	25	6.0
CFC-516-PP	16"	25	7.0
CFC-520-PP	20"	25	8.5
CFC-530-PP	30"	25	9.0
3/8" COMPR. H.C. X 3/8" O.D. COMPR.			
TFC-109-PP	9"	25	4.4
TFC-112-PP	12"	25	5.2
TFC-116-PP	16"	25	6.1
TFC-120-PP	20"	25	7.0



3/8" COMPR. H.C. X 3/8" COMPR. H.C.			
KFC-506-PP	6"	25	3.0
KFC-509-PP	9"	25	3.5
KFC-512-PP	12"	25	4.5
KFC-516-PP	16"	25	5.0
KFC-520-PP	20"	25	6.5

✓ Lead Free compliant product available.





DiamondBack Vinyl

DiamondBack Vinyl

Reinforced vinyl extrusion. Bright nickel plated fittings. 12 point crimp. Features a chloramine resistant soft cone.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/2" F.I.P. S.C. X 3/8" COMPR. S.C.			
VF-109-PP	9"	25	3.9
VF-112-PP	12"	25	4.9
VF-116-PP	16"	25	5.9
VF-120-PP	20"	25	6.9
VF-124-PP	24"	25	7.4
VF-130-PP	30"	25	8.2
VF-136-PP	36"	10	3.9
VF-148-PP	48"	10	4.9
7/16" COMPR. X 1/2" F.I.P.			
VF-212-PP	12"	25	5
VF-220-PP	20"	25	7.4
1/2" F.I.P. S.C. X 1/2" F.I.P. S.C.			
VF-409-PP	9"	25	3.9
VF-412-PP	12"	25	4.5
VF-416-PP	16"	25	5.3
VF-420-PP	20"	25	6.1
VF-424-PP	24"	25	6.5
VF-430-PP	30"	25	6.9
VF-436-PP	36"	10	3.9
VF-448-PP	48"	10	4.9
3/8" COMPR. S.C. X 3/8" COMPR. S.C.			
VF-509-PP	9"	25	3.9
VF-512-PP	12"	25	4.3
VF-516-PP	16"	25	5.5
VF-520-PP	20"	25	6.3
VF-524-PP	24"	25	6.7
VF-536-PP	36"	10	3.9
VF-548-PP	48"	10	4.9

☑ Lead Free compliant





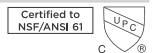
MightyFlex™ Stainless Steel Braided

MightyFlex™ Stainless Steel Braided

Stainless steel braided. Bright nickel plated and 12 point crimp. Fitting is brass. Chloramine resistant soft cone.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/2" F.I.P. S.C. X 3/8" COMPR. S.C.			
SFC-109-PP	9"	25	4.6
SFC-112-PP	12"	25	5.1
SFC-116-PP	16"	25	5.7
SFC-120-PP	20"	25	7.3
SFC-124-PP	24"	25	7.9
SFC-130-PP	30"	25	8.9
SFC-136-PP	36"	25	9.9
SFC-148-PP	48"	10	5.3
1/2" F.I.P. S.C. X 7/16" COMPR. S.C.			
SFC-212-PP	12"	25	5.1
SFC-216-PP	16"	25	6.2
SFC-220-PP	20"	25	7.3
SFC-224-PP	24"	25	8.4
1/2" F.I.P. S.C. X 1/2" COMPR. S.C.			
SFC-309-PP	9"	25	4.9
SFC-312-PP	12"	25	5.7
SFC-316-PP	16"	25	7
SFC-320-PP	20"	25	7.7
SFC-330-PP	30"	25	9.1
SFC-336-PP	36"	10	5.1
SFC-348-PP	48"	10	6.8
1/2" F.I.P. S.C. X 1/2" F.I.P. S.C.			
SFC-409-PP	9"	25	5.4
SFC-412-PP	12"	25	6.2
SFC-416-PP	16"	25	7.5
SFC-420-PP	20"	25	8.2
SFC-424-PP	24"	25	8.9
SFC-430-PP	30"	25	9.6
SFC-436-PP	36"	10	5.4
SFC-448-PP	48"	10	7.2
3/8" COMPR. S.C. X 3/8" COMPR. S.C.			
SFC-509-PP	9"	25	3.8
SFC-512-PP	12"	25	4.4
SFC-516-PP	16"	25	5.5
SFC-520-PP	20"	25	6.6
SFC-524-PP	24"	25	8
SFC-530-PP	30"	25	7.1
SFC-536-PP	36"	10	3.9
SFC-548-PP	48"	10	4.3
SFC-560-PP	60"	10	5
SFC-572-PP	72"	10	5.7
1/2" F.I.P. S.C. X 3/8" FLARE			
SFF-112-PP	12"	25	5.3
SFF-116-PP	16"	25	6.2
SFF-120-PP	20"	25	7.1
SFF-130-PP	30"	25	8.9

✓ Lead Free compliant





MightyFlex™ Stainless Steel Braided

MightyFlex™ Stainless Steel Braided

Stainless steel braided. Bright nickel plated and 12 point crimp. Chloramine resistant soft cone on ballcock.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
7/8" BALLCOCK X 3/8" FLARE			
SFT-112-PP	12"	25	4.8
SFT-116-PP	16"	25	5.8
SFT-120-PP	20"	25	6.2
7/8" BALLCOCK X 1/2" FLARE			
SFT-312-PP	12"	25	5.2
SFT-316-PP	16"	25	5.9
SFT-320-PP	20"	25	6.9
7/8" BALLCOCK X 3/8" COMPR. S.C.			
SWC-109-PP	9"	25	4.1
SWC-116-PP	16"	25	5.3
7/8" BALLCOCK X 7/16" COMPR. S.C.			
SWC-212-PP	12"	25	5.2
7/8" BALLCOCK X 1/2" COMPR. S.C.			
SWC-309-PP	9"	25	4.9
SWC-312-PP	12"	25	5.6
SWC-316-PP	16"	25	6.6
SWC-320-PP	20"	25	7.2
7/8" BALLCOCK X 1/2" F.I.P. S. C.			
SWC-409-PP	9"	25	5
SWC-412-PP	12"	25	5.6
SWC-416-PP	16"	25	6.6
SWC-420-PP	20"	25	7.4



MightyFlex™ Stainless Steel Braided

MightyFlex™ Stainless Steel Braided

Stainless steel braid. Brass couplings. Bright nickel plated and 12 point crimp.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
7/8" BALLCOCK X 3/8" COMPR. H.C.			
KWC-109-PP	9"	25	4
KWC-112-PP	12"	25	5
KWC-116-PP	16"	25	6
KWC-120-PP	20"	25	6.5
7/8" BALLCOCK X 1/2" COMPR. H.C.			
KWC-309-PP	9"	25	4.5
KWC-312-PP	12"	25	5
KWC-316-PP	16"	25	5.8



1/2" Full Flow Toilet Connectors

MightyFlex™ 1/2" Full Flow

Stainless steel braided. Bright nickel plated and 12 point crimp. Chloramine resistant soft cone.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
7/8" BALLCOCK X 1/2" COMPRESSION S.C.			
KWC-509-PP	9"	10	3
KWC-512-PP	12"	10	3.5





MightyFlex® Stainless Steel Braided - Metal Ballcock

MightyFlex™ Stainless Steel Braided - Metal Ballcock

Stainless steel braided. Bright nickel plated and 12 point crimp. Chloramine resistant soft cone on ballcock.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
7/8" BALLCOCK X 3/8" COMPR. S.C.			
SWC-512-PP	12"	25	4.7
SWC-516-PP	16"	25	5.5
SWC-520-PP	20"	25	6.3
7/8" BALLCOCK X 1/2" F.I.P. W/ WASHER			
SWC-809-PP	9"	25	4
SWC-812-PP	12"	25	4.7
SWC-816-PP	16"	25	5.5



DiamondBack Vinyl

DiamondBack Vinyl

Reinforced vinyl extrusion. Bright nickel plated fittings. 12 point crimp. Chloramine resistant soft cone.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
7/8" BALLCOCK X 3/8" COMPR. S.C.			
VT-109-PP	9"	25	4.1
VT-112-PP	12"	25	4.5
VT-116-PP	16"	25	5.3
VT-120-PP	20"	25	6.1
7/8" BALLCOCK X 1/2" COMPR. S.C.			
VT-312-PP	12"	25	4.5
7/8" BALLCOCK X 1/2" F.I.P. S.C.			
VT-409-PP	9"	25	4.1
VT-412-PP	12"	25	4.5
VT-416-PP	16"	25	5.4





UltraCore™ Stainless Steel Braided Washing Machine Connector

UltraCore™ Stainless Steel Braided Washing Machine Connectors

Stainless steel braid. Brass couplings. Bright nickel plated and 12 point crimp. Metal cone for ground joint connection.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/2" I.D. - 3/4" F.G.H.T. X 3/4" F.G.H.T. - FOR FRONT LOAD WASHERS			
WAS-148-PP	48"	10	10.2
WAS-160-PP	60"	10	12
WAS-172-PP	72"	10	13.8



MightyFlex™ Stainless Steel Braided Washing Machine Connector

MightyFlex™ Stainless Steel Braided Washing Machine Connectors

Stainless steel braid. Brass and Bright nickel plated fittings and 12 point crimp.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/2" I.D. - 3/4" F.G.H.T. X 3/4" F.G.H.T.			
WAS-148-RV	48"	10	10.2
WAS-160-RV	60"	10	12
WAS-172-RV	72"	10	13.8
3/8" I.D. - 3/4" F.G.H.T. X 3/4" F.G.H.T. - FOR TOP LOAD WASHERS			
WAS-348-PP	48"	10	8.2
WAS-360-PP	60"	10	9.6
WAS-372-PP	72"	10	11
3/8" I.D. - 3/4" F.G.H.T. X 90° 3/4" F.G.H.T.			
WAS-448-PP	48"	10	10.5
WAS-460-PP	60"	10	12.3
WAS-472-PP	72"	10	13.9



MightyFlex™ Stainless Steel Braided Ice Maker Connector

MightyFlex™ Stainless Steel Braided Ice Maker Connectors

Stainless steel braid. Brass and bright nickel plated fittings and 12 point crimp.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/4" COMPR. H.C. X 1/4" COMPR. H.C.			
KDW-912-PP	12"	25	2.5
KDW-924-PP	24"	10	2
KDW-960-PP	60"	10	4
KDW-972-PP	72"	10	5.1
KDW-984-PP	84"	10	5.7
KDW-996-PP	96"	10	6.2
KDW-9120-PP	120"	10	6.5
KDW-9180-PP	180"	10	7.9
1/4" COMPR. S.C. X 1/4" COMPR. S.C.			
SDW-936-PP	36"	10	4.8
SDW-948-PP	48"	10	6.2
SDW-960-PP	60"	10	7.6
SDW-972-PP	72"	10	8.4

✔ Lead Free compliant



DiamondBack Dishwasher Connector

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/4" COMPR. S.C. X 1/4" COMPR. S.C.			
VDW-936-PP	36"	10	4.3
VDW-948-PP	48"	10	5.7
VDW-960-PP	60"	10	7.1
VDW-972-PP	72"	10	7.9

✔ Lead Free compliant



MightyFlex™ Stainless Steel Braided Dishwasher Connector

MightyFlex™ Stainless Steel Braided

Stainless steel braided. Bright nickel plated and 12 point crimp.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
1/2" F.I.P. S.C. X 3/8" COMPR. H.C. W/ 90° ELBOW ADAPTER			
KDW-148-PP	48"	10	6.5
KDW-160-PP	60"	10	7.7
KDW-172-PP	72"	10	8
KDW-184-PP	84"	10	8.8
1/2" COMPR. H.C. X 3/8" COMPR. H.C. W/ 90° ELBOW ADAPTER			
KDW-360-PP	60"	10	7.7
1/2" F.I.P. S.C. X 1/2" F.I.P. S.C.			
KDW-448-PP	48"	10	6
KDW-460-PP	60"	10	6.5
KDW-472-PP	72"	10	7.2
3/8" COMPR. S.C. X 3/4" F.G.H.T. W/ 90° ELBOW ADAPTER			
KDW-548-PP	48"	10	6.4
KDW-560-PP	60"	10	6.9
KDW-572-PP	72"	10	8.4
3/8" COMPR. S.C. X 3/8" COMPR. H.C. W/ 90° ELBOW ADAPTER			
KDW-636-PP	36"	10	5.9
KDW-648-PP	48"	10	6.4
KDW-660-PP	60"	10	6.9
KDW-672-PP	72"	10	8.4
KDW-684-PP	84"	10	9.3
KDW-6108-PP	108"	10	11.7
KDW-6120-PP	120"	10	13.9
1/2" COMPR. S.C. X 1/2" COMPR. S.C. W/ 90° ELBOW ADAPTER			
KDW-784-PP	84"	10	9.3
P-06365	-	10	-

✔ Lead Free compliant



DiamondBack Ice Maker Connector

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
3/8" COMPR. S.C. X 3/8" COMPR. H.C. W/ 90° ELBOW ADAPTER			
VDW-660-PP	60"	10	7.3
VDW-672-PP	72"	10	8.2



UltraCore™ Quick Fix Connectors



UltraCore™ Full Flow Connectors



UltraCore™ Large Diameter Connectors



RetroFit Valve V-2000-S

UltraCore™ Quick Fix Connectors

Frozen or cracked pipes can be fixed in minutes. No soldering or special tools required. Flexible stainless steel connector with brass compression couplings on both ends. For 1/2" and 3/4" copper pipe in 9", 12" and 24" lengths.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
7/8" O.D. COMPR. X 7/8" O.D. COMPR.			
WCC-109-PP	9"	10	7.5
WCC-112-PP	12"	10	7.7
5/8" O.D. COMPR. X 5/8" O.D. COMPR.			
WCC-509-PP	9"	10	7.5
WCC-512-PP	12"	10	7.7



UltraCore™ Full Flow Connectors

Full flow 3/4" connectors. A must for 50 gallon or larger water heaters. Quick-Fill for Roman tub faucets. Great for low-pressure areas. No Sweat installation. Doesn't require solder or special tools.

PART NUMBER	LENGTH	PIECES / CARTON	MSTR PAK WEIGHT
3/4" F.I.P. W/ WASHER X 3/4" F.I.P. W/ WASHER			
HWH-112-PP	12"	10	7
HWH-118-PP	18"	10	9
HWH-124-PP	24"	10	10.5
HWH-148-PP	48"	10	13.1



UltraCore™ Large Diameter Connectors

Full flow, stainless steel braided. Bright nickel plated and 12 point crimp. Female swivel and rubber washer included.

PART NUMBER	LENGTH	PIECES / CARTON
NICKEL PLATED OVER BRASS FITTINGS		
1/2" F.I.P. W/ WASHER X 1/2" F.I.P. W/ WASHER		
PPC-112-PP	12"	10
PPC-118-PP	18"	10
PPC-124-PP	24"	10
NICKEL PLATED OVER STEEL FITTINGS		
1" F.I.P. W/ WASHER X 1" F.I.P. W/ WASHER		
SFF-10012	12"	40
SFF-10018	18"	40
SFF-10024	24"	40
SFF-10036	36"	40
STEEL FITTINGS		
1-1/2" F.I.P. W/ WASHER X 1-1/2" F.I.P. W/ WASHER		
SFF-15012	12"	20
SFF-15018	18"	20
SFF-15024	24"	20
SFF-15036	36"	20



RetroFit Valves

Piggyback on old adapter or connector stop. Save time - leave old parts in place. Quarter-turn shut-off.

PART NUMBER	INLET	OUTLET	QTY	MSTR PAK WEIGHT
V-2000-S	3/8" Compr. H.C.	3/8" O.D. Compr.	24	8

Certified to NSF/ANSI 61





Angle Valve
V-104-A

Angle Valves

PEX valves are for use with PEX piping only. Do not use PEX valves with copper or CPVC piping.

PART NUMBER	INLET	OUTLET	QTY	MSTR PAK WEIGHT
NICKEL				
V-001-A	5/8" O.D. Compr.	1/4" O.D. Compr.	144	8
V-100-A	1/2" Sweat	3/8" O.D. Compr.	144	7
V-102-A	1/2" F.I.P.	3/8" O.D. Compr.	144	9
V-103-A	1/2" PEX	3/8" O.D. Compr.	144	9
V-104-A	1/2" WIRSBO PEX	3/8" O.D. Compr.	144	9
V-105-A	3/8" F.I.P.	3/8" O.D. Compr.	144	7
V-106-A	3/8" O.D. Compr.	3/8" O.D. Compr.	144	8
V-107-A	1/2" F.I.P.	3/4" Hose Thread	144	12
V-301-A	5/8" O.D. Compr.	1/2" O.D. Compr.	144	10
V-401-A	5/8" O.D. Compr.	1/2" OR 7/16" Slip Joint	144	10
V-402-A	1/2" F.I.P.	1/2" OR 7/16" Slip Joint	144	12

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



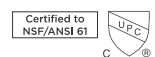
Straight Valve
V-100-S

Straight Valves

PEX valves are for use with PEX piping only. Do not use PEX valves with copper or CPVC piping.

PART NUMBER	INLET	OUTLET	QTY	MSTR PAK WEIGHT
NICKEL				
V-001-S	5/8" O.D. Compr.	1/4" O.D. Compr.	144	8
V-100-S	1/2" Sweat	3/8" O.D. Compr.	144	7
V-102-S	1/2" F.I.P.	3/8" O.D. Compr.	144	9
V-103-S	1/2" PEX	3/8" O.D. Compr.	144	9
V-104-S	1/2" PEX	3/8" O.D. Compr.	144	9
V-105-S	3/8" F.I.P.	3/8" O.D. Compr.	144	8
V-301-S	5/8" O.D. Compr.	1/2" O.D. Compr.	144	10
V-401-S	5/8" O.D. Compr.	1/2" OR 7/16" Slip Joint	144	10
V-402-S	1/2" F.I.P.	1/2" OR 7/16" Slip Joint	144	12

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



Straight Valve
V-104-S



HoseMate Valve
V-750-S

HoseMate Valves

Solid brass construction. 1/4 turn only. Working pressures to 125 psi. Can be used indoors or outdoors. Attaches to garden equipment.

PART NUMBER	HANDLE	INLET X OUTLET	QTY	MSTR PAK WEIGHT
V-750-S	Brass	3/4" F.G.H.T. x M.G.H.T.	24	9
UNFINISHED				
P-06306	Blue Handle	5/8" Compr. X 3/4" M.G.H.T.	24	10
P-06307	Red Handle	5/8" Compr. X 3/4" M.G.H.T.	24	10

☑ Add "-LL" to the end of the part number for Lead Free compliant product. See List Price Guide for a complete list.



RAPID-FIT[®]

All Schedule 40 rough-in-kits are available in PVC or ABS, with or without testing capability, in rough-in kits, or complete with trim kits. Rapid-Fit provides the flexibility to accommodate all overflow plate variations with a choice of three stopper designs.



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Trim Kits & Accessories 78





Half Kit - PVC
R-6011-RK



Half Kit - ABS
R-6010-RK



R-0910



R-6111-LT



R-6110-LT



Dual-Test Overflow Testing



Revolver Overflow Testing W/
Integrated Knock-out



Testing Drain Plug W/ Strainer

Testing Feature Included

Rapid-Fit assemblies with testing feature. Revolver is Rapid-Fit's premier product, incorporating a unique, integrated knock-out test feature and snap-on overflow plate. The Dual-Test feature provides overflow/drain plugs and hardware to test and then mount 1 hole faceplates.

ROUGH-IN KITS WITH TEST

PVC	ABS	DESCRIPTION	MSTR CTN QTY
HALF KITS - INCLUDE OVERFLOW ELBOW, CP STRAINER & DRAIN ELBOW (NO PIPING OR TEE)			
R-6011-RK	R-6010-RK	Revolver, snap-on overflow plate (no hole)	20
R-0476-RK	R-0475-RK	1 hole overflow plate	20
R-0468-RK	R-0467-RK	2 hole overflow plate	20
FULL KITS - INCLUDE OVERFLOW ELBOW, CP STRAINER, DRAIN ELBOW, PIPING AND TEE			
R-6111-RK	R-6110-RK	Revolver, snap-on overflow plate (no hole)	20
R-0351-RK	R-0350-RK	1 hole overflow plate	20
R-0466-RK	R-0465-RK	2 hole overflow plate	20

LIFT & TURN	PUSH-PULL	TOE-TOUCH	DESCRIPTION	MSTR CTN QTY
TRIM KITS - INCLUDE CP STOPPER AND OVERFLOW PLATE				
R-0910	R-0919	R-0916	Revolver, snap-on overflow plate (no hole)	20
R-0929	R-0929-P	R-0929-T	1 hole overflow plate	20
R-0934	R-0934-P	R-0934-T	2 hole overflow plate	20

Testing Feature Included

BATH WASTE ASSEMBLIES WITH TEST

PVC	ABS	DESCRIPTION	MSTR CTN QTY
HALF KITS - INCLUDE OVERFLOW ELBOW, CP OVERFLOW PLATE, DRAIN ELBOW, CP STRAINER & CP STOPPER (NO PIPING OR TEE)			
LIFT & TURN			
R-6011-LT	R-6010-LT	Revolver, snap-on overflow plate (no hole)	20
R-0476	R-0475	1 hole overflow plate	20
R-0468	R-0467	2 hole overflow plate	20
R-0542		2 hole overflow w/ condensate	20
PUSH-PULL			
R-6011-P	R-6010-P	Revolver, snap-on overflow plate (no hole)	20
R-0476-P	R-0475-P	1 hole overflow plate	20
R-0468-P	R-0467-P	2 hole overflow plate	20
R-0542-P		2 hole overflow w/ condensate	20
TOE-TOUCH			
R-6011-T	R-6010-T	Revolver, snap-on overflow plate (no hole)	20
R-0476-T	R-0475-T	1 hole overflow plate	20
R-0468-T	R-0467-T	2 hole overflow plate	20
R-0542-T		2 hole overflow w/ condensate	20
FULL KITS - INCLUDE OVERFLOW ELBOW, CP OVERFLOW PLATE, DRAIN ELBOW, CP STRAINER, CP STOPPER, PIPING AND TEE			
LIFT & TURN			
R-6111-LT	R-6110-LT	Revolver, snap-on overflow plate (no hole)	20
R-0376	R-0364	1 hole overflow plate	20
R-0466	R-0465	2 hole overflow plate	20
PUSH-PULL			
R-6111-P	R-6110-P	Revolver, snap-on overflow plate (no hole)	20
R-0376-P	R-0364-P	1 hole overflow plate	20
R-0466-P	R-0465-P	2 hole overflow plate	20
TOE-TOUCH			
R-6111-T	R-6110-T	Revolver, snap-on overflow plate (no hole)	20
R-0376-T	R-0364-T	1 hole overflow plate	20
R-0466-T	R-0465-T	2 hole overflow plate	20

Bath waste assemblies available in Designer Finishes upon special request.

CP=Chrome Plated



Half Kit - PVC
R-6011-RK-NT



Half Kit - ABS
R-6010-RK-NT



R-6111-RK-NT



R-6110-RK-NT



R-0910



R-6011-NT-LT



R-6010-NT-LT

Non-Testing

Rapid-fit assemblies without testing feature.

ROUGH-IN KITS NON-TESTING

PVC	ABS	DESCRIPTION	MSTR CTN QTY
HALF KITS - INCLUDE OVERFLOW ELBOW, CP STRAINER & DRAIN ELBOW (NO PIPING OR TEE)			
R-6011-RK-NT	R-6010-RK-NT	Revolver, snap-on overflow plate (no hole)	20
R-0469-RK-NT	R-0457-RK-NT	1 hole overflow plate	20
R-0476-RK-NT	R-0475-RK-NT	2 hole overflow plate	20
FULL KITS - INCLUDE OVERFLOW ELBOW, CP STRAINER, DRAIN ELBOW, PIPING AND TEE			
R-6111-RK-NT	R-6110-RK-NT	Revolver, snap-on overflow plate (no hole)	20
R-0351-RK-NT	R-0350-RK-NT	1 hole overflow plate	20
R-0451-RK-NT	R-0481-RK-NT	2 hole overflow plate	20

LIFT & TURN	PUSH-PULL	TOE-TOUCH	DESCRIPTION	MSTR CTN QTY
TRIM KITS - INCLUDE CP STOPPER AND OVERFLOW PLATE				
R-0910	R-0919	R-0916	Revolver, snap-on plate overflow (no hole)	20
R-0929	R-0929-P	R-0929-T	1 hole overflow plate	20
R-0934	R-0934-P	R-0934-T	2 hole overflow plate	20

BATHWASTE ASSEMBLIES NON-TESTING

PVC	ABS	DESCRIPTION	MSTR CTN QTY
HALF KITS - INCLUDE OVERFLOW ELBOW, CP OVERFLOW PLATE, DRAIN ELBOW, CP STRAINER, CP STOPPER (NO PIPING OR TEE)			
LIFT & TURN			
R-6011-NT-LT	R-6010-NT-LT	Revolver, snap-on overflow plate (no hole)	20
R-0469	R-0475	1 hole overflow plate	20
R-0493	R-0481	2 hole overflow plate	20
R-0541		2 hole overflow w/ condensate	20
PUSH-PULL			
R-6011-NT-P	R-6010-NT-P	Revolver, snap-on overflow plate (no hole)	20
R-0469-P	R-0457-P	1 hole overflow plate	20
R-0493-P	R-0481-P	2 hole overflow plate	20
R-0541-P		2 hole overflow w/ condensate	20
TOE-TOUCH			
R-6011-NT-T	R-6010-NT-T	Revolver, snap-on overflow plate (no hole)	20
R-0469-T	R-0475-T	1 hole overflow plate	20
R-0493-T	R-0481-T	2 hole overflow plate	20
R-0541-T		2 hole overflow w/ condensate	20
FULL KITS - INCLUDE OVERFLOW ELBOW, CP OVERFLOW PLATE, DRAIN ELBOW, CP STRAINER, CP STOPPER, PIPING AND TEE			
LIFT & TURN			
R-6111-NT-LT	R-6110-NT-LT	Revolver, snap-on overflow plate (no hole)	20
R-0373	R-0361	1 hole overflow plate	20
R-0397	R-0396	2 hole overflow plate	20
PUSH-PULL			
R-6111-NT-P	R-6110-NT-P	Revolver, snap-on overflow plate (no hole)	20
R-0373-P	R-0361-P	1 hole overflow plate	20
R-0397-P	R-0396-P	2 hole overflow plate	20
TOE-TOUCH			
R-6111-NT-T	R-6110-NT-T	Revolver, snap-on overflow plate (no hole)	20
R-0373-T	R-0361-T	1 hole overflow plate	20
R-0397-T	R-0396-T	2 hole overflow plate	20

Bathwaste assemblies available in Designer Finishes upon special request.
CP=Chrome Plated



Lift & Turn Stopper -
Shown with No Hole
Revolver Overflow Plate

Designer Finishes with PVD process coating. Each kit includes a strainer, premium stopper, and overflow plate.

Lift & Turn Stopper

REVOLVER SNAP ON	1 HOLE OVERFLOW PLATE	2 HOLE OVERFLOW PLATE	FINISH
R-0984	R-0978	R-0990	Pearl Nickel
R-0985	R-0979	R-0991	Satin Chrome
R-0986	R-0980	R-0992	Satin Nickel
R-0987	R-0981	R-0993	Oil Rubbed Bronze
R-0999	R-0968	R-0966	Polished Brass
R-0976	R-0967	R-0965	White
R-0935	R-0936	R-0937	Venetian Bronze



Push-Pull Stopper -
Shown with 1 Hole
Overflow Plate

Push-Pull Stopper

REVOLVER SNAP ON	1 HOLE OVERFLOW PLATE	2 HOLE OVERFLOW PLATE	FINISH
R-0984-P	R-0978-P	R-0990-P	Pearl Nickel
R-0986-P	R-0980-P	R-0992-P	Satin Nickel
R-0987-P	R-0981-P	R-0993-P	Oil Rubbed Bronze
R-0976-P	R-0967-P	R-0965-P	White



Toe-Touch Stopper -
Shown with 2 Hole
Overflow Plate

Toe-Touch Stopper

REVOLVER SNAP ON	1 HOLE OVERFLOW PLATE	2 HOLE OVERFLOW PLATE	FINISH
R-0984-T	R-0978-T		Pearl Nickel
R-0986-T	R-0980-T	R-0992-T	Satin Nickel
R-0987-T	R-0981-T	R-0993-T	Oil Rubbed Bronze
R-0976-T	R-0967-T	R-0965-T	White



Plastic Lift & Turn
R-0650



Brass Trip Lever
R-5000



Brass Lift & Turn
R-8000



Brass Toe-Touch
R-9000



Rapid Adjust Trip Lever
R-0550

1-1/2" Brass & Plastic

PART NUMBER	DESCRIPTION	FINISH	MSTR CTN QTY
PLASTIC - LIFT & TURN			
R-0650	PVC	Chrome Plated	20
BRASS - TRIP LEVER			
R-5000	17 Gauge	Chrome Plated	12
R-5500	20 Gauge	Chrome Plated	12
BRASS - LIFT & TURN			
R-8000*	17 Gauge	Chrome Plated	12
R-8500	20 Gauge	Chrome Plated	12
BRASS - TOE TOUCH			
R-9000	17 Gauge	Chrome Plated	12
ACCESSORIES/REPLACEMENT PARTS			
*R-03710	Brass Compr. Ring		

Rapid Adjust Trip Lever

Fast and easy linkage adjustment. Available in chrome-plated only. Made of plastic tubular construction.

PART NUMBER	DESCRIPTION	FINISH	MSTR CTN QTY
R-0550	PVC	Chrome Plated	20
R-0500	ABS	Chrome Plated	20



1 Hole Lift & Turn and Coarse Thread Bushing Kit



2 Hole Lift & Turn and Coarse Thread Bushing Kit



1 Hole Toe-Touch and Coarse Thread Bushing Kit



Stopper with Reversible Stem



Toe Touch Stopper

1 Hole Lift & Turn and Coarse Thread Bushing Kits

Adapter bar required for 1 hole overflow plate. Designed with theft and vandal-resistant, solid brass lift and turn. Includes 1-5/8" – 16 TPI fine thread strainer body. Comes complete with 1-1/2" – 11-1/2 TPI adapter bushing. Fits most bath wastes. Includes 1 hole overflow plate with screw. Patented design.

PART NUMBER	FINISH	PACKAGING	MSTR CTN QTY
RFT-100-C	Chrome Plated	Clamshell	20
RFT-100-B	Polished Brass	Clamshell	20
RFT-100-W	White	Clamshell	20
RFT-100-SN	Satin Nickel	Clamshell	20
RFT-100-ORB	Oil Rubbed Bronze	Clamshell	20
RFT-100-VB	Venetian Bronze	Clamshell	20

2 Hole Lift & Turn and Coarse Thread Bushing Kits

Designed with theft and vandal-resistant, solid brass lift and turn. Includes 1-5/8" – 16 TPI fine thread strainer body. Comes complete with 1-1/2" – 11-1/2 TPI adapter bushing. Fits most bath wastes. Includes 2 hole overflow plate with screws. Patented design.

PART NUMBER	FINISH	PACKAGING	MSTR CTN QTY
RFT-102-C	Chrome Plated	Clamshell	20
RFT-102-B	Polished Brass	Clamshell	20
RFT-102-W	White	Clamshell	20
RFT-102-SN	Satin Nickel	Clamshell	20
RFT-102-ORB	Oil Rubbed Bronze	Clamshell	20
RFT-102-VB	Venetian Bronze	Clamshell	20

1 Hole Toe-Touch and Coarse Thread Bushing Kits

Features the original and most trouble-free toe-touch stopper in the industry. Includes 1-5/8" – 16 TPI fine thread strainer body. Comes complete with 1-1/2" – 11-1/2 TPI adapter bushing. Fits most bath wastes. Includes 1 hole overflow plate with screw.

PART NUMBER	FINISH	PACKAGING	MSTR CTN QTY
RFT-200-C	Chrome Plated	Clamshell	20
RFT-200-B	Polished Brass	Clamshell	20

Lift & Turn Stopper with Reversible Stem

Lift & Turn Stopper includes reversible 3/8" and 5/16" stem. Allows theft-resistant installations. Fits most non-trip lever strainers. Patented design.

PART NUMBER	FINISH	PACKAGING	MSTR CTN QTY
RFT-101-C	Chrome Plated	Clamshell	20
RFT-101-B	Polished Brass	Clamshell	20
RFT-101-W	White	Clamshell	20

Toe Touch Stopper

The original and most trouble-free toe-touch stopper in the industry. Simply push stopper to open or close. Activated by rubber boot. No springs to wear out. Accommodates 1-1/4" deep strainer body.

PART NUMBER	DESCRIPTION	FINISH	PACKAGING	MSTR CTN QTY
RFT-201-C	3/8" thread for 1-1/4" strainer	Chrome Plated	Clamshell	20
RFT-201-B	3/8" thread for 1-1/4" strainer	Polished Brass	Clamshell	20
RFT-202-C	5/16" thread for 1-1/4" strainer	Chrome Plated	Clamshell	20
RFT-203-C	3/8" thread for 1" strainer	Chrome Plated	Clamshell	20



Rapid-Test Plugs
R-1287

Rapid-Test Plugs

For use when testing Schedule 40 waste overflows with 1 hole faceplates. Reusable. Holds a two-story test. Easy grip wing nut.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
R-1287	Rapid Test Kit	100	26
R-60060	2 Hole Test Kit	200	



1 Hole Metal
Overflow Plate

Metal Overflow Plates

Fits all Schedule 40 overflow elbows with post tapping. Available in a variety of designer finishes. Screws included.

PART NUMBER	FINISH	MSTR CTN QTY
R-06574	1 Hole, Chrome	1 ea.
R-66200	1 Hole, Polished Brass	1 ea.
R-66202	1 Hole, White	1 ea.
R-06575	2 Hole, Chrome	1 ea.
R-66205	2 Hole, Polished Brass	1 ea.



2 Hole Metal
Overflow Plate



Adapter Bushing

Adapter Bushings

PART NUMBER	DESCRIPTION	MSTR CTN QTY
R-06561	Adapter Bushing Converts strainer body from 1-5/8" – 16 TPI to 1-1/2" – 11-1/2 TPI	1 ea.
R-06562	Kohler Bushing Converts strainer body from 1-1/2" – 11-1/2" TPI to 2.11" – 16 TPI	1 ea.
R-06563	Central Brass Bushing Converts 1.6" – 16 TPI to 1.8" – 16 TPI	1 ea.



Replacement Screws

Replacement Screws for Overflow Plates

PART NUMBER	DESCRIPTION	MSTR CTN QTY
R-06744	Chrome Plated, 2-1/4"	1 ea.
R-06553	Chrome Plated, 3"	1 ea.
R-06555	Polished Brass, 3"	1 ea.






NOTES:



TechSpecialties®/ Frank Pattern & Mfg.

Tech Specialties® represents LSP's reputation for innovation in the roof drain product line. Its development of the Uniflex roof drain with membrane clamps created a revolution in roof drains. Tech Specialties carries a complete line of roof drains to meet the toughest and broadest of installations.

LSP acquired Frank Pattern & Manufacturing Inc. (FPM) which offers a broad line of cast iron drainage products. FPM has been in business since 1946, invented the "Instant Set" closet flange and was the originator of the baby blue color for cast iron drainage products. FPM provides LSP with a broad line of closet flanges, floor drains, shower drains, roof drains and clean outs.

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	Floor & Area Drains86
	Shower Drains88
	Closet Flanges89
	Clean Outs & Floor Access Covers90
	Roof Drains92


UNI-FLEX™ Roof Drain

UNI-FLEX™ Roof Drain

Accommodates single-ply, modified membranes and BUR systems. Comes with nylon grate and screw kit. One expansion coupling. One recessed clamping ring with screw kit. Deck screw kit. Dimensions: Drain/Flange: 20-1/4" x 20-1/4"; Drain Basin: 9-1/4" x 9-1/4". Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-6002	2" ABS	1 ea.	8
T-6003	3" ABS	1 ea.	8
T-6004	4" ABS	1 ea.	8


UNI-FLEX™ Roof Drain with Overflow

UNI-FLEX™ Roof Drain with Overflow

Accommodates single-ply, modified membranes and BUR systems. Comes with nylon round grate with screw kit. Two expansion couplings. Two clamping rings with screw kit. Deck screw kit. Dimensions: Drain/Flange" 20-1/4" x 27"; Drain Basin: 9-1/4" x 9-1/4". Overflow grate included. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-6102	2" ABS	1 ea.	12
T-6103	3" ABS	1 ea.	13
T-6104	4" ABS	1 ea.	13



T-0310	4-1/2" Nylon Overflow Grate	1 ea.	-
P-70825	2" Adapter, Overflow	1 ea.	-
P-70826	3" Adapter, Overflow	1 ea.	-


Plastic Roof Drain with Side-Outlet

Plastic Roof Drain with Side-Outlet

Combines roof drain and flashing skirt. Incorporates 90 degree right angle outlet for shallow joist areas. Nylon dome grate with screw kit. One expansion coupling. Deck screw kit. Dimensions: Drain/Flange: 15-3/4" x 15-3/4"; Drain Basin: 9-1/4" x 9-1/4". Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0050	2" ABS	1 ea.	6
T-0052	3" ABS	1 ea.	6
T-0054	4" ABS	1 ea.	7


Plastic Side-Outlet Roof Drain & Overflow

Plastic Roof Drain with Side-Outlet & Overflow

Combines roof drain, flashing skirt and overflow. Incorporates 90 degree right angle outlet for shallow joist areas. Nylon dome grate with screw kit. Two expansion couplings. Deck screw kit. Dimensions: Drain/Flange: 22-1/4" x 15-1/4"; Drain Basin: 9-1/4" x 9-1/4". Overflow grate included. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0020	2" ABS	1 ea.	6
T-0022	3" ABS	1 ea.	7
T-0024	4" ABS	1 ea.	7





Cast Iron Combination Roof Drain

Cast Iron Combination Roof Drain

Cast iron membrane clamps bolt to both roof and overflow drains. Designed with their own flashing skirt. Aluminum dome grate comes standard with cast iron drains. Dual membrane clamps provide a watertight bond. Dimensions: Drain/Flange: 19-1/4" x 10-1/2" Drain Basin: 5-1/2". Overflow grate included.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0073	3" Cast Iron Combo	1 ea.	28
T-0074	4" Cast Iron Combo	1 ea.	28
T-7241	8" Aluminum Dome Grate	1 ea.	5



Copper Roof Drain

Copper Roof Drain

Designed for flat roof installations. Sits flush on roof deck. Seamless, one-piece construction. Drain and flange are formed from 100% copper. No-hub adapter is 100% brass. Dimensions: Flange: 23 gauge Drain/Flange: 18" x 18" Drain Basin: 10". Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0280	2" Copper No-Hub	1 ea.	7
T-0281	3" Copper No-Hub	1 ea.	7
T-0282	4" Copper No-Hub	1 ea.	7
T-7239	8" Replacement Dome Grate	1 ea.	-
P-70823	Replacement Adapter Ring	1 ea.	-



Copper Roof Drain with Overflow

Copper Roof Drain with Overflow

Combines roof drain, flashing skirt and overflow all in one unit. Designed for flat roof installations. Seamless, one-piece construction. Drain and flange are formed from 100% copper. No-hub adapter is 100% brass. Dimensions: Flange: 23 gauge Drain/Flange: 24" x 18" Drain Basin: 10". Overflow grate included. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0270	2" Copper No-Hub	1 ea.	10
T-0271	3" Copper No-Hub	1 ea.	10
T-0272	4" Copper No-Hub	1 ea.	12
T-7239	8" Replacement Dome Grate	1 ea.	-
P-70823	Replacement Adapter Ring	1 ea.	-



Copper Roof Drain with Side-Outlet

Copper Roof Drain with Side-Outlet

Incorporates 90 degree right angle outlet for shallow joist areas. Sits flush on roof areas. Seamless, one-piece construction. Drain body and flange are formed from 100% copper. No-hub adapter is 100% brass. Dimensions: Flange: 23 gauge Drain/Flange: 18" x 18" Drain Basin: 10". Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0265	2" Copper No-Hub	1 ea.	8
T-0266	3" Copper No-Hub	1 ea.	8
T-7239	8" Replacement Dome Grate	1 ea.	-
P-70823	Replacement Adapter Ring	1 ea.	-




Copper Roof Drain with Side-Outlet & Overflow

Copper Roof Drain with Side-Outlet & Overflow

Incorporates 90 degree right angle outlet for shallow joist areas. Sits flush on roof areas. Seamless, one-piece construction. Drain body and flange are formed from 100% copper. No-hub adapter is 100% brass. Dimensions: Flange: 23 gauge Drain/Flange: 18" x 18" Drain Basin: 10". Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0250	2" Copper No-Hub	1 ea.	8
T-0251	3" Copper No-Hub	1 ea.	8
T-7239	8" Replacement Dome Grate	1 ea.	-
P-70823	Replacement Adapter Ring	1 ea.	-


E-Z Breather Vent

E-Z Breather Vent

Economical. Features "No Bugs" stainless steel screen. Use in hot tar, single and modified ply roof applications. Constructed of durable, weather resistant plastic. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-2000	1-Way E-Z Breather Vent	1 ea.	9





Plastic Adjustable Deck Drain



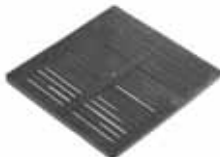
Copper Deck Drain



Copper Overflow Deck Drain



Grate - T-0300



Grate - T-0301



Grate - T-0318



Grate - T-0303



Expansion Couplings

Plastic Adjustable Deck Drain

Versatile design can be used as a floor, area, or deck drain. Drain body is available in 2" or 4" depth with a 2" or 3" sized outlet. Stabilizer adjusts to pour thickness and rigidly attaches drain. Comes complete with grate. Dimension: Drain/Flange: 9 3/8" x 9 3/8". Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0200	4" Opening x 2" Depth x 2" Pipe	10	10
T-0202	4" Opening x 2" Depth x 3" Pipe	10	11
T-0204	4" Opening x 4" Depth x 2" Pipe	10	12
T-0206	4" Opening x 4" Depth x 3" Pipe	10	12



Copper Deck Drain

Versatile design can be used as a floor drain, area drain or deck drain. No-hub adapter is made of 100% brass. Sand-blasted finish allows excellent adhesion to waterproofing systems. Dimensions: Flange 23 gauge Drain/Flange: 9" x 9" (2") 10" x 10" (3").

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0210	2" Copper No-Hub	10	13
T-0211	3" Copper No-Hub	10	20

Copper Deck Drain with Overflow

Primarily used as a secondary drainage system for roof, deck or area drains. Overflow meets 2" building code requirements. Sand-blasted finish provides excellent adhesion to water proofing systems. Dimensions: Flange 23 gauge Drain/Flange: 9" x 9" (2") 10" x 10" (3"). Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0220	2" Copper No-Hub	5	10
T-0221	3" Copper No-Hub	5	13



Grates

Choose from a wide variety of designs. Constructed of high impact plastic. Added UV inhibitors block sun's harmful rays. All models come complete with screws. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0300	9" x 9" Nylon Dome Grate W/ Screw Kit	1 ea.	4
T-0301	9" x 9" Flat Nylon W/ Screw Kit	1 ea.	4
T-0303	4-1/2" Flat Nylon Deck / Area Grate W/ Screw Kit	1 ea.	2
T-0318	9" x 9" Nylon Round Grate W/ Screw Kit	1 ea.	2



Expansion Couplings

Provides exceptional flexibility to reduce the damaging effects of roof expansion and contraction. Preserves downspout/drain integrity to prolong roof life and decrease possibility of leaks and callbacks. Constructed of thermoplastic rubber with stainless steel bands. For use with plastic drains only. Made in the U.S.A.

PART NUMBER	DESCRIPTION	MSTR CTN QTY	LBS
T-0305	2" Expansion Coupling x 7-1/2" Height	80	3
T-0306	3" Expansion Coupling x 8-1/4" Height	40	7
T-0307	4" Expansion Coupling x 9" Height	24	9



Floor Drain Guide

HOW TO SELECT A FLOOR DRAIN

Floor drains are primarily used for inside locations where the flow rate into the drain can be anticipated and for the outside areas where rainfall volume dictates sizing. Drains should be selected with the sufficient top size and grate free area to pass the anticipated flow. Grate free area is defined as the total area of drainage openings in the grate. The drain outlet should be sized large enough so that it will safely pass the maximum flow through the grate, without creating buildup.

SIZING AND LOCATION

For most indoor installations, the grate free area should equal the transverse area of the connecting pipe. The number and location of drains are based on the configuration of the floor plan, type of operation and location of equipment. Location and number of the floor drains required can be determined only after careful review of the plans and anticipated building use.

Floor drains or area drains, when used to drain exterior areas, should have an open area equal to twice the cross section area of the connection pipe.

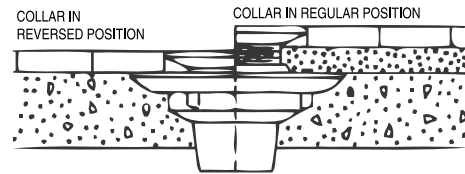
RECOMMENDED GRATE OPEN AREAS FOR VARIOUS PIPE SIZES			
NOMINAL PIPE SIZE IN.	TRANSVERSE AREA OF PIPE SQ. IN.	MIN. FLOW REQUIREMENTS (INTERIOR AREAS) SQ. IN.	MAX. FLOW REQUIREMENTS (EXTERIOR AREAS) SQ. IN.
1.5	2.04	3.06	4.08
2.0	3.14	4.71	6.28
3.0	7.06	10.59	14.12
4.0	12.60	18.90	25.20

Most drains are available with nickel bronze or bronze tops to match the surrounding trim in finished areas. Usually finished areas require light duty to medium duty tops. Round and square styles are available to blend with all types of construction and floor patterns.

The round top is the most flexible type since it can be easily oriented to most floor plans.

ADJUSTABLE TOP

Floor drains are available with over 5 round and 2 square strainer heads. Strainer heads have a 3-3/4 – 11-1/2 threaded shank which threads into the top collar. This type of drain is particularly adaptable to two pour construction, such as bathrooms, shower rooms, locker rooms and other light duty finished areas. Strainer head is easily adjusted when the tile floor is being set.

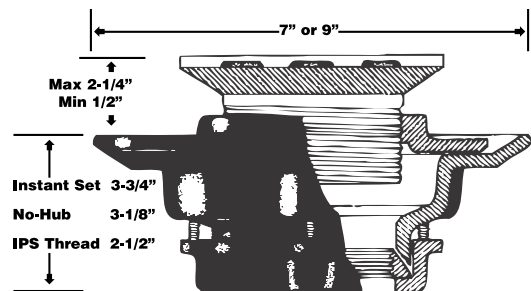
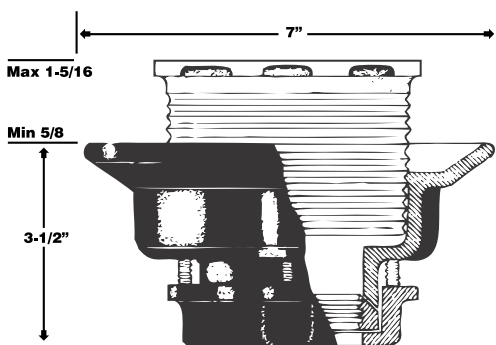


Reversible top collar permits adjustment of the strainer as low as 3/4" (measured from top of the body pan to finished floor). This low position is particularly adaptable for installation where ceramic tile is applied directly to the slab. With collar in regular position, sufficient adjustment is available for all normal two pour application. Usually the normal sand and cement fill and ceramic tile measures approximately 1-1/2". For unusually deep floor fills or unique construction, additional height can be obtained by using a suffix E x 100 extension.

INSTANT SET® CONNECTION

The Instant Set® connection was invented and patented in 1968. Instant Set® - the original mechanical connection - provides an easy, time saving method to seal pipes while allowing for vertical flexibility. The mechanical joint uses 3 bolts to compress a resilient rubber gasket against cast iron and plastic pipes to create a water tight seal.

Technical Drawings



SIZE	INSTANT SET®	NO-HUB
2"	72	N72
3"	-	N73

SIZE	INSTANT SET®	NO-HUB
2"	7020	N702
3"	-	N703

*Trap primer tap available on above models.

*Trap primer tap not available on above models.



N73W/5375S



N703W/5375R



30C

Floor Drains

PART NUMBER	OUTLET SIZE	OUTLET TYPE	ROUND STRAINER	SQUARE TOP
7" ADJUSTABLE FLOOR DRAINS WITH NICKEL BRONZE STRAINER				
N72W/5375R	2"	No-Hub	5" Round	5" Square
N73W/5375R	3"	No-Hub	5" Round	5" Square
72W/5375R	2"	Instant Set®	5" Round	5" Square
7" ADJUSTABLE FLOOR DRAINS WITH NICKEL BRONZE STRAINER AND MEMBRANE CLAMP				
N702W/5375R	2"	No-Hub	5" Round	5" Square
N703W/5375R	3"	No-Hub	5" Round	5" Square
7020W/5375R	2"	Instant Set®	5" Round	5" Square
ACCESSORIES				
100EX	Extension Extends 2"-4"			



Area Drains

PART NUMBER	OUTLET SIZE	OUTLET TYPE	ROUND STRAINER
20C	2"	Instant Set®	6"
30C	3"	Instant Set®	7"
40C	4"	Instant Set®	8"

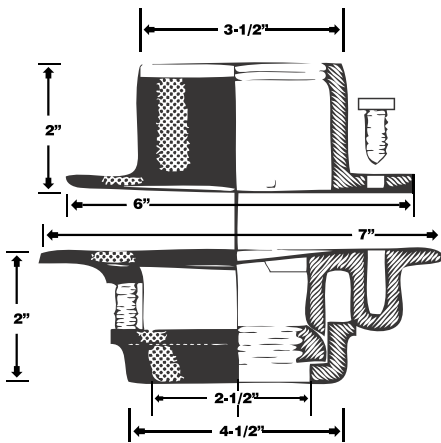


Shower Drain Guide

The 20SD Shower Drain was developed in 1968. At that time most of the plumbing fittings and related products were painted the standard black color. To differentiate the products from the rest of the industry's standard black color, the 20SD was painted with a light blue. Today it is recognized as "TRUE BLUE" in the industry.



Technical Drawings



20SD



20SD



2SD-030



2SD-003



2SD-033



2SD-050

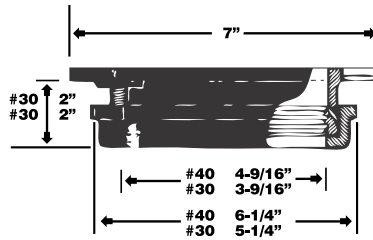
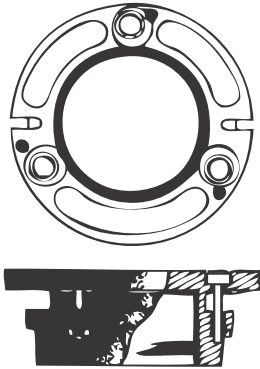
Shower Drains

PART NUMBER	OUTLET SIZE	OUTLET TYPE	STRAINER DIAMETER
20SD	2"	Instant Set	3-1/2"



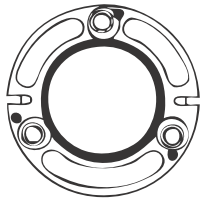
PART NUMBER	DESCRIPTION
2SD-030	Screen W/ Screws
2SD-003	Steel Screen - Snap-in
2SD-033	Steel Ring
2SD-050	Crown Set

Closet Flanges Technical Drawings

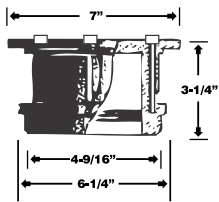


SIZE	REGULAR
3" x 2"	30
4" x 2"	40

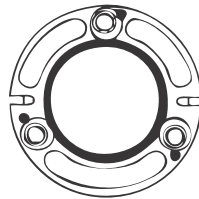
Available with test plug



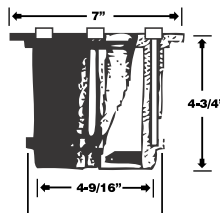
InstantSet®
Closet Ring 4" x 4"



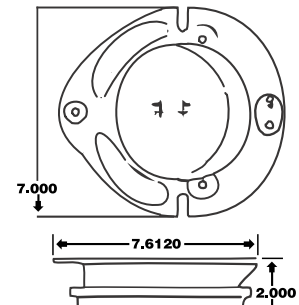
SIZE	REGULAR	DEEP
4" x 4"	-	44



InstantSet®
Closet Ring 4" x 6"



SIZE	REGULAR	DEEP
4" x 6"	-	46



Cast Iron Off-Set Closet Ring
OS40



40TC



44



OS40



46

Closet Flanges

PART NUMBER	DESCRIPTION
30	3" x 2" Closet Ring
30TC	3" x 2" Closet Ring w/ Test Cap
40	4" x 2" Closet Ring
40TC	4" x 2" Closet Ring w/ Test Cap
44	4" x 4" Deep Closet Ring
46	4" x 6" Deep
OS40	4" x 2" Closet Ring 3/4 Offset





Clean Outs

TRAFFIC FUNCTION: The top specified must be strong enough to safely carry the loads of anticipated traffic. The regular nickel bronze top is a heavy duty design and can be used for all finished floor areas subject to foot and light vehicular traffic, round, heavy duty cast iron tops should be specified. LSP offers cast iron tops in heavy duty design and non-tractor type covers.

MATERIAL: For most finished floors, scoriated nonskid nickel bronze tops are recommended. Nickel bronze has excellent corrosion resistant qualities, is extremely serviceable, will not discolor and has an attractive surface. Nickel bronze tops will not rust stain the surrounding finished floor areas as cast iron tops sometimes do. The "scuff-buff" action adds to its appearance, giving it a soft patina. Tops are available in special polished cast bronze, for use where tops must blend with other architectural trim.

SELECTION OF BODY: Outlet Type - bodies which are used with adjustable floor - level cleanout assemblies are available with two types of outlet connections. No-Hub and Instant Set® which can be effectively used, depending on the type of piping used in the system and compliance with plumbing code stipulations.

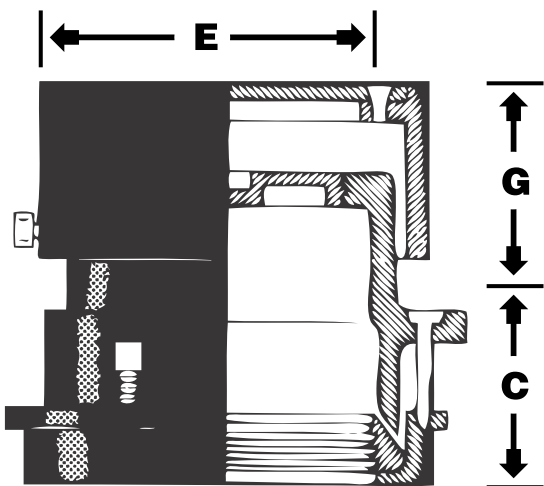
Access Covers

SELECTION OF TOP TYPE: For general use, the floor access cover are secured with countersunk screws. Where required, these screws may be of the vandal proof variety.

SELECTION FOR TRAFFIC LOAD: All floor access covers are subject to some sort of traffic. For most indoor areas which are subject to foot and light traffic, the regular scoriated nickel bronze top is recommended.

SELECTION OF MATERIAL: Since the floor areas are of the finished type, polished scoriated nickel bronze tops are recommended. In areas where blending with surrounding architectural trim is a requirement, polished bronze is available. **CHROME PLATED BRONZE ACCESS COVER AND FRAMES ARE NEVER RECOMMENDED FOR FLOOR APPLICATIONS.** For unfinished areas, heavy duty cast iron tops are recommended.

Technical Drawings



MODEL NUMBERS		
SIZE	NO-HUB CLEANOUT W/BODY	NO-HUB CLEANOUT BODY ONLY
4"	N404-4440	N404

A-NOM SIZE	C	E	G.MAX	G.MIN
2" & 3"	1-3/8"	2-1/2"	4"	2-1/2"
4"	1-3/8"	3-1/2"	4-1/4"	2-3/4"



N404W/4440



4440

Clean Outs & Floor Access Covers

PART NUMBER	OUTLET SIZE	OUTLET TYPE
CLEANOUTS		
N404	4"	No Hub
CLEANOUTS WITH FLOOR ACCESS COVER		
N404W/4440	4"	No Hub



PART NUMBER	MATERIAL	PIPE SIZE
FLUSH FLOOR CLEANOUT COVERS		
4430	Iron / Brass	2" - 3"
4440	Iron / Brass	3" - 4"



Roof Drain Guide

ORIGIN

The modern roof drain must be designed to drain off rain water in the most effective manner possible while maintaining an aesthetic appeal since it is placed in full view of the public in many instances.

HOW TO SELECT A ROOF DRAIN

To select the proper roof drain, the following information must be determined by the specifier:

- Type of roof construction
- Roof pitch
- Volume of expected rainfall
- Desired rate of drainage
- Roof load and safety overflow requirements
- Locations of drains
- Size
- Vandal proofing

SELECTION OF ROOF DRAIN BODY

For a heavy rainfall region use 12" diameter type for large or small roof areas. For a light rainfall region, use 8-1/2" diameter type for small roof areas.

SELECTING PROPER ROOF DRAIN LEADER SIZES

1. Calculate the total roof area.
2. Determine the maximum hourly rainfall in inches. (The figure can be acquired from your local weather bureau and or local code authority.)
3. Select leader size.
4. From Table 1, determine the number of square feet that can be drained by one roof leader at the local maximum rainfall rate.
5. Divide the total roof area by the area that one leader will handle. The above result is the number of roof drains required for the building. If the result is a fraction less, use the next higher number.

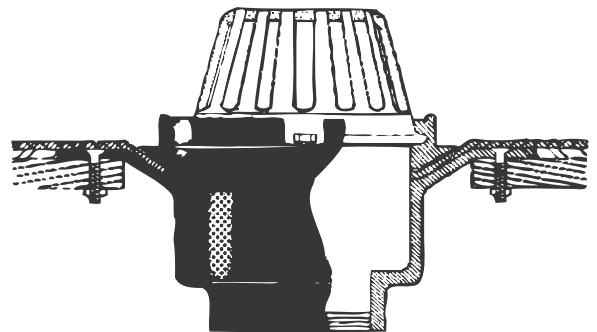
NOTE: It can be readily seen that if 4" leaders were desired the number of roof drains required would increase to 22 drains. If a small number of roof drains are required then a larger leader would have to be chosen. Several small drains and leaders rather than one or two large drains will ensure even, safe and adequate roof drainage. Drains should be spaced for even drainage.

CALCULATING TOTAL G.P.M.

G.P.M. = .0104 x R x A
 G.P.M. = Gallons per minute
 R = Rainfall Intensity (inches/hour)
 A = Roof Area (square feet)
 0.0104 = conversion factor

Example: 4" rainfall with a roof area of 30,000 square feet
 .0104 x 4" x 30,000 = 1248 G.P.M

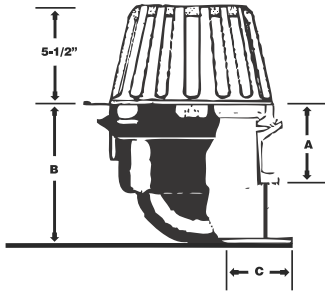
PIPE SIZE	VERTICAL LEADER	TABLE 2 - ALLOWABLE FLOW IN G.P.M		
		HORIZONTAL 1/8"	HORIZONTAL 1/4"	HORIZONTAL 1/2"
2	30	12	17	24
3	90	36	51	72
4	192	78	111	157
5	348	142	201	284
6	566	231	327	462
8	1220	498	705	996
10	2200	902	1275	1804
12	-	1467	2076	2934
15	-	2666	3774	5332



LEADERS PIPE SIZE INCHES	SIZE OPEN AREA SQ. IN.	TABLE 1 - HOURLY RAINFALL IN INCHES									
		1	1-1/2	2	2-1/2	3	4	5	6	7	8
		ROOF AREA - SQUARE FEET									
2	3.14	2,880	1,920	1,440	1,150	960	720	575	480	410	360
3	7.06	8,880	5,860	4,400	3,520	2,930	2,200	1,760	1,470	1,260	1,100
4	12.56	18,400	12,700	9,200	7,360	6,130	4,600	3,680	3,070	2,630	2,300
5	19.60	34,600	23,050	17,300	13,840	11,530	8,650	6,920	5,765	4,945	4,325
6	28.30	54,000	36,000	27,000	21,600	18,000	13,500	10,800	9,000	7,715	6,750
8	50.25	116,000	77,400	58,000	46,400	38,680	29,000	23,200	19,315	16,570	14,500

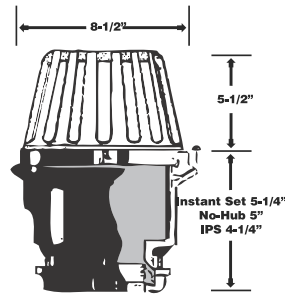
NOTE: Above table is for leader sizes. Select drains with adequate open free area in proportion to the leader size and consistent with code requirements. Based on National Plumbing Code.

Technical Drawings



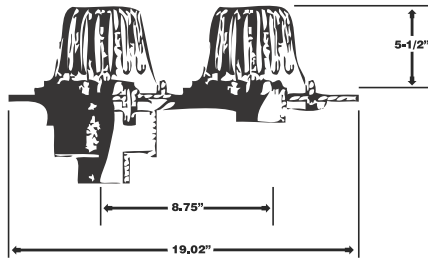
8-1/2" SIDE OUTLET ROOF DRAIN
Available in bottom and side outlet

SIZE	NO-HUB
SIDE OUTLET	
2"	852SN
3"	853SN
4"	854SN



8-1/2" BOTTOM OUTLET ROOF DRAIN
Available in bottom and side outlet

SIZE	NO-HUB
BOTTOM OUTLET	
2"	852N
3"	853N
4"	854N



SIZE	NO-HUB
ROOF DRAIN	
2"	850-2N
3"	850-3N
4"	850-4N



853SN



853N



850-3N



850-041



850-003

Roof Drains

PART NUMBER	DESCRIPTION
ROOF DRAIN 8-1/2 SERIES / SIDE OUTLET	
852SN	2" No-Hub
853SN	3" No-Hub
854SN	4" No-Hub
ROOF DRAIN 8-1/2 SERIES / BOTTOM OUTLET	
852N	2" No-Hub
853N	3" No-Hub
854N	4" No-Hub
ROOF DRAIN OVERFLOW COMBINATION	
850-2N	2" x 2" No-Hub
850-3N	3" x 3" No-Hub
850-4N	4" x 4" No-Hub



ROOF DRAIN PARTS	
850-003	Strainer Dome
850-006	Roof Drain Membrane Clamp - Reg
850-007	Roof Drain Membrane Clamp
850-041	2" High Dam Membrane Clamp - 8"

Chemicals

LSP offers a broad range of high strength PVC, CPVC and ABS solvent cements, primers, cleaners, and thread sealants ideally formulated for a variety of pipe joining applications. All LSP cements, primers, cleaners and thread sealants are low in volatile organic components (Low VOC) that readily evaporate into the atmosphere. These Low VOC products provide functional performance alternative that are environmentally friendly. The thread sealants are specifically designed for thread-locking, lubrication and a sure water seal.

VALSPAR is the leading manufacturer of industrial, marking, fluorescent and all-purpose paints. LSP is excited to partner with VALSPAR and offer you this winning product category.



Solvent Cements & Primers	96
Pipe Thread Sealants.....	100
Valspar Paints	101



Solvent Cements & Primers Selection Guide

		COLOR	NOMINAL PIPE SIZE	PIPE SIZE																
				NOMINAL PIPE SIZE																
				MM	15	20	25	40	50	60	75	100	125	150	200	250	300	450	600	800
				IN.	1/2	3/4	1	1-1/2	2	2-1/2	3	4	5	6	8	10	12	18	24	30
PVC	REGULAR BODY	CLEAR	600C REGULAR	[Schedule 40 and 80]																
	MEDIUM BODY	CLEAR	605C MEDIUM	[Schedule 40 and 80]																
		BLUE	621B IRRIGATION	[Schedule 40 and 80]																
		AQUA BLUE	625B WET CONDITIONS	[Schedule 40 and 80]																
		CLEAR	627C ALL WEATHER	[Schedule 40 and 80]																
	CLEAR	695C FLEXIBLE PVC	[Schedule 40 and 80]																	
	HEAVY BODY	CLEAR GRAY	617C/G HEAVY	[Schedule 40 and 80]																
EXTRA-HEAVY BODY	GRAY	619G EXTRA HEAVY	[Schedule 40 and 80]																	
CPVC	MEDIUM BODY	YELLOW	6FG ONE-STEP	[Schedule 40 and 80]																
	REGULAR BODY	ORANGE	6130 REGULAR	[Schedule 40 and 80]																
	HEAVY BODY	GRAY	614G HEAVY	[Schedule 40 and 80]																
ABS		BLACK	673BK ABS	[Schedule 40 and 80]																
SPECIALTY		CLEAR	690C UNIVERSAL	[Schedule 40 and 80]																
		CLEAR GREEN	694C/GN TRANSITION	[Schedule 40 and 80]																
PRIMER		CLEAR PURPLE	670C/P PRIMER	[Schedule 40 and 80]																
		CLEAR PURPLE	640C/P PRIMER CLEANER	[Schedule 40 and 80]																
		CLEAR	650C CLEANER	[Schedule 40 and 80]																



PIPE FORMAT: SCHEDULE 40 SCHEDULE 80

Solvent Cements & Primers Installation Guide

Handling / Set Schedule*					
Temperature	Pipe Size 1/2" to 1-1/4" 15mm to 30mm	Pipe Size 1-1/2" to 3" 40mm to 75mm	Pipe Size 4" to 8" 100mm to 200mm	Pipe Size 10" to 16" 250mm to 400m	Pipe Size 16"+ 400mm+
60° - 100° F 16° - 38° C	2 minutes	5 minutes	30 minutes	2 hours	4 hours
40° - 60° F 5° - 16° C	5 minutes	10 minutes	2 hours	8 hours	16 hours
0° - 40° F -18° - 5° C	10 minutes	15 minutes	12 hours	24 hours	48 hours

*The handling / set schedule is the time required before handling the joint. In case of damp/humid weather or loose fitting joints, allow 50% additional cure time.

Average Number of Joints per Quart											
Pipe Diameter	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm	3" 75mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm
Total Joints	325	240	180	120	80	50	30	15	7	4	2

Joint / Cure Schedule*								
Relative Humidity 60% or less	Pipe Size 1/2" to 1-1/4" 15mm to 30mm		Pipe Size 1-1/2" to 3" 40mm to 75mm		Pipe Size 4" to 8" 100mm to 200mm		Pipe Size 10" to 16" 250mm to 400m	Pipe Size 16"+ 400mm+
Temperature during assembly and cure periods	Up to 180 PSI 12.4 Bar	180 PSI+ 12.4 Bar+	Up to 180 PSI 12.4 Bar	180 PSI+ 12.4 Bar+	Up to 180 PSI 12.4 Bar	180 PSI+ 12.4 Bar+	Up to 100 PSI 7 Bar	Up to 100 PSI 7 Bar
60° - 100° F 16° - 38° C	15 min	6 hrs	30 min	12 hrs	1-1/2 hrs	24 hrs	48 hrs	72 hrs
40° - 60° F 5° - 16° C	20 min	12 hrs	45 min	24 hrs	4 hrs	48 hrs	96 hrs	6 days
0° - 40° F -18° - 5° C	30 min	48 hrs	1 hr	96 hrs	3 days	8 days	8 days	14 days

*The handling / set schedule is the time required before handling the joint. In case of damp/humid weather or loose fitting joints, allow 50% additional cure time.

ALL THE DATA SHOWN ABOVE IS BASED ON LABORATORY TESTING. CHARTS SHOULD BE USED AS A GENERAL GUIDE, AS CONDITIONS IN THE FIELD MAY VARY.

Solvent Cements & Primers Case Quantity Guide

Master Carton Quantities of Solvent Cements & Primers				
Can Size	1/2 Pint	Pint	Quart	Gallon
Master Ctn	24	12	12	6

Each product is labeled with a numbered extension to clearly identify the size of the can. 1/2 Pint cans are -2, Pint cans are -3, Quart cans are -4 and Gallon cans are -5.

Example: An item with the product number 625B-2 would be a case of 1/2 Pint PVC Cement and would contain 24 cans per case.

PVC CEMENTS

PRODUCT	PIPE SIZE	BODY/ SET	COLORS	LISTINGS / SPECIFICATIONS	SIZES
 <p>600 REGULAR BODY For use on pipes and joints in potable drinking water, DWV (Drain/Waste/Vent), irrigation, pool & spa and electrical conduit systems.</p>	For all PVC through 4", excluding SCH 80.	Regular / Fast	○ Clear	NSF UFC	Pint 600C-3 Quart 600C-4 Gallon 600C-5
 <p>605 MEDIUM BODY Recommended for all types and grades of PVC in potable drinking water, DWV (Drain/Waste/Vent), irrigation, pool & spa, and electrical conduit systems. Can be used without primer on non-pressure systems if local codes allow.</p>	For all PVC through 6" / SCH 80 thru 4".	Medium / Fast	○ Clear	NSF UFC	Pint 605C-3 Quart 605C-4 Gallon 605C-5
 <p>617 HEAVY BODY Recommended for all types and grades of PVC in potable drinking water, DWV (Drain/Waste/Vent), irrigation, pool & spa, and electrical conduit systems. Heavy body provides good gap filling properties. Medium set time provides longer working time. Very high strength industrial grade cement.</p>	For all PVC through 12".	Heavy / Medium	○ Clear ● Gray	NSF UFC	Pint 617C-3 Quart 617C-4 Gallon 617C-5 Pint 617G-3 Quart 617G-4 Gallon 617G-5
 <p>619 EXTRA HEAVY BODY Very high strength industrial grade cement for large industrial pipe systems. Perfect for fabricating because of its large gap filling properties. Slow set time provides longer working time for larger pipes.</p>	For all PVC through 30".	Extra Heavy / Slow	● Gray		Pint 619G-3 Quart 619G-4 Gallon 619G-5
 <p>621 IRRIGATION Very fast setting premium cement for rigid or flexible PVC in wet conditions for quick pressurization. Perfect for irrigation systems.</p>	For all PVC thru 6" / SCH 80 through 4".	Medium / Very Fast	● Blue	NSF UFC	Pint 621B-3 Quart 621B-4 Gallon 621B-5
 <p>625 WET CONDITIONS Perfect for irrigation, pool and spa, and plumbing applications where wet conditions exist and/or quick pressurization is desired. Can be used without primer on non-pressure systems if codes allow.</p>	For all PVC thru 6" / SCH 80 through 4".	Medium / Very Fast	● Aqua Blue	NSF UFC	1/2 Pint 625B-2 Pint 625B-3 Quart 625B-4 Gallon 625B-5
 <p>627 ALL WEATHER For use on pipes and joints in potable drinking water, DWV (Drain/Waste/Vent), irrigation, pool & spa and electrical conduit system.</p>	For all PVC thru 6" / SCH 80 through 4".	Medium / Fast	○ Clear	NSF UFC	Pint 627C-3 Quart 627C-4 Gallon 627C-5

All solvent cements and primers are made in the U.S.A.



	PRODUCT	PIPE SIZE	BODY/ SET	COLORS	LISTINGS / SPECIFICATIONS	SIZES
PVC	 695 FLEX Special formula for solvent welding flexible PVC to rigid fittings.	For all PVC through 6" / SCH 80 through 4"	Medium / Fast	○ Clear	NSF UPC	Quart 695C-4
	 6FG ONE STEP CEMENT One-step CPVC cement can be used without primer if codes allow. For use on CPVC potable water systems including FlowGuard Gold*.	For CPVC CTS through 2" including FlowGuard Gold*	Medium / Fast	● Yellow	NSF UPC	1/2 Pint 6FG-2 Pint 6FG-3 Quart 6FG-4
CPVC	 613 REGULAR BODY For use with CPVC potable water systems.	For CPVC CTS through 2"	Regular / Fast	● Orange	NSF UPC	1/2 Pint 613O-2 Pint 613O-3 Quart 613O-4
	 614 HEAVY BODY Industrial quality CPVC cement for non-chemical systems.	For all CPVC through 12"	Heavy / Medium	● Gray	NSF UPC	1/2 Pint 614G-2 Pint 614G-3 Quart 614G-4
ABS	 673 ABS CEMENT For use on ABS systems including DWV (Drain/Waste/Vent), conduit, and foam core.	For all ABS through 8"	Medium / Fast	● Black	NSF UPC	Pint 673BK-3 Quart 673BK-4 Gallon 673BK-5
SPECIALTY	 690 UNIVERSAL CEMENT For use on PVC, CPVC, and ABS.	For all PVC, CPVC, and ABS through 6"	Medium / Fast	○ Clear		1/2 Pint 690C-2 Pint 690C-3 Quart 690C-4
	 694 TRANSITION CEMENT ABS-PVC For use on transition joints between ABS and PVC non-pressure systems.	ABS to PVC non-pressure transition joints through 6" dia.	Medium / Fast	○ Clear ● Green	NSF UPC	Pint 694C-3 Quart 694C-4 Pint 694GN-3 Quart 694GN-4
PRIMERS & CLEANERS	 670 PRIMER Premium, industrial strength, primer used to aggressively soften and prepare PVC and CPVC for solvent cement welding.	For all PVC and CPVC pipes and fittings.		○ Clear ● Purple	NSF UPC	Pint 670C-3 Quart 670C-4 Gallon 670C-5 Pint 670P-3 Quart 670P-4 Gallon 670P-5
	 640 PRIMER CLEANER For cleaning and preparing PVC and CPVC surfaces for solvent cement welding.	For use on all PVC and CPVC pipes and fittings.		○ Clear ● Purple	F 656	Pint 640C-3 Quart 640C-4 Gallon 640C-5 Pint 640P-3 Quart 640P-4 Gallon 640P-5
	 650 CLEANER For removing dirt, grease, oil, and other foreign substances from pipe and fitting surface in preparation for priming and solvent cement welding.	For use on all PVC, CPVC, and ABS pipe and fittings		○ Clear		Pint 650C-3 Quart 650C-4 Gallon 650C-5



Gold 555

Gold 555

- Slow drying, soft-setting formula allows ample time for assembly or disassembly
- Creamy, non-separating consistency provides excellent thread coverage
- Grit-free sealant ensures leak proof sealing
- For sealing and lubricating all metal and plastic (ABS, PVC, CPVC, Polypropylene & Nylon) piping systems carrying various materials
- Made in the USA

PART NUMBER	SIZE	QTY	LBS
55502	1/2 Pint	24	20
55503	Pint	12	22



White Teflon 222

White Teflon 222

- Contains fine PTFE (Teflon®) particles for filling cracks and thread imperfections, ensuring a leak-proof seal
- Thick body formula has no smell, won't stain tile, marble, wood or other finishes and won't separate in the can
- For sealing and lubricating all metal and plastic (ABS, PVC, CPVC, Polypropylene & Nylon) piping systems carrying various material
- Compatible with FlowGuard Gold®, BlazeMaster® and Corzan®
- Made in the USA

PART NUMBER	SIZE	QTY	LBS
22202	1/2 Pint	24	20
22203	Pint	12	22



Heavy Blue

Heavy Blue (Industrial)

- Heavy duty, grit-free formula
- Excellent for industrial applications and pipe lines in high vibration environments
- Finely synthesized PTFE (Teflon®) particles fill imperfections while never hardening in vibrating connections
- For sealing and lubricating all metal and plastic (ABS, PVC, CPVC, Polypropylene & Nylon) piping systems carrying various material
- Made in the USA

PART NUMBER	SIZE	QTY	LBS
88802	1/2 Pint	24	20
88803	Pint	12	22





Fluorescent

Fluorescent

- Ideal for identification and safety
- Bright, reflective colors ensure instant visibility
- Use on both interior and exterior surfaces and on a wide range of materials
- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
Fluorescent 15 oz.	6	7.8

Fluor Yellow 80022	Fluor Orange 80023	Fluor Red 80024	Fluor Green 80025
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Upside Down Marking Paint

Upside Down Marking Paint

- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
Marking Paint 17oz.	6	7.8

APWA White 11731	APWA Orange 11733	APWA Red 11734	Fluor Yellow 11735	APWA Green 11736
Fluor Red/Or 11740	Fluor Red 11742	Fluor Pink 11743	Fluor Orange 82012	



Traffic Paint

Traffic Paint

- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
Traffic Paint 17oz.	6	7.8

Traffic White 11703	Traffic Yellow 11704	Traffic Blue 11706	Traffic Black 11707
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All-Purpose Enamel

All-Purpose Enamel

- Interior / Exterior
- For wood, metal and more
- Weather Resistant
- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
All-Purpose Enamel 12 oz.	6	6

Gloss Black 81000	Flat Black 81001	White Gloss 81002 Flat 81003	Safety Red 81004	Gray 81005	Green 81006
Blue 81007	Brown 81008	Gray Primer 81009	Satin Black 81010	Safety Yellow 81011	Safety Orange 81012
Purple 81013	Aluminum 81014	Antique White 81017			

*Colors shown in this catalog are an approximate match.



High Heat

High Heat

- Withstands up to 1300° F
- Fast-drying smooth finish
- Protects against corrosion
- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
High Heat 15 oz.	6	7.8

Black 80026	White 80031
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Zinc Primer

Zinc Primer

- Cold galvanizing spray
- Dry film contains 90% zinc
- Bonds to the surface
- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
Zinc Primer 16oz.	6	7.8

Zinc Primer 80030





Hammered

Hammered

- Covers imperfections in scratched or pitted metal
- Rust resistant
- Made in the U.S.A.

PART NUMBER	CASE QTY	LBS
Hammered 15oz.	6	7.8



Industrial Enamel

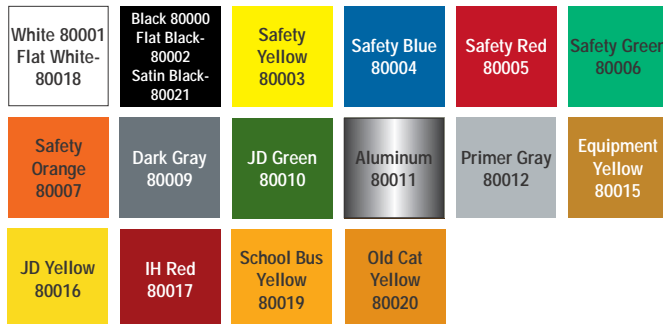
Spray

- Finish your project faster and save money with the high-solids formula
- Excellent coverage in one coat
- Fights corrosion
- Great adhesion to interior / exterior wood, metal, aluminum and more



Industrial Enamel Spray

PART NUMBER	CASE QTY	LBS
Industrial Enamel Spray 15 oz.	6	7.8



* Colors shown in this catalog are an approximate match.



SHIPMENTS AND DELIVERY

BROKEN CARTON AND FEES: A broken carton fee of **\$5.00 per line item** will be applied when orders do not meet case/bag quantities. Hazardous materials, tub protectors, and Innofoam, must be purchased in case/bag quantity.

SHIPPING/HANDLING: FedEx and freight trucks will only deliver to a physical address, they will not deliver to a P.O. Box, therefore, whenever placing an order please provide a physical address for the shipping address. All orders placed must meet minimum order requirement of **\$100 net**. Orders less than \$100 net will incur a **\$25 charge**. Orders greater than \$1,500 net are shipped "full freight allowed", i.e., LSP pays freight charges. We reserve the right to route shipments the least expensive way. FedEx: All small package orders are sent by FedEx Ground Service. FedEx Overnight, Second Day Air, and Third Day service will be used only at the customer's request and expense.

FREIGHT TRUCKS: Freight truck deliveries will be shipped collect or prepaid. Freight collect means freight will be billed back to the customer. Freight prepaid means LSP will prepay the freight for the customer.

Please Note: In order to provide our free freight shipping policy to our customers at the lowest possible cost, our freight must be specified to certain carriers for specific places in the continental U.S. Therefore, if a customer requests a particular carrier for shipping, the customer must pay the freight and any other costs associated on these specified shipments.

If a customer needs to refuse a shipment due to damage please make sure you contact the shipper and LSP Customer Service before refusing the shipment. If this procedure is not followed, the customer will be responsible for all freight costs including original shipping costs, if appropriate, and all freight costs incurred due to the refused order being returned. A **20% restocking fee** on the material will also be charged on any shipment that is refused without proper, prior authorization. Please see Returns for more information.

BACK ORDER: Occasionally items may be temporarily backordered. The items will be shipped in 1 shipment within 14 days of the original ship date if material becomes available. Any backordered items **not available within 14 days will be cancelled**. Backordered items will not be billed to the customer account until the material is shipped. All backorders are shipped prepaid. On any back orders, LSP will call to confirm the backorder and advise of the ship date of the material or provide cancellation notice if the material is not available in 14 days of the original ship date. Please note: The back order will have the same purchase order number as the original order, but the back order invoice number will be different. If there is a problem with any back order, please promptly contact LSP.

WILL CALL ORDERS

All Will Call orders must be placed to LSP Customer Service by phone ONLY. Orders placed before 2 p.m. Central will be ready for pickup no earlier/later than the open of business the following business day. Please provide the LSP Order Number at pickup (Purchase Orders will NOT be accepted).

PRODUCT RETURNS

RETURNS: We accept product returns in the original packaging up to **one year** from the date of purchase. To initiate a return, contact LSP Customer Service at 800-854-3215 to be issued written approval and provided a return material authorization (RMA) number prior to returning material. After your return is authorized, please follow the guidelines below:

1. Simply return the material freight prepaid within 30 days of issuance of authorization.
2. Mark all shipping documents with the RMA number provided by LSP Customer Service and include the RMA paperwork with the return.
3. Please do NOT write on any of the packaged product being returned.

Certain items may not be returned or may have specific return instructions. Credit will be allowed on material that is in its original, unopened packaging, has not been damaged or modified, is in clean salable condition, and of LSP's current manufacturing design. Credit will be issued on the basis of invoice price. Returns will only be accepted in case quantity. A **20% restocking fee** will be applied to all returns. Custom orders including fabricated, special order, and customer made-to-order factory direct items, are non-returnable. Return shipping charges are non-refundable.

If upon inspection of the returned product, the material does not meet the requirements above, the product will be scrapped or returned to the customer at the customer's expense without issuance of credit.

SHIPPING DAMAGE: Upon receipt of any damaged material, call the carrier and LSP Customer Service immediately. The carrier has signed for receipt of the shipment from our company in good condition. All customers must thoroughly inspect their shipment upon receipt for any damage, and contact the carrier to file a claim for damaged products. The customer should contact LSP, after thorough inspection, so that we may assist you in filing a claim for any damaged material. The material condition should be clearly written on the bill of lading as either "good" or "damaged" with the number of pieces (Ex. 1 out of 3 pieces damaged.) along with the recipients or customers signature. If a customer has damaged material and the signed bill of lading does not state that the material was damaged upon receipt, the customer is responsible for the damaged material and should contact the carrier to file a claim. The customer must retain all packaging material for the carrier's inspection. Please note: Under no circumstances will LSP be responsible for replacement of damaged material whose signed bill of lading does not clearly state the material as damaged upon receipt.

Step 1: Inspect all material thoroughly.

Step 2: Check material against packing slip for completeness

Step 3: Note on bill of lading and pack slip any damaged goods or shortages with your Company Name, Receivers Name, and overall condition of load. (If all material is in good condition with no damage/shortage, please specify by signing "Good condition. Free and clear.")

Step 4: Call carrier immediately when your order has been damaged or shorted. Please have your Pro # and/or invoice # available to reference.

Step 5: Call LSP Customer Service for any material that needs to be replaced due to damage or shortage.

Step 6: All returned products must be in full carton or bagged quantity.

SHORTAGE: Shortage claims must be made to [LSP Customer Service](#) within **seven days** from the date of material receipt. It is the responsibility of the customer to inspect all material upon receipt. If a shortage has been identified, contact the carrier as well as LSP Customer Service immediately. LSP will not be responsible for any shortage claim made after seven days from the date of material receipt.

TERMS AND CONDITIONS

PAYMENTS: In order to ensure proper crediting of accounts, the customer must include remittance information with all payments. Any payment of an account sent to LSP without a remittance copy or some form of explanation will be credited where LSP deems necessary and appropriate. All payments must be made in U.S. funds only.

CREDITS: Any claim against a bill must be made within **30 days** from the invoice date. If there is a question or problem concerning an invoice or its charges, LSP should be contacted immediately. After 30 days the customer assumes all responsibility for full payment of an invoice.

PRICING: Prices are subject to change without notice. All orders are subject to the prices as they exist at the time of receipt of order.

SPECIAL NOTE: LSP reserves the right to make minor product modifications and improvements other than what is shown or described in this document without notice. LSP will not be responsible for providing improvements or updates on previous models.

LIMITED WARRANTY INFORMATION

What is covered: For one year from the date of purchase, LSP® Products Group, Inc. will replace free of charge, to the original purchaser only, any Specialty Products™, Tech Specialties®, Rapid-Fit® or Aqua-Flo® product that fails due to defect in material or workmanship. At its option, LSP® Products Group, Inc. will provide a full refund of the purchase price.

What is not covered: LSP® Products Group, Inc. shall have no obligation under this warranty for leaks or damages caused by abuse, temperatures below 33°F (1°C) and above 180°F (82.2°C), misuse, accident, improper installation, sharp ends, kinking, twisting, unauthorized repair or damage that occurs during shipping. LSP® Products Group, Inc. shall not be liable for any incidental or consequential damage resulting from the products or use of the product. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.** Some states do not allow the exclusive of limitation of incidental or consequential damages, so the above limitation or exclusive may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

CONTACTING LSP: In order to serve you better, please have the following information available when contacting LSP:

1. Customer's Account Number
2. Customer's Company Name
3. Customer's City and State
4. Customer's Purchase Order Number
5. Specific Invoice Numbers When Applicable

PLACE AN ORDER: Orders can be placed by phone, fax or email.



Call LSP Customer Service at 1-800-854-3215



Fax order to 1-800-243-1777



Email orders to sales@lspproducts.com

A	Area (Roof Area in Square Feet)
ABS Pipe	Acrylonitrile-Butadiene-Styrene Pipe
ASTM	American Society for Testing and Materials
C.P.	Chrome Plated
Compr.	Compression
CPVC Pipe	Chlorinated Polyvinyl Chloride Pipe
CTN	Carton
CTS	Copper Tube Size
DWV Pipe	Non-pressure (Vented) Piping Used for Drain, Waste or Vent
F.G.H.T.	Female Garden Hose Thread
FT	Feet
F.I.P.	Female Iron Pipe Thread
G.P.M.	Gallons per Minute
H.A.	Hammer Arrester
H.C.	Hard Compression Seal
HS	Half-Slit Design
I.D.	Inner Diameter
IPS	Iron Pipe Size
LL	Low Lead/Lead Free
M.G.H.T.	Male Garden Hose Thread
M.I.P.	Male Iron Pipe Thread
O.D.	Outer Diameter
PSI	Pounds per Square Inch
PVC Pipe	Polyvinyl Chloride Pipe
R	Rainfall Intensity (Inches/Hour)
S.C.	Soft Compression Seal
SCH	Schedule
SS	Seal Seam Closure Feature
TPI	Thread per Inch
WHI	Warnock Hersey International, Incorporated

30	89	81006	102	619G-4	98	854N	93
40	89	81007	102	619G-5	98	854SN	93
44	89	81008	102	621B	96	ACF-1212	40
46	89	81009	102	621B-3	98	ACF-1717	40
72	86	81010	102	621B-4	98	AP1212	40
1100	42	81011	102	621B-5	98	AP1414	40
1200	42	81012	102	625B	96	AP1426	40
1300	42	81013	102	625B-2	98	AP55	40
1313	34	81014	102	625B-3	98	AP88	40
1410	34	81017	102	625B-4	98	AP96	40
2600	42	82006	101	625B-5	98	BB1212	43
4430	91	82012	101	627C	96	BB1218	43
4440	91	88802	100	627C-3	98	BB212	43
6200	42	88803	100	627C-4	98	BB412	43
7020	86	100EX	87	627C-5	98	BB418	43
11703	101	104BC	41	640C	96	BB812	43
11704	101	104BW	41	640C-3	99	BB818	43
11706	101	104FC	41	640C-4	99	CFC-109-PP	62
11707	101	104FW	41	640C-5	99	CFC-112-PP	62
11731	101	105BC	41	640P	96	CFC-116-PP	62
11733	101	105BW	41	640P-3	99	CFC-120-PP	62
11734	101	105FC	41	640P-4	99	CFC-130-PP	62
11735	101	105FW	41	640P-5	99	CFC-216-PP	62
11736	101	107BC	41	650C	96	CFC-220-PP	62
11740	101	107BW	41	650C-3	99	CFC-309-PP	62
11742	101	107FC	41	650C-4	99	CFC-312-PP	62
11743	101	107FW	41	650C-5	99	CFC-316-PP	62
22202	100	109BC	41	670C	96	CFC-320-PP	62
22203	100	109BW	41	670C-3	99	CFC-330-PP	62
55502	100	109FC	41	670C-4	99	CFC-412-PP	62
55503	100	109FW	41	670C-5	99	CFC-416-PP	62
80000	103	1300W	42	670P	96	CFC-420-PP	62
80001	103	20C	87	670P-3	99	CFC-430-PP	62
80002	103	20SD	88	670P-4	99	CFC-512-PP	62
80003	103	2SD-003	88	670P-5	99	CFC-516-PP	62
80004	103	2SD-030	88	673BK	96	CFC-520-PP	62
80005	103	2SD-050	88	673BK-3	99	CFC-530-PP	62
80006	103	2SD-033	88	673BK-4	99	F-01210-HS	51
80007	103	30C	87	673BK-5	99	F-01210-SS	51
80008	103	30TC	89	690C	96	F-01212-HS	50
80009	103	40C	87	690C-2	99	F-01212-SS	50
80010	103	40TC	89	690C-3	99	F-01234-HS	51
80011	103	600C	96	690C-4	99	F-01234-SS	51
80012	103	600C-3	98	694C	96	F-01238-HS	50
80014	103	600C-4	98	694C-3	99	F-01238-SS	50
80015	103	600C-5	98	694C-4	99	F-03410-HS	51
80016	103	605C	96	694GN	96	F-03410-SS	51
80017	103	605C-3	98	694GN-3	99	F-03412-HS	50
80018	103	605C-4	98	694GN-4	99	F-03412-SS	50
80019	103	605C-5	98	695C	96	F-03434-HS	51
80020	103	6130	96	695C-4	99	F-03434-SS	51
80021	103	6130-2	99	6FG	96	F-03438-HS	50
80022	101	6130-3	99	6FG-2	99	F-03438-SS	50
80023	101	6130-4	99	6FG-3	99	F-03810-HS	51
80024	101	614G	96	6FG-4	99	F-03810-SS	51
80025	101	614G-2	99	7020W/5375R	87	F-03812-HS	50
80026	102	614G-3	99	72W/5375R	87	F-03812-SS	50
80027	102	614G-4	99	850-003	93	F-03834-HS	51
80028	103	617C	96	850-006	93	F-03834-SS	51
80029	103	617C-3	98	850-007	93	F-03838-HS	50
80030	102	617C-4	98	850-041	93	F-03838-SS	50
80031	102	617C-5	98	850-2N	93	F-05810-HS	51
81000	102	617G	96	850-3N	93	F-05810-SS	51
81001	102	617G-3	98	850-4N	93	F-05812-HS	50
81002	102	617G-4	98	852N	93	F-05812-SS	50
81003	102	617G-5	98	852SN	93	F-05834-HS	51
81004	102	619G	96	853N	93	F-05834-SS	51
81005	102	619G-3	98	853SN	93	F-05838-HS	50

F-05838-SS	50	F-23812-SS	50	GSFS-201	21	K-20012-SS	54
F-07810-HS	51	F-23834-HS	51	GSFS-201-FX	21	K-20034	53
F-07810-SS	51	F-23834-SS	51	HCW24	43	K-20034-SS	55
F-07812-HS	50	F-23838-HS	50	HWH-112-PP	70	K-20038-SS	54
F-07812-SS	50	F-23838-SS	50	HWH-118-PP	70	K-21810	53
F-07834-HS	51	F-25810-HS	51	HWH-124-PP	70	K-21810-SS	55
F-07834-SS	51	F-25810-SS	51	HWH-148-PP	70	K-21812	52
F-07838-HS	50	F-25812-HS	50	K-01212	52	K-21812-SS	54
F-07838-SS	50	F-25812-SS	50	K-01212-SS	54	K-21834	53
F-10010-HS	51	F-25834-HS	51	K-01234	53	K-21834-SS	55
F-10010-SS	51	F-25834-SS	51	K-01234-SS	55	K-21838	52
F-10012-HS	50	F-25838-HS	50	K-01238	52	K-21838-SS	54
F-10012-SS	50	F-25838-SS	50	K-01238-SS	54	K-23810	53
F-10034-HS	51	F-27810-SS	51	K-03410	53	K-23810-SS	55
F-10034-SS	51	F-27812-HS	50	K-03410-SS	55	K-23812	52
F-10038-HS	50	F-27812-SS	50	K-03412	52	K-23812-SS	54
F-10038-SS	50	F-27834-HS	51	K-03412-SS	54	K-23834	53
F-11410-HS	51	F-27838-HS	50	K-03434	53	K-23834-SS	55
F-11410-SS	51	F-27838-SS	50	K-03434-SS	55	K-23838	52
F-11412-HS	50	F-31210-HS	51	K-03438	52	K-25810	53
F-11412-SS	50	F-31210-SS	51	K-03438-SS	54	K-25810-SS	55
F-11434-HS	51	F-31212-HS	50	K-03812	52	K-25812	52
F-11434-SS	51	F-31212-SS	50	K-03812-SS	54	K-25812-SS	54
F-11438-HS	50	F-31234-HS	51	K-03834-SS	55	K-25834-SS	55
F-11438-SS	50	F-31234-SS	51	K-03838	52	K-27810	53
F-11810-HS	51	F-31238-HS	50	K-05810	53	K-27810-SS	55
F-11810-SS	51	F-31238-SS	50	K-05810-SS	55	K-27812	52
F-11812-HS	50	F-31810-HS	51	K-05812	52	K-27812-SS	54
F-11812-SS	50	F-31810-SS	51	K-05812-SS	54	K-27834	53
F-11834-HS	51	F-31812-HS	50	K-05834	53	K-27834-SS	55
F-11834-SS	51	F-31812-SS	50	K-05834-SS	55	K-31210	53
F-11838-HS	50	F-31834-HS	51	K-05838	52	K-31210-SS	55
F-11838-SS	50	F-31834-SS	51	K-05838-SS	54	K-31212	52
F-13810-HS	51	F-31838-HS	50	K-07810	53	K-31212-SS	54
F-13810-SS	51	F-31838-SS	50	K-07810-SS	55	K-31234-SS	55
F-13812-HS	50	F-35810-HS	51	K-07812	52	K-31810	53
F-13812-SS	50	F-35810-SS	51	K-07812-SS	54	K-31810-SS	55
F-13834-HS	51	F-35812-HS	50	K-07834	53	K-31812	52
F-13834-SS	51	F-35812-SS	50	K-07834-SS	55	K-31812-SS	54
F-13838-HS	50	F-35834-HS	51	K-07838	52	K-31834	53
F-13838-SS	50	F-35834-SS	51	K-07838-SS	54	K-31834-SS	55
F-15810-HS	51	F-35838-HS	50	K-11810	53	K-35810	53
F-15810-SS	51	F-35838-SS	50	K-11810-SS	55	K-35810-SS	55
F-15812-HS	50	F-41210-HS	51	K-11812	52	K-35812	52
F-15812-SS	50	F-41210-SS	51	K-11812-SS	54	K-35812-SS	54
F-15834-HS	51	F-41212-HS	50	K-11834	53	K-35834	53
F-15834-SS	51	F-41212-SS	50	K-11834-SS	55	K-35834-SS	55
F-15838-HS	50	F-41234-SS	51	K-11838	52	K-41210	53
F-15838-SS	50	F-41238-HS	50	K-11838-SS	54	K-41210-SS	55
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KWC-509-PP	65	OB-2160	8	OB-706	12	OBFS-2031	13
KWC-512-PP	65	OB-2161	8	OB-707	12	OBFS-2040	13
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SFT-320-PP	65	T1050-XD	44	VF-148-PP	63	WFC-512-PP	60
SPF-100	46	T1057	45	VF-212-PP	63	WFC-518-PP	60
SWC-109-PP	65	T1065	44	VF-220-PP	63	WFC-524-PP	60
SWC-116-PP	65	T1065-L	44	VF-409-PP	63	WFF-112-PP	60
SWC-212-PP	65	T1065-XD	44	VF-412-PP	63	WFF-115-PP	60
SWC-309-PP	65	T1075	44	VF-416-PP	63	WFF-118-PP	60
SWC-312-PP	65	T1075-DR	45	VF-420-PP	63	WFF-124-PP	60
SWC-316-PP	65	T1075-DRTT	45	VF-424-PP	63	WFJ-2118-PP	60
SWC-320-PP	65	T1075-XD	44	VF-430-PP	63	WFL-2118-PP	60
SWC-409-PP	65	T-2000	84	VF-436-PP	63	WHC-112-PP	60
SWC-412-PP	65	T-6002	82	VF-448-PP	63	WHC-118-PP	60
SWC-416-PP	65	T-6003	82	VF-509-PP	63	WHC-124-PP	60
SWC-420-PP	65	T-6004	82	VF-512-PP	63	WHC-512-PP	60
SWC-512-PP	66	T-6102	82	VF-516-PP	63	WHC-518-PP	60
SWC-516-PP	66	T-6103	82	VF-520-PP	63	WHC-524-PP	60
SWC-520-PP	66	T-6104	82	VF-524-PP	63	WHF-112-PP	60
SWC-809-PP	66	T-7239	83,84	VF-536-PP	63	WHF-115-PP	60
SWC-812-PP	66	T-7241	83	VF-548-PP	63	WHF-118-PP	60
SWC-816-PP	66	TFC-109-PP	62	VT-109-PP	66	WHF-124-PP	60
T-0020	82	TFC-112-PP	62	VT-112-PP	66	WHJ-2118-PP	60
T-0022	82	TFC-116-PP	62	VT-116-PP	66	WHL-2118-PP	60
T-0024	82	TFC-120-PP	62	VT-120-PP	66	WHP19-1D	46
T-0050	82	TP6030-14	47	VT-312-PP	66	WHP19-1U	46
T-0052	82	TP6030-14-B	47	VT-409-PP	66	WHP20-1D	46
T-0054	82	TP6030-14-NF	47	VT-412-PP	66	WHP20-1U	46
T-0073	83	TP6030-14-NF-B	47	VT-416-PP	66	WHP22-1D	46
T-0074	83	TP6030-16	47	WAS-148-PP	67	WHP22-1U	46
T-0200	85	TP6030-16-B	47	WAS-148-RV	67	WHP24-1D	46
T-0202	85	TP6030-16-NF	47	WAS-160-PP	67	WHP24-1U	46
T-0204	85	TP6030-16-NF-B	47	WAS-160-RV	67	WHP26-1D	46
T-0206	85	TP6042-16	47	WAS-172-PP	67	WHP26-1U	46
T-0210	85	TP6042-16-NF	47	WAS-172-RV	67	WHP28-1D	46
T-0211	85	V-001-A	71	WAS-348-PP	67	WHP28-1U	46
T-0220	85	V-001-S	71	WAS-360-PP	67	WHP30-1D	46
T-0221	85	V-100-A	71	WAS-372-PP	67	WHP30-1U	46
T-0250	84	V-100-S	71	WAS-448-PP	67	WMSP-1D	46
T-0251	84	V-102-A	71	WAS-460-PP	67	WMSP-1U	46
		V-102-S	71	WAS-472-PP	67	WSS-112-PP	61
		V-103-A	71	WCC-109-PP	70	WSS-118-PP	61
		V-103-S	71	WCC-112-PP	70	WSS-124-PP	61



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