



December 12, 2012

To Our Valued Customers:

At the close of business **Monday, January 14, 2013** we will implement a group of list price changes.

These changes include increases on product lines placed in the market by some of our key manufacturers.

In addition to these changes will be NEW catalog pages for additional No Lead products. More No Lead products and product groups will be introduced in the weeks and months ahead.

The following page is a tab listing of the product groups that are changing at the close of business **Monday, January 14, 2013**. These new list prices will be available on our website at www.americiangranby.com on or about January 9, 2013 and will be indicated in bold type. Catalog pages with list pricing can be viewed and downloaded for printing to update your AGI catalog. Excel files are also available for download on the site. We will not be mailing a hard-copy price change mailing.

If you do not have access to our website, please contact your sales representative or Customer Service and we will forward you a copy of the Excel spreadsheet or the new catalog pages.

Sincerely,

Gary Palley
V.P. Sales & Marketing

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Liverpool, New York 13090
(315) 451-1100
Fax: (315) 451-6928

www.americiangranby.com

INSTRUCTIONS FOR OBTAINING LIST PRICE CHANGE DATA - JANUARY 15, 2013

To obtain copies of our list price changes go to www.americangranby.com. Click the DOWNLOAD tab.

There are multiple options for you to download.

- For an Excel file of the latest list price changes in alpha numeric order: On the left under PRICE CHANGE UPDATES click on the **Jan 15 13 List Price Change File**. This Excel file can be re-sorted or filtered as you need and includes both old and new list prices plus the % change. This file can be used as a reference or update to your operating system.
- For a .PDF version of only the updated catalog pages: On the left under PRICE CHANGE UPDATES click on the **Jan 15 13 Catalog Page Updates**. Print out only the catalog pages with changes and insert into your current product catalog.
- Click on FULL CATALOG and SECTION DOWNLOADS for .PDF files of the Full Granby Catalog or for specific sections.

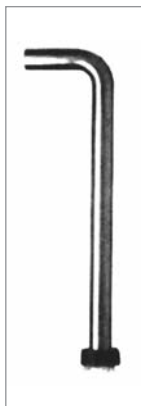
Product	Page Numbers	Product	Page Numbers
Heater Union Nuts	P.05	Economy Filter Systems	4.01 - 4.04
Union Nuts & Fittings	P.07 - P.08	Big Bubba Filter Cartiridges	4.08
Flowmeters	P.12	Economy Drinking Water Systems	4.10
Slice Gate Valves	P.20	Filter Housings	4.11 - 4.12
Check Valves	P.21 - P.22	Filter Cartridges	4.14 - 4.18
Spray Adhesives	P.43	Filter Kits & Accy	4.19
Repair Fittings	P.45 - P.47	UV Systems	4.46
Pool Service Accy	P.49	Pulsafeeder	4.49 - 4.54
Sourceline Tanks	1.01	Sump Check Valves	5.04
Tank Crosses	1.7 - 1.11		
Tank Crosses - NEW	1.12a	Compression Fittings	6.02
Tank Fittings Packages	1.14 - 1.20e	Thermal Expansion Tanks	6.05 - 6.06
Air Releases and Controls	1.28	Trap Wrap	6.21
Installation Accy	1.29	Hangers	6.28
Insert Fittings	1.32a	Hangers	6.37 - 6.38
Liquid Level Controls	1.45		
Pitless Adapters	1.54a	Tapes	7.01, 7.03
Well Caps	1.57	Spray Adhesives	7.06
Well Seals	1.60	Concrete Repair	7.07
Drive Shoes	1.69	PVC Solvent Cements Primers Cleaners	7.17 - 7.26
Pitcher pump parts	1.71		
Cylinders	1.73 - 1.74	Super Lube	8.05 - 8.09
Cup Leathers	1.81 - 1.88		
Check Valves	2.07 - 2.10	Irrigation Installation Accy	10.28, 10.37
Repair kits	2.16	Repair Couplings	10.48
Gas Ball Valves	3.03	Insert Fittings - Nylon	12.01
Swing Check Valves	3.06	Insert Fittings - Steel	12.05 - 12.06
Plumbing Valves	3.07 - 3.08	Insert Fittings - Stainless Steel	12.07
Slice Gate Valves	3.22	Insert Fittings - Red Brass	12.10
		Union Nuts	12.12
		CPVC Fittings	12.13 - 12.14
		Compression Fittings	12.16



Pool Heater Accessories



LR Series



LRUN Series

LR SERIES Features:

- For use with Laars-Raypak pool and spa heaters.
- Available in copper or stainless steel, with plastic quick connect union or bronze male adapter.

Part Number	Size	Ctn Qty	List Price
Copper Tube with 1 Bronze Male Adapter			
LR617	1-1/2" x 6" x 17"	12	\$ 195.16
LR619	1-1/2" x 6" x 19"	12	203.68
LR623	1-1/2" x 6" x 23"	12	221.59
LR626	1-1/2" x 6" x 26"	12	234.45
LR623-2	2" x 6" x 23"	6	300.11
Copper Tube with Plastic Quick Connect Union			
LR617UN	1-1/2" x 6" x 17"	8	149.29
LR623UN	1-1/2" x 6" x 23"	8	174.84
Stainless Steel Tube with Plastic Quick Connect Union			
LR617SSUN	1-1/2" x 6" x 17"	8	168.13
LR619SSUN	1-1/2" x 6" x 19"	8	178.30
LR621SSUN	1-1/2" x 6" x 21"	8	214.12
LR623SSUN	1-1/2" x 6" x 23"	8	230.38
LR626SSUN	1-1/2" x 6" x 26"	8	245.55
LR617-2SSUN	2" X 6" X 17"	6	196.43
LR619-2SSUN	2" X 6" X 19"	6	209.78
LR623-2SSUN	2" X 6" X 23"	6	236.43
Replacement Union Assembly			
PHU150	LR/PL Series-1-1/2"	1	23.41
PHU200	LR/PR Series-2"	1	26.54
Union O-Ring			
PHU150 O-RING	1 1/2" o-ring	1	2.64
PHU200 O-RING	2" o-ring	1	2.64
Heater Union Repair Split Nut			
HSNR150	1 1/2" FBT Heater Split Nut Set w/ screws	125	4.69
HSNR200	2" FBT Heater Split Nut Set w/ screws	100	5.25



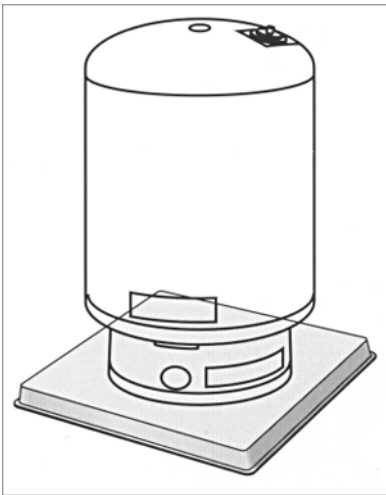
10-417-15

Hot Water Swimming Pool Heater

Safety Relief Valve Features:

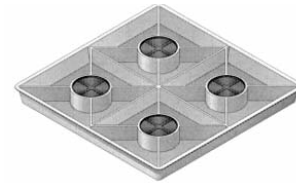
- Bronze safety relief valve protects ASME Section IV hot water heating boilers and hydronic heating systems.
- High capacity design features corrosion resistant construction.
- Ideal for use in swimming pool heater applications, hot water boilers and hydronic heating systems.
- ASME Section IV.
- Set pressure 75 psi. 20-80 psig certified pressure range.
- Maximum temperature service 250°F
- Stainless steel springs.
- Registered in all Canadian provinces and territories, CRN #OG8547.5C
- Made in USA.

Part Number	Description	Height	Ctn Qty	List Price
10-417-15	3/4" M/F Safety relief valve	3"	100	\$ 43.39

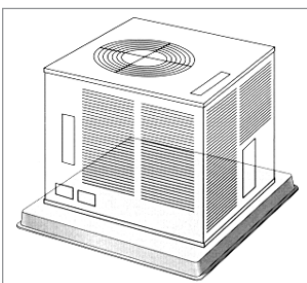
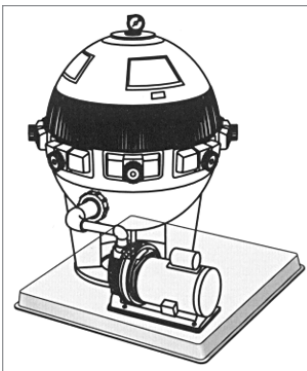


HEF-T-PAD™ Features:

- Injection molded from high impact polyolefin for strength and durability.
- Resistant to impact, UV degradation and weathering.
- Will not crack, flake or warp.
- Virtually impervious to climate changes.
- Drillable, permits installation of refrigerant and electrical lines under and through pad. Also permits equipment to be easily secured to pad.
- Unique, non-creep surface absorbs vibration and noise and keeps equipment in it's original position.
- Gray



Underside of Hef-T-Pad showing support ribs, stabilization pads and stabilization flange.



Part Number	Size	Pallet Qty	List Price
2" HEF-T-PADS			
X2424211	24" x 24" x 2" one piece	24	\$ 54.27
X2430211	24" x 30" x 2" one piece	24	69.07
X2436211	24" x 36" x 2" one piece	24	83.45
X3232211	32" x 32" x 2" one piece	24	88.74
X3244211	32" x 44" x 2" one piece	24	111.81
X3636211	36" x 36" x 2" one piece	24	110.94
X3830211	38" x 30" x 2" one piece	24	89.53
X3836211	38" x 36" x 2" one piece	24	115.12
X3842211	38" x 42" x 2" one piece	24	143.96
3" HEF-T-PADS			
X2424311	24" x 24" x 3" one piece	16	66.55
X2436311	24" x 36" x 3" one piece	16	101.58
X3030311	30" x 30" x 3" one piece	16	85.02
X3232311	32" x 32" x 3" one piece	16	100.82
X3244311	32" x 44" x 3" one piece	16	135.34
X3636311	36" x 36" x 3" one piece	16	139.26
X3848311	38" x 48" x 3" one piece	16	177.74
X5055301	50" x 55" x 3" modular	16	321.06
X2600311	26" diameter round x 3" one piece	16	62.86



Unions - PVC Sch 80



PV79, PV69 Series

ISO 9002



PVC Sch 80 Union Features:

- Ideal for swimming pool, spa and plumbing installations.
- EPDM O-Ring seal.
- Working pressure: 150 PSI at 72°F, 100 PSI at 120°F.
- Meets ASTM standards for Schedule 80 construction.
- Manufactured for AGI in an ISO 9002 facility.
- NSF listed.
- Available white or gray.
- Imported.

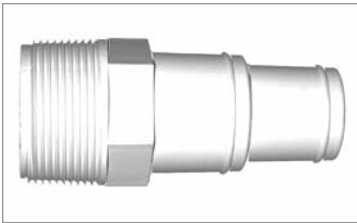
MATERIAL SPECIFICATIONS	
Body	PVC
End Connector	PVC
Union Nut	PVC
O-Ring	EPDM

DIMENSIONS (IN.)	SIZE	d3	D1	D2	L
	1/2"	.51	1.21	1.80	2.11
	3/4"	.71	1.45	2.15	2.42
	1"	.92	1.76	2.58	2.69
	1 1/4"	1.17	2.11	3.20	3.32
	1 1/2"	1.52	2.54	3.83	3.40
	2"	1.92	3.05	4.68	3.71
	3"	2.84	3.52	6.10	4.96
	4"	3.94	4.52	8.86	6.30

Part Number	IPS Size	Ctn Qty	List Price		
SCHEDULE 80 - WHITE			PV797	PV798	PV799
SLIP X SLIP	FIPT X FIPT	SLIP X FIPT	SXS	TXT	SXT
PV797-1/2	PV798-1/2	1/2"	36	\$ 2.93	\$ 3.06
PV797-3/4	PV798-3/4	3/4"	24/144	3.85	4.00
PV797-1	PV798-1	1"	12/96	4.95	5.30
PV797-1 1/4	PV798-1 1/4	1 1/4"	12/96	8.82	9.28
PV797-1 1/2	PV798-1 1/2	PV799-1 1/2	8/64	11.14	11.59
PV797-2	PV798-2	PV799-2	2"	4/48	15.50
SCHEDULE 80 - GRAY			PV697	PV698	
slip x slip	FIPT x FIPT		SxS	TXT	
PV697-1/2	PV698-1/2	1/2"	36/288	\$ 2.93	\$ 3.09
PV697-3/4	PV698-3/4	3/4"	24/144	3.86	4.08
PV697-1	PV698-1	1"	12/96	4.95	5.40
PV697-1 1/4	PV698-1 1/4	1 1/4"	12/96	8.82	9.16
PV697-1 1/2	PV698-1 1/2	1 1/2"	8/64	11.14	11.81
PV697-2	PV698-2	2"	4/48	15.80	16.61
PV697-3	PV698-3	3"	2/12	39.95	41.31
PV697-4		4"	1/4	88.67	
Replacement O-Ring for PV797, PV798, PV799, PV697, PV698					
PV796-1/2	1/2"	1		\$ 0.35	
PV796-3/4	3/4"	1		0.35	
PV796-1	1"	1		0.42	
PV796-1 1/4	1 1/4"	1		0.42	
PV796-1 1/2	1 1/2"	1		0.70	
PV796-2	2"	1		0.70	
Union Repair Split Nut					
SNR150	1 1/2" FBT Repair Split Nut w/ Screw	125		4.73	
SNR200	2" FBT Repair Split Nut w/ Screw	100		5.25	



Specialty Pool & Spa Fittings

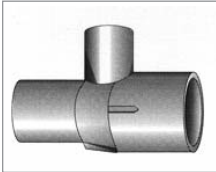


SPA1512

Pool/Spa Hose Adapter Features:

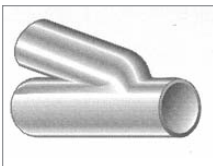
- Larger hex nut than most other styles
- Ribbed insert end to promote a tight seal and tapered thread to prevent "bottoming out" during installation
- White ABS plastic

Part Number	Description	Ctn Qty	List Price
SPA1512	1 1/2" mip x 1 1/2", 1 1/4" combo hose adapter	100	\$ 1.58



473-210

Part Number	Description	Ctn Qty	List Price
Venturi Tee			
473-825	3/4" x 1" x 3/4" Venturi Tee	50	\$ 11.19
473-210	1 1/2" x 1 1/2" x 3/4" Venturi Tee	25	13.62



B1640-00

Wye			
B1640-00	1" Wye, Slip	50	10.71



B1221/ B1231

Fittings			
B1221-00	1/2" plug, inverted, spigot	50	2.38
B1231-00	1" Plug, Inverted, spigot	50	2.84
B1241-00	1 1/2" 90 elbow, spigot x spigot	25	9.45
B1251-00	2 x 1 1/2" Male adapter, MIPT x Red Slip	25	8.37
B1171-00	1" x 1 x 1 1/2" Bullhead Tee, S x S x Spigot	25	9.42
0660-20	2" PVC 90 elbow, s x s	65	7.79
0661-20	2" PVC 90 elbow, s x spigot	65	7.79



B1241

B1251

Schedule 80 CPVC Nipple Features:

- Sturdy.
- Lightweight.
- Chemical Resistant.
- Gray.
- Threaded on both ends.



B1171



Part Number	Description	Ctn Qty	List Price
CPVC1XCLOSE	1 X CLOSE	25	\$ 2.40
CPVC11/2xCLOSE	1 1/2 x CLOSE	25	3.48
CPVC11/2X6	1 1/2X 6	25	10.03
CPVC11/2x8	1 1/2 x 8	25	12.19
CPVC11/2X12	1 1/2 X 12	25	18.98
CPVC2XCLOSE	2 X CLOSE	25	5.80
CPVC2X6	2 X 6	25	14.30
CPVC2x8	2 x 8	25	16.93
CPVC2X12	2 X 12	25	26.09
CPVC2x24	2 x 24	BULK	43.74



Pressure Gauges - Liquid Filled



EILPG Series



ILPG Series

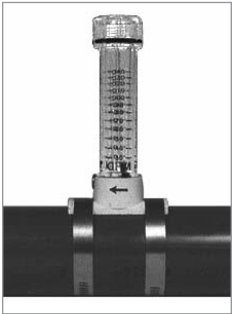
Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case
- Glycerine Filled, Phosphor bronze bourdon tube
- Accuracy +/- 3-2-3%
- 2" or 2 1/2" Dial face with clear acrylic lens
- Crimped stainless steel ring
- For use in high vibration, corrosion situations
- **TO BE USED WITH AIR OR WATER ONLY.**

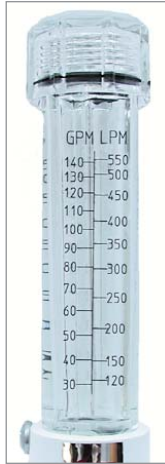


Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty	List Price
2" DIAL SIZE, LIQUID FILLED							
EILPG302-4L	Steel	0-30#	Pressure	2"	1/4" Lower	100	\$ 8.62
EILPG602-4L	Steel	0-60#	Pressure	2"	1/4" Lower	100	8.62
EILPG602-4B	Steel	0-60#	Pressure	2"	1/4" Back	100	9.45
EILPG1002-4L	Steel	0-100#	Pressure	2"	1/4" Lower	100	8.62
EILPG1002-4B	Steel	0-100#	Pressure	2"	1/4" Back	100	9.45
EILPG1002-8L	Steel	0-100#	Pressure	2"	1/8" Lower	100	8.62
EILPG1002-8B	Steel	0-100#	Pressure	2"	1/8" Back	100	9.19
EILPG1602-4L	Steel	0-160#	Pressure	2"	1/4" Lower	100	8.62
EILPG2002-4L	Steel	0-200#	Pressure	2"	1/4" Lower	100	8.62
EILVG302-4L	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100	10.36
2 1/2" DIAL SIZE, LIQUID FILLED							
EILPG3025-4L	Stainless Steel	0-30#	Pressure	2 1/2"	1/4" Lower	50	14.63
EILPG6025-4L	Stainless Steel	0-60#	Pressure	2 1/2"	1/4" Lower	50	14.63
ILPG10025-4L	Stainless Steel	0-100#	Pressure	2 1/2"	1/4" Lower	50	14.63
ILPG16025-4L	Stainless Steel	0-160#	Pressure	2 1/2"	1/4" Lower	50	14.63
ILPG20025-4L	Stainless Steel	0-200#	Pressure	2 1/2"	1/4" Lower	50	14.63
ILPG30025-4L	Stainless Steel	0-300#	Pressure	2 1/2"	1/4" Lower	50	14.63
ILPG40025-4L	Stainless Steel	0-400#	Pressure	2 1/2"	1/4" Lower	50	14.63
ILVG3025-4L	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4" Lower	50	16.68
ILCG36025-4L	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4" Lower	50	17.29





U88 Series



Flow Meter Features:

- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1" - 4" pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.
- Maximum temperature limit = 120 °F, Maximum pressure limit = 120 psi.

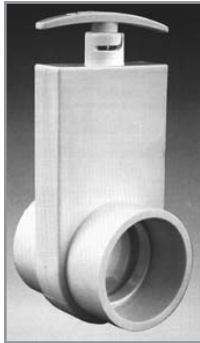


ISO 9002

Part Number	Nominal Pipe Size	Range GPM/LPM	List Price
U8800424	1"	5-35 / 20-130	\$ 141.18
U8800438	1 1/4"	10-60 / 40-220	141.18
U8800439	1 1/2"	20-80 / 80-300	141.18
U8800440	2"	30-140 / 120-550	141.18
U8800441	2 1/2"	40-200 / 160-750	141.18
U8800442	3"	80-350 / 300-1300	141.18
U8800443	4"	150-600 / 600-2200	141.18



Slice Gate Valves - PVC



VSGV Uni-Body



VSGV 3 piece body



VSGV 3 piece body with union



PVC Slice Gate Valve Features:

- Designed for pool & spa, irrigation, plumbing, waste water and agricultural applications.
- Stainless steel shaft prevent rust and corrosion.
- Ozone & chemical resistant Santoprene™ materials.
- Santoprene™ seals are integrated to the paddle to eliminate any chance of torn or punctured gaskets.
- Maximum working pressure 50 psi (through 2”).
- Solvent cement traps to catch excess glue.
- Every valve tested at double recommended working pressure.
- Valterra's patent pending triple o-ring neck seal to ensure against any chance of shaft leakage.

Unibody Design

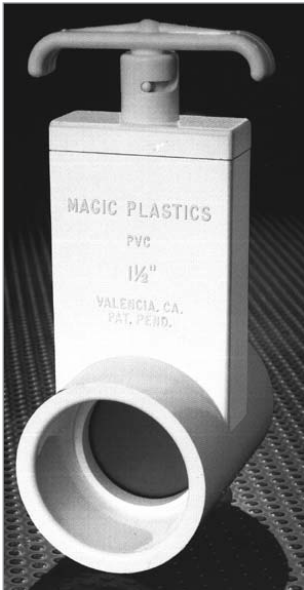
- One piece uni-body design.
- Combination socket ID x spigot OD for installation flexibility.
- Locking handle provides positive shutt-off and easy gate opening.

3 Piece body

- Three piece configuration allows for repair or can be used as a union.
- Three piece configuration easily disassembles for inline service.

Part Number	Description	Max PSI	Ctn Qty	List Price
Uni-Body				
VSGV2101	1 1/2" slip x slip	50	30	\$ 16.95
VSGV2201	2" slip x slip	50	20	23.91
* Unibody 2" slip hubs are 2" slip or 2 1/2" spig				
Three Piece Body				
VSGV150SL	1 1/2" slip x slip	50	30	19.57
VSGV150FIPTXMIPT	1 1/2" fipt x mipt	50	40	23.41
VSGV150FIPTxMIPTABS	1 1/2" fipt x mipt ABS	50	26	23.41
VSGV150SLU	1 1/2" slip x union slip	50	38	31.00
VSGV150MTU	1 1/2" mipt x union slip	50	38	29.48
VSGV150SP	1 1/2" slip x spigot	50	30	18.62
VSGV150SD	1 1/2" step down pool hose x mipt ABS		40	22.25
VSGV200SL	2" slip x slip	50	20	24.89
VSGV200SP	2" slip x spigot	50	34	23.69
VSGV300SL	3" slip x slip	20	15	39.32
VSGV400SL	4" slip x slip w/ metal handle	15	6	167.22
VSGV600SL	6" slip x slip w/ stainless handle	10	1	696.67
VSGV800SL	8" slip x slip w/ stainless handle	10	1	975.45
VSGV1000SL	10" slip x slip w/ stainless handle	10	1	1778.33
VSGV1200SL	12" slip x slip w/ stainless handle	10	1	1868.19

Slice Gate Valves - PVC



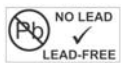
SGV - SL Series

PVC Slice Gate Valve

- One piece "Uni-Body" PVC Construction. Guaranteed NO HUB LEAKS or loose bolts.
- 1/4 turn "Cam-Lock" for 100% shut-off..
- Internal "snap-lock" feature ensures valve will remain totally open, providing 100% flow with no restriction.
- Stainless steel shaft prevents rust and corrosion.
- Glass filled poly-pro tapered gate design for 100% sealing.
- Integrally molded seal on gate. - No pinched or torn gaskets.
- Seals are "Santoprene" that have been impregnated with a permanent lubricant. Never needs lube yet will provide continuous smooth operation. Ozone and chemical resistant for much longer life.
- Santoprene buttons on gate provides smooth operation without sticking.
- Every valve water tested at 100PSI and random quick burst tested at 400 PSI. Virtually no chance of leaky valves in the field at standard operating pressures.
- Maximum recommended operating pressure is 50 PSI.
- Glue wells on all slip-socket configuration catches excess glue during plumbing.
- Constructed and tested for use in pool & spa applications.
- Made in USA



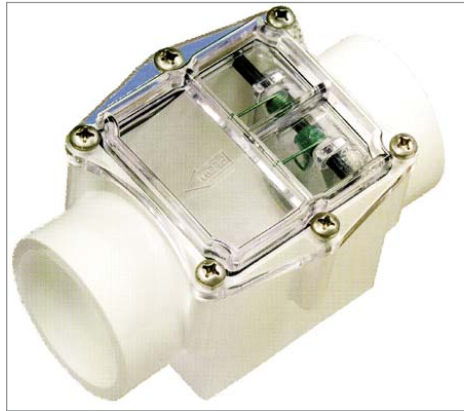
SGV-Sp and SGV-SLU Series



Part Number	Size	Description	Ctn/Case Qty	List Price
SGV150SL	1 1/2"	Slip x Slip	14/56	\$ 19.75
SGV200SL	2"	Slip x Slip	12/48	20.89
SGV250SL	2 1/2"	Slip x Slip	5/20	44.30
SGV150SP	1 1/2"	Slip x Spigot	14/56	19.75
SGV200SP	2"	Slip x Spigot	12/48	20.89
SGV150SLU	1 1/2"	Slip x Slip with Union	10/40	31.97
SGV200SLU	2"	Slip x Slip with Union	10/40	38.60



Check Valves - PVC Swing



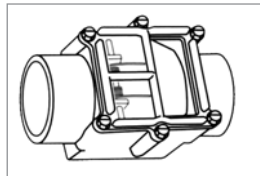
MCRV Series



“CR” Full Flow Corrosion Resistant Check Valve

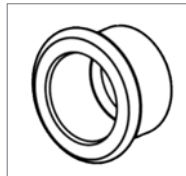
Features:

- Protects heat exchangers from potential damage by inline chlorinators.
- Maintains full flow circulation system.
- Proprietary designed Hastelloy spring.
- Glass filled Noryl injection molded shaft.
- 100% silicone gasket never requires lubrication.
- Clear sight glass. Removable, servicable.
- 3 IPS sizes in one valve. 1 1/2” slip with bushing, 2” slip and 2 1/2” spigot. (1 1/2” bushing sold separately.)
- Spring loaded flapper/gate mechanism assures full flow and minimum cavitation.
- Positive water seal when in the closed position.
- “CR” valve can be installed in virtually any position.
- Use in highly corrosive conditions and conditions needing backflow prevention.

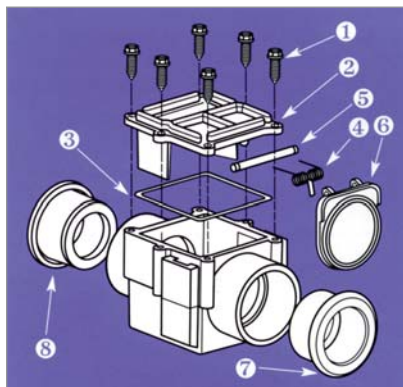


MCRV Series

Part Number	Description	Size	Ctn Qty	List Price
MCRV801-20H	PVC CR Swing Check Valve	2” Slip x Slip	12	\$ 80.81
60104028	CR Swing Check Bushing	2” Sp x 1 1/2” Slip	1	3.61



Bushing



CR VALVE REPLACEMENT PARTS

ID	Part Number	Description	Ctn Qty	List Price
1	M04030066	#14 x 1” Phillips Pan Head SS Screw	6	\$ 13.59
2	M0191401020	Lid	1	16.63
3	0301-154	O-Ring	1	5.50
4	M0405001	Spring	1	6.43
4	0405-001-H	Hastelloy Spring	1	26.83
5	M0401005P	Shaft	1	7.09
6	M0081201020	Gate Assembly	1	25.33
7	M0060504028	Adapter 2” sp x 1 1/2” Slip, Black	1	4.12
8	M0060104028	Adapter, 2” sp x 1 1/2” Slip, White	1	4.00

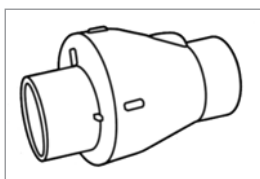
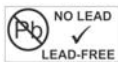
Check Valves - PVC Swing



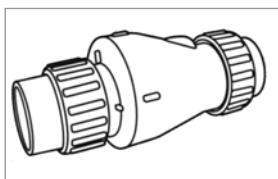
MCV Series

“Smart” Swing Check Valve Features:

- Patented innovation in swing check valve technology eliminates in-line flow restriction of conventional check valves.
- Spring loaded swing check flapper/gate allows full flow and reliable back flow prevention.
- Standard “smart” check valve remains closed to 1/2 psi, then open for full flow.
- Magnetic “smart” check valves remain closed to 2 psi, then open for full flow.



MCV821 Series



MCV823 Series



MCV850 Series

Part Number	Size	Description	Spring Tension	Ctn Qty	List Price
MCV821-10	1"	Slip x Slip	1/2 lb.	12	\$ 21.20
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12	24.16
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12	31.96
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12	35.24
MCV821-20	2"	Slip x Slip	1/2 lb.	12	37.58
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12	40.52
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12	41.03
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12	43.77
MCV823-10	1"	Union x Union	1/2 lb.	12	31.96
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12	35.24
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12	50.03
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12	53.87
MCV823-20	2"	Union x Union	1/2 lb.	12	54.40
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12	57.38
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12	57.38
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12	60.92
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12	55.70
MCV850-20	2"	Check/Slice Combo Union x Slip		12	80.88



PERMAPOXY Underwater Repair Epoxy

- Ideal for pool & spa repairs.
- Resin and hardener in same stick
- Hand kneadable.
- Unaffected by chlorinated or salt water.
- Sets in 5 minutes, cures in 1 hour.
- Dries White.
- Can be sanded and drilled.

ISO 9001

Part Number	Size	Ctn Qty	List Price
82093	7" stick	12	\$ 21.22



3M Spray Adhesives

BLUE 72

- Repositionable BLUE pressure sensitive spray adhesive.
- One side bonds in 8 hours, aggressive tack, low soak in.
- Covers 100 sq ft.
- Ideal for pool liner installation.

ORANGE FOAM FAST 74

- Permanent, light orange, fast tack.
- Two sides bond in 15 minutes.
- Covers 260 sq. ft.

Both manufactured for AGI in an ISO 900 facility.

Pallet pricing available. Call your sales rep.

ISO 9001

Part Number	Size	Ctn/Pallet Qty	List Price
BLUE 72	Blue Spray Adhesive 24 fl oz can, 17.3 oz net wt.	12/768	\$ 40.55
ORANGE 74	Orange spray adhesive 24 fl oz can, 17.3 oz net wt	12/768	49.20



HDT Series

POLYKEN

Contractor/Industrial Grade Cloth Reinforced Duct Tape

- Multi-purpose duct tape.
- Polyethylene coated cloth backing.
- Natural rubber based adhesive.
- Temperature range: 40°F to 200 °F.
- Superior tensile strength, adhesion & tack.
- Recommended for pool liner installations.
- Conformable and will not curl or twist during application.
- 10 mil thickness
- Silver
- Manufactured for AGI in an ISO 9002 facility.

ISO 9002

Part Number	Width x Length	Ctn Qty	List Price
HDT260	2" x 60 yards	24	\$ 23.04



Fix A Leak Features:

Fix A Leak is a blended material, designed to seal leaks in just about anything. It works in any kind of pool, spa or hot tub, regardless of constructed material, concrete, fiberglass, acrylic, wood, etc. It works equally well in all plumbing materials including PVC, ABS, poly plastics, vulcathen, copper, steel, etc.

- Seals leaks up to 1/8" in diameter.
- Forms a permanent seal.
- One quart is designed to seal leaks in up to 20,000 gallons. Do not use in excess of 1 quart per 5,000 gallons of water.
- Cures in 24-48 hours.
- Patented by Marlig Industries, Inc.

FAL32

Part Number	Description	Ctn Qty	List Price
FAL32	Fix A Leak Sealant, 32 oz.	12	\$ 50.14
FAL8	Fix A Leak Sealant, 8 oz.	20	20.98

See the "Tapes, Sealants, Cements" and "Permatex Industrial" tabs for more installation & repair materials.



TM

In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (866) 503-5523 Fax (888) 562-2095

www.americangranby.com

2/2/13



PTC163-6ST



PTC163-6RA

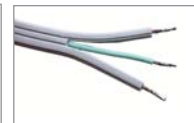
HARVARD CONTRACTOR'S

Power Cord Features:

- Three prong straight (115V) or right angle (115V, 220V) molded plugs.
- 16 gauge, 3 conductor, 13 amp, 125 Volt rating.
- 14 gauge, 3 conductor, 15 amp, 250 Volt rating.
- Six foot cord length.
- Free end is split, stripped 3/8".
- UL and CSA listed in US and Canada.



PTC143-6RA220



Part Number	Description	Wire Gauge	Volt Rating	Ctn Qty	List Price
PTC163-6ST	Straight plug cord	16	125 V	50	\$ 6.61
PTC163-6RA	Right angle plug cord	16	125 V	50	12.07
PTC143-6RA220	Right angle plug cord	14	250 V	50	14.11



HARVARD CONTRACTOR'S

Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.



Combo Head

Tri Combo Head



Part Number	Description	Ctn Qty	List Price
AK10CSPR	Ribbed Combo Head	36	\$14.11
AK10TCR	Ribbed Tri Combo Head	36	15.00



2135

Scotchcast™ 2135 Wet-Niche Potting Features:

- Product meets NEC requirements to allow the use of rigid nonmetallic conduit in the installation of wet-niche underwater lighting fixtures.
- Provides protection against corrosion and deteriorating effects of pool water by encapsulating the 8 AWG ground connection in a wet niche shell.
- The wet-niche shell is a corrosion-resistant metal housing for underwater fixtures in permanently installed pools.
- Packaged in easy-mix, single use, 1.8 oz. container.
- Will not sag or drip. Gels in minutes and can be submerged within 4 hrs.

Part Number	Description	Ctn Qty	List Price
2135	Wet-Niche Potting 1.8 oz.	10	\$ 93.94



ET1983

ET1983 Electrical Tester Features:

- Checks 120, 240, 440VAC and 150, 300, 500VDC
- Handy, economical, durable.
- Ideal for any electrical installation or repair.
- Extra long insulated lead with test probe for added convenience.
- Easy to read, bright indicator light.
- Requires no batteries.
- Packaged in slide blister card.
- Meets CE requirements.
- UL listed.



Part Number	Description	Ctn/Case Qty	List Price
ET1983	120, 240, 440V tester	10/120	\$ 10.18

Repair Fittings for Sch 40 Pipe



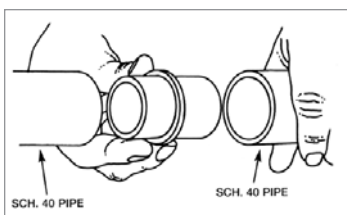
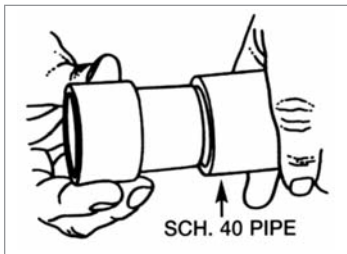
PEX Series



PIC Series

Pipe Extender and Inside Connector Repair Fitting Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.



Part Number	Description	IPS Size	Ctn Qty	List Price
Pipe Extender Repair Fitting				
PEX50	Pipe Extender	1/2"	48	\$ 2.10
PEX75	Pipe Extender	3/4"	48	2.66
PEX100	Pipe Extender	1"	48	3.41
PEX125	Pipe Extender	1 1/4"	48	4.00
PEX150	Pipe Extender	1 1/2"	48	4.73
PEX200	Pipe Extender	2"	48	5.32
PEX250	Pipe Extender	2 1/2"	96	7.23
PEX300	Pipe Extender	3"	96	10.45
PEX400	Pipe Extender	4"	48	12.32
Inside Connector Repair Fitting				
PIC100	Inside Connector	1"	48	3.41
PIC150	Inside Connector	1 1/2"	48	4.73
PIC200	Inside Connector	2"	48	5.32



A simple squeeze to repair horizontal cracks and spalls, and to set anchors

DP600

Horizontal Concrete Repair Features:

Hardens in as little as 5 minutes,

Cracks and spalls in concrete floors are an eyesore as well as a potential safety risk. Fixing them has meant either hiring and waiting for an outside contractor or doing it yourself with a repair method that takes the floor out of service for up to 24 hours. Now with 3M Concrete Repair, you save money and time.

- Self-leveling urethane flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes. A fork lift can pass over a repair in as few as 15 minutes.
- Hardens to any depth without cracking or shrinking.
- Flexible urethane expands and contracts for durability that outlasts repairs made with concrete.
- Do it yourself with a common caulking gun and eliminate the cost and wait for an outside contractor.
- *Easy to use - Just clean damaged area and fill. With every squeeze of the caulking gun trigger, cartridge nozzle meters and mixes precise proportions for optimum performance.*



Fill spalls



Custom threading and anchoring

Part Number	Description	Ctn Qty	List Price
DP600	Concrete Repair, 8.4 fl oz cartridge supplied with 2 nozzles	6	\$ 136.72



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
CG9	9" Ratchet	Blue	20	6.36



Horizontal Concrete Repair Specifications:

- Gray, self-leveling urethane concrete repair.
- 8.4 fl oz. cartridge of concrete repair and 2 nozzles.
- Work life of 70 sec.
- Handling time of 5 minutes
- Cure time of 60 minutes

Applications:

- Repairing cracks and spalls on concrete floors or horizontal surfaces.
- Setting anchors in concrete floors or horizontal surfaces.
- Light-duty custom threading and anchoring.
- Use outdoors or in highly ventilated area.

Approximate coverage:		
Crack Width	Crack Depth	Linear Feet per 8.4 fl. oz.
1/4"	1/4"	19.3
1/2"	1/4"	9.9
3/4"	1/4"	6.4
1"	1/4"	4.9
1/4"	1/2"	9.9
1/2"	1/2"	4.9
3/4"	1/2"	3.0
1"	1/2"	2.0

Bead Size dimension	Linear Feet per 8.4 fl oz.
1/16"	815.0
1/8"	205.0
1/4"	51.9
3/8"	22.2
1/2"	12.4

Quick and Easy Spall Repair



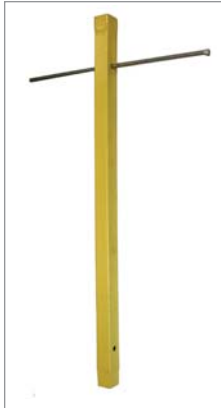
Clean
Remove all loose material from area to be filled. Concrete should be dry and grease-free.



Fill
Dispense product into deepest part of repair areas, slightly overfilling. Product self-levels and is tack-free in as little as one minute.



Finish
In as little as 15 minutes, product can be sanded to remove rough edges. It can be painted within one hour.

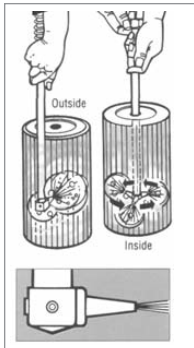


SPPW405

2 in 1 Swimming Pool Plug Wrench Features:

- Fits 1 1/2" or 2" cleanout plugs.
- 31" long.
- Removable 18" plated steel handle.
- Heavy duty, powder coated steel to resist rust and corrosion.
- No welds to corrode.

Part Number	Description	Ctn Qty	List Price
SPPW405	1 1/2" / 2" pool plug wrench with handle	24	\$ 46.25
SPPW405H	Replacement handle only for SPPW405	250	6.97



MBC75

Master Blaster Cleaner Features:

- 3/4" FGHT connection.
- Handy on/off lever.
- For general pool/spa cleanup of filters, under copings.

Part Number	Description	Size	Ctn Qty	List Price
MBC75	Master Blaster Cleaner	3/4"	12	\$ 20.81

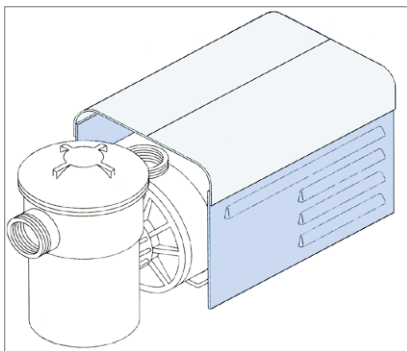


AGLFB19

Ladder Bumper Features:

- White, molded EPDM.

Part Number	Description	Fits Tubes	Ctn Qty	List Price
AGLFB19	Male Ladder bumper	1.9" OD	200	\$ 4.09



B8200C

Universal Motor Cover Features:

- Fits all motors from 1/3 hp to 2 hp.
- Shields and protects outdoor motors from sun, rain and dust.
- Made of heavy duty plastic for long life and durability.
- Heat resistant white top and attractive blue sides.
- Sturdy, will not fade from sun or ultraviolet rays.
- Assembles in minutes. No tools needed.

Part Number	Description	Ctn Qty	List Price
B8200C	Universal Motor Cover	12	\$ 39.52



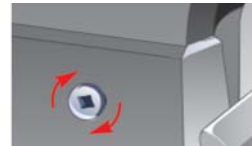
Brusher

Brusher Features:

- Brusher attaches to back of existing pool cleaner.
- Brushes and scrubs the floor and walls of your pool as your pool cleaner does its job.
- Dislodges dirt, algae and bacteria spores while reducing calcium and scale build-up.
- Ideal for use in all pools including plaster, aggregate, painted and vinyl.
- Eliminates manual pool brushing.
- Made of ABS plastic with nylon bristles.
- Installs in minutes with stainless steel mounting screws included.
- Sizes to fit Legend and Polaris brand pool cleaners.
- Patent Pending.



Align top of brusher to frame seam while centering rear thruster jet.

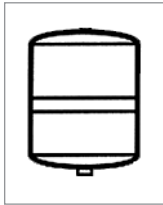


Thread in self tapping screws to secure.

Part Number	Description	Ctn Qty	List Price
25550	Brusher for Legend Models	12	\$ 32.07
25560	Brusher for Polaris 180/280 Models	12	32.07
25570	Brusher for Polaris 360/380 Models	12	32.07



Pump Tanks - Sourceline™



INLINE MODELS

- Appliance Gray finish
- Maximum working temperature: 200 °F.
- Maximum working pressure: 100 PSIG

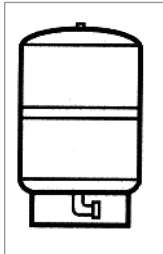


ANSI/NSF 61



Part Number	Dimensions (ins)		Total Volume (gal)	Max Accept Factor	Drawdown (gal)			Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTM	Precharge Pressure (psig)	List Price
	Dia	Height			20/40	30/50	40/60					
SL2I	8	12 5/8	2.0	0.45	0.8	0.7	0.6	5 (0.6)	75	3/4"	18	\$ 91.98
SL4I	11	15	4.4	0.55	1.8	1.5	1.3	9 (1.2)	48	3/4"	18	126.00
SL8I	11	22 1/4	7.4	0.43	3.1	2.6	2.2	15 (2.0)	32	3/4"	28	203.70
SL10I	15 3/8	17 3/4	10.3	1.00	4.1	3.5	3.0	20 (3.0)	18	1"*	38	227.85
SL14I	15 3/8	22	14.0	0.81	5.6	4.8	4.1	22 (4.1)	18	1"*	38	242.55

* NPTF connection.



VERTICAL STAND MODELS

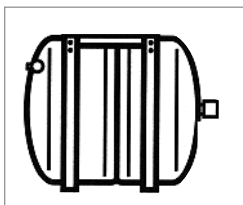
- Appliance Gray finish
- Malleable elbow system connection.
- Maximum working temperature: 200 °F.
- Maximum working pressure: 100 psig



ANSI/NSF 61



Part Number	Dimensions (ins)		Total Volume (gal)	Max Accept Factor	Drawdown (gal)			Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTF	Precharge Pressure (PSIG)	List Price
	Dia	Height			20/40	30/50	40/60					
SL14V	15 3/8	25 1/8	14.0	0.81	5.6	4.8	4.1	25 (3.8)	18	1"	38	\$ 295.05
SL20V	15 3/8	32 1/8	20.0	0.57	8.0	6.8	5.9	33 (4.9)	18	1"	38	347.55
SL32V	15 3/8	46 1/2	32.0	0.35	-	10.9	9.4	43 (7.0)	9	1"	38	593.25
SL34V	22	29 5/8	34.0	1.00	13.7	11.6	10.0	61 (9.5)	4	1 1/4"	38	651.00
SL44V	22	36	44.0	0.77	17.7	15.0	12.9	69 (11.0)	4	1 1/4"	38	751.80
SL62V	22	46 3/4	62.0	0.55	24.9	21.1	18.2	92 (13.9)	4	1 1/4"	38	887.25
SL86VT	22	62 1/4	86.0	0.39	-	29.2	25.3	114 (18.1)	4	1 1/4"	38	1080.45
SL86VS	26	47 1/4	86.0	0.54	34.6	29.2	25.3	123 (18.9)	4	1 1/4"	38	1054.20
SL119V	26	61 7/8	119.0	0.39	-	40.5	35.0	166 (24.5)	4	1 1/4"	38	1502.55



HORIZONTAL PUMP STAND MODELS

- Appliance Gray finish
- Maximum working temperature: 200 °F.
- Maximum working pressure: 100 PSIG



ANSI/NSF 61



Part Number	Dimensions (ins)			Total Volume (gal)	Max Accept Factor	Drawdown (gal)			Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTM	Precharge Pressure (psig)	List Price
	H	W	L			20/40	30/50	40/60					
SL5H	11	10 9/16	18 1/4	5.3	0.80	2.1	1.8	1.6	13 (1.5)	72	3/4"	20	\$ 248.85
SL14H	16	15 3/8	20 7/8	14.0	0.81	5.6	4.8	4.1	29 (4.0)	18	1"	38	434.70

™

Pump Tanks - Sourceline™



SOURCELINE™ Characteristics

- Projection welded airtight valve
- Durable steel tank with appliance-like finish
- Pre-pressurized, sealed-in air chamber
- Butyl/EPDM diaphragm isolates water from air
- Separate polypropylene liner
- 100% non-metallic reservoir
- Water-tight, welded system connection
- 100 PSIG maximum working pressure
- NSF Standard 61 listed

SOURCELINE™ Facts

- Seamless liner
- Diaphragm never creases like bladder tank designs
- No bubbles or corners to trap sediment
- Does not promote bacteria growth
- 5 year limited warranty

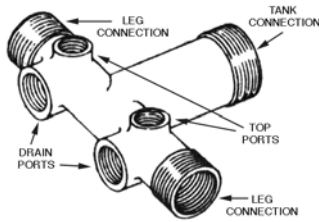
Pre-Pressurized Water System Tanks Cross Reference

() represents total volume (gals.)

AGI Sourcline	Flexcon Challenger	Flexcon Well-Rite	AO Smith Goulds	Sta-Rite Pro-Source	State PermaAir	Elbi Top Pro	Wessels	Str. Fibers Well Mate	Amtrol Well-X-Trol	Amtrol Well-Flo	Amtrol Champion	Amtrol ProLine
SL2I(2)	JR6(2.1)	JR6(2.1)	V6P(2)		PIL-2(2)	D-8(2.1)	FX8(2.1)		WX101(2)			
SL4I(4.4)	JR15(4.5)	JR15(4.5)	V15P(4.5)		PIL-5(4.6)	D-18(5)	FX19(5)	WM-2(3.6)	WX102(4.4)			
SL5H(5.3)	JR44HS(5.2)	JR44HS(5.2)		PS15H-S05(6)			FX20H(5.3)		WX105PS(5.3)			
	JR20(6.0)	JR20(6.0)		PS15-S02(6)		D-25(6.5)						
SL8I(7.4)	JR25(8.5)	JR25(8.5)	V25P(8.2)		PIL-7(7.3)				WX103(7.4)			
SL10I(10.3)						D-35(9)			WX104(10.3)			
SL14I(14)					PIL-14(14)				WX200(14)			
SL14V(14)	PC44(14)	WR45(14)	V45P(13.9)	PS30-T01(14)	PAD-14(14)	DV-50(13.5)	FX60V(16)	WM-4(14.5)	WX201(14)			
SL20V(20)	PC66(20)	WR60(20)	V60(19.9)	PS42T-T02(19)	PAD-20(20)	DV-80(21)	FX80V(21)	WM-6(19.8)	WX202(20)	WF60(20)	CH4202(20)	CA4202(20)
	PC88(26)	WR80(26)				DV-100(27)	FX100V(26)					
SL32V(32)	PC111(32)	WR100(32)	V100(31.8)	PS75T-T03(32)				WM-9(29.5)	WX203(32)	WF100(32)	CH8003(32)	CA8003(32)
SL34V(34)	PC122(33.4)	WR120(33.4)		PS82T-T05(35)	PAD-36S(36)				WX205(34)	WF110(34)	CH8205(34)	CA8205(34)
SL44V(44)	PC144(44)	WR140(44)	V140(45.2)			DV-150(40)		WM-12(40.3)	WX250(44)	WF140(44)	CH10050(44)	CA10050(44)
				PS120-T50(50)	PAD-52(52)		FX200V(52)					
SL62V(62)	PC211(62)	WR200(62)	V200(65.1)	PS200-T51(62)		DV-200(53)		WM-20WB(60)	WX251(62)	WF200(62)	CH12051(62)	CA12051(62)
SL86VT(86)	PC244(81)	WR240(81)	V260(84.9)		PAD-86(86)				WX252(86)	WF252(86)	CH252(86)	CA17252(86)
SL86VS(86)	PC266(85)	WR260(85)	V250(83.5)	PS220-T52(85)		DV-300(80)	FX300V(80)	WM-25WB(86.7)	WX302(86)	WF260(86)	CH17002(86)	CA17002(86)
					PAD-96(96)							
SL119V(119)	PC366(119)	WR360(119)	V350(115.9)		PAD-119(119.5)	DV-450(119)		WM-35WB(119.7)	WX350(119)	WF360(119)	CH22050(119)	CA22050(119)
						DV-500(132)	FX500V(132)					



Tank Crosses - Short Cast



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast bronze, brass, injected molded PVC, galvanized ductile iron.
- **Prices are for bulk packaged tank crosses.**
- **For individually boxed crosses, remove "C" prefix and add \$2.25 to list price.**



Short Cast Crosses with 1 drain and 2 or 3 top ports.

* Do not use teflon tape with PVC tank cross applications.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHT100FB	2 1/2"	1" fpt	1" X 3/4"	3/4" (1)	1/4" (2)	Bronze	Import	5/40	\$ 31.31
CCAT100BS	4 1/4"	1" x 3/4"	1" x 3/4"	1/2" (1)	1/4" (2), 1/2" (1)	Brass	Import	4/40	52.54
CHC125B	4 1/4"	1 1/4" x 1"	1" x 3/4"	1/2" (1)	1/4" (3)	Bronze	USA	12	51.43
CHC12550BS	4 1/2"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2)	Brass	Import	5/40	41.00
CIC701B	3 3/4"	1 1/4" x 1"	1 1/4" x 1"	3/4" (1)	1/4" (3)	Bronze	USA	12	56.61
CHT125B	3 3/4"	1 1/4" x 1"	1 1/4" x 1"	3/4" (1)	1/4" (2)	Bronze	Import	5/30	22.63
CIC701BS	4 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (1)	1/4" (2)	Brass	Import	4/32	39.11
CIC125B	4 1/4"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	Bronze	Import	4/40	51.66
CIC125	4 1/4"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	PVC*	USA	100	12.32



Short Cast Crosses with 2 drain and 2 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100B	4 3/4"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze	USA	12	\$ 46.71
CICS100BS	4 1/2"	1" x 3/4"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	5/40	27.79
CIC3125B	5"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Bronze	USA	12	62.87
CIC3125BS	4 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	4/32	41.00
CIC71250BS	4 1/2"	1 1/4" x 1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	5/40	39.71
CIC712B	4"	1 1/4" x 1"	1" x 3/4"	3/4" (2)	1/4" (2)	Bronze	USA	12	53.45



Short Cast Crosses with Union Disconnect

* with Teflon gasket seal

** with metal to metal ball joint seal

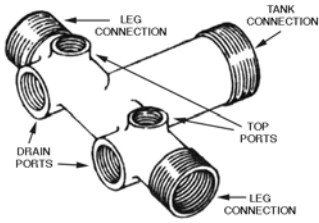
"E" Series light pattern brass tank crosses compete with Merrill & Boshart equivalents.

© CICS100BU, CICS125BU bronze metal to metal seal are Closeout - Limited Quantities



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100BSUE**	5 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/24	\$ 31.05
CICS100BSU*	5 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/24	49.61
© CICS100BU**	5 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze	Import	4/24	29.00
CICS125BSUE**	5 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	4/24	33.93↓
CICS125BSU*	5 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	4/24	62.78
© CICS125BU**	5 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Bronze	Import	4/24	41.00

Tank Crosses - Short Cast, Specialty



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast bronze, brass, injected molded PVC, galvanized ductile iron.
- **Prices are for bulk packaged tank crosses.**
- **For individually boxed crosses, remove "C" prefix and add \$2.25 to list price.**



Short cast crosses for use with Flexcon Flex-Lite Series, WellMate Tanks



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CWM100BS	4 1/2"	1" (FIP)	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	5/40	\$ 34.07
CWM125BS	4 3/4"	1 1/4" (FIP)	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	4/32	43.04
CICS736BS	2 1/2"	1 1/4" MIP x 1" FIP	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	5/40	24.82↓



Short cast female union tank crosses for use with Flexcon "Flex-Lite" Series, WellMate Tanks. FPT brass union w/ American Standard Buna-N o-ring.

- 1" uses AS 568-212 o-ring
- 1 1/4" uses AS 568-320 o-ring.
- CICS100BSFTU65 for use with WellMate Low Profile Series or other 1" mpt connection tanks that need extra length.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100BSFTU	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/32	\$ 43.97
CICS100BSFTU65	6 1/2"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/32	30.00↓
CICS1251BSFTU	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/32	43.57
CICS125BSFTU	4"	1 1/4" fpt union	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	4/24	56.96



Short cast quick connect (w/ Buna-N oring) tank crosses for use with WellMate "Quick Connect" Series tanks.

- 1" and 1 1/4" uses AS 568-220 o-ring.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CWM100BSQC	4 1/2"	Quick Connect	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/32	\$ 35.96
CWM125BSQC	4 1/2"	Quick Connect	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	3/24	37.04

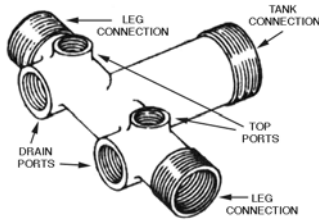


Short cast crosses for use with Flexcon Well-Rite, Online Series

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CFC100BS	4 1/2"	1" Union Th.	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	5/40	\$ 36.36
CFC125BS	4 1/2"	1 1/4" Union Th.	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	5/30	32.68↓



Tank Crosses - Short Cast, Fabricated



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast bronze, brass, injected molded PVC, galvanized ductile iron.
- Prices are for bulk packaged tank crosses.
- For individually boxed crosses, remove "C" prefix and add \$2.25 to list price.



Short cast cross heads and end fittings with 2 drain and 2 top ports

- * Includes sweat x 1" MIP end fitting.
- ** Includes sweat x 1 1/4" MIP end fitting.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BSSWT *	2 1/2"	1" sweat	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	4/48	21.82
CIC125BSSWT **	3"	1 1/4" sweat	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	4/32	22.32

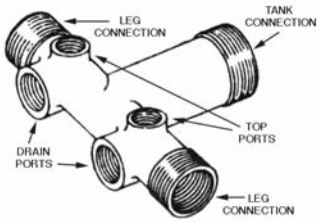


Compact cast crosses with one drain, two top ports

TM75BS TM100BS, TM125BS

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
TM75BS	2 1/2"	3/4" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	Brass	Import	5/50	\$ 18.32
TM100BS	2 1/2"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	Brass	Import	5/50	19.64
TM125BS	3"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Brass	Import	5/50	25.18

Tank Crosses - Short Cast



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast bronze, brass, injected molded PVC, galvanized ductile iron.
- **Prices are for bulk packaged tank crosses.**
- **For individually boxed crosses, remove "C" prefix and add \$2.25 to list price.**



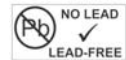
Short cast galvanized crosses with one drain, two top ports



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
HC100G	3 3/4"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	30	\$ 19.25
HC10075G	4"	1" (FIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	40	14.82
HC125G	3 3/4"	1 1/4" (FIP)	1 1/4" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	24	21.90
HC12575G	4"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	25	23.18



Short cast galvanized crosses with one drain, two top ports



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC100G	3"	1" (FIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	28	\$ 19.53
IC125G	3 1/2"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	24	22.49



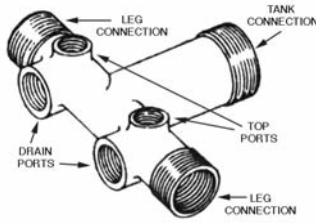
Short cast galvanized crosses with two drain, two top ports



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC200G	3"	1" (FIP)	1" (FIP)	1/2" (2)	1/4" (2)	Ductile Iron	Import	48	\$ 15.00↓
IC225G	3 1/2"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (2)	1/4" (2)	Ductile Iron	Import	24	17.86



Tank Crosses - Long Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast **NO LEAD** brass <0.25% Pb weighted average.
- **NO LEAD** brass tank crosses are CA AB1953 certified.



NO LEAD BRASS Long Cast Tank Crosses with 1 drain & 2 top ports.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BSENL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Brass	Import	2/24	\$ 54.89

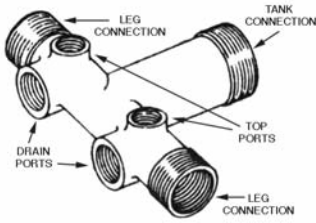


NO LEAD BRASS Long Cast Tank Crosses with 2 drain & 2 top ports.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
NO LEAD Brass									
CIC100BSENL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24	\$ 52.68
CIC100BS14ENL	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/12	55.51
CIC125BS14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/12	100.27

Tank Crosses - Long Cast NO LEAD Brass, Stainless Steel



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast **NO LEAD** brass <0.25% Pb weighted average or 304 Stainless Steel.
- **NO LEAD** brass tank crosses are CA AB1953 certified.
- 304 Stainless Steel crosses contain no lead.

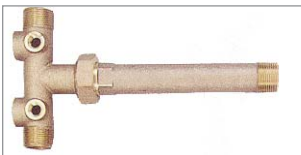


NO LEAD BRASS Long Cast Tank Crosses with union disconnect, with 1 drain & 2 top ports.

- Metal to metal ball joint seal.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BSUENL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Brass	Import	2/20	\$ 72.87
CHC125BSU14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Brass	Import	2/12	106.66



NO LEAD BRASS or 304 STAINLESS STEEL Long Cast Tank Crosses with union disconnect, with 2 drain & 2 top ports.

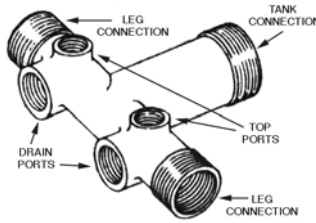
- Metal to metal ball joint seal on **NO LEAD** brass crosses.
- Teflon gasket seal on 304SS crosses.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
NO LEAD Brass									
CIC100BSUENL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/20	\$ 72.87
CIC100BSU14ENL	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/12	84.19
CIC125BSU14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/12	116.02
304 Stainless Steel *									
CIC100SSU	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/20	88.81
CIC100SSU14	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/20	104.98
CIC125SSU14	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	2/12	141.90



Tank Crosses - Long Cast



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast bronze, brass, injected molded PVC, galvanized ductile iron.
- For individually boxed crosses, remove "C" prefix and add \$2.25 to list price.



Long Cast Tank Crosses with 1 drain and 2 top ports.

"E" Series light pattern brass tank crosses compete with Merrill & Boshart equivalents.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BSE	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	Brass	Import	2/24	\$ 44.29
CHC100BS	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	Brass	Import	2/24	50.64
CHC100B	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	Bronze	USA	12	62.32



Long Cast Tank Crosses with 2 drain and 2 top ports.

"E" Series light pattern brass tank crosses compete with Merrill & Boshart equivalents.



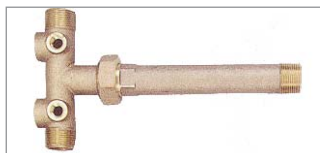
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BSE	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	2/24	\$ 42.32
CIC100BS	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	2/24	50.64
CIC100B	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze	USA	12	62.89
CIC100BS14	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	2/20	56.39
CIC125BS14E	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	2/12	86.81
CIC125BS14	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	15	101.96



Long Cast Tank Crosses with union disconnect, 1 drain and 2 top ports.

- Metal to metal ball joint seal.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BU	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	Bronze	Import	2/20	\$ 72.86
CHC125BU14	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	Bronze	Import	2/12	108.95



Long Cast Tank Crosses with union disconnect, 2 drain and 2 top ports.

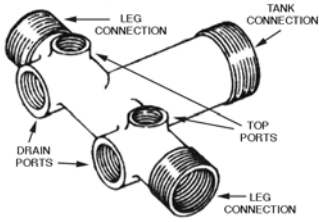
"E" Series light pattern brass tank crosses compete with Merrill & Boshart equivalents.



- Metal to metal ball joint seal.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BU85	8 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze	Import	2/20	\$ 67.61
CIC100BSUE	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Brass	Import	2/20	59.64
CIC100BU	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze	Import	2/20	72.86
CIC100BU14	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze	Import	2/20	64.29↓
CIC125BSU14E	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Brass	Import	2/12	95.61
CIC125BU14	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Bronze	Import	2/12	115.70

Tank Crosses - Long, Fabricated



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Cast bronze, brass, injected molded PVC, galvanized ductile iron.
- Prices are for bulk packaged tank crosses.
- For individually boxed crosses, remove "C" prefix and add \$2.25 to list price.



Long Fabricated Tank Crosses with 1 drain and 2 top taps.

- Crosses fabricated with 96.5% tin, 3.5% lead free solder.

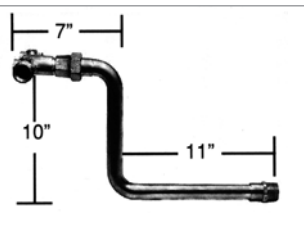
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BF	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	Bronze/Copper	USA	12	\$ 65.82
CHC100BF13	13"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	Bronze/Copper	USA	12	71.54
CHC125BF	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	Bronze/Copper	USA	12	81.94
CHC125BF16	16"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	Bronze/Copper	USA	6	87.04



Long Fabricated Tank Crosses with 2 drain and 2 top taps.

- Crosses fabricated with 96.5% tin, 3.5% lead free solder.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BF	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze/Copper	USA	12	\$ 65.00
CIC100BF13	13"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze/Copper	USA	12	71.54
CIC125BF	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Bronze/Copper	USA	12	80.36
CIC125BF16	16"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Bronze/Copper	USA	6	83.46



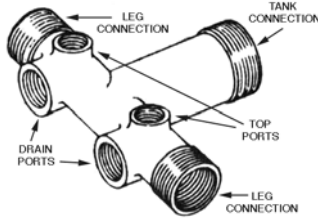
Long Fabricated Elevated Tank Crosses with union disconnect.

- Crosses fabricated with 96.5% tin, 3.5% lead free solder.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC740BF	18"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	Bronze/Copper	USA	9	\$ 151.46
CIC741BF	18"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	Bronze/Copper	USA	6	243.05



Tank Crosses - Long, Fabricated



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.



NO LEAD Long Fabricated Tank Crosses with 1 drain and 2 top taps.



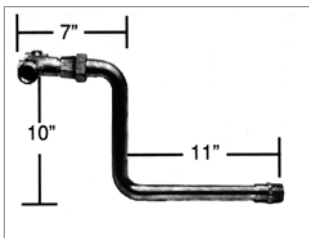
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BFNL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze/Copper	USA	12	\$ 79.79
CHC100BF13NL	13"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze/Copper	USA	12	95.39
CHC125BFNL	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Bronze/Copper	USA	12	104.75
CHC125BF16NL	16"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Bronze/Copper	USA	6	107.39



NO LEAD Long Fabricated Tank Crosses with 2 drain and 2 top taps.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100BFNL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	12	\$ 82.00
CIC100BF13NL	13"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	12	85.29
CIC125BFNL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	12	104.14
CIC125BF16NL	16"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	6	108.39



NO LEAD Long Fabricated Elevated Tank Crosses with union disconnect.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC740BFNL	18"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	9	\$ 172.39
CIC741BFNL	18"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	6	270.39





Tank Installation Packages - 1" Bottom Discharge

• ALL NO LEAD brass tank installation package components are CA AB1953 certified.



Part Number	Cross Included	Material	Length	List Price
TP100BS	CHC100BS	Cast brass	11"	\$ 110.08
TP100B	CHC100B	Cast bronze	11"	133.82
<ul style="list-style-type: none"> • see above 1"x11" Long Brass or Bronze Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • IPG1002-4L 0-100lb. Steel Case Pressure Gauge. 				
TP100BSNL	CHC100BSENL	NO LEAD Brass	11"	\$ 121.59
<ul style="list-style-type: none"> • see above 1"x11" Long NO LEAD Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge. 				



Part Number	Cross Included	Material	Length	List Price
IP100BSR	CIC100BS	Cast brass	11"	\$ 134.85
IP100BSR14	CIC100BS14	Cast Brass	14"	138.92
IP100BR	CIC100B	Cast bronze	11"	165.35
IP100BFR	CIC100BF	Fab. bronze	11"	166.61
IP100BF13R	CIC100BF13	Fab. bronze	13"	179.45
<ul style="list-style-type: none"> • see above 1" Long Brass or Bronze Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • RV50* 1/2" Relief Valve. * IRV50 with IP100BSR, IP100BSR14 • HNKD50 1/2" No Kink Boiler Drain. 				
IP100BSENL	CIC100BSENL	NO LEAD Brass	11"	\$136.38
IP100BS14ENL	CIC100BS14ENL	NO LEAD Brass	14"	128.83
IP100BFRNL	CIC100BFNL	NO LEAD Brass	11"	161.95
IP100BF13RNL	CIC100BF13NL	NO LEAD Brass	13"	169.82
<ul style="list-style-type: none"> • see above 1" Long NO LEAD Brass Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

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Tank Installation Packages - 1" Bottom Discharge



- ALL NO LEAD brass tank installation package components are CA AB1953 certified.
- ALL stainless steel tank installation package components contain NO LEAD.



Part Number	Cross Included	Material	Length	List Price
IP100BRU	CIC100BU	Cast bronze	11"	\$ 156.03
IP100BRU14	CIC100BU14	Cast bronze	14"	171.58
<ul style="list-style-type: none"> • see above 1" Long Bronze Safety Tank Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • IRV50 1/2" Imported Relief Valve. • HNKD50 1/2" No Kink Boiler Drain. 				



IP100BSUENL	CIC100BSUENL	NO LEAD Brass	11"	\$ 145.12
IP100BSU14ENL	CIC100BSU14ENL	NO LEAD Brass	14"	141.45
<ul style="list-style-type: none"> • see above 1" Long NO LEAD Safety Tank Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				



IP100SSUNL	CIC100SSU	Stainless Steel	11"	\$ 203.68
IP100SSU14NL	CIC100SSU14	Stainless Steel	14"	228.08
<ul style="list-style-type: none"> • see above 1" Long Stainless Steel Tank Cross. • 9013FSG2 30/50 Pressure Switch. • SS80-1/4x3 Stainless Steel Nipple. • EIPG1002-4LNL 100lb No Lead Pressure Gauge. • IRV50SS 1/2" Stainless Steel Relief Valve. • IHBB50SS 1/2" Stainless Steel Hose Bibb. • HTT120-1/2SS 1/2" x 120" Stainless Steel Teflon Tape 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

Special order custom fitting packages are available. Contact your representative or customer service for quotation.



Tank Installation Packages - 1" Bottom Discharge

- Do not use teflon tape with PVC tank cross applications.
- Use thread paste without teflon approved for plastic threaded fittings only.



Part Number	Cross Included	Material	Length	List Price
TP100GF	HC100GF	Fab Galvanized	11 1/2"	\$ 81.33
<ul style="list-style-type: none"> • HC100G 1" Galvanized Tank Cross. • GS80-1/4x3 Galvanized Steel Nipple. • GS80-1x8 Galvanized Steel Nipple. • 9013FSG2 30/50 Pressure Switch. • IPG1002-4L 100 lb. Steel Case Pressure Gauge. • HNKD50 1/2" No Kink Boiler Drain. 				

TP100GFNL	HC100GF	Fab Galvanized	11 1/2"	\$ 84.96
<ul style="list-style-type: none"> • HC100G 1" Galvanized Tank Cross. • GS80-1/4x3 Galvanized Steel Nipple. • GS80-1x8 Galvanized Steel Nipple. • 9013FSG2 30/50 Pressure Switch. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				



Part Number	Cross Included	Material	Length	List Price
TP100PF	IC100F	Fab. PVC	14"	\$ 67.68
<ul style="list-style-type: none"> • IC100F 1" x 14" Long PVC Fabricated Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • 1/4x3 PVC Schedule 80 Nipple. • 450-005 PVC Schedule 40 Threaded Plug. • IPG1002-4L 0-100lb. Steel Case Pressure Gauge. 				

TP100PFNL	IC100F	Fab. PVC	14"	\$ 69.49
<ul style="list-style-type: none"> • IC100F 1" x 14" Long PVC Fabricated Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • 1/4x3 PVC Schedule 80 Nipple. • 450-005 PVC Schedule 40 Threaded Plug. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge 				



Part Number	Cross Included	Material	Length	List Price
IP100PFR	IC100F	Fab. PVC	14"	\$ 86.93
<ul style="list-style-type: none"> • IC100F 1"x14" Long PVC Fabricated Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • 1/4 x 3 PVC Schedule 80 Nipple. • IPG1002-4L 100lb.Steel Case Pressure Gauge. • IRV50 1/2" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IP100PFRNL	IC100F	Fab. PVC	14"	\$ 94.38
<ul style="list-style-type: none"> • IC100F 1"x14" Long PVC Fabricated Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • 1/4 x 3 PVC Schedule 80 Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

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Tank Installation Packages - 1 1/4" Bottom Discharge



• ALL NO LEAD brass tank installation package components are CA AB1953 certified.



Part Number	Cross Included	Material	Length	List Price
TP125BF	CHC125BF	Fab. bronze	14"	\$ 164.41
<ul style="list-style-type: none"> • CHC125BF 1 1/4" Long Bronze Fabricated Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb. Steel Case Pressure Gauge. 				

Part Number	Cross Included	Material	Length	List Price
TP125BFNL	CHC125BFNL	NO LEAD Brass	14"	\$ 156.08
<ul style="list-style-type: none"> • CHC125BFNL 1 1/4" Long NO LEAD Brass Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. 				



Part Number	Cross Included	Material	Length	List Price
IP125BFR7	CIC125BF	Fab. bronze	14"	\$ 205.01
IP125BF16R7	CIC125BF16	Fab. bronze	16"	207.94
<ul style="list-style-type: none"> • See above 1 1/4" Long Bronze Fabricated Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb. Steel Case Pressure Gauge. • RV75 3/4" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

Part Number	Cross Included	Material	Length	List Price
IP125BFR7NL	CIC125BFNL	NO LEAD Brass	14"	\$ 192.10
IP125BF16R7NL	CIC125BF16NL	NO LEAD Brass	16"	197.87
<ul style="list-style-type: none"> • see above 1 1/4" Long NO LEAD Brass Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • RV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain. 				



Part Number	Cross Included	Material	Length	List Price
IP125BS14	CIC125BS14	Cast bronze	14"	\$ 186.60
<ul style="list-style-type: none"> • CIC125BS14 1 1/4" Long Bronze Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb. Steel Case Pressure Gauge. • IRV75 3/4" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

Part Number	Cross Included	Material	Length	List Price
IP125BS14ENL	CIC125BS14ENL	NO LEAD Brass	14"	\$ 174.47
<ul style="list-style-type: none"> • CIC125BS14ENL 1 1/4" Long NO LEAD Brass Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • IRV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain. 				



Tank Installation Packages - 1 1/4" Bottom Discharge

- ALL NO LEAD brass tank installation package components are CA AB1953 certified.
- ALL stainless steel tank installation package components contain NO LEAD.



Part Number	Cross Included	Material	Length	List Price
IP125BRU14	CIC125BU14	Cast bronze	14"	\$ 201.88
<ul style="list-style-type: none"> • See above 1 1/4" Long Bronze Tank Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb. Steel Case Pressure Gauge. • IRV75 3/4" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IP125BSU14ENL	CIC125BSU14ENL	NO LEAD Brass	14"	\$ 191.34
<ul style="list-style-type: none"> • See above 1 1/4" Long NO LEAD Brass Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • IRV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain. 				



IP125SSU14NL	CIC125SSU14	Stainless Steel	14"	\$ 265.68
<ul style="list-style-type: none"> • see above 1 1/4" Long Stainless Steel Tank Cross. • 9013FSG2 30/50 Pressure Switch. • SS80-1/4x3 Stainless Steel Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge. • IRV75SS 3/4" Stainless Steel Relief Valve. • IHBB75SS 3/4" Stainless Steel Hose Bibb. • HTT120-1/2SS 1/2" x 120" Stainless Steel Teflon Tape. 				

Tank Installation Packages - 1" Side Discharge



• ALL NO LEAD brass tank installation package components are CA AB1953 certified.



Part Number	Cross Included	Material	Length	List Price
TP100BR	CCAT100BS	Cast brass	4 1/4"	\$ 123.21
<ul style="list-style-type: none"> • CCAT100BS 1" Bronze Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • iRV50 1/2" Relief Valve. • HNKD50 1/2" No Kink Boiler Drain. 				
TP100BRNL	CCAT100BSNL	NO LEAD Brass	4 1/4"	\$ 132.03
<ul style="list-style-type: none"> • CCAT100BSNL 1" NO LEAD Brass Safety Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				



Part Number	Cross Included	Material	Length	List Price
IPS100BS	CICS100BS	Cast brass	4 1/2"	\$ 103.86
<ul style="list-style-type: none"> • see above 1" Brass or Bronze Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 0-100lb Steel Case Pressure Gauge. • RV50 * 1/2" Relief Valve. * IRV50 with IPS100BS • HNKD50 1/2" No Kink Boiler Drain. 				
IPS100BSENL	CICS100BSENL	NO LEAD Brass	4 1/2"	\$ 98.66
<ul style="list-style-type: none"> • see above 1" NO LEAD Brass Tank Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

Special order custom fitting packages are available. Contact your representative or customer service for quotation.



Tank Installation Packages - 1" Side Discharge

• ALL NO LEAD brass tank installation package components are CA AB1953 certified.



Part Number	Cross Included	Material	Length	List Price
IPWM100BS	CWM100BS	Cast brass	4 1/2"	\$ 122.21
<ul style="list-style-type: none"> • CWM100BS 1" Brass Tank Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 0-100lb Steel Case Pressure Gauge. • IRV50 1/2" Relief Valve. • HNKD50 1/2" No Kink Boiler Drain. 				

IPWM100BSNL	CWM100BSNL	NO LEAD brass	4 1/2"	\$ 117.50
<ul style="list-style-type: none"> • CWM100BSNL 1" NO LEAD Brass Tank Cross for FLEXCON "Flex-Lite" WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				



Part Number	Cross Included	Material	Length	List Price
IPS100BSFTU	CICS100BSFTU	Cast brass	4"	\$ 127.74
<ul style="list-style-type: none"> • CICS100BSFTU 1" Brass Tank Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 0-100lb Steel Case Pressure Gauge. • IRV50 1/2" Relief Valve. • HNKD50 1/2" No Kink Boiler Drain. 				

IPS100BSFTUNL	CICS100BSFTUNL	NO LEAD brass	4"	\$ 142.36
<ul style="list-style-type: none"> • CICS100BSFTUNL 1" NO LEAD Brass Tank Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

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1.20a

Tank Installation Packages - 1" Side Discharge



- ALL NO LEAD brass tank installation package components are CA AB1953 certified.
- ALL stainless steel tank installation package components contain NO LEAD.



Part Number	Cross Included	Material	Length	List Price
IPS100BSU	CICS100BSU	Cast brass	5 1/2"	\$ 134.55
<ul style="list-style-type: none"> • CICS100BSU 1" Brass Tank Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • IRV50 1/2" Relief Valve. • HNKD50 1/2" No Kink Boiler Drain. 				

IPS100BSUENL	CICS100BSUENL	NO LEAD Brass	5 1/2"	\$ 115.18
<ul style="list-style-type: none"> • CICS100BSUENL 1" NO LEAD Brass Tank Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain 				



IPS100SSUNL	CICS100SSU	Stainless Steel	5 1/2"	\$ 187.60
<ul style="list-style-type: none"> • see above 1" Short Stainless Steel Tank Cross. • 9013FSG2 30/50 Pressure Switch. • SS80-1/4x3 Stainless Steel Nipple. • EIPG1002-4LNL 100lb No Lead Pressure Gauge. • IRV50SS 1/2" Stainless Steel Relief Valve. • IHBB50SS 1/2" Stainless Steel Hose Bibb. • HTT120-1/2SS 1/2" x 120" Stainless Steel Teflon Tape. 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

Special order custom fitting packages are available. Contact your representative or customer service for quotation.

10/23/12

1.20b



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Tank Installation Packages - 1 1/4" Side Discharge

• ALL NO LEAD brass tank installation package components are CA AB1953 certified.



Part Number	Cross Included	Material	Length	List Price
IP125BR	CIC125B	Cast bronze	4 1/4"	\$ 127.50
<ul style="list-style-type: none"> • CIC125B 1 1/4" Bronze Safety Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • iRV50 1/2" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IP125BSNL	CIC125BSNL	NO LEAD Brass	4 1/4"	\$ 136.38
<ul style="list-style-type: none"> • CIC125BSNL 1 1/4" NO LEAD Brass Safety Cross. • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • IRV50NL 1/2" NO LEAD Brass Relief Valve • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				



Part Number	Cross Included	Material	Length	List Price
IP3125BS	CIC3125BS	Cast brass	4 1/2"	\$ 125.10
IP3125B	CIC3125B	Cast bronze	5"	175.57
<ul style="list-style-type: none"> • see above 1 1/4" Brass or Bronze Safety Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • RV75 * 3/4" Relief Valve. * IRV75 with IP3125BS • HNKD75 3/4" No Kink Boiler Drain. 				

IP3125BSENL	CIC3125BSENL	NO LEAD Brass	4 1/2"	\$ 110.21
<ul style="list-style-type: none"> • CIC3125BSENL 1 1/4" NO LEAD Brass Safety Tank Cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • IRV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

Special order custom fitting packages are available. Contact your representative or customer service for quotation.



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1.20c

Tank Installation Packages - 1 1/4" Side Discharge



• ALL NO LEAD brass tank installation package components are CA AB1953 certified.



Part Number	Cross Included	Material	Length	List Price
IPWM125BS	CWM125BS	Cast brass	4 3/4"	\$ 118.26
<ul style="list-style-type: none"> • CWM125BS 1 1/4" Brass Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • IRV75 3/4" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IPWM125BSNL	CWM125BSNL	No Lead brass	4 3/4"	\$ 132.41
<ul style="list-style-type: none"> • CWM125BSNL 1 1/4" NO LEAD Brass Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • IRV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				



Part Number	Cross Included	Material	Length	List Price
IPS125BSFTU	CICS125BSFTU	Cast brass	4"	\$ 134.19
<ul style="list-style-type: none"> • CICS125BSFTU 1 1/4" Brass Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • IRV75 3/4" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IPS125BSFTUNL	CICS125BSFTUNL	NO LEAD brass	4"	\$ 153.80
<ul style="list-style-type: none"> • CICS125BSFTUNL 1 1/4" NO LEAD Brass Cross for FLEXCON "Flex-Lite", WELLMATE tanks • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • IRV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

Special order custom fitting packages are available. Contact your representative or customer service for quotation.



Tank Installation Packages - 1 1/4" Side Discharge

- ALL NO LEAD brass tank installation package components are CA AB1953 certified.
- ALL stainless steel tank installation package components contain NO LEAD
- Do not use teflon tape with PVC tank cross applications.
- Use thread paste without teflon approved for plastic threaded fittings only.



Part Number	Cross Included	Material	Length	List Price
IPS125BSU	CICS125BSU	Cast brass	5 1/2"	\$ 143.21
<ul style="list-style-type: none"> • CICS125BSU 1 1/4" Brass Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • IRV75 3/4" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IPS125BSUENL	CICS125BSUENL	NO LEAD Brass	5 1/2"	\$ 133.05
<ul style="list-style-type: none"> • CICS125BSUENL 1 1/4" NO LEAD Brass Cross with union • 9013FSG2 30/50 Pressure Switch. • B80-1/4 x 3 Brass Nipple. • EIPG1002-4LNL 100lb. NO LEAD Brass Pressure Gauge. • IRV75NL 3/4" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				



IPS125SSUNL	CICS125SSU	Stainless Steel	5 1/2"	\$ 189.72
<ul style="list-style-type: none"> • CICS125SSU 1 1/4" Short Stainless Steel Tank Cross. • 9013FSG2 30/50 Pressure Switch. • SS80-1/4x3 Stainless Steel Nipple. • EIPG1002-4LNL 100lb No Lead Pressure Gauge. • IRV75SS 3/4" Stainless Steel Relief Valve. • IHBB75SS 3/4" Stainless Steel Hose Bibb. • HTT120-1/2SS 1/2" x 120" Stainless Steel Teflon Tape. 				



Part Number	Cross Included	Material	Length	List Price
IP125PR	CIC125	PVC	4 1/4"	\$ 90.92
<ul style="list-style-type: none"> • CIC125 1-1/4" PVC Safety Cross. • 9013FSG2 30/50 Pressure Switch. • 1/4 x 3 Schedule 80 PVC Nipple. • IPG1002-4L 100lb Steel Case Pressure Gauge. • IRV50 1/2" Relief Valve. • HNKD75 3/4" No Kink Boiler Drain. 				

IP125PRNL	CIC125	PVC	4 1/4"	\$ 98.99
<ul style="list-style-type: none"> • CIC125 1-1/4" PVC Safety Cross. • 9013FSG2 30/50 Pressure Switch. • 1/4 x 3 Schedule 80 PVC Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge. • IRV50NL 1/2" NO LEAD Brass Relief Valve. • HNKD75NL 3/4" NO LEAD Brass No Kink Boiler Drain 				

OPTIONS: Add suffix letter to end of part number.

SUFFIX	PRODUCT SUBSTITUTION	LIST ADDER
L	9013FSG2M4 30/50 Low Pressure Cutoff Switch.	\$ 10.86

Special order custom fitting packages are available. Contact your representative or customer service for quotation.





Air Volume Controls



AV Non-Repairable



AV Repairable



AC100

Brady Air Volume Control Features:

- Maintains water flow-stretches pump life.
- Repairable and non-repairable offering.
- Diaphragm-type air volume control maintains correct proportions of air & water in jet systems.
- Die Cast, 96% Zinc.
- Individually cartoned.
- Available with or without Tapped Gauge Port.
- "E" Series compares to Boshart "AVC" and Merrill "AV" series non-repairable controls.

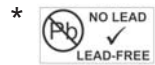


Air Charger Features:

- For jet systems.
- Positive action control.
- No flexing diaphragm or metal springs to malfunction.
- Will not corrode in a moist environment.
- Fits all tanks up to and including 82 gallon.
- Available with tube & fittings as an optional extra, specify **AC100TF**. Includes 60" tubing & assortment of special brass fittings & adapters, eliminates duplication of inventories with a single kit for all applications.

Universal Air Charger Installation Kit Features:

- Fits all air volume controls.
- Includes 60" polyethylene tubing and assortment of special brass fittings and adapters, eliminating duplication of inventories with a single kit for all applications.



Part Number (Tapped)	Tank Capacity	Tank Port	Suction Port	Ctn Qty	Tapped List Price	Standard List Price	
Non-repairable *							
AV45E	80	1/4" pipe	7/16"-24 pipe	50		\$ 10.18 ↓	
AV45	80	1/4" pipe	7/16"-24 pipe	50		37.98	
AV45F	80	1/4" pipe	1/8" pipe tap	50		39.74	
AV100E	120	3/8" pipe	7/16"-24 pipe	50		10.18 ↓	
AV100	120	3/8" pipe	7/16"-24 pipe	50		43.01	
AV100F	120	3/8" pipe	1/8" pipe tap	50		45.59	
Repairable *							
AV30	42	1/4" pipe	7/16"-24 pipe	100		41.83	
AV42	AV42T	80	1/4" pipe tap	1/4" pipe tap	50	57.15	54.63
AV80	AV80T	120	1/4" pipe tap	1/4" pipe tap	50	66.92	63.36
AV120	AV120T	220	3/8" pipe tap	1/4" pipe tap	25	87.80	84.16
Repair Kits • Fits all makes of repairable diaphragm type controls							
AV30-3A	For Brady AV30 controls			42		27.65	
AV42-3A	For Brady AV42 controls			42		32.49	
AV80-3A	For Brady AV80 controls			42		37.98	
AV120-3A	For Brady AV120 controls			42		49.75	
Plastic Air Charger *							
AC100				30		21.13	
CAC100				Bulk Packed		17.88	
Air Charger with Tubing and Fittings **							
AC100TF				20		31.48	
AC100TFBT	Black Tubing			20		31.48	
Air Charger Installation Kit with Tubing and Fittings **							
UTF1				24		18.37	
UTF1BT	Black Tubing			24		18.37	

** See page 6.7 for additional lengths of MV4040 1/2" OD x 0.17" ID translucent and black tubing.



TM

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1.27



HAE1

HARVARD

All Plastic Deep Well Air Release Features:

- Formerly Robert Shaw* AE10
(*used with permission of Invensys Controls)
- Maintains proper ratio of air to water in submersible water systems.
- All polyethylene construction eliminates corrosion.
- Includes gauge port and 0-40 psi limited bleed adjustment.
- **NO LEAD - Third party certified.**
- **Made in USA.**



Formerly Robert Shaw/Invensys



BAR125N

Brady Plastic Deep Well Air Release Features:

- Maintains the proper ratio of air to water.
- Constructed of ABS resin grade plastic.
- Non-corrosive, non-conductive and completely serviceable.
- Release mechanism consists of a Buna-N procession ball & 316 stainless steel spring.
- Factory set at 20 P.S.I., adjustable from 0 to 40 P.S.I.



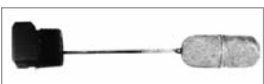
WJ1

Deep Well Air Release Features:

- Maintains proper ratio of air to water in submersible water systems.
- Deluxe deep well air release features ABS float and cast body which prevents galvanic action at pump tank tapping.
- **WJ1NL NO LEAD - Third party certified.**
- WJ1, WJ1NL Imported.



HF93B1



SWCL

Shallow Well Control Features:

- Preserves correct proportion of water and air in shallow well reciprocating pump systems.
- **SWCLNL NO LEAD - Third party certified.**
- Imported.



Part Number	Tapping	Manufacturer	Ctn Qty	List Price
All Plastic Deep Well Air Release				
HAE1	1 1/4"	Harvard (formerly Robert Shaw)	49	\$ 45.71
BAR125N	1 1/4"	Brady	50	44.39
Deep Well Air Release				
WJ1	1 1/4"	Ametek	20	56.82
WJ1NL	1 1/4"	NO LEAD Ametek	20	65.36
HF93B-1	1 1/4"	Johnson	50	36.25
Shallow Well Control				
SWCL	1 1/4"	Ametek	20	66.35
SWCLNL	1 1/4"	NO LEAD Ametek	20	76.05



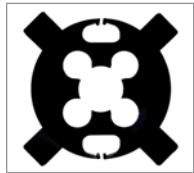
Installation Accessories - Submersible



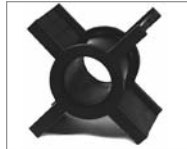
TA48



SG Series



MG6



TA6100



WG Series

Deluxe Torque Arrestor Features:

- Two piece design, molded from PVC or rubber.
- PVC torque arrestor is **40% heavier** than competitors to resist long-term casing abrasion.
- Field adjustable to hold pump centered in well.
- Fits all well casings from 4" to 8" I.D.
- Torque Arrestor is securely fastened to 1" or 1 1/4" drop pipe w/ **2 Ideal all stainless steel** clamps included.
- Available bagged, boxed or bulk without clamps.

Submersible Torque Arrestor Features:

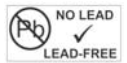
- "Spider" style molded from rubber.
- Installs at discharge cap of submersible pump.
- Tabs are easily cut for field alteration.
- 4"-6" casing, 1" center hole.

Natural Rubber Pump Guide Features:

- Installed at the top of the submersible discharge cap.
- Permits the pump to be lowered without damage from abrading against the well casing & ledge while centering the pump in the well.

Cable Guard Features:

- Snap-in and self clamping styles.
- Keeps power cable from abrading against well casing.
- A minimum of three to five should be used; one at the pump, one no further than 15' above the pump, and one between 25' and 30' above the pump.
- Adjustable - use in 4", 5" and 6" wells. Available for 1" or 1 1/4" drop pipe.
- Made of polyethylene and will float.
- MG6, WG100, WG125 are IAPMO certified to CA AB1953.



Part Number	Description	Color	Ctn Qty	List Price
Deluxe PVC Torque Arrestor				
TA48	Bagged, with 2 Ideal all stainless steel clamps	Black	16	\$ 13.88
TA48B	Boxed, with 2 Ideal all stainless steel clamps	Black	12	18.58
CTA48	Bulk, no clamps	Black	Bulk	10.84
Deluxe Rubber Torque Arrestor				
TA48R	Bagged with 2 Ideal all stainless steel clamps	Black	16	15.68
TA48RB	Boxed, with 2 Ideal all stainless steel clamps	Black	12	18.36
CTA48R	Bulk, No clamps	Black	Bulk	13.93
Standard Rubber Torque Arrestor				
TA6100	6x1, (spider type)	Black	50	27.47
Natural Rubber Pump Guides Fits Casing ID Guide OD Drop Pipe				
SG400-3X1	4"	3"	1"	Bulk 4.89
SG400-3X1 1/4	4"	3"	1 1/4"	Bulk 4.89
SG500-4X1	5"	4"	1"	Bulk 5.30
SG558-5X1	5-5/8"	5"	1"	Bulk 8.74
SG600-55/8X1	6"	5 5/8"	1"	Bulk 10.31
SG600-55/8X1 1/4	6"	5 5/8"	1 1/4"	Bulk 10.31
SG625-6X1	6 1/4"	6"	1"	Bulk 10.31
SG625-6X2	6 1/4"	6"	2"	Bulk 10.31
Cable Guard				
MG6	With two cable holes, fits 4"-6" casing, Polyethylene		100	0.96
WG100	1" Self-clamping style, fits 4"-6" casing		48	2.93
WG125	1 1/4" Self-clamping style, fits 4"-6" casing		48	4.86





MR Series

Submersible Safety Rope Features:

- Custom extruded from tough polypropylene fiber.
- Highly resistant to chafing, abrasion & corrosion.
- Recommended wherever minimum stretch and maximum strength are required.
- Twisted SR25 Series tested in excess of 1,200 lbs.. Braided MR25 Series tested in excess of 1,000 lbs.
- Plastic or wood reels.



P0100

Bleeder Orifices Features:

- Provides a fast bleed through its large opening.
- Complete closure prevents loss of pumping volume.
- Full 1" size molded of virgin rubber increases bleed capacity & reduces cost of pipe fitting.
- 3/4" available in brass.
- Bleeder orifice tee available. Includes yellow brass insert tee w/ 1" rubber bleeder orifice.



ES

Ejector Screen Features:

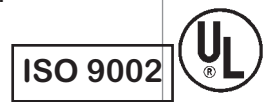
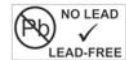
- Protects heat pumps against plugged nozzles and clogged venturis.
- Non-corrosive brass or stainless steel screen.
- Installs easily in discharge side of ejector.



CT Series

Cable Tie Features:

- UL approved, self-clinching nylon fastener.
- Ideal for holding cable to drop pipe, positioning cable guards, etc.
- Withstands -65° to 225°F.
- Packaged in bags of 100.
- Manufactured for AGI in an ISO 9002 facility.



Part Number	Description	Ctn Qty	List Price
Braided Safety Rope			
MR25-500	Blue/White, 1/4" x 500' Plastic Reel, 1000#	1	\$ 34.93
MR25-1	Blue/White, 1/4" x 1000' Plastic Reel, 1000#	1	62.57
MR25-3	Blue/White, 1/4" x 3000' Plastic Reel, 1000#	1	197.32
Twisted Safety Rope			
SR25-500	Black, 1/4" x 500' Plastic Reel, 1200#	1	50.89
SR25-1	Black, 1/4" x 1000' Plastic Reel, 1200#	1	98.93
SR25-3	Black, 1/4" x 3000' Plastic Reel, 1200#	1	305.54
Bleeder Orifices			
P075B	3/4", Brass	25/250	9.82
P0100	1", Rubber, 25 per bag	100	2.04
BOT100	Yellow Brass Insert Tee 1", w/rubber bleeder orifice	6	45.18
Ejector Screen			
ES1	Brass Screen	1	9.78
ES1S	Stainless Steel Screen	1	10.19
Cable Ties			
CT150	Bag of 100 Nylon, 1" to 1 1/4" diameter pipe, 8" long	1	6.50 /100
CT300	Bag of 100 Nylon, 1 1/2" to 4" diameter pipe, 15" long	1	15.18 /100



Pump Installation Adapters & Fittings - NO LEAD

Features:

- Heavy pattern, contractor grade cast bronze or stainless steel material.
- Rope adapters have integral pad eye for easy use with submersible rope.



SEE PAGE 12.4c and 12.4d for a complete line of imported **NO LEAD** cast bronze insert fittings.



NLRBMA



NLXLRBMA



NLRBMUA



NLRBRA



NLRBFA



SSMA

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
No Lead Cast Bronze Male Insert Adapters (INS x MIP)					
NLRBMA1/2	1/2" x 1/2"	Hex	5	10/200	\$ 10.42
NLRBMA3/4	3/4" x 3/4"	Hex	5	10/200	13.24
NLRBMA1	1" x 1"	Hex	7	10/100	23.80
NLRBMA1X3/4	1" x 3/4"	Hex	5	10/100	15.90
NLRBMA1X11/4	1" x 1 1/4"	Hex	6	10/100	27.20
NLRBMA11/4	1 1/4" x 1 1/4"	Hex	6	10/100	27.26
NLRBMA11/4X1	1 1/4" x 1"	Hex	7	10/100	28.00
NLRBMA11/2	1 1/2" x 1 1/2"	Hex	6	5/50	32.74
NLRBMA11/2X11/4	1 1/2" x 1 1/4"	Hex	6	10/100	25.06
NLRBMA2	2" x 2"	Hex	7	5/50	59.76
No Lead Cast Bronze Extra Long Male Adapters (INS x MIP)					
NLXLRBMA1	1" x 1"	Hex	12	10/100	28.59
NLXLRBMA1x11/4	1" x 1 1/4"	Hex	12	10/100	32.35
NLXLRBMA11/4	1 1/4" x 1 1/4"	Hex	12	10/100	39.00
NLXLRBMA2	2" x 2"	Hex	12	5/50	66.65
No Lead Cast Bronze Male Union Adapters (INS x MIP) - Available March 2012					
NLRBMUA1	1" x 1"	Hex	6	10/80	34.17
NLRBMUA11/4	1 1/4" x 1 1/4"	Hex	6	10/40	50.02
No Lead Cast Bronze Rope Adapter (INS x MIP)					
NLRBRA1	1" x 1"	Round w/ rope eye	7	10/100	25.43
NLRBRA1X11/4	1" x 1 1/4"	Round w/ rope eye	6	10/100	31.01
NLRBRA11/4	1 1/4" x 1 1/4"	Round w/ rope eye	6	10/100	32.45
No Lead Cast Bronze Female Adapters (INS x FIP)					
NLRBFA1/2	1/2" x 1/2"	Round	5	10/200	14.22
NLRBFA3/4	3/4" x 3/4"	Round	5	10/100	15.26
NLRBFA1	1" x 1"	Round	5	10/100	25.19
NLRBFA11/4	1 1/4" x 1 1/4"	Round	7	10/100	30.08
NLRBFA11/2	1 1/2" x 1 1/2"	Round	6	5/50	35.20
NLRBFA2	2" x 2"	Round	7	5/50	57.27
Cast Stainless Steel Male Insert Adapters (MIP xINS) Grade 304 *					
SSMA1/2	1/2"	Hex	6	10/100	8.18
SSMA3/4	3/4"	Hex	6	10/200	12.21
SSMA1	1"	Hex	6	10/100	17.11
SSMA11/4	1 1/4"	Hex	6	5/100	21.25
SSMA11/4X1	1 1/4" x 1"	Hex	6	10/100	18.82
XLSSMA11/4X1	1 1/4" x 1"	Hex (Heavy pattern xlong)	13	5/60	25.54
SSMA11/2	1 1/2"	Hex	6	5/80	29.94
SSMA2	2"	Hex	6	5/40	41.64

Pump Installation Adapters & Fittings - NO LEAD



SS12



SSHB



S99, ISWSE, B99



S86, ISVMA, B86

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
Cast Stainless Steel Male Insert Adapters (MIPxINS) Made in USA Grade 316 *					
SS12-1/2	1/2"	Round	6	25/300	21.17
SS12-3/4	3/4"	Round	7	25/200	19.49
SS12-1	1"	Round	7	20/160	22.08
SS12-11/4	1 1/4"	Round	6	20/120	36.20
SS12-11/2	1 1/2"	Round	6	10/60	49.01
SS12-2	2"	Round	7	10/40	64.41
SS38-11/4 X1	1 1/4" x 1"	Round	7	25	52.13
Cast Stainless Steel Hex Bushing (MIPxFIP) Grade 304 *					
SSHB1X1/4	1" x 1/4"	Hex	-	10/200	8.62
SSHB1X1/2	1" x 1/2"	Hex	-	10/200	8.62
SSHB1X3/4	1" x 3/4"	Hex	-	10/200	8.62
SSHB11/4x1	1 1/4" x 1"	Hex	-	10/160	15.38
Steel Well Seal Elbows (INS x INS) **					
S99-1	1"			10	26.66
S99-11/4	1 1/4"			10	36.03
Steel Well Seal Elbows (INS x INS) *					
ISWSE100	1"			25	13.11
ISWSE125	1 1/4"			15	21.54
Brass Well Seal Elbow, ins x ins**					
B99-1	1"			5	96.50
B99-11/4	1-1/4"			5	181.67
Steel Venturi Adapter, mipt x ins **					
S86-3/4X6	3/4" x 6"			25	18.05
S86-3/4X10	3/4" x 10"			25	21.49
S86-3/4X12	3/4" x 12"			25	21.76
S86-1X6	1" x 6"			25	13.71
S86-1X8	1" x 8"			25	16.56
S86-1X10	1" x 10"			25	18.60
S86-1X12	1" x 12"			25	21.24
S86-11/4X6	1-1/4" x 6"			25	18.66
S86-11/4X8	1-1/4" x 8"			25	21.01
S86-11/4X10	1-1/4" x 10"			20	25.34
S86-11/4X12	1-1/4" x 12"			25	32.46
Steel Venturi Adapter, mipt x ins *					
ISVMA1X6	1" x 6"			60	5.50
ISVMA1X8	1" x 8"			50	7.95
ISVMA1X10	1" x 10"			40	9.44
ISVMA11/4X6	1-1/4" x 6"			50	7.46
ISVMA11/4X8	1-1/4" x 8"			40	9.27
ISVMA11/4X10	1-1/4" x 10"			30	12.52
Red Brass Venturi Adapter, ins x mipt **					
B86-1X6	1" x 6"			25/100	44.84
B86-1X8	1" x 8"			25/100	59.07
B86-11/4X6	1-1/4" x 6"			25/100	66.40
B86-11/4X8	1-1/4" x 8"			25/100	87.43





Liquid Level Controls

BIW Controls



Liquid Level Control

Liquid Level Control Features:

- Provides automatic low level cutoff protection for submersible pumps & deep well turbines.
- Liquid level submersible pump control system consists of a standard enclosed type induction relay which operates from two insulated electrodes suspended at desired levels.
- Permits efficient operation at full capacity and eliminates danger of pumping air or sand.
- Wiring diagrams and complete installation instruction are included with each control.

1500G SERIES INDUCTION RELAY:

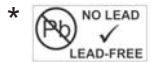
- Two way control system for pump up or pump down.
- Rated at 1 hp single phase, 115 or 230 volts A.C.
- For use in controlling hydropneumatic tanks and motorized valve installations.

1500C and 1500D SERIES INDUCTION RELAY:

- Rated at 1 h.p. single phase, 110 or 220 volts and furnished in a NEMA 1 metal enclosure.
- For control of a larger motor, it can also be supplied in a common enclosure with an auxiliary relay without overload protection or with a magnetic starter that has overload protection.
- 1500C Series for sewage & sump pump, low level cutoff for submersible pump application.
- 1500D Series for supply pumps on elevated tanks & towers, high level cutoff for pumps & valves.

6013 SERIES ELECTRODES:

- Made of brass or 303 stainless steel.
- 2" long.
- Assembled in molded plastic insulating shield 9/16" in diameter.
- Use in submersible pump installations by suspending to desired length w/ suspension wire.



Electrode

NEW Part Number	OLD Part Number	Description	Volts	Ctn Qty	List Price
1500G-L1-S7-N1X	DH110-220	Pump-up/Pump-down	110/220 volts	1	\$ 631.24
1500G-L1-S8-N1X	DH110-360	Pump-up/Pump-down	110/360 volts	1	631.24
1500G-L2-S7-N1X	DH220-220	Pump-up/Pump-down	220/220 volts	1	631.24
1500G-L2-S8-N1X	DH220-360	Pump-up/Pump-down	220/360 volts	1	631.24
1500G-L3-S8-N1X	DH440-360	Pump-up/Pump-down	440/360 volts	1	631.24
1500G-L4-S11-N1	DH550-600	Pump-up/Pump-down	550/600 volts	1	631.24
1500C-L1-S4-N1X	LH110-110	Pump-down	110/120 volts	1	560.28
1500C-L1-S7-N1X	LH110-220	Pump-down	110/220 volts	1	560.28
1500C-L1-S8-N1X	LH110-360	Pump-down	110/360 volts	1	560.28
1500C-L2-S7-N1X	LH220-220	Pump-down	220/220 volts	1	560.28
1500C-L2-S8-N1X	LH230-360	Pump-down	230/360 volts	1	560.28
1500C-L2-S9-N1X	LH220-480	Pump-down	220/480 volts	1	560.28
1500C-L3-S8-N1X	LH440-360	Pump-down	440/360 volts	1	560.28
1500D-L1-S7-N1X	RH110-220	Pump-up	110/220 volts	1	560.28
1500D-L1-S8-N1X	RH110-360	Pump-up	110/360 volts	1	560.28
1500D-L2-S7-N1X	RH220-220	Pump-up	220/220 volts	1	560.28
1500D-L2-S9-N1X	RH220-480	Pump-up	220/480 volts	1	560.28
1500D-L2-S8-N1X	RH230-360	Pump-up	230/360 volts	1	560.28
1500D-L3-S8-N1X	RH440-360	Pump-up	440/360 volts	1	560.28
Electrodes					
6013-W6	E1S	Stainless Steel *		1	76.58
6013-W5	E1SB	Brass		1	65.65

Liquid Level Controls



Induction Relay Coil Selection Data

Primary Coil:

The primary coil voltage should be chosen to match the line voltage of the control system. The 1500 Series Induction Relay can be supplied with any of the following line voltages.

Line Voltage	Frequency (Hertz)	Max Amps (Secondary Shorted)
110-120	50-60	.075
208-240	50-60	.038
440-480	50-60	.019

Secondary Coil:

Since B/W level control systems use liquid as an electrical conductor to complete the relay's secondary circuit - and since the resistance of liquid varies, it is necessary that each induction relay be equipped with a secondary coil that will operate over the resistance of the liquid it controls. The table below lists the operating characteristics of various coils available. All values are based on line voltage of 115, 230, 460 volts at 60 hertz.

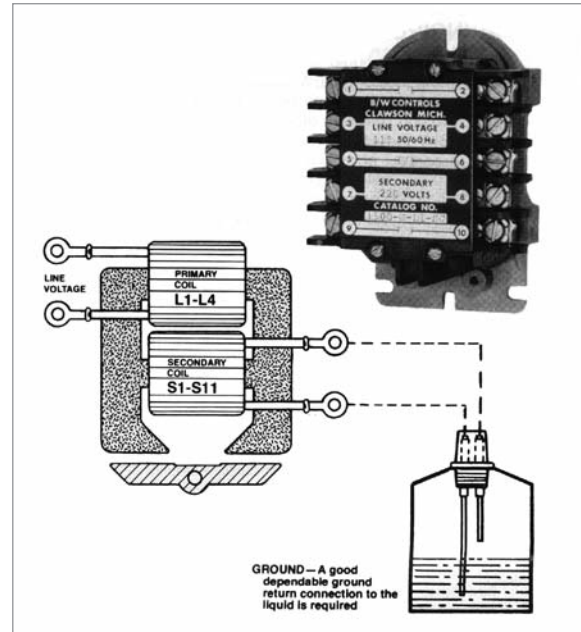
Typical Liquids:

The following recommendations are satisfactory for general use, but because the conductivity of liquids varies greatly with concentration, purity, temperature and other factors, some applications may require a different selection. A number of the products listed are produced as solids such as crystals or powders, and the relay selection is based on the normally used commercial solutions of these materials.

Liquid Description	Secondary Coil	Liquid Description	Secondary Coil	Liquid Description	Secondary Coil
Acetic Acid - up to 75%	90 volt	Carbolic Acid - up to 90%	220 volt	Nitric acid	40 or 90 volt
- 75 - 90%	220 volt	Catsup	90 volt	Orange juice	90 volt
Acids - General	40 or 90 volt	Caustic Soda (Sodium Hydroxide)	40 volt	Paper stock	220 volt
Alkalies - General	40 or 90 volt	Cement slurry	220 volt	Penicillin	220 volt
Alum Solutions	220 volt	Chromic acid	40 volt	Phosphoric acid	40 volt
Aluminum Sulphate	90 volt	Citric acid	40 or 90 volt	Plating solutions	40 or 90 volt
Aluminum Hydroxide	90 volt	Coffee	90 volt	Salts - chemical	40 or 90 volt
Amino Acids	90 volt	Condensate - ordinary water	480 volt	Sodium Carbonate (soda ash)	90 volt
Ammonium Chloride	40 volt	Corn syrup	480 volt	Sodium Chloride (table salt)	40 volt
Ammonium Hydroxide (Ammonia)	220 volt	Corn - cream style	90 volt	Sodium Hydroxide (caustic soda)	40 volt
Ammonium Sulphate	220 volt	Ferrous Sulphate	220 volt	Sodium Hypochlorate	40 volt
Baby foods	90 volt	Formic acid - up to 75%	90 volt	Sodium Silicate (water glass)	90 volt
Barium Chloride	40 volt	- 75 to 90%	220 volt	Soups	40 volt
Barium Nitrate	40 volt	Hydrofluoric acid - up to 20%	220 volt	Starch solutions	220 volt
Beer	90 volt	- above 20%	40 volt	Sugar - low concentrations	220 volt
Black liquor	40 volt	Hydrofluorsilicic acid	90 volt	- high concentrations	360 volt
Blood	220 volt	Jams & jellies	360 volt	Vinegar	90 volt
Borax - up to 10%	220 volt	Juices - fruit & vegetable	40 or 90 volt	Water - Sea	40 volt
- Greater than 10%	90 volt	Lithium Chloride	40 volt	- Ordinary potable	220 volt
Bread dough	90 volt	Magnesium Hydroxide	90 volt	- ordinary soft	360 volt
Buttermilk	24 or 40 volt	Mayonnaise	220 volt	- Ordinary condensate	480 volt
Cadmium Chloride	40 volt	Milk	40 volt	Zinc Chloride	40 volt
Cake batter	220 volt	Molasses	220 volt		
Calcium Chloride	40 volt	Muriatic acid	40 volt		
Calcium Hydroxide	220 volt	Mustard	40 volt		

NOTE: Maximum distance limitations for typical induction relay secondary circuits are: 220 secondary - 900 feet, 360 secondary - 350 ft, 480 secondary - 250 ft.

BIW Controls





Pitless Adapters - NO LEAD Bronze, Stainless Steel



PT300NL



PT800NL



PT825NL



PT800SS



PT825SS



PT3000SS

Pitless Adapter Features:

- Cast from **81% COPPER** content alloy **NO LEAD** bronze or 304 cast stainless steel to insure long life and durability in the most aggressive well conditions.
- **Extended casing nipple** makes installation easy.
- Rubber inner and outer casing gaskets for certified & approved water tight seal from ground water contamination.
- Built-in lowering eyelet for easier installation.
- All PT Series pitless adapters are individually boxed.
- **All PT Series adapters are certified and approved watertight to PAS-97(2012) standards.**
- **NO LEAD** brass is CA AB1953 certified.
- 304 Stainless Steel is Lead Free.



Part Number	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty	List Price
NO LEAD Cast Bronze						
PT300NL	1"	5" through 8"	1 3/4"	800	10	\$ 97.32
PT800NL *	1"	5" through 8"	1 3/4"	900	10	113.39
PT825NL *	1-1/4"	5" through 8"	2 1/4"	2,000	10	135.38
PT3000NL	2"	5 5/8" through 12"	3 1/8"	5,000	4	603.21
PT900NL	1" & 1 1/4" (2 Hole)	5" through 8"	1 3/4" & 2 1/4"	2,000	6	510.72
TAPPED NO LEAD Cast Bronze for Underground tanks						
PT800TNL *	1"	5" through 8"	1 3/4"	900	10	120.18
Cast 304 STAINLESS STEEL						
PT800SS	1"	5" through 8"	1 3/4"	6,000	10	119.07
PT825SS	1-1/4"	5" through 8"	2 1/4"	6,000	10	180.38
PT3000SS	2"	5 5/8" through 12"	3 1/8"	6,000	4	531.97







Well Caps - Cast Iron, Plastic



WC Series

HARVARD WC SERIES Cast Iron Watertight Well Cap Features:

- WC6 fits 6" and 6-1/4" I.D. 6 5/8" OD well casing.
- WC625 fits SDR27.6 6 1/4" ID PVC well casing, with 6.9" OD.
- 1" or 1 1/4" IPS conduit tap and factory installed screen vents.
- Heavy cast iron body. 20% heavier than any other comparable watertight well caps available.
- Wide rubber gasket provides positive watertight seal.
- Blue powder coat paint finish.
- Individually packaged. Includes all hardware.
- **All WC Series well caps are certified and approved watertight to PAS-97 (04) standards.**



LISTED PAS-97 (2012)
PITLESS ADAPTER STANDARD



WTC6

WTC6 Plastic Watertight Well Cap Features:

- Fits 6" ID, 6 1/4" ID, 6 5/8" OD well casing
- 1 1/4" IPS conduit tap.
- Hi-impact blue ABS plastic with UV inhibitors.
- Especially formulated for outdoor weatherability.
- Stainless steel bolts, washers and nuts are included.
- Factory installed screen vents.
- Made in USA. Patented



LISTED PAS-97 (2012)
PITLESS ADAPTER STANDARD



PWTC6

PSC Series

HARVARD Plastic Watertight Well Cap Features:

- PWTC6 Fits 6" and 6 1/4" ID, 6 5/8" OD well casing.
- PSC614 fits SDR27.6 6 1/4" ID PVC well casing with 6.9" OD.
- Gray, glass-filled thermoplastic with UV stabilizers.
- White ABS bottom casing seal for PSC Series.
- Especially formulated for outdoor weatherability.
- Stainless steel bolts, nuts included.
- Factory installed stainless steel vents. 1" conduit tap.
- Made in USA.



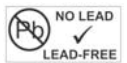
LISTED PAS-97 (2012)
PITLESS ADAPTER STANDARD



C56V

HARVARD C56V Cast Iron Multi-Size Well Cap Features :

- Heavy cast iron construction. 30% heavier than any other comparable cap available.
- Quick installation.
- Fits 5-5/8" and 6" well casing, Maximum 6 5/8" OD.
- 1" conduit opening.
- Blue finish for easy site location.
- Individually packaged. Includes bolts.



Part Number	Material	Nominal Well Casing	Maximum Casing OD	Conduit Tap	Master Ctn Qty	List Price
WC6	Cast Iron	6" and 6 1/4"	6 5/8"	1"	6	\$ 70.89
WC6-11/4	Cast Iron	6" and 6 1/4"	6 5/8"	1 1/4"	6	86.79
WC625	Cast Iron	6 1/4" SDR27.6 PVC	6.9"	1"	6	70.89
WC625-11/4	Cast Iron	6 1/4" SDR27.6 PVC	6.9"	1 1/4"	6	83.39
WTC6	ABS Plastic	6" and 6 1/4"	6 5/8"	1 1/4"	1	64.96
PWTC6	Thermoplastic	6" and 6 1/4"	6 5/8"	1"	8	43.59
PSC5	Thermoplastic	5"	5 9/16"	1"	12	38.45
PSC614	Thermoplastic	6 1/4" SDR27.6 PVC	6.9"	1"	12	35.54
C56V	Cast Iron	5-5/8" , 6" , 6 1/4"	6 5/8"	1"	6	30.00

Custom personalization of the caps above is available. Self adhering, engraved brushed aluminum. Minimum of 24 of one size. One time set-up charge of \$10.00. Allow 2-3 weeks for delivery.

Well Caps - Cast Aluminum



AWTC Series



AWTC-T Series



SC Series



C Series

AWTC-Series Watertight Vermin- Proof Cap Features:

- Cast aluminum for strength and weather resistance.
- All stainless bolts and ground screws.
- Molded 3/16" gasket.

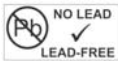
SC-Series Watertight Cap Features:

- For use on plastic casing only.
- Injection molded ABS & grade 319 aluminum, can be solvent welded directly to PVC well casing.
- Stainless steel nuts, bolts & screened vents.
- All SC Series well caps are certified and approved watertight to PAS-97 Standards.

C-Series Standard Conduit Cap Features:

- For use on steel or plastic casing.
- Stainless steel set screws.

Custom personalization available - minimum of 48 of one size. Add "P" suffix. fo part number. One time set-up charge of \$20.00. Allow 2-3 weeks for delivery.



Part Number	Nominal Well Casing Size	Casing O.D.	Conduit Conn.	Vent Size	Weight	Ctn Qty	List Price
Aluminum Watertight Vermin-Proof Well Cap							
AWTC4	4"	4 1/2"	1"	1"	2.2	25	\$ 89.36
AWTC45 ☺	4 1/2"	5"	1"	1"	2.7	20	121.39
AWTC5	5"	5 9/16"	1"	1"	2.4	20	107.90
AWTC55 ☺	5 1/2"	6"	1"	1"	3.1	15	133.44
AWTC6	6"	6 5/8"	1 1/4"	1"	2.8	15	113.15
AWTC7 ☺	6 1/2"	7"	1 1/4"	1"	3.1	13	157.29
AWTC8	8"	8 5/8"	1 1/4"	1"	4.3	1	234.85
AWTC10	10"	10 3/4"	2"	1" (2)	9.0	1	748.85
AWTC12	12"	12 3/4"	2"	1" (2)	11.0	1	1405.10
☺ Fits Whitewater pitless units							
Aluminum Watertight Vermin-Proof Well Cap w/ 1-1/4" Top Tap for use w/ pellet chlorinators							
AWTC45T ☺	4 1/2"	5"	1"	1"	2.7	20	141.46
AWTC55T ☺	5 1/2"	6"	1"	1"	3.1	15	153.40
AWTC6T	6"	6 5/8"	1 1/4"	1"	2.8	15	133.29
AWTC8T	8"	8 5/8"	1 1/4"	1"	4.3	1	256.28
☺ Fits Whitewater pitless units							
Aluminum/ABS Combination Watertight Well Cap							
SC4	4"	4 1/2"	1"		1.5	12	47.49
SC45	4 1/2"	4.95"	1"		1.7	15	56.63
SC5	5"	5 9/16"	1"		2.3	10	64.50
SC6	6"	6 5/8"	1"		2.5	8	69.18
SC614	6 1/4"(SDR27.6)	6.9"	1"		2.5	12	66.03
Standard Ventilated Cap with Conduit Opening							
C4	4"	4 1/2"	3/4"		1.6	25	44.68
C5	5"	5 9/16"	3/4"		2.0	15	64.07
C6	6"	6 5/8"	3/4"		2.3	15	68.68
C7	7"	7 5/8"	1"		2.9	15	101.15
C8	8"	8 5/8"	1"		3.4	1	107.57





ABS Well Seals



PSWS

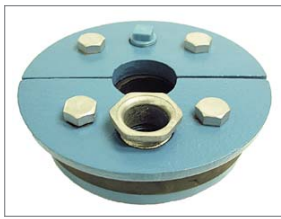


PSWS and PJWS Series Features:

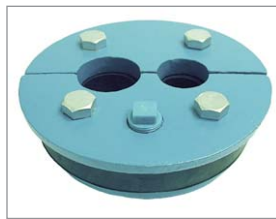
- Well seals are molded from high impact ABS for extra strength.
- Exclusive design of **extra thick (1-1/4") PVC gland** enables the sanitary sealing of a wide range of casing sizes.
- Zinc plated steel bolts.

Part Number	Fits Well Casing ID	Well Casing ID Size Range	Drop Pipe Size	Conduit Tap IPS	Vent Tap IPS	Weight	Ctn Qty	List Price
Single Hole								
PSWS2x1	2"	2"	1"	--	--	.25 lbs	50	\$ 18.02
PSWS4xBLANK	4"	4 - 4 1/4"	blank	3/4"	3/8"	1.5 lbs.	10	27.21
PSWS4x1	4"	4 - 4 1/4"	1"	3/4"	1/2"	1.5 lbs.	10	27.21
PSWS4x11/4	4"	4 - 4 1/4"	1 1/4"	3/4"	1/2"	1.5 lbs.	10	27.21
PSWS4x11/2	4"	4 - 4 1/4"	1 1/2"	3/4"	1/2"	1.5 lbs.	10	27.21
PSWS4x2	4"	4 - 4 1/4"	2"	3/8"	1/4"	1.5 lbs.	10	27.21
PSWS41/2x1	4 1/2"	4 3/8 - 4 7/8"	1"	3/4"	1/2"	1.75 lbs.	10	30.24
PSWS41/2x11/4	4 1/2"	4 3/8 - 4 7/8"	1 1/4"	3/4"	1/2"	1.75 lbs.	10	30.24
PSWS5xBLANK	5"	4 7/8 - 5 1/4"	blank	3/4"	1/2"	2.0 lbs.	10	41.18
PSWS5x1	5"	4 7/8 - 5 1/4"	1"	3/4"	1/2"	2.0 lbs.	10	41.18
PSWS5x11/4	5"	4 7/8 - 5 1/4"	1 1/4"	3/4"	1/2"	2.0 lbs.	10	41.18
PSWS5x11/2	5"	4 7/8 - 5 1/4"	1 1/2"	3/4"	1/2"	2.0 lbs.	10	41.18
PSWS5x2	5"	4 7/8 - 5 1/4"	2"	3/4"	1/2"	2.0 lbs.	10	41.18
PSWS51/2xBLANK	5 1/2"	5 3/8 - 5 7/8"	blank	3/4"	1/2"	2.25 lbs.	10	43.10
PSWS51/2x1	5 1/2"	5 3/8 - 5 7/8"	1"	3/4"	1/2"	2.25 lbs.	10	43.10
PSWS51/2x11/4	5 1/2"	5 3/8 - 5 7/8"	1 1/4"	3/4"	1/2"	2.25 lbs.	10	43.10
PSWS51/2x11/2	5 1/2"	5 3/8 - 5 7/8"	1 1/2"	3/4"	1/2"	2.25 lbs.	10	43.10
PSWS6xBLANK	6"	5 7/8 - 6 1/4"	blank	3/4"	1/2"	3.0 lbs.	10	40.10
PSWS6x1	6"	5 7/8 - 6 1/4"	1"	3/4"	1/2"	3.0 lbs.	10	40.10
PSWS6x11/4	6"	5 7/8 - 6 1/4"	1 1/4"	3/4"	1/2"	3.0 lbs.	10	40.10
PSWS6x11/2	6"	5 7/8 - 6 1/4"	1 1/2"	3/4"	1/2"	3.0 lbs.	10	40.10
PSWS6x2	6"	5 7/8 - 6 1/4"	2"	3/4"	1/2"	3.0 lbs.	10	40.10
PSWS61/4xBLANK	6 1/4"	6 1/4 - 6 1/2"	blank	3/4"	1/2"	3.25 lbs.	10	41.18
PSWS61/4x1	6 1/4"	6 1/4 - 6 1/2"	1"	3/4"	1/2"	3.25 lbs.	10	41.18
PSWS61/4x11/4	6 1/4"	6 1/4 - 6 1/2"	1 1/4"	3/4"	1/2"	3.25 lbs.	10	41.18
PSWS61/4x11/2	6 1/4"	6 1/4 - 6 1/2"	1 1/2"	3/4"	1/2"	3.25 lbs.	10	41.18
PSWS61/4x2	6 1/4"	6 1/4 - 6 1/2"	2"	3/4"	1/2"	3.25 lbs.	10	41.18
PSWS8x1	8"	8 - 8 1/4"	1"	1"	1/2"	5.0 lbs.	6	52.68
PSWS8x11/4	8"	8 - 8 1/4"	1 1/4"	1"	1/2"	5.0 lbs.	6	52.68
PSWS8x2	8"	8 - 8 1/4"	2"	1"	1/2"	5.0 lbs.	6	52.68
Double Hole								
PJWS4x1x11/4	4"	4 - 4 1/4"	1x1 1/4"	n/a	1/2"	1.5 lbs.	10	27.21
PJWS5x1x11/4	5"	4 7/8 - 5 1/4"	1x1 1/4"	n/a	1/2"	2.0 lbs.	10	39.91
PJWS51/2x1x11/4	5 5/8"	5 3/8 - 5 7/8"	1x1 1/4"	n/a	1/2"	2.5 lbs	10	40.93
PJWS6x1x11/4	6"	5 7/8 - 6 1/4"	1x1 1/4"	n/a	1/2"	3.0 lbs.	10	42.27
PJWS61/4x1x11/4	6 1/4"	6 1/4 - 6 3/8"	1x1 1/4"	n/a	1/2"	3.25 lbs.	10	41.18

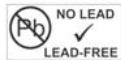
Cast Iron Well Seals - Import, Submersible & Jet



SWS Series



JWS Series



Cast Iron Well Seal for Submersible & Jet Pumps Features:

- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Complete with electrical conduit kit and plug for SWS and plastic plugs for JWS series.
- Individually cartoned.
- Imported.

Part Number	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty	List Price
Single Drop Pipe, SPLIT TOP, for submersible pumps (* Fits outside of well casing)						
SWS2X1	2"	1"	-	1/8"	50	\$ 20.03
SWS2X11/4 *	2"	1 1/4"	-	1/8"	12	27.49
SWS3X1	3"	1"	3/8"	1/8"	16	21.65
SWS3X11/4	3"	1 1/4"	(2) 5/16" drilled	1/8"	16	21.65
SWS4X1	4"	1"	3/4"	1/2"	12	26.61
SWS4X11/4	4"	1 1/4"	3/4"	1/2"	12	26.61
SWS4X11/4S	4"	1 1/4" center	3/4"	1/4"	12	26.61
SWS4X11/2	4"	1 1/2"	3/4"	1/4"	12	26.61
SWS4X2	4"	2"	1/2"	1/4"	12	26.61
SWS4X2 SOLID	4"	2"	3/4"	1/2"	12	26.61
SWS41/4X1	4 1/4"	1"	3/4"	1/2"	12	26.61
SWS41/4X11/4	4 1/4"	1 1/4"	3/4"	1/2"	12	26.61
SWS5X1	5"	1"	1"	1/2"	6	39.86
SWS5X11/4	5"	1 1/4"	1"	1/2"	6	39.86
SWS5X2	5"	2"	3/4"	1/2"	6	39.86
SWS55/8X1	5 5/8"	1"	3/4"	1/2"	6	49.59
SWS6X1	6"	1"	1"	1/2"	6	50.54
SWS6X11/4	6"	1 1/4"	1"	1/2"	6	50.54
SWS6X11/2	6"	1 1/2"	1"	1/2"	6	50.54
SWS6X2	6"	2"	1"	1/2"	6	50.54
SWS6X3 SOLID	6"	3"	1"	1/2"	6	50.54
SWS6BLANK	6"	-	-	-	6	53.24
SWS61/4X1	6 1/4"	1"	1"	1/2"	6	53.24
SWS61/4X11/4	6 1/4"	1 1/4"	1"	1/2"	6	53.24
Two Hole Drop Pipe, SPLIT TOP, for jet pumps						
JWS3X1X3/4	3"	1" X 3/4"		1/8"	16	17.73
JWS4x11/4x1	4"	1 1/4" x 1"		1/2"	12	26.61
JWS5x11/4X1	5"	1 1/4" X 1"		1/2"	6	39.86
JWS55/8X11/4X1	5 5/8"	1 1/4" X 1"		1/2"	6	49.59
JWS6x11/4x1	6"	1 1/4" x 1"		1/2"	6	50.54
JWS61/4x11/4x1	6 1/4"	1 1/4" x 1"		1/2"	6	53.24



Drive Shoes

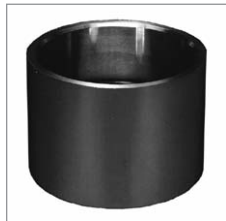


Drive Shoe Features:

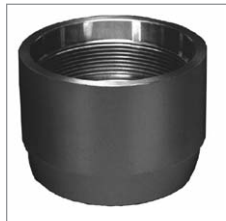
- Alloy grade seamless stock.
- Special process to strengthen the material before heat treating.
- All drive shoes are heat treated.
- All drive tips are flame hardened for superior driving strength.
- All drive shoes are tested for dimensional accuracy and tip hardness.
- Baked on phosphate coating to protect from corrosion.
- Cable and Rotary style.
- Weld-on and threaded.



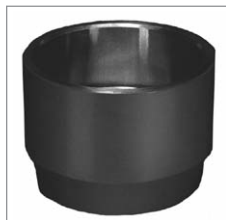
7000 Series



7055 Series



7005 Series

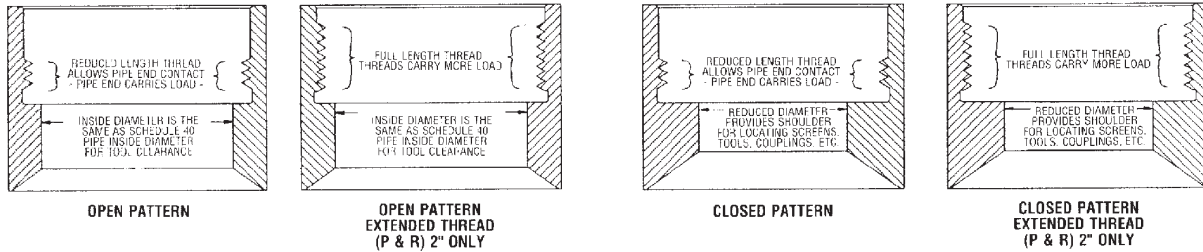


7007 Series

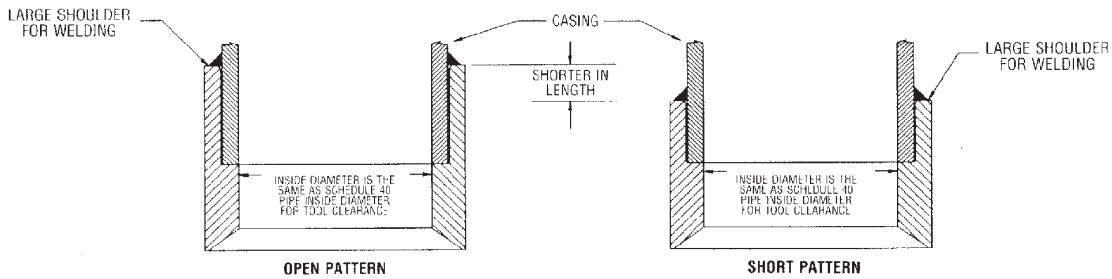
Part Number	Nominal Pipe Size	Description	Ctn Qty	List Price
421 Series Threaded Cable Tool Style				
7000A	2"	421 Open Pattern	25	\$ 35.11
7000D	2"	421 Closed Pattern, extended threads (P&R)	28	28.89↓
7000E	3"	421 Open Pattern	12	60.72
7000G	4"	421 Open Pattern	8	58.83
7000GL	4"	421 Open Pattern, THIN WALL	8	48.57↓
7000J	5"	421 Open Pattern	4	82.86
7000K	6"	421 Open Pattern	4	123.81
7000N	6"	421 Short Pattern	4	110.00↓
7059X	8"	421 Open Pattern	1	167.41↓
421W Series Weld-On Cable Tool Style				
7055E	3"	421W Open Pattern	12	52.43
7055G	4"	421W Open Pattern	8	48.57↓
7055GL	4"	421W Open Pattern, THIN WALL	8	48.57↓
7055J	5"	421W Open Pattern	4	114.58
7055K	6"	421W Open Pattern	4	123.81↓
7055R	6"	421W Short Pattern	4	122.20
7055M	8"	421W Open Pattern	1	380.72
7055N	10"	421W Open Pattern	1	952.70
421R Series Threaded Rotary Style				
7005A	4"	421R Open Pattern	8	75.97
7005B	5"	421R Open Pattern	4	84.19
7005C	6"	421R Open Pattern	4	112.25
7005H	6"	421R Short Pattern	4	112.25
421 RW Series Weld-on Rotary Style				
7007A	4"	421RW Open Pattern	8	55.51
7007C	6"	421RW Open Pattern	4	123.81



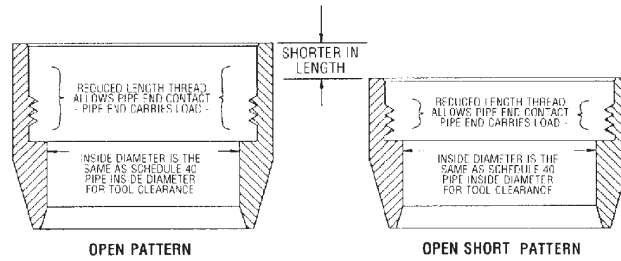
421 SERIES THREADED CABLE TOOL STYLE



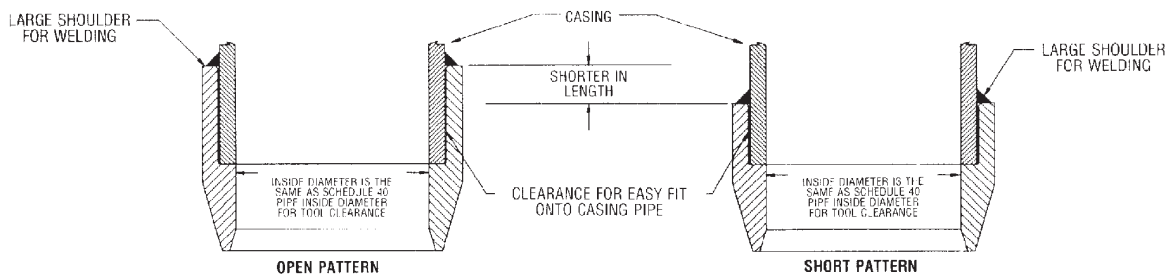
421W SERIES WELD-ON CABLE TOOL STYLE



421R SERIES THREADED ROTARY STYLE



421RW SERIES WELD-ON ROTARY STYLE





Pitcher Pump



HPP10

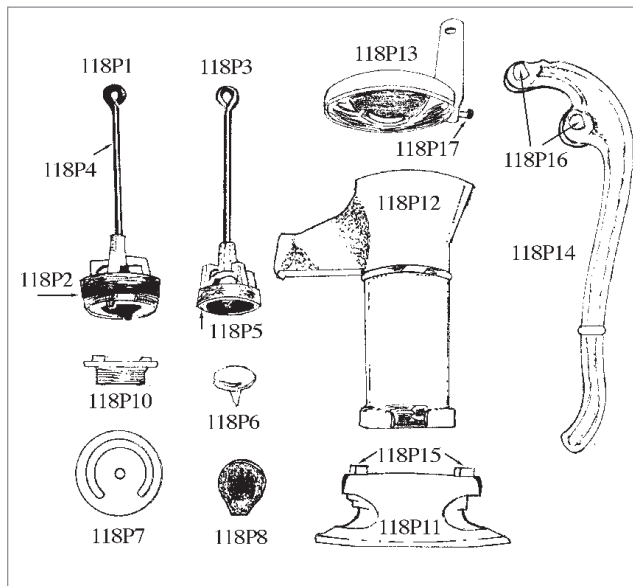


Pitcher Pump Features:

- Recommended for shallow pump applications – depth rating up to 30'.
- Easily installed.
- Made of heavy cast iron.
- Dark green hard enamel paint finish.
- Has open spout.
- 15-3/4" high.
- Tapped for 1-1/4" drop pipe.
- 15 lbs.
- Pumps are individually packaged 4 per master carton.
- Parts are carton qty 1.

Part Number	Description	Master Ctn Qty	List Price
HPP10	Pitcher Pump, Cast Iron, Size #2	4	\$ 118.75

PITCHER PUMP REPLACEMENT PARTS



Part Number	Description	List Price
118P1	Complete Plunger Assembly (includes *)	36.98
118P2 *	Cup Leather for Plunger only	13.89
118P3	Plunger Rod and Cage (no cup leather)	14.26
118P4 *	Plunger Rod	7.34
118P5 *	Plunger Cage	9.15
118P6 *	Plunger Weight	5.03
118P7	Flat Leather for Base Valve	10.02
118P8	Weight and Screw for Flat Valve	6.54
118P9	Flat Valve Leather and Weight	15.99
118P10 *	Threaded Nut for Plunger Cage	10.60
118P11	Pump Base with Bolts (118P15)	34.10
118P12	Pump Cylinder	38.79
118P13	Pump Top with Set Screw (118P17)	17.48
118P14	Pump Handle with Two Bolts (118P16)	29.34
118P15	3/8 x1-1/4 Bolts for Pump Base	12.62
118P16	3/8 x 2 bolts for Pump Handle	4.46
118P17	Set Screw for Pump Top	3.81





Cylinders - All Brass



449 B



Replacement Parts

449B ALL BRASS Features:

- Corrosion resistant, all brass construction.
- Brass tubing offers a smooth working surface and extends the life of the leathers.
- Open top cylinder, threaded valves screw together for one-step removal.
- No need to pull cylinder to replace inner components.
- Reliable **BALL** plunger.
- Contains 707/45 series graphite leathers.

Part Number	Inside Diameter X Stroke (inches)	Barrel Length (inches)	Caps Tapped Pipe Size Top/Bottom (inches)	Size Rod in Plunger (inches)	Smallest Well Cylinder will enter (inches)	Capacity Per Stroke US Gallons	Cup Leather Sizing		List Price
							O.D. (inches)	Hole (inches)	
7037H	1-7/8 x 14	24	2 x 1-1/4	5/8	3	.1680	1-7/8	1-5/16	\$ 554.35
7037HNL	1-7/8 x 14	24	2 x 1-1/4	5/8	3	.1680	1-7/8	1-5/16	831.25
7037R	1-7/8 x 20	30	2 x 1-1/4	5/8	3	.2400	1-7/8	1-5/16	571.82
7037W	1-7/8 x 26	36	2 x 1-1/4	5/8	3	.3120	1-7/8	1-5/16	589.29
7037BA	2-1/4 x 13	24	2-1/2 x 1-1/2	7/8	3-1/2	.2237	2-1/4	1-1/2	598.61
7037GA	2-1/4 x 19	30	2-1/2 x 1-1/2	7/8	3-1/2	.3270	2-1/4	1-1/2	848.81
7037LA	2-1/4 x 25	36	2-1/2 x 1-1/2	7/8	3-1/2	.4303	2-1/4	1-1/2	965.11
7037UA	2-3/4 x 12	24	3 x 2	7/8	4-1/2	.3085	2-3/4	1-7/8	366.70↓
7037ZA	2-3/4 x 18	30	3 x 2	7/8	4-1/2	.4628	2-3/4	1-7/8	903.68
7037EB	2-3/4 x 24	36	3 x 2	7/8	4-1/2	.6171	2-3/4	1-7/8	1274.91

449B Replacement Parts			
	1-7/8" Part Number	2-1/4" Part Number	2-3/4" Part Number
Plunger assembly w/ leathers	8599A	8599C	8599E
Check assembly w/ leathers	8533C	8533D1	8533E1
Leather for Plunger (707/45) Qty 3	707-221 17/8"x1 5/16"	707-334 21/4x11/2	707-384 23/4x17/8
Leather for Check (702/41) Qty 1	702-216 17/8"x1 5/16"	702-334 21/4x11/2	702-384 23/4x17/8
Barrel Only (less caps) 24"	8334N	8334ZA	8334XC
Barrel Only (less caps) 30"	8334P	8334AB	8334YC
Barrel Only (less caps) 36"	8334R	8334BB	8334ZC
Top Cap	8015C	8015D	8015E
Bottom Cap	8042C	8042D	8042E

Ball Selection Chart 449B Plunger and Checks		
Part Number	Plunger & Check Ball Size	Cylinder I. D.
8546B	1-1/16"	1-7/8"
8546D	1-5/16"	2-1/4"
8546E	1-11/16"	2-3/4"

NOTE: PLEASE SEE PAGES 77-79 FOR REPLACEMENT PART PRICING



In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (866) 503-5523 Fax (888) 562-2095

www.americangranby.com

1/15/13

1.73

Cylinders - All Brass



442

442 ALL BRASS Features:



CLAYTON MARK®

- All brass plunger, plain poppet and two leathers.
- Closed flush cap, recommended for all types of working heads and small diameter, shallow wells.
- Perma-Kleen®, Buna N rubber check poppet facing for smooth, quiet operation and tight seal.
- Clearance of two inches is provided between plunger and check.
- Contains 711/44 Series waterproof leathers.
- "NL" designates NO LEAD.

Part Number	Inside Diameter x Stroke (inches)	Barrel Length (inches)	Caps Tapped Pipe Size Top/Bottom (inches)	Size Rod in Plunger (inches)	Well Cylinder will enter (inches)	Smallest Capacity Per Stroke US Gallons	Cup Leather Sizing O.D. (inches)	Hole (inches)	List Price
7027A	1-11/16 x 8	16	1 x 1	7/16	2	.0768	1-11/16	1-3/16	\$ 273.09
7027B	1-11/16 x 10	16	1 x 1	7/16	2	.0960	1-11/16	1-3/16	385.67
7027M	1-11/16 x 12	20	1 x 1	7/16	2	.1152	1-11/16	1-3/16	404.95
7027C	1-13/16 x 8	16	1 x 1	7/16	2	.0896	1-13/16	1-3/16	287.17
7027D	1-13/16 x 10	18	1 x 1	7/16	2	.1120	1-13/16	1-3/16	323.05
7027DNL	1-13/16 x 10	18	1 x 1	7/16	2	.1120	1-13/16	1-3/16	480.94
7027D3NL	1-13/16 x 12	20	1 x 1	7/16	2	.1344	1-13/16	1-3/16	461.44
7027E	2 x 8	16	1 1/4 x 1 1/4	7/16	2-1/2	.1088	2	1-5/16	306.11
7027F	2 x 10	18	1 1/4 x 1 1/4	7/16	2-1/2	.1360	2	1-5/16	432.09
7027FNL	2 x 10	18	1 1/4 x 1 1/4	7/16	2-1/2	.1360	2	1-5/16	550.93
7027F1	2 x 12	20	1 1/4 x 1 1/4	7/16	2-1/2	.1632	2	1-5/16	468.83
7027H	2-1/4 x 8	16	1 1/4 x 1 1/4	7/16	3	.1377	2-1/4	1-3/8	424.24
7027J	2-1/4 x 10	18	1 1/4 x 1 1/4	7/16	3	.1721	2-1/4	1-3/8	502.52
7027JNL	2-1/4 x 10	18	1 1/4 x 1 1/4	7/16	3	.1721	2-1/4	1-3/8	748.82
7027DANL	2-1/4 x 10	18	1 1/2 x 1 1/4	7/16	3	.1721	2-1/4	1-3/8	748.39
7027P2	2-1/4 x 12	20	1 1/4 x 1 1/4	7/16	3	.2071	2-1/4	1-3/8	362.72
7027P2NL	2-1/4 x 12	20	1 1/4 x 1 1/4	7/16	3	.2071	2-1/4	1-3/8	791.99
7027S3	2-1/2 x 8	18	1 1/4 x 1 1/4	7/16	3	.1700	2-1/2	1-5/8	382.04
7027L	2-1/2 x 10	20	1 1/4 x 1 1/4	7/16	3	.2125	2-1/2	1-5/8	637.35
7027LNL	2-1/2 x 10	20	1 1/4 x 1 1/4	7/16	3	.2125	2-1/2	1-5/8	907.69
7027T	2-1/2 x 10	20	1 1/2 x 1 1/4	7/16	3	.2125	2-1/2	1-5/8	600.41
7027T1	2-1/2 x 12	22	1 1/4 x 1 1/4	7/16	3	.2550	2-1/2	1-5/8	669.22
7027FA3NL	3 x 10	20	1 1/4 x 1 1/4	7/16	3-1/2	.3060	3	2-1/8	1128.61
7027UNL	3 x 10	20	2 x 1 1/4	7/16	3-1/2	.3060	3	2-1/8	1155.39
7027FA4	3 x 12	22	1 1/4 x 1 1/4	7/16	3-1/2	.3672	2	2-1/8	885.48

442 Replacement Parts Description	1-11/16" Part Number	1-13/16" Part Number	2" Part Number	2-1/4" Part Number	2-1/2" Part Number	3" Part Number
Plunger Assembly w/ leather	8522A	8522B	8522CNL	8522D	8522F/8522FNL	8522J
Bottom Cap Check assembly	8853U	8853V	8853W	8853X	8853Z	8853DA
Plunger Poppet	8099B	8099B	8099C	8099D	8099E	8099G
Check Poppet w/Facing	8854A	8854BNL	8854C	8854D	8854D	8854G
Leather for Plunger (711/44)	711-151	711-198	711-264	711-333	711-358	711-638
2 each required	1-11/16x1-3/16	1-13/16x1-3/16	2x1-5/16	2-1/4x1-3/8	2-1/2x1-5/8	3x2-1/8
Top Caps (tapping) 1"	8248B	8248D	--	--	--	--
Top Caps (tapping) 1-1/4"	--	--	8248E	8248G	8248J	8248R
Top Caps (tapping) 1-1/2"	--	--	--	8248H	8248K	--
Top Caps (tapping) 2"	--	--	--	--	--	8248T
Barrel Only 16"	8333H	8333JA	8333DB	8333ZB	--	--
Barrel Only 18"	8333D	8333LA	8333FB	8333BC	8333NC	--
Barrel Only 20"	8333R	8333NA	8333HB	8333DC	8333PC	8333ND
Barrel Only 22"	--	--	--	--	8333RC	8333PD

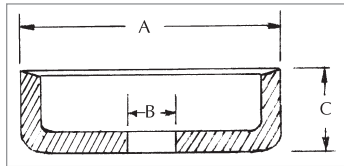
NOTE: PLEASE SEE PAGE 77-79 FOR REPLACEMENT PART PRICING.



Cup Leathers



702/41

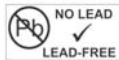


CLAYTON MARK®

702/41 Universal Features:

- Untreated economy leathers.
- Flesh side out.
- Used for open type hand pumps (pitcher pumps), jet packers and on any application calling for a stationary seal.
- Made in USA.

ORDER IN TUBE QUANTITY ONLY



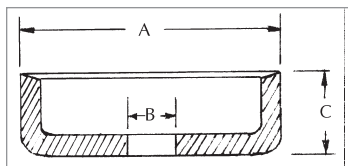
NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
702/41 Universal							
702-022	L101000006	702/41	1"	3/8"	7/16"	12	\$ 5.61
702-048	L101020006	702/41	1-1/8"	3/8"	1/2"	12	6.20
702-061	L101040006	702/41	1-1/4"	3/8"	1/2"	12	6.20
702-063	L101040008	702/41	1-1/4"	1/2"	1/2"	12	6.20
702-095	L101060010	702/41	1 3/8"	5/8"		12	7.00
702-109	L101080006	702/41	1-1/2"	3/8"	5/8"	12	7.00
702-169	L101120010	702/41	1-3/4"	5/8"	11/16"	12	7.54
702-198	L101130103	702/41	1-13/16"	1-3/16"	3/4"	12	7.54
702-216	L101140105 *	702/41	1-7/8"	1-5/16"	3/4"	12	7.54
702-220	L101140104 **	702/41	1-7/8"	1-1/4"	3/4"	12	7.54
702-263	L102000104	702/41	2"	1-1/4"	3/4"	12	8.95
702-264	L102000105	702/41	2"	1-5/16"	3/4"	12	8.95
702-333	L102040106	702/41	2-1/4"	1-3/8"	3/4"	12	9.81
702-334	L102040108 *	702/41	2 1/4"	1 1/2"	3/4"	12	9.81
702-358	L102080110	702/41	2-1/2"	1-5/8"	13/16"	12	10.93
702-384	L102120114 *	702/41	2-3/4"	1-7/8"	13/16"	12	11.90
702-410	L103000200	702/41	3"	2"	13/16"	12	13.30
702-464	L103080208	702/41	3-1/2"	2-1/2"	1"	12	16.76
702-521	L104000300	702/41	4"	3"	1-1/16"	6	24.62
702-636	L106000408	702/41	6"	4 1/2"		6	81.33

* Standard Clayton Mark hole size
** Standard Midland hole size

Cup Leathers



704/46
Oil Fill



704/46 Oil Fill Features:



- Oak tanned leather and oil treated.
- Oil treatment waterproofs and retards swelling of leather inside cylinders.
- Reduces rod breakage or overloading motors.
- Oil treatment preserves leather insuring longer life.
- Flesh side out.
- Used in cylinders and piston pumps.
- Made in USA.

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
704/46 Oil Fill							
704-010	L600140002	704/46	7/8"	1/8"		12	\$ 5.61
704-044	L601100000	704/46	1-1/8"	-	1/2"	12	6.20
704-048	L601020006	704/46	1-1/8"	3/8"	1/2"	12	6.20
704-092	L601060006	704/46	1-3/8"	3/8"	5/8"	12	7.00
704-105	L601080000	704/46	1 1/2"	SOLID	5/8"	12	7.00
704-109	L601080006	704/46	1-1/2"	3/8"	5/8"	12	7.00
704-198	L601130103	704/46	1-13/16"	1-3/16"	3/4"	12	7.54
704-220	L601140104 **	704/46	1-7/8"	1-1/4"	3/4"	12	7.54
704-255	L602000010	704/46	2"	5/8"	3/4"	12	8.95
704-264	L602000105	704/46	2"	1-5/16"	3/4"	12	8.95
704-333	L602040106	704/46	2-1/4"	1-3/8"	3/4"	12	9.81
704-334	L602040108 *	704/46	2-1/4"	1-1/2"		12	9.81
704-354	L602080104	704/46	2-1/2"	1-1/4"		12	10.93
704-358	L602080110	704/46	2-1/2"	1-5/8"	13/16"	12	10.93
704-384	L602120114 *	704/46	2-3/4"	1-7/8"	13/16"	12	11.90
704-409	L603000105	704/46	3"	1-7/8"		12	13.25
704-410	L603000200	704/46	3"	2"	13/16"	12	13.25
704-464	L603080208	704/46	3-1/2"	2-1/2"	1"	12	16.76
704-521	L604000300	704/46	4"	3"	1-11/16"	6	24.62

* Standard Clayton Mark hole size
** Standard Midland hole size



Cup Leathers



706/42 Black Perfection Features:

- Hard, high-polished black finish leather
- Hair side out.
- Used for deep well cylinders as well as developing & testing new wells.
- Made in USA.



CLAYTON MARK®



ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	C Height	Tube Qty	List Price
706/42 Black Perfection							
706-022	L201000006	706/42	1	3/8"	7/16"	12	\$ 5.61
706-063	L201040008	706/42	1-1/4"	1/2"	1/2"	12	6.20
706-064	L201040010	706/42	1 1/4"	5/8"	1/2"	12	6.20
706-073	L201050002	706/42	1 5/16"	1/8"		12	6.20
706-095	L201060010	706/42	1-3/8"	5/8"	5/8"	12	7.00
706-105	L201080000	706/42	1-1/2"	-	5/8"	12	7.00
706-112	L201080010	706/42	1-1/2"	5/8"	5/8"	12	6.79
706-127	L201100006	706/42	1-5/8"	3/8"	5/8"	12	7.00
706-155	L201110102	706/42	1-11/16"	1-1/8"	5/8"	12	7.54
706-166	L201120006	706/42	1 3/4"	3/8"		12	7.54
706-175	L201120102	706/42	1-3/4"	1-1/8"	11/16"	12	7.54
706-198	L201130103	706/42	1-13/16"	1-3/16"	3/4"	12	7.54
706-219	L201140103	706/42	1-7/8"	1-3/16"	3/4"	12	7.54
706-220	L201140104 **	706/42	1-7/8"	1-1/4"	3/4"	12	7.54
706-221	L201140105 *	706/42	1-7/8"	1-5/16"	3/4"	12	7.54
706-255	L202000010	706/42	2"	5/8"	3/4"	12	8.95
706-262	L202000103	706/42	2"	1-3/16"	3/4"	12	8.95
706-263	L202000104	706/42	2"	1-1/4"	3/4"	12	8.95
706-264	L202000105	706/42	2"	1-5/16"	3/4"	12	8.95
706-285	L202010104	706/42	2-1/16"	1-1/4"	3/4"	12	9.81
706-286	L202010105	706/42	2-1/16"	1-5/16"	3/4"	12	9.81
706-308	L202020104	706/42	2-1/8"	1-1/4"	3/4"	12	9.81
706-310	L202020106	706/42	2-1/8"	1-3/8"	3/4"	12	9.81
706-333	L202040106	706/42	2-1/4"	1-3/8"	3/4"	12	9.81
706-334	L202040108 *	706/42	2-1/4"	1-1/2"	3/4"	12	9.81
706-335	L202040110	706/42	2-1/4"	1-5/8"	3/4"	12	9.81
706-345	L202080008	706/42	2-1/2"	1/2"		12	10.93
706-358	L202080110	706/42	2-1/2"	1-5/8"	13/16"	12	10.93
706-359	L202080111	706/42	2-1/2"	1-11/16"	13/16"	12	10.93
706-360	L202080114	706/42	2-1/2"	1-7/8"	13/16"	12	10.93
706-384	L202120114 *	706/42	2-3/4"	1-7/8"	13/16"	12	11.90
706-409	L203000114	706/42	3"	1-7/8"	13/16"	12	13.30
706-410	L203000200	706/42	3"	2"	13/16"	12	13.30
706-435	L203010114	706/42	3 1/16"	1 7/8"		12	15.50
706-436	L203010200	706/42	3-1/16"	2"		12	15.50
706-464	L203080208	706/42	3-1/2"	2-1/2"	1"	12	16.76
706-492	L203120210	706/42	3-3/4"	2-5/8"	1"	12	21.11
706-520	L204000212	706/42	4"	2-3/4"	1-1/16"	6	24.62
706-521	L204000300	706/42	4"	3"	1-1/16"	6	24.62

* Standard Clayton Mark hole size
** Standard Midland hole size



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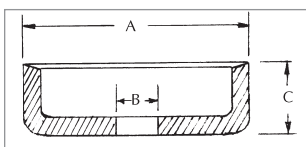
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Cup Leathers



707/45
Graphite



707/45 Graphite Features:

- Selected from the center of hides.
- Flesh side out.
- Graphite coating prevents fast absorption of water and acts as a lubricant to reduce binding of the plunger in the cylinder.
- Made in USA.



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NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
707/45 Graphite							
707-061	L501040006	707/45	1-1/4"	3/8"	1/2"	12	\$ 6.20
707-063	L501040008	707/45	1-1/4"	1/2"	1/2"	12	6.20
707-064	L501040010	707/45	1-1/4"	5/8"	1/2"	12	6.20
707-092	L501060006	707/45	1-3/8"	3/8"	5/8"	12	7.00
707-095	L501060010	707/45	1-3/8"	5/8"	5/8"	12	7.00
707-109	L501080006	707/45	1-1/2"	3/8"	5/8"	12	7.00
707-112	L501080010	707/45	1-1/2"	5/8"	5/8"	12	7.00
707-130	L501100010	707/45	1-5/8"	5/8"		12	7.00
707-149	L501110010	707/45	1-11/16"	5/8"		12	7.54
707-175	L501120102	707/45	1-3/4"	1-1/8"		12	7.54
707-198	L501130103	707/45	1-13/16"	1-3/16"	3/4"	12	7.54
707-215	L501140114	707/45	1-7/8"	7/8"	3/4"	12	7.54
707-220	L501140104 **	707/45	1-7/8"	1-1/4"	3/4"	12	7.54
707-221	L501140105 *	707/45	1-7/8"	1-5/16"	3/4"	12	7.54
707-255	L502000010	707/45	2"	5/8"	3/4"	12	8.95
707-264	L502000105	707/45	2"	1-5/16"	3/4"	12	8.95
707-286	L502010105	707/45	2-1/16"	1-5/16"	3/4"	12	9.81
707-300	L502020010	707/45	2-1/8"	5/8"	3/4"	12	9.81
707-333	L502040106	707/45	2-1/4"	1-3/8"	3/4"	12	9.81
707-334	L502040108 *	707/45	2-1/4"	1-1/2"	3/4"	12	9.81
707-639	L502060108	707/45	2 3/8"	1 1/2"	3/4"	12	10.93
707-357	L502080108	707/45	2-1/2"	1-1/2"	3/4"	12	10.93
707-358	L502080110	707/45	2-1/2"	1-5/8"	13/16"	12	10.93
707-359	L502080111	707/45	2-1/2"	1-11/16"	13/16"	12	10.93
707-384	L502120114 *	707/45	2-3/4"	1-7/8"	13/16"	12	11.90
707-410	L503000200	707/45	3"	2"	13/16"	12	13.25
707-436	L503010200	707/45	3 1/16"	2"		12	15.50
707-464	L503080208	707/45	3-1/2"	2-1/2"	1"	12	16.76
707-492	L503120210	707/45	3-3/4"	2-5/8"	1"	12	21.11
707-520	L504000212	707/45	4"	2-3/4"		6	24.62
707-521	L504000300	707/45	4"	3"	1-1/16"	6	24.62
707-615	L506000010	707/45	6"	5/8"		6	81.33

* Standard Clayton Mark hole size
** Standard Midland hole size

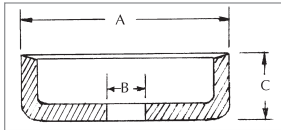




Cup Leathers



**711/44
Waterproof**



711/44 Waterproof Features:

- Soft, pliable waterproof.
- Hair side out.
- For use on piston pumps, shallow setting brass-cylinder barrels, air pumps and other applications where minimum water absorption and swelling is desired.
- Made in USA.



CLAYTON MARK®

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty	List Price
711/44 Waterproof							
711-021	L401000004	711/44	1"	1/4"	7/16"	12	\$ 5.61
711-022	L401000006	711/44	1"	3/8"	7/16"	12	5.61
711-024	L401000008	711/44	1"	1/2"	7/16"	12	5.61
711-037	L401010010	711/44	1-1/16"	5/8"		12	6.20
711-048	L401020006	711/44	1-1/8"	3/8"	1/2"	12	6.20
711-050	L401020008	711/44	1-1/8"	1/2"	1/2"	12	6.20
711-057	L401040000	711/44	1 1/4"	-	1/2"	12	6.20
711-061	L401040006	711/44	1-1/4"	3/8"	1/2"	12	6.20
711-062	L401040007	711/44	1-1/4"	7/16"	1/2"	12	6.20
711-063	L401040008	711/44	1-1/4"	1/2"	1/2"	12	6.20
711-064	L401040010	711/44	1-1/4"	5/8"		12	6.20
711-076	L401050006	711/44	1-5/16"	3/8"		12	7.00
711-078	L401050008	711/44	1-5/16"	1/2"		12	7.00
711-092	L401060006	711/44	1-3/8"	3/8"	5/8"	12	7.00
711-094	L401060008	711/44	1-3/8"	1/2"	5/8"	12	7.00
711-095	L401060010	711/44	1-3/8"	5/8"	5/8"	12	7.00
711-098	L401060014	711/44	1-3/8"	7/8"	5/8"	12	7.00
711-109	L401080006	711/44	1-1/2"	3/8"	5/8"	12	7.00
711-111	L401080008	711/44	1-1/2"	1/2"	5/8"	12	7.00
711-112	L401080010	711/44	1-1/2"	5/8"	5/8"	12	7.00
711-129	L401100008	711/44	1-5/8"	1/2"	5/8"	12	7.00
711-130	L401100010	711/44	1-5/8"	5/8"	5/8"	12	7.00
711-135	L401100100	711/44	1-5/8"	1"	5/8"	12	7.00
711-149	L401110010	711/44	1-11/16"	5/8"	5/8"	12	7.54
711-151	L401110103	711/44	1 11/16"	1 3/16"		12	7.54
711-154	L401110100	711/44	1-11/16"	1"	5/8"	12	7.54
711-155	L401110102	711/44	1-11/16"	1-1/8"	5/8"	12	7.54
711-169	L401120010	711/44	1-3/4"	5/8"	11/16"	12	7.54
711-174	L401120100	711/44	1 3/4"	1"	11/16"	12	7.54
711-175	L401120102	711/44	1-3/4"	1-1/8"	11/16"	12	7.54
711-192	L401130012	711/44	1-13/16"	3/4"		12	7.54
711-198	L401130103	711/44	1-13/16"	1-3/16"	3/4"	12	7.54
711-211	L401140008	711/44	1-7/8"	1/2"	3/4"	12	7.54
711-212	L401140010	711/44	1-7/8"	5/8"	3/4"	12	7.54
711-217	L401140100	711/44	1-7/8"	1"	3/4"	12	7.54
711-219	L401140103	711/44	1-7/8"	1-3/16"	3/4"	12	7.54
711-220	L401140104 **	711/44	1-7/8"	1-1/4"	3/4"	12	7.54
711-221	L401140105 *	711/44	1-7/8"	1-5/16"	3/4"	12	7.54

* Standard Clayton Mark hole size
** Standard Midland hole size



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Cup Leathers



711/44 Waterproof - continued.
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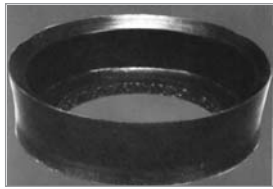
NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty	List Price
711/44 Waterproof - Continued							
711-233	L401150010	711/44	1-15/16"	5/8"	3/4"	12	\$ 8.95
711-240	L401150103	711/44	1-15/16"	1-3/16"	3/4"	12	8.95
711-242	L401150105	711/44	1-15/16"	1-5/16"	3/4"	12	8.95
711-248	L402000000	711/44	2"	SOLID	3/4"	12	8.95
711-254	L402000008	711/44	2"	1/2"	3/4"	12	8.95
711-255	L402000010	711/44	2"	5/8"	3/4"	12	8.95
711-259	L402000015	711/44	2"	15/16"	3/4"	12	8.95
711-262	L402000103	711/44	2"	1-3/16"	3/4"	12	8.95
711-263	L402000104	711/44	2"	1-1/4"	3/4"	12	8.95
711-264	L402000105	711/44	2"	1-5/16"	3/4"	12	8.95
711-267	L402000110	711/44	2"	1-5/8"	3/4"	12	8.95
711-277	L402010010	711/44	2-1/16"	5/8"	3/4"	12	9.81
711-284	L402010103	711/44	2-1/16"	1-3/16"	3/4"	12	9.81
711-285	L402010104	711/44	2-1/16"	1-1/4"	3/4"	12	9.81
711-286	L402010105	711/44	2-1/16"	1-5/16"	3/4"	12	9.81
711-300	L402020010	711/44	2-1/8"	5/8"	3/4"	12	9.81
711-308	L402020104	711/44	2-1/8"	1-1/4"	3/4"	12	9.81
711-316	L402040000	711/44	2 1/4"	SOLID	3/4"	12	9.81
711-323	L402040010	711/44	2-1/4"	5/8"	3/4"	12	9.81
711-331	L402040104	711/44	2-1/4"	1-1/4"	3/4"	12	9.81
711-332	L402040105	711/44	2-1/4"	1-5/16"	3/4"	12	9.81
711-333	L402040106	711/44	2-1/4"	1-3/8"	3/4"	12	9.81
711-334	L402040108 *	711/44	2-1/4"	1-1/2"	3/4"	12	9.81
711-335	L402040110	711/44	2-1/4"	1-5/8"	3/4"	12	9.81
711-339	L402080000	711/44	2-1/2"	SOLID	13/16"	12	10.93
711-346	L402080010	711/44	2-1/2"	5/8"	13/16"	12	10.93
711-354	L402080104	711/44	2-1/2"	1-1/4"	13/16"	12	10.93
711-355	L402080105	711/44	2-1/2"	1-5/16"	13/16"	12	10.93
711-356	L402080106	711/44	2-1/2"	1-3/8"	13/16"	12	10.93
711-357	L402080108	711/44	2-1/2"	1-1/2"	13/16"	12	10.93
711-358	L402080110	711/44	2-1/2"	1-5/8"	13/16"	12	10.93
711-359	L402080111	711/44	2-1/2"	1-11/16"	13/16"	12	10.93
711-384	L402120114 *	711/44	2-3/4"	1-7/8"	13/16"	12	11.90
711-637	L402140114	711/44	2-7/8"	1-7/8"	13/16"	12	11.90
711-406	L403000108	711/44	3"	1-1/2"	13/16"	12	13.30
711-409	L403000114	711/44	3"	1-7/8"	13/16"	12	13.30
711-410	L403000200	711/44	3"	2"	13/16"	12	13.30
711-638	L403000202	711/44	3"	2 1/8"	13/16"	12	13.25
711-435	L403010114	711/44	3-1/16"	1-7/8"	13/16"	12	15.50
711-436	L403010200	711/44	3-1/16"	2"	13/16"	12	15.50
711-464	L403080208	711/44	3-1/2"	2-1/2"	1"	12	16.76
711-492	L403120210	711/44	3-3/4"	2-5/8"	1"	12	21.11
711-495	L404000000	711/44	4"	SOLID	1-1/16"	6	24.62
711-518	L404000208	711/44	4"	2-1/2"	1-1/16"	6	24.62
711-520	L404000212	711/44	4"	2-3/4"	1-1/16"	6	24.62
711-521	L404000300	711/44	4"	3"	1-1/16"	6	24.62

* Standard Clayton Mark hole size

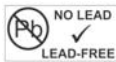
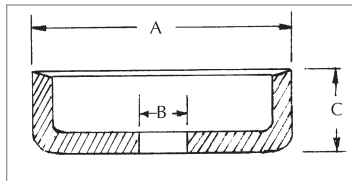
** Standard Midland hole size



Cup Leathers



NEO/86 NEOFAB Cup



CLAYTON MARK®

NEO/86 NEOFAB CUP Features:

- Enhanced endurance with lower replacement rates.
- Neoprene material with fabric insert in base.
- Outlasts all other leathers.
- Made in USA.

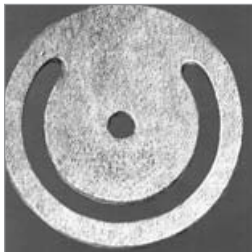
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NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
NEO/86 NEOFAB CUP							
NEO-220	L901140104 **	NEO/86	1-7/8"	1-1/4"	3/4"	3	\$ 24.61
NEO-221	L901140105 *	NEO/86	1-7/8"	1-5/16"	3/4"	3	24.61
NEO-255	L902000010	NEO/86	2"	5/8"	3/4"	3	26.16
NEO-264	L902000105	NEO/86	2"	1-5/16"	3/4"	3	26.16
NEO-334	L902040108 *	NEO/86	2-1/4"	1-1/2"	3/4"	3	27.25
NEO-358	L902080110	NEO/86	2-1/2"	1-5/8"	13/16"	3	31.95
NEO-384	L902120114 *	NEO/86	2-3/4"	1-7/8"	13/16"	3	31.95
NEO-410	L903000200	NEO/86	3"	2"	13/16"	3	37.90
NEO-464	L903080208	NEO/86	3-1/2"	2-1/2"	1"	3	46.02

* Standard Clayton Mark hole size
** Standard Midland hole size



CLAYTON MARK®



V5 Series



Valve Leathers for use with pitcher pumps and cylinders

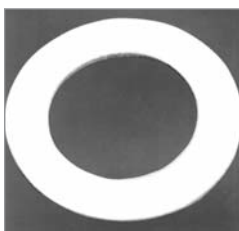
700/55 Universal Features:

- Lower valve leather.
- Uniform, heavy stock with russet finish.
- Made in USA.

Part Number	Cylinder I.D.	Leather O.D.	Standard I.D.	Ctn Qty	List Price
700/55 Universal					
V502080200	2"	2 1/2"	2"	6	\$ 5.93
V502120204	2 1/4"	2 3/4"	2 1/4"	6	6.90
V503000206	2 1/2"	3"	2 3/8"	6	7.54
V503080214	3"	3 1/2"	2 7/8"	6	9.27
V503120302	3 1/4"	3 3/4"	3 1/8"	6	9.27
V504000304	3 1/2"	4"	3 1/4"	6	10.83
V504080312	4"	4 1/2"	3 3/4"	6	11.42
V505000404	4 1/4"	5"	4 1/4"	6	11.42
V505040408	4 1/2"	5 1/4"	4 1/2"	6	12.12
V506120512	6"	6 3/4"	5 3/4"	6	30.21

Pitcher Pump Leather Selection Chart

Pump Size	Part Number	Cylinder I.D.	Leather O.D.
No. 1	V503000206	2-1/2"	3
No. 2	V503080214	3"	3-1/2"
No. 3	V504000304	3-1/2"	4"
No. 4	V504080312	4"	4-1/2"



708/57 Universal Packing Ring



708/57 Universal Packing Ring Features:

- General purpose leather washer or flat ring gasket.
- Universal finish for all applications.
- Soft, pliable leather for long life.
- Made in USA.

Part Number	Finish	Outside Diameter	Hole Size	Thickness	List Price
708/57 Universal Packing Ring					
R702000106	708/57	2"	1-3/8"	1/8"	\$ 2.04
R702080114	708/57	2-1/2"	1-7/8"	1/8"	3.07
R702120202	708/57	2-3/4"	2-1/8"	1/8"	3.64
R703000206	708/57	3"	2-3/8"	1/8"	4.21
R703080214	708/57	3-1/2"	2-7/8"	5/32"	5.61





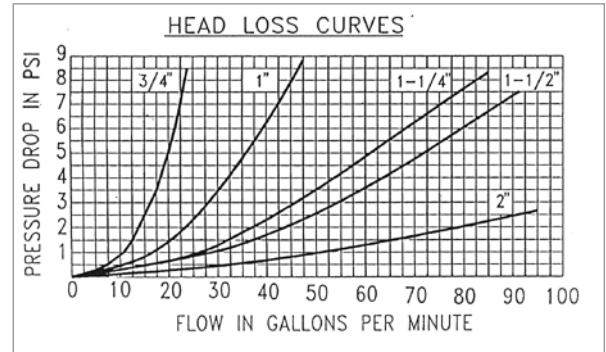
Check Valves - Clayton Mark

- FOR USE IN WATER WELL SYSTEMS



6300 Bronze Check Valve Features:

- The Buna-N rubber coated poppet seals under high & low pressure applications.
- Delrin Stem Guide to improve flow.
- Self locking nut is vibration proof.
- Stainless steel spring.
- 400 PSI rated (WOG).
- Maximum operating temperature 140°F.
- Hex ends for easy installation.

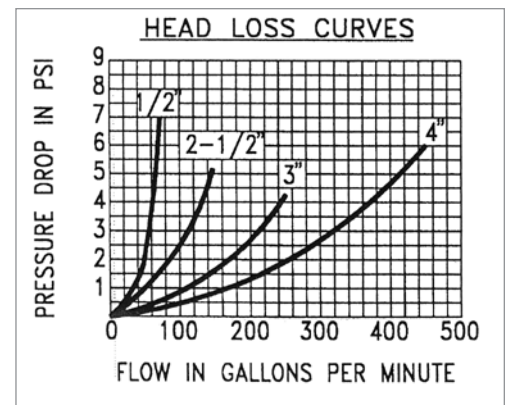


Part Number	Size	Enters Casing	Ctn Qty	List Price
6300-3/4	3/4"	1-1/2"	48	\$ 36.96
6300-1	1"	2"	35	38.60
6300-11/4	1-1/4"	2-1/2"	24	52.93
6300-11/2	1-1/2"	3"	20	73.96
6300-2	2"	3-1/2"	12	119.64



5300 Bronze Check Valve Features:

- Highly finished bronze body with a flat seated poppet to withstand increased water pressure for a continuous period of time.
- 400 PSI (W.O.G.)
- Maximum operating temperature 140°F.
- Corrosion resistant, stainless steel poppet core on 5300-1/2".
- Bronze poppet on 5300-2 1/2, 3 and 4".
- Not suitable for all types of oil and gas.
- Heavy hex ends for easy installation.



Part Number	Size	Enters Casing	Ctn Qty	List Price
5300-1/2	1/2"	1-1/2"	48	\$ 36.21
5300-21/2	2-1/2"	5"	1	510.57
5300-3	3"	6"	1	687.75
5300-4	4"	8"	1	745.18

Check Valves - Clayton Mark



- FOR USE IN WATER WELL SYSTEMS



CLAYTON MARK®



6300-1 Bronze One Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- NOTE: 2-1/2 inch size has the 5300 poppet design.

Part Number	Size	Ctn Qty	List Price
63001-1	1"	35	\$ 52.12
63001-11/4	1-1/4"	30	73.39
63001-11/2	1-1/2"	20	39.50
63001-2	2"	12	56.43



6300-2 Bronze Two Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- NOTE: 4 inch has the 5300 poppet design.

Part Number	Size	Ctn Qty	List Price
63002-1	1"	35	\$ 54.65
63002-11/4	1-1/4"	30	47.32
63002-11/2	1-1/2"	20	88.75
63002-2	2"	12	61.43



63000218 Bronze Two Hole Control Center

- Two 1/4"-18NPS tappings on outlet side.

Part Number	Size	Ctn Qty	List Price
6300218-1	1"	35	\$ 55.79
6300218-11/4	1-1/4"	30	53.61



6300-3 Bronze Three Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- 1/4"-18NPS tapping on outlet side for pressure gauge.

Part Number	Size	Ctn Qty	List Price
63003-1	1"	35	\$ 42.18
63003-11/4	1-1/4"	30	80.43



Check Valves - Clayton Mark

- FOR USE IN WATER WELL SYSTEMS



6300-4 Bronze Four Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure gauge.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- 1/8" tapping on outlet side for drain(1/8" brass plug furnished).

Part Number	Size	Ctn Qty	List Price
63004-1	1"	35	\$ 52.96
63004-11/4	1-1/4"	30	68.57



6302 Bronze Submersible Check Valves

- Fits directly on pump discharge.

Part Number	Size (mpt x fpt)	Ctn Qty	List Price
6302-11/4x1	1-1/4" x 1"	30	\$ 41.14
6302-11/4x11/4	1-1/4" x 1-1/4"	30	54.68
6302-2x2	2" x 2"	12	141.39
6302-3x3	3" x 3"	1	436.32
6302-4x4	4" x 4"	1	666.82



461 BRONZE CHECK VALVES

- Non corrosive brass check valve designed to be set in 2" casing.
- Uses a tapered rubber packer to seal in the well bore.

Part Number	Size	Ctn Qty	List Price
8663A	2"	24	\$ 49.29



479 BRONZE BREMER CHECK VALVES

- Non corrosive bronze with tapered seat and poppet with Perma-Kleen facing for positive seal.
- Uses a tapered rubber packer to seal in the well bore.

Part Number	Size	Ctn Qty	List Price
8669A	2"	12	\$ 59.82
8034C	2" Rubber Check Packer		11.17

Foot Valves - Clayton Mark



- FOR USE IN WATER WELL SYSTEMS



6340 SERIES Bronze Foot Valves

- 400 PSI rating. (W.O.G.)
- Tapered ABS strainer.
- Corrosion resistant, stainless steel core with exclusive cup shape.
- Maximum operating temperature is 140°F.
- Jam proof delrin stem guide.

Part Number	Size	Enters Casing	Ctn Qty	List Price
6340-3/4	3/4"	1-1/2"	48	\$ 32.29
6340-1	1"	2"	35	35.89
6340-11/4	1-1/4"	2"	30	43.29
6340-11/2	1-1/2"	3"	20	69.89
6340-2	2"	3-1/2"	12	110.89



5340 SERIES Bronze Foot Valves

- No. 8 perforated brass screen strainer.
- 400 PSI rating.
- Corrosion resistant, stainless steel core with exclusive cup shape.
- Maximum operating temperature is 140°F.

Part Number	Size	Enters Casing	Ctn Qty	List Price
5340-3/4	3/4"	1 1/4"	48	\$ 35.54
5340-1	1"	1 1/2"	35	39.51
5340-11/4	1 1/4"	2"	24	47.73
5340-11/2	1 1/2"	2 1/2"	20	87.32
5340-2	2"	3 1/2"	12	123.89



5330 Bronze Foot Valves

- All bronze.
- No 8 perforated strainer.
- Heavy hex end.

Part Number	Size	Enters Casing	Ctn Qty	List Price
5330-21/2	2-1/2"	5"	1	\$ 423.57
5330-3	3"	6"	1	585.11
5330-4	4"	6"	1	942.18



Foot & Check - Plastic



FV441

HARVARD Four in One Plastic Foot Valve

- Positive sealing - spring loaded valve poppet closes against a smooth tapered seat.
- Corrosion resistant nylon body and internals.
- Self cleaning design for continuous positive sealing.
- Large screen designed to assure smooth water passage and better suction.
- Tapered screen eliminates pipe joint hang-ups during installation.
- Fits four pipe sizes., 3/4" through 1 1/2"



Part Number	Size	Ctn Qty	List Price
FV441	3/4" through 1 1/2"	100	\$ 16.61



FV Series



LC Series



FV SN Series

Brady Plastic Foot & Check Valve Features:

- "Nose Cone" diffuser reduces friction.
- 50% greater water flow.
- Acetal copolymer construction.
- Non-electrolytic, non-corrosive.
- Spring loaded, 316 stainless steel
- BUNA-N seal
- Pressure max: 175 psi
- Temperature max: 180 F
- LC check valve, FPT x FPT



Part Number	Size	Ctn Qty	List Price
Brady Foot Valve - Spring Loaded			
FV75	3/4"	12	\$ 22.03
FV100	1"	30	25.75
FV125	1-1/4"	32	37.00
FV150	1-1/2"	21	44.48
Brady Check Valve- Spring Loaded			
LC75	3/4"	24	18.80
LC100	1"	24	22.03
LC125	1-1/4"	24	33.05
LC150	1-1/2"	12	39.57
Brady Foot Valve Strainer			
FV75SN	3/4"	50	2.26
FV100SN	1"	50	2.50
FV125SN	1-1/4"	50	3.64
FV150SN	1-1/2"	50	3.51

Foot Valves - Cast Iron, Steel Suction Strainer



5400 Series

Cast Iron Foot Valve Features:

- Available in painted red or galvanized finish.
- Includes neoprene flapper check to maintain prime.
- For use in drainage on construction sites, irrigation projects, pumping from ponds or streams.



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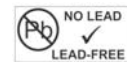


Part Number	Valve Size	Flapper OD Size	PAINTED List Price	GALVANIZED List Price
PAINTED RED	GALVANIZED			
5400-1	1"	2 1/2"	\$ 26.82	
5400-11/4	1-1/4"	2 3/4"	40.95	
5400-11/2	1-1/2"	3 1/4"	49.18	
5400-2	2"	4 1/4"	52.61	
5400-21/2	5400-21/2G	2-1/2"	89.80	94.29
5400-3	5400-3G	3"	93.99	150.48
5400-4		4"	190.00	
5400-5		5"	345.24	
5400-6	5400-6G	6"	480.13	511.19
5400-8		8"	912.24	



5400 Series Complete Repair Kits

- Single kit to repair both painted and galvanized versions.
- Replacement strainers available in galvanized finish only.
- Contains all components required to replace inner flapper assembly.
- Includes valve weight, neoprene flapper, sealing washer, bolt, washer and nut.



Replacement Parts for 5400 Series Foot Valves

Valve Size	LEATHER FLAPPER ONLY		NEOPRENE FLAPPER ONLY		COMPLETE REPAIR KIT (w/ neoprene flapper)	
	Part No.	List Price	Part No.	List Price	Part No.	List Price
1"	5400-1LR	\$ 5.93	8367A	\$ 4.91		
1 1/4"	5400-11/4LR	6.95			CIRK125	28.08
1 1/2"	5400-11/2LR	7.54	8367C	5.33	CIRK150	32.01
2"	5400-2LR	10.83	8367D	7.54	CIRK200	40.57
2 1/2"	5400-21/2LR	11.48	8367E	8.08	CIRK250	53.23
3"	5400-3LR	16.17	8367F	19.11	CIRK300	65.88
4"	5400-4LR	39.97	8367G	27.80	CIRK400	88.31
5"	5400-5LR	53.27	-	-	CIRK500	113.04
6"	5400-6LR	65.55	8367J	45.84	CIRK600	187.56
8"	5400-8LR	102.60	8367K	63.02	CIRK800	271.58

FLAT STEEL ROUND HOLE STRAINERS

- General purpose strainer, zinc plated to prevent corrosion.
- 16 gauge steel.



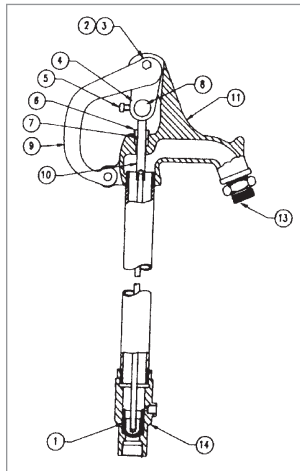
Part Number	Pipe Size	Hole Size	Height	Diameter	Ctn Qty	List Price
8800B	2"	.375"	4"	6"	20	\$ 30.22



Yard Hydrants - Frost Proof



5451 Series



HVB75

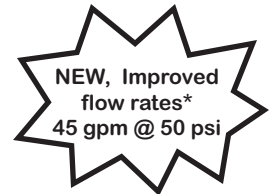


RBHE



RBHT

5451 Series Frost Proof Yard Hydrant Features:



- Fully frost proof, shut-off valve below frost line.
- Heavy cast iron head with 3/4" brass discharge connection and bucket hook.
- Heavy, galvanized steel, corrosion resistant, 1" stand-pipe.
- Galvanized carbon steel connecting rod. Brass operating rod.
- Long lasting Buna-N rubber plunger with solid brass core.
- Integral valve seat cast into **BRONZE** valve body. 3/4" FPT connection with double bypass bottom valve for superior flow, less risk of debris blockage.
- 1/8" FPT drain hole.
- Rated to 80 PSI, adjustable. See page 2.18 for adjustment procedure.
- Packed securely in individual heavy weight carton.
- Independent lab tested.
- CE certified.

Part Number	Bury Depth	Overall Length	Weight (Pounds)	List Price
54511	1	42"	12.4	\$ 124.52
54512	2	54"	15.2	132.01
54513	3	66"	17.8	142.83
54514	4	78"	21.0	153.11
54515	5	90"	22.3	163.93
54516	6	102"	26.2	170.96
54518	8	126"	30.7	195.85

Materials of Construction

#	Item	Material	#	Item	Material
1	Plunger	Buna-N/360 brass	9	Handle	Cast iron
2	Fulcrum Bolt	Steel - Zinc plated	10	Clevis Rod	360 brass
3	Fulcrum Nut	Steel - Zinc plated	11	Head	Cast Iron
4	Links	Steel - Zinc plated	13	Hose Adpt 3/4"	360 brass
5	Set Screw	Steel - Zinc plated	14	Bottom valve	Bronze 81-3-7-9
6	Packing Nut	360 brass		Stand Pipe	Steel - galvanized 1"
7	Packing	Teflon filled graphite			
8	Connector	Brass			

Part Number	Size	# Barbs	Ctn/Case Qty	List Price
Vacuum Breaker				
HVB75	3/4" Meets ASSE 1011 specifications		20/200	\$ 7.54
Cast Bronze Hydrant Elbow (INSxMIP)				
RBHE3/4	3/4" x 3/4"	5	10/100	12.14
RBHE1X3/4	1" x 3/4"	5	10/100	16.39
RBHE1	1" x 1"	5	10/100	16.75
RBHE11/4	1 1/4" x 1 1/4"	5	5/50	29.46
Cast Bronze Extra Long Hydrant Elbow (INS x MIP)				
XLRBHE1	1" x 1"	8	10/100	19.46
XLRBHE1X3/4	1" x 3/4"	10	10/100	19.46
Cast Bronze Hydrant Tee (INS x MIP)				
RBHT3/4	3/4" x 3/4"	4	10/100	15.54
RBHT1x3/4	1" x 3/4"	6	10/100	21.25
RBHT1	1" x 1"	4	10/100	21.61



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 In the United States: Phone (800) 776-2266 Fax (800) 729-3299
 In Canada: Phone (866) 503-5523 Fax (888) 562-2095

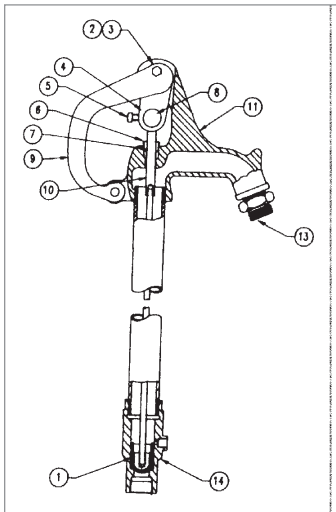
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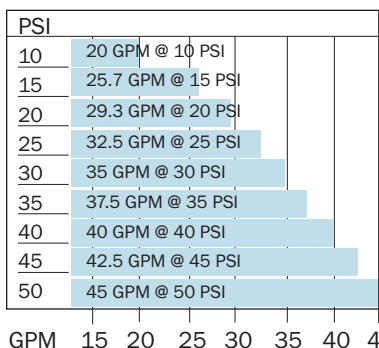
Yard Hydrants - Replacement Parts



CLAYTON MARK®



3/4" 5451 Hydrant Flow Rates



5451 Series Hydrant Replacement Parts

Part Number	Item Number	Description	List Price
YRK1		Repair Kit (Items 1-8)	\$ 17.33
9175B	1	Plunger - rubber	6.37
9023B	2	Fulcrum Bolt - steel	0.36
9023C	3	Nut - steel	0.27
9023D	4	Links (set of 2) - steel	2.38
9023E	5	Set Screw square head - steel	0.47
9023A	6	Packing Nut - brass	3.18
29609G	7	Packing - graphite (2 - 1 old, 1 new style)	4.03
9023G	8	Connector - brass	5.79
2506K	9	Handle - painted cast iron	10.14
2222AHNS	10	Clevis Rod - brass NEW STYLE (double bypass)	11.77
2500K	11	Head only - painted cast iron	34.19
382914	13	Hose Adapter - brass	7.31
381504	14	Valve Body - bronze	45.00
2575K		Complete Head Assembly (Items 2-13)	56.18

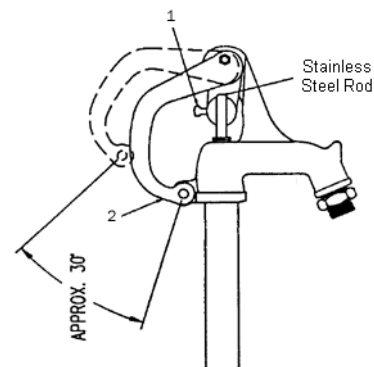
STEEL ROD (use with double bypass valve 5451 Series)

TA7100099NS	54511 Rod (32 5/8" old or 32.4" new)	7.49
TA7100100NS	54512 Rod (44 5/8" old or 44.4" new)	10.62
TA7100101NS	54513 Rod (56 5/8" old or 56.4" new)	13.67
TA7100102NS	54514 Rod (68 5/8" old or 68.4" new)	18.39
TA7100103NS	54515 Rod (80 5/8" old or 80.4" new)	19.39
TA7100104NS	54516 Rod (92 5/8" old or 92.4" new)	22.28
TA7100105NS	54518 Rod (116 5/8" old or 116.4" new)	30.17

NOTE: All 5451 Series Hydrants are preset at factory. There should be no need for any adjustment on initial installation. Adjust only if water does not shut off or hydrant does not operate properly.

5451 HYDRANT ADJUSTMENT PROCEDURE

- Turn water supply OFF.
- Open hydrant to relieve pressure.
- Loosen set screw. (Item 1)
- Push brass rod down as far as it will go by hand to be sure the plunger is touching the seat.
- Open handle (Item 2) approximately 30° from closed position.
- Tighten set screw snugly.
- Turn water supply ON.
- Operate hydrant and make sure the hydrant is shutting off properly and flowing properly.
- If hydrant still does not shut off, repeat steps 1 through 8.**
- Flow water through hydrant and then close completely to check for proper drainage by:
 - listening for water draining down pipe or
 - putting your hand over the hose connection to feel for a vacuum.
 If hydrant does not drain, see step 11.
- To clear drain hole blockage, close off hydrant spout by using hose cap or by attaching and kinking a hose. Open and close hydrant to allow water pressure to clear blockage. Repeat step 10 to verify proper drainage. If hydrant still does not drain, repeat steps 1 through 10 to fully uncover drain hole.



CAUTION: Do not try to make the shutoff adjustment in one attempt or you may overadjust and cause damage to the plunger and rods. For this reason adjust in multiple small increments.



HGBVL Series



HGBVT Series

Forged Brass Gas Ball Valve Features:

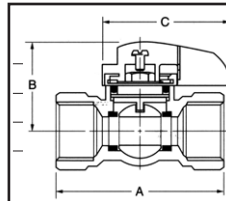
- Heavy duty two piece forged brass body.
- For use with natural, manufactured, mixed, liquified petroleum and LP gas/air mixtures.
- Meets ANSI standard Z21.15 for use as a gas appliance connector valve (1/2 lb. system). CSA, US/AGA B-16.44
- Pressure rated at 175 psi W.O.G. non-shock.
- Imported, Mfg for American Granby in an ISO 9001 facility.



ISO 9001

MATERIAL SPECIFICATIONS

Handle Screw	Steel
Handle	Aluminum
Stem O-Rings	NBR
Stem	Forged Brass
Ball	Chrome Plated Brass
Seats	Teflon®
Body	Forged Brass
End Adapter	Forged Brass



DIMENSIONS (IN.) SIZE	DIMENSIONS (IN.)			BTU
	A	B	C	Capacity/Hr.
1/2"	2.21	1.46	1.81	295,000
3/4"	2.38	1.75	1.81	795,000
1"	2.91	1.89	1.81	1,200,000

Lever Style Part Number	Tee Style Part Number	Size t x t	Ctn/Case Qty	List Price
HGBVL50T		1/2"	12/144	\$ 8.89
HGBVL75T		3/4"	12/96	13.05
HGBVL100T		1"	6/96	18.11
	HGBVT50T	1/2"	12/144	9.85
	HGBVT75T	3/4"	12/96	14.75
	HGBVT100T	1"	6/96	28.99

Float Valves - Bronze, NO LEAD Bronze



Bronze, NO LEAD Bronze Float Valve Features:

- Cast bronze or NO LEAD bronze body
- Buna-N Disc
- Heavy Duty
- Tapped for 1/4"-20SAE rod
- Threaded outlet
- Rated at 125 psi



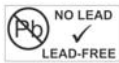
BFV Series



Part Number	Size	Inlet	Outlet	Tapped	Ctn Qty	List Price
BFV1/2	1/2"	1/2" mpt	1/2" mpt	1/4"-20SAE	10/100	\$ 29.70
BFV3/4	3/4"	3/4" mpt	3/4" mpt	1/4"-20SAE	10/80	35.83
BFV1	1"	1" mpt	1" mpt	1/4"-20SAE	10/40	54.00
NO LEAD BRONZE						
BFVNL1/2	1/2"	1/2" mpt	1/2" mpt	1/4"-20SAE	10/100	42.69
BFVNL3/4	3/4"	3/4" mpt	3/4" mpt	1/4"-20SAE	10/80	44.14
BFVNL1	1"	1" mpt	1" mpt	1/4"-20SAE	10/40	68.65



BFVR Series



Stainless Steel Rods Features:

- Stainless Steel SAE
- Male thread both ends

Part Number	Length	Thread	Fits Valve Size	Ctn Qty	List Price
BFVR8	8"	1/4"-20SAE	1/2" - 1"	50/400	\$ 6.62
BFVR10	10"	1/4"-20SAE	1/2" - 1"	50/300	7.67
BFVR12	12"	1/4"-20SAE	1/2" - 1"	50/300	8.59



BFVFP Series



Plastic Float Features:

- PVC, Corrosion resistant.
- Lightweight
- Up to 175 °F
- For open tank service only
- Bronze or NO LEAD bronze threaded connection.

Part Number	Float Diam.	Buoyancy	Female Connection	Ctn Qty	List Price
BFVFP5	5"	2.17 lbs.	1/4"-20SAE	100	\$ 21.23
BFVFP6	6"	3.8 lbs.	1/4"-20SAE	100	25.00
BFVFP8	8"	9.87 lbs.	1/4"-20SAE	20	31.08
NO LEAD BRONZE					
BFVFPNL5	5"	2.17 lbs.	1/4"-20SAE	100	21.23
BFVFPNL6	6"	3.8 lbs.	1/4"-20SAE	100	25.00
BFVFPNL8	8"	9.87 lbs.	1/4"-20SAE	20	31.08



Valves - Brass Gate



GV200 Series

GV200 Series Forged Brass Gate Valve Features:

- Constructed of heavy duty forged brass.
- **Die-cast** body, **forged** bonnet are connected with a Teflon® body to bonnet gasket for a leak proof seat.
- Screwed bonnet, non-rising stem, solid wedge disc and integral seats.
- Graphite stem seal packing.
- Cast iron hand wheel
- Rated at **200 PSI WOG; 125 PSI SWP** (working pressure, non shock)
- Threaded ends produced to ANSI/ASME B1.20.1 (NPT) standards.
- Sweat ends produced to ANSI B16.18-1984 standards
- Imported

Teflon® is a registered trademark of Dupont.

MATERIAL SPECIFICATIONS	
Wheel Nut	Stainless Steel
Hand Wheel	Gray Iron
Packing Nut	Brass
Gland Follower	Brass
Stem Seal Packing	Graphite
Bonnet	Brass
Body-Bonnet Gasket	Teflon
Lock Nut	Brass
Stem	Brass
Disc	Brass
Body	Brass

DIMENSIONS (IN.)	SIZE	A (IPS)	A (CxC)	B (IPS)	B (CxC)	C	d
	1/2"	1.68	1.76	2.80	2.79	2.17	.51
	3/4"	1.76	2.34	2.99	3.10	2.17	.67
	1"	1.97	2.69	3.45	3.63	2.36	.83
	1 1/4"	2.30	3.01	4.06	4.37	2.84	1.07
	1 1/2"	2.46	3.36	4.47	4.96	2.84	1.34
	2"	2.69	3.98	5.26	6.13	3.15	1.77
	2 1/2"	3.43		6.44		3.94	2.21
	3"	3.71		7.48		4.33	2.68
	4"	4.45		9.25		5.12	3.55

Threaded Part Number	Sweat Part Number	Size	Ctn/Case Qty	List Price
GV200-50T		1/2"	10 / 100	\$ 12.46
	GV200-50S	1/2"	10 / 100	13.23
GV200-75T		3/4"	10 / 100	14.97
	GV200-75S	3/4"	10 / 100	14.88
GV200-100T		1"	5 / 50	21.16
	GV200-100S	1"	5 / 50	20.39
GV200-125T		1 1/4"	5 / 50	32.50
	GV200-125S	1 1/4"	5 / 50	30.05
GV200-150T		1 1/2"	2 / 30	44.36
	GV200-150S	1 1/2"	2 / 30	45.75
GV200-200T		2"	2 / 20	63.59
	GV200-200S	2"	2 / 20	70.29
GV200-250T		2 1/2"	1 / 10	143.45
GV200-300T		3"	1 / 10	182.12
GV200-400T		4"	1 / 4	315.40

Valves - Brass Swing Check



HSCV Series

ISO 9001

MATERIAL SPECIFICATIONS	
Cap	Brass
Body	Brass
Disc	Brass
Hinge Pin	Brass
Screw	Brass

Brass Swing Check Valve Features:

- Constructed of heavy duty cast brass.
- Screwed cap, swing type disc and integral seat.
- Prevents backflow while offering full flow performance with a minimum of turbulence or pressure loss.
- Rated **200 PSI W.O.G.** (working pressure non-shock)
- Imported.
- Manufactured for American Granby in an ISO 9001 factory.

DIMENSIONS (IN.)	SIZE	A (IPS)	A (CxC)	B (IPS)	B (CxC)
	1/2"	2.05	2.05	1.47	1.49
	3/4"	2.32	2.32	1.58	1.58
	1"	2.56	2.56	1.68	1.68
	1 1/4"	3.12	3.12	1.84	1.84
	1 1/2"	3.45	3.45	2.15	2.15
	2"	4.16	4.16	2.69	2.69
	2 1/2"	5.11		2.93	
	3"	5.74		3.78	
	4"	6.79		3.90	

Threaded Part Number	Sweat Part Number	Size	Ctn/Case Qty	List Price
HSCV50T		1/2"	10/120	\$ 16.57
	HSCV50S	1/2"	10/120	17.36
HSCV75T		3/4"	10/80	20.50
	HSCV75S	3/4"	10/80	20.99
HSCV100T		1"	5/60	25.39
	HSCV100S	1"	5/60	26.55
HSCV125T		1-1/4"	5/40	43.53
	HSCV125S	1-1/4"	5/40	43.92
HSCV150T		1-1/2"	5/30	56.10
	HSCV150S	1-1/2"	5/30	57.35
HSCV200T		2"	2/24	83.09
	HSCV200S	2"	2/24	84.43
HSCV250T		2-1/2"	1/15	156.65
HSCV300T		3"	1/10	220.38
HSCV400T		4"	1/6	336.67



Plumbing Valves - BRASS, Low Pressure

BOILER DRAINS • HOSE BIBBS

- 125 PSI WOG (working pressure - non-shock), 200 PSI WOG (1/4 turn ball valve hose bibbs)
- All valves shown below are CSA rated except THBB/IHBB Series
- Imported



HNKD Series



HBD Series



HBD-SB Series



IBD-SB Series



IBDBV Series



HHB Series



HHBNHT Series



THBB Series
IHBB Series



IHBBNHT Series

Part Number	Size	Description	Ctn/Case Qty	List Price
Brass No-Kink Boiler Drains				
HNKD50 ☺	1/2"	mip x ght	12/144	\$ 7.45
HNKD75	3/4"	mip x ght	12/144	8.76
Brass Boiler Drains				
HBD50 ☺	1/2"	mip x ght	12/144	7.69
HBD75	3/4"	mip x ght	12/144	8.52
HBD50SB ☺	1/2"	w/ stuffing box mip x ght	12/144	8.95
HBD75SB	3/4"	w/ stuffing box mip x ght	12/144	10.33
Brass Full Flow Boiler Drains				
IBD50SB ☺	1/2"	w/ stuffing box mip x ght	12/144	9.83
IBD75SB	3/4"	w/ stuffing box mip x ght	12/144	10.06
1/4 turn Ball Valve Brass Boiler Drain w/ Butterfly Handle				
IBDBV50 ☺	1/2"	mip x ght	12/144	8.28 ↓
IBDBV75	3/4"	mip x ght	12/144	10.85
Brass Hose Bibbs				
HHB50 ☺	1/2"	mip x ght	12/144	8.20
HHB75	3/4"	mip x ght	12/144	8.90
Brass Hose Bibbs - No Garden Hose Thread, Sampling Valve				
HHB50NHT ☺	1/2"	mip x spout	12/144	8.91
HHB75NHT	3/4"	mip x spout	12/144	9.49
1/4 turn Ball Valve Brass Hose Bibbs w/ T Handle - 200 psi WOG non-shock				
IHBB50 ☺	1/2"	mip x ght (blue handle)	12/144	10.56
IHBB75	3/4"	mip x ght (blue handle)	12/144	12.57
THBB50	1/2"	mip x ght ITALY (red handle)	10/100	17.14
THBB75	3/4"	mip x ght ITALY (red handle)	10/100	20.50
1/4 turn Ball Valve Brass Hose Bibbs w/ T Handle - 200 psi WOG non-shock No garden hose thread - Sampling valve				
IHBB50NHT ☺	1/2"	mip x spout (blue handle)	12/144	11.06
IHBB75NHT	3/4"	mip x spout (blue handle)	12/144	11.47

☺ Has combination 1/2" mip and 1/2" solder connection

Plumbing Valves - Brass, Low Pressure



BENT NOSE GARDEN • ANGLE SILL COCKS • FROST PROOF SILL COCKS

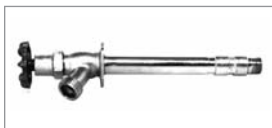
- 125 PSI WOG (working pressure - non-shock)
- Imported



HBNG Series



HSC Series



H500 Series



H500AS Series

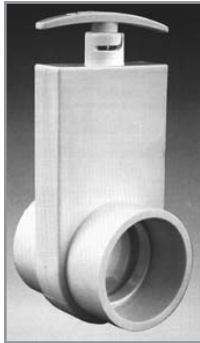


HVB75

Part Number	Size	Description	Ctn/Case Qty	List Price
Full Flow Bent Nose Garden Valves				
HBNG50	1/2"	fip x ght	12/72	\$ 14.93
HBNG75	3/4"	fip x ght	12/72	14.90
HBNG100	1"	fip x ght	12/72	17.64
Brass Angle Sill Cocks				
HSC50T	1/2"	fip x ght	12/144	9.29
HSC75T	3/4"	fip x ght	12/144	10.33
HSC50C	1/2"	swt x ght	12/144	10.63
HSC75C	3/4"	swt x ght	12/144	10.56
Chrome Plated Brass Frost Proof Sill Cocks, IPS x Sweat Fitting				
H504	1/2 x 4"		2/40	31.04
H506	1/2 x 6"		2/40	32.68
H508	1/2 x 8"		2/40	36.50
H510	1/2 x 10"		2/40	34.70
H512	1/2 x 12"		2/40	39.00
H514	1/2 x 14"		2/40	36.71
Chrome Plated Brass Frost Proof Sill Cocks w/ 3/4" mpt x 1/2" fip connection				
H506-3/4	3/4 x 1/2 x 6"		2/40	18.47
H508-3/4	3/4 x 1/2 x 8"		2/40	27.54
H510-3/4	3/4 x 1/2 x 10"		2/40	28.29
H512-3/4	3/4 x 1/2 x 12"		2/40	29.00
H514-3/4	3/4 x 1/2 x 14"		2/40	34.22
Chrome Plated Brass Anti-Siphon Sill Cocks* w/ 1/2" mip x 1/2" swt connection				
H504AS	1/2 x 4"		2/30	33.81
H506AS	1/2 x 6"		2/30	39.95
H508AS	1/2 x 8"		2/30	36.51
H510AS	1/2 x 10"		2/30	42.77
H512AS	1/2 x 12"		2/30	38.92
H514AS	1/2 x 14"		2/30	40.18
* with integral vacuum breaker				
Vacuum Breaker				
HVB75	3/4"	Meets ASSE 1011 specifications	20/200	\$ 7.54



Slice Gate Valves - PVC



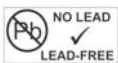
VSGV Uni-Body



VSGV 3 piece body



VSGV 3 piece body with union



PVC Slice Gate Valve Features:

- Designed for pool & spa, irrigation, plumbing, waste water and agricultural applications.
- Stainless steel shaft prevent rust and corrosion.
- Ozone & chemical resistant Santoprene™ materials.
- Santoprene™ seals are integrated to the paddle to eliminate any chance of torn or punctured gaskets.
- Maximum working pressure 50 psi (through 2”).
- Solvent cement traps to catch excess glue.
- Every valve tested at double recommended working pressure.
- Valterra's patent pending triple o-ring neck seal to ensure against any chance of shaft leakage.

Unibody Design

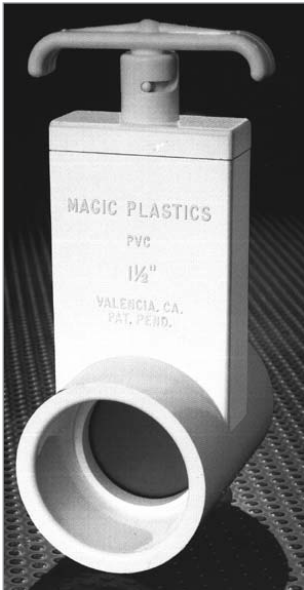
- One piece uni-body design.
- Combination socket ID x spigot OD for installation flexibility.
- Locking handle provides positive shut-off and easy gate opening.

3 Piece body

- Three piece configuration allows for repair or can be used as a union.
- Three piece configuration easily disassembles for inline service.

Part Number	Description	Max PSI	Ctn	Qty	List Price
Uni-Body					
VSGV2101	1 1/2" slip x slip	50	30		\$ 16.95
VSGV2201	2" slip x slip	50	20		23.91
* Unibody 2" slip hubs are 2" slip or 2 1/2" spigot					
Three Piece Body					
VSGV150SL	1 1/2" slip x slip	50	30		19.57
VSGV150FIPTXMIPT	1 1/2" fipt x mipt	50	40		23.41
VSGV150FIPTxMIPTABS	1 1/2" fipt x mipt ABS	50	26		23.41
VSGV150SLU	1 1/2" slip x union slip	50	38		31.00
VSGV150MTU	1 1/2" mipt x union slip	50	38		29.48
VSGV150SP	1 1/2" slip x spigot	50	30		18.62
VSGV150SD	1 1/2" step down pool hose x mipt ABS		40		22.25
VSGV200SL	2" slip x slip	50	20		24.89
VSGV200SP	2" slip x spigot	50	34		23.69
VSGV300SL	3" slip x slip	20	15		39.32
VSGV400SL	4" slip x slip w/ metal handle	15	6		167.22
VSGV600SL	6" slip x slip w/ stainless handle	10	1		696.67
VSGV800SL	8" slip x slip w/ stainless handle	10	1		975.45
VSGV1000SL	10" slip x slip w/ stainless handle	10	1		1778.33
VSGV1200SL	12" slip x slip w/ stainless handle	10	1		1868.19

Slice Gate Valves - PVC



SGV - SL Series

PVC Slice Gate Valve Features:

- One piece “Uni-Body” PVC Construction. Guaranteed NO HUB LEAKS or loose bolts.
- 1/4 turn “Cam-Lock” for 100% shut-off..
- Internal “snap-lock” feature ensures valve will remain totally open, providing 100% flow with no restriction.
- Stainless steel shaft prevents rust and corrosion.
- Glass filled poly-pro tapered gate design for 100% sealing.
- Integrally molded seal on gate. - No pinched or torn gaskets.
- Seals are “Santoprene” that have been impregnated with a permanent lubricant. Never needs lube yet will provide continuous smooth operation. Ozone and chemical resistant for much longer life.
- Santoprene buttons on gate provides smooth operation without sticking.
- Every valve water tested at 100PSI and random quick burst tested at 400 PSI. Virtually no chance of leaky valves in the field at standard operating pressures.
- Maximum recommended operating pressure is 50 PSI.
- Glue wells on all slip-socket configuration catches excess glue during plumbing.
- Constructed and tested for use in pool & spa applications.
- Made in USA



SGV-Sp and SGV-SLU Series



Part Number	Size	Description	Ctn/Case Qty	List Price
SGV150SL	1 1/2"	Slip x Slip	14/56	\$ 19.75
SGV200SL	2"	Slip x Slip	12/48	20.89
SGV250SL	2 1/2"	Slip x Slip	5/20	44.30
SGV150SP	1 1/2"	Slip x Spigot	14/56	19.75
SGV200SP	2"	Slip x Spigot	12/48	20.89
SGV150SLU	1 1/2"	Slip x Slip with Union	10/40	31.97
SGV200SLU	2"	Slip x Slip with Union	10/40	38.60



Economy Filter Housings & Kits



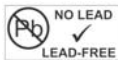
EH Series Economy Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene.
- Available in slim, standard and large diameter styles.
- 10" and 20" lengths.
- Opaque and clear sumps.
- 3/8" - 1 1/2" inlet/outlets. VIH clear has stainless steel 3/4" FPT inserts.
- All housings have a pressure relief button.
- EPDM o-ring seals.
- Rated for temperature to 125° F and pressures to 125 psi.
- Filter housings are bulk packed. Cartridges available separately.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
SLIM STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH38BSLBP	Slim	Blue	Black	3/8"	10"	12	\$ 25.69
EH38CSLWP	Slim	Clear	White	3/8"	10"	12	33.16
EH50BSLBP	Slim	Blue	Black	1/2"	10"	12	24.00
EH50CSLWP	Slim	Clear	White	1/2"	10"	12	36.13
EH75BSLBP	Slim	Blue	Black	3/4"	10"	12	27.50
EH75CSLWP	Slim	Clear	White	3/4"	10"	12	36.00
EH75CSLW PSS	Slim	Clear	White	3/4" w SS inserts	10"	12	55.16
Valve-in-Head SLIM STYLE Housings for 2 1/2" OD cartridges (allows by-pass during cartridge replacement)							
EH75VCP	Slim VIH	Clear	White	3/4" SS FPT	10"	12	86.07
EH75VWP	Slim VIH	White	White	3/4" FPT	10"	12	75.76
STANDARD STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH75BP	Standard	Blue	Black	3/4"	10"	12	48.60
EH75CP	Standard	Clear	Black	3/4"	10"	12	55.64
EH75B20P	Standard	Blue	Black	3/4"	20"	12	80.75
EH75C20P	Standard	Clear	Black	3/4"	20"	12	121.72
LARGE DIAMETER STYLE Housings with pressure relief for 4 1/2" O.D. cartridges							
EHL75BP	Lg. Diam	Blue	Black	3/4"	10"	4	94.78
EHL10BP	Lg. Diam	Blue	Black	1"	10"	4	95.93
EHL10CP	Lg. Diam	Clear	Black	1"	10"	4	166.16
EHL15BP	Lg. Diam	Blue	Black	1 1/2"	10"	4	96.08
EHL75B20P	Lg. Diam	Blue	Black	3/4"	20"	4	137.60
EHL10B20P	Lg. Diam	Blue	Black	1"	20"	4	140.26
EHL15B20P	Lg. Diam	Blue	Black	1 1/2"	20"	4	139.55



EFHP Series

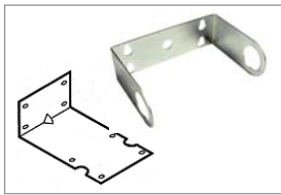


Filter Housing Kit Features:

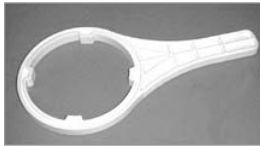
- Slim, VIH, Standard and Large diameter styles.
- Complete with mounting bracket (with stainless steel screws) and sump removal wrench.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Inlet/Outlet	Length	Bracket	Case Qty	List Price
EFHP75BSLBP	Slim	Blue	3/4"	10"	YES	6	\$ 38.97
EFHP75CSLWP	Slim	Clear	3/4"	10"	YES	6	46.38
EFHP75VCP	Slim VIH	Clear	3/4"	10"	YES	6	94.14
EFHP75VWP	Slim VIH	White	3/4"	10"	YES	6	88.64
EFHP75BP	Standard	Blue	3/4"	10"	YES	4	65.78
EFHP75CP	Standard	Clear	3/4"	10"	YES	4	72.54
EFHPLD75BP	Large Dia	Blue	3/4"	10"	YES	1	152.03
EFHPLD10BP	Large Dia	Blue	1"	10"	YES	1	143.42
EFHPLD15BP	Large Dia	Blue	1 1/2"	10"	YES	1	143.42

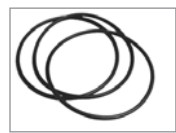
Economy Filter Accessories



ES-BA Series



EW Series



EOR Series

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
Mounting Brackets for EH Series Filter Housings					
Includes stainless steel head and wall mounting screws					
ES10BA	EH Slim (L)	Aluminum	White		\$ 6.25
ES15BA	EH Valve in Head (U)	Aluminum	--		10.06
ES20BA	EH Standard (L)	Aluminum	White		13.28
ES25BA	EH Large Diam. (L)	Aluminum	---		59.24
Wrenches for EH Series Filter Housing sump removal					
EWSL	Slim	Polypropylene	White		3.86
EWSTND	Standard	Polypropylene	White		3.86
EWLD	Large Diam.	Polypropylene	Black		9.27
O-rings for EH Series Filter Housings					
EOR4	Slim	EPDM			2.19
EOR-VIH	Slim VIH	EPDM			2.18
EOR8	Standard	EPDM			3.30
EOR5	Large Diam.	EPDM			4.37



EFRVM75



RV & Marine Water Filter Features:

- Long life exterior inline water filter effectively reduces chlorine, tastes and odors, sediment, volatile organic chemicals and inhibits bacterial growth.
- Working pressure: 20-125 psi
- Maximum flow rate: 2.5 gpm.
- Temperature range: 40-100 °F
- Ideal for RV, boats and camping.
- Uses KDF/GAC media to control microorganisms while reducing lime and scale buildup.
- Includes connector hose (3/4" MGHT x 3/4" FGHT).

Part Number	Description	Ctn Qty	List Price
EFRVM75	RV/Marine Inline Water Filter Kit (hose & cart in box)	1	\$ 44.90
FP12NK	Connector Hose	1	22.32
FP12GE	Inline GAC Cartridge	1	25.70



EIC100



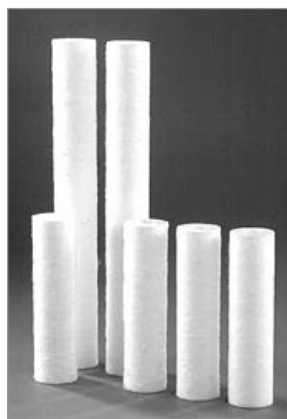
Inline Ice Maker Carbon Filter Features:

- NSF listed.
- Granular activated carbon medium.
- Removes chlorine, taste and odor from water
- Ideal for refrigerator ice makers, water dispensers and coffee makers.
- Furnished with or without 1/4" fittings.

Part Number	OD	Length	Fits Pipes	Pipe Ftgs	Ctn Qty	List Price
EIC100	2"	10"	1/4" FPT	NO	25	\$ 14.26
EIC100JG	2"	10"	1/4" plastic or copper tubing	1/4" John Guest	25	19.54



Economy Filter Cartridges



EFP Series



ANSI / NSF
STANDARD 42
COMPONENT
CERTIFIED



EFP Series Melt Blown Polypropylene Filter Cartridge Features:

- Melt blown polypropylene for purity and chemical compatibility.
- Ideal for aggressive chemicals and general sediment filtration when depth filtration is required.
- Max Flow rate 2-8 gpm based on micron.
- Contains no binders, agents, solvents, antistatic materials or wetting agents.
- Meets FDA requirements for food and beverage contact.
- No leachables or extractables to contaminate.
- No surface binders to reduce flow & increase change-out frequency.
- Rated for temperatures up to 140° F
- Shrink wrapped for purity.

Part Number	Micron	O.D.	Length	Ctn Qty	List Price
MELT BLOWN POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings					
EFP1	1	2 1/2"	9 7/8"	48	\$ 5.15
EFP5	5	2 1/2"	9 7/8"	48	4.32
EFP20	20	2 1/2"	9 7/8"	48	4.32
EFP50	50	2 1/2"	9 7/8"	48	4.32
MELT BLOWN POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings					
EFPBB1	1	4 1/2"	9 3/4"	24	32.72
EFPBB5	5	4 1/2"	9 3/4"	24	27.60
EFPBB20	20	4 1/2"	9 3/4"	24	27.60
EFPBB50	50	4 1/2"	9 3/4"	24	27.60
EFP1-20	1	2 1/2"	20"	24	8.77
EFP5-20	5	2 1/2"	20"	24	8.74
EFP20-20	20	2 1/2"	20"	24	8.74
EFP50-20	50	2 1/2"	20"	24	8.74



EFP_G Series

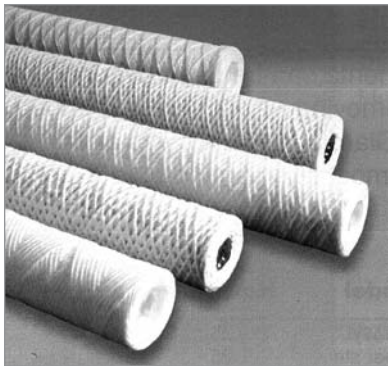


EFP-G Series Grooved Melt Blown Polypropylene Filter Cartridge Features:

- Grooved cartridges for increased surface area and greater dirt handling capacity.
- Melt blown polypropylene.
- Maximum temperatures 140° F
- Maximum pressure: 40 psid
- Recommended change out 30 psid.
- Maximum flow rate 2-8 gpm based on micron.
- Shrink wrapped for purity.
- Fits slim and standard style housings.

Part Number	Micron	OD	Length	Ctn Qty	List Price
EFP5G	5	2 1/2"	9 3/4"	48	\$ 6.02
EFP20G	20	2 1/2"	9 3/4"	48	6.02
EFP1G-20	1	2 1/2"	20"	24	12.02
EFP5G-20	5	2 1/2"	20"	24	11.15

Economy Filter Cartridges



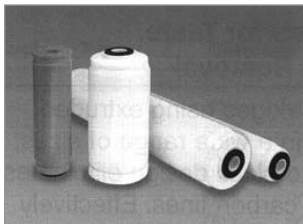
EFWP Series

EFW Series Wound Filter Cartridge Features:

- Excellent depth filtration.
- FDA grade polypropylene fibers.
- Polypropylene center tubes.
- For temperatures to 140 F.
- Individually wrapped.



Part Number	Medium	Type of Construct	Micron	O.D.	Length	Ctn Qty	List Price
WOUND POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings							
EFWP1	Polypropylene	Wound	1	2 1/2"	9 7/8"	30	\$ 9.25
EFWP5	Polypropylene	Wound	5	2 1/2"	9 7/8"	30	8.88
EFWP10	Polypropylene	Wound	10	2 1/2"	9 7/8"	30	8.95
EFWP20	Polypropylene	Wound	20	2 1/2"	9 7/8"	30	8.88
EFWP30	Polypropylene	Wound	30	2 1/2"	9 7/8"	30	8.96
EFWP50	Polypropylene	Wound	50	2 1/2"	9 7/8"	30	8.74
EFWP1-20	Polypropylene	Wound	1	2 1/2"	20"	15	18.43
EFWP5-20	Polypropylene	Wound	5	2 1/2"	20"	15	17.86
EFWP10-20	Polypropylene	Wound	10	2 1/2"	20"	15	17.88
EFWP20-20	Polypropylene	Wound	20	2 1/2"	20"	15	17.86
EFWP30-20	Polypropylene	Wound	30	2 1/2"	20"	15	17.90
EFWP50-20	Polypropylene	Wound	50	2 1/2"	20"	15	17.65
WOUND POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings							
EFWPBB1	Polypropylene	Wound	1	4 1/2"	9 3/4"	8	\$ 30.98
EFWPBB5	Polypropylene	Wound	5	4 1/2"	9 3/4"	8	30.33
EFWPBB20	Polypropylene	Wound	20	4 1/2"	9 3/4"	8	30.10
EFWPBB50	Polypropylene	Wound	50	4 1/2"	9 3/4"	8	29.39
EFWPBB1-20	Polypropylene	Wound	1	4 1/2"	20"	4	62.27
EFWPBB5-20	Polypropylene	Wound	5	4 1/2"	20"	4	60.03
EFWPBB20-20	Polypropylene	Wound	20	4 1/2"	20"	4	60.59
EFWPBB50-20	Polypropylene	Wound	50	4 1/2"	20"	4	58.56

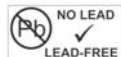


EFGAC Series

EFGAC Series Granulated Activated Carbon Filter Cartridge Features:

- For removal of taste, odor, organic chemicals and chlorine.
- 5 micron

Part Number	Fits Housing Style	O.D.	Length	Ctn Qty	List Price
EFGAC10	Slim, Standard	2 1/2"	9 3/4"	24	\$ 15.34
EFGAC20	Slim, Standard	2 1/2"	20"	24	34.61
EFGACBB	Large Diameter	4 1/2"	9 3/4"	8	48.49
EFGACBB20	Large Diameter	4 1/2"	20"	4	81.09





Big-Bubba Filter Housings



Big-Bubba® High Flow Non-Metallic Filter Housing Features:

Big-Bubba® high flow filters are bigger and better than other non-metallic filter housings because of their economical plastic construction, while pressure rating is nearly equal to stainless steel.

Features:

- Made of glass-reinforced polypropylene for greater strength and chemical resistance.
- Will not dent, rust, chip or corrode.
- Filters accept a single cartridge for convenience.
- Swing-bolt lid closure is easy, safe and secure.
- Pressure release for safety.
- Cartridge “lock” adapter to hold cartridge in place.
- Double o-rings on cartridges for superior sealing.
- Two outlets on opposite sides to allow more flexibility with piping configurations.

Typical Applications:

- Whole house filtration for chlorine, taste, odor and sediment reduction.
- Industrial applications for chemical compatability.
- Pre-filtration for reverse osmosis.
- Community water systems for cyst reduction.
- Sea water filtration for non corrosion.

Specifications:

Materials	
Body, cartridge end caps	Glass reinforced PP
Swing Bolts	304SS
O-Ring (lid)	EPDM
Lid closure	
	Swing Bolt
Pipe Fittings (2 inlet, 1 outlet)	2" slip
Overall height	40"
Width(vessel OD)	12"
Maximum Flow Rate	150 gpm *
Maximum temperature (housing)	175° F
Maximum working pressure	125 psi
Burst test	300 psi
Cycle test (0 to 150 psi)	100,000

* Dependent on micron rating (see pressure drop chart)

Parallel Installation



Parallel installations are recommended to achieve high flow rates, by installing filters on a common manifold, feeding all filters installed in a row.

Series Installation



Series installations are recommended for applications such as surface water filtration, where cartridges having different micron ratings are used.



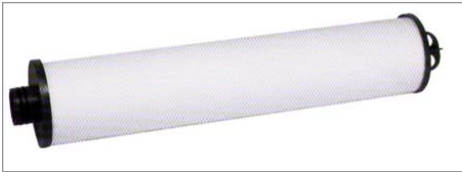
Certified to ANSI-NSF 61

Part No.	Description	Max Flow Rate	Pipe Fitting	List Price
BBH150	Big-Bubba Housing	150 gpm	2" slip	\$ 1964.33

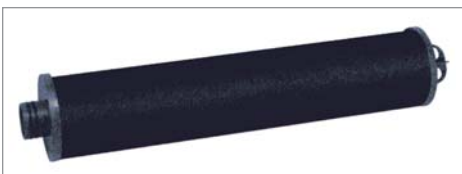
Big Bubba Filter Cartridges



BBC-P Series



BBC-D Series



BBC-AC Series

Big-Bubba® High Flow Filter Cartridge Features:

Replacement cartridges for Big-Bubba filters, all with double o-ring seals for superior performance. Cartridges are easy to install, service and replace.

Pleated:

- Pleated cartridges are recommended for typical water filtration applications to remove sediment, hard solids and when high efficiency filtration is required. Available in a wide range of micron ratings, including one micron absolute for surface water filtration to reduce Giardia Cycts and Cryptosporidium.

Depth:

- Select depth cartridges to remove sediment, gelatinous substances and when chemical compatibility is an issue. Big-Bubba melt blown depth cartridges are 100% polypropylene with EPDM o-rings.

Activated Carbon Cartridges:

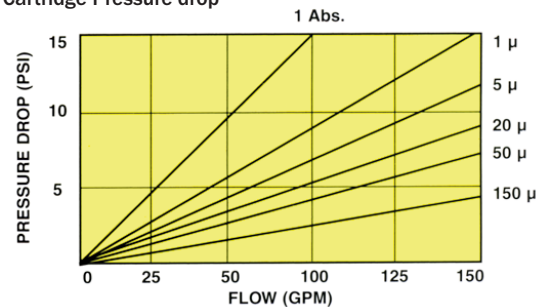
- Ideal for whole house filtration and other applications to reduce chlorine, tastes, odors and sediment from water. Rated at 5 micron.

Specifications:

	PLEATED	DEPTH
Media	PP	PP
End Caps	PP & FG	PP & FG
Center Tubes	PP	PP
Maximum Flow Rate*	150 gpm	100 gpm
Maximum temperature	175° F	175° F
Maximum Chg pressure (psi)	30	40
Chemical Resistance	Excellent	Excellent
Length (media)	26 1/4"	26 1/4"
O-rings (dual)	EPDM	EPDM

* Flow rates based on each specific application, micron rating, solids content and other factors. End user should consider these factors when selecting the filter housing (or housings) needed for their particular requirement.

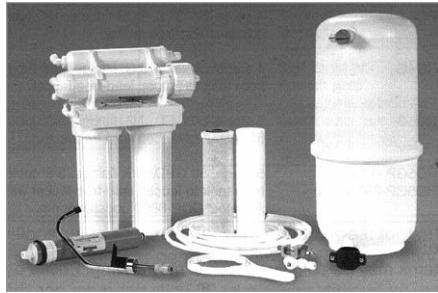
PLEATED Cartridge Pressure drop



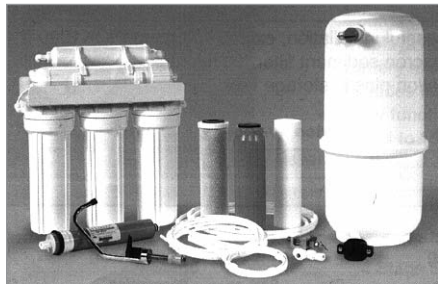
Part Number	Micron	Media Type	Seals	Ctn Qty	List Price
PLEATED					
BBC-150-P1A	1 absolute	Polypropylene 5 ply	Double O-rings	1	\$ 556.40
BBC-150-P1	1	Polypropylene	Double O-rings	1	533.80
BBC-150-P5	5	Polypropylene	Double O-rings	1	508.58
BBC-150-P20	20	Polypropylene	Double O-rings	1	452.61
BBC-150-P50	50	Polypropylene	Double O-rings	1	432.93
DEPTH					
BBC-150-D1	1	Polypropylene	Double O-rings	1	173.54
BBC-150-D5	5	Polypropylene	Double O-rings	1	150.68
BBC-150-D20	20	Polypropylene	Double O-rings	1	150.68
BBC-150-D50	50	Polypropylene	Double O-rings	1	150.68
ACTIVATED CARBON					
BBC-150-AC	5 nominal	Activated carbon	Double O-rings	1	818.52



Economy Residential R.O. Systems



ROK1050



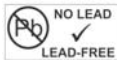
ROK2050

Economy Residential RO System Features:

- Pre-assembled, easy to install 4 or 5 stage RO system.
- Complete with all installation accessories and instructions.
- High rejection, thin film membrane up to 98% efficient with 50 gallon per day capacity. (Note: Feed water requirements below)
- NSF Standard 58 listed, FDA approved, polypropylene tank rated to 100 psi. (Steel tank for ROK2050MT Economy System)
- All cartridges, valves, fittings included.
- All fittings, tubing, housings, valves, cartridges and membranes are NSF listed or made from NSF listed materials.
- WQA validated, patented automatic shut-off valve made from NSF listed materials.
- Lead free, long reach chrome faucet included. Meets State of California requirements.
- Sump wrench, white aluminum bracket included.

Feed Water Requirements:

- Maximum TDS: 2,000 ppm
- Maximum Iron: 0.3 ppm
- Maximum hardness: 12 gpg
- Temperature: 45-100 °F
- Maximum hydrogen sulfate: 0
- Maximum manganese: 0.05 ppm
- Pressure: 30-100 psi (min/max)
- pH: 4-10



ROK Systems Include:

- NSF listed Jaco fittings.
- NSF listed filter housings.
- NSF standard 58 listed white polypropylene tank. (9" diam x 20" high)
* (Steel storage tank for ROK2050MT)
- NSF listed 5 micron carbon block cartridge.
- NSF listed in-line post carbon cartridge.
- NSF component thin film membrane, Dow/Filmtec 50 gpd.
- Coconut shell GAC carbon cartridge made with NSF listed materials (ROK2050).
- 5 micron sediment pre-filter cartridge made with NSF listed materials.
- WQA validated, patented automatic shutoff valve made w/ NSF materials.
- Long reach, lead free chrome faucet, meets State of California requirements.
- Sump wrench, tubing, saddle valve, check valve, ball valves, flow restrictor included.
- Complete installation instructions.

The Benefits (nominal ion rejection characteristics)*

Aluminum	96-98%	Manganese	96-98%
Ammonium	80-90%	Mercury	94-97%
Borate	30-50%	Nickel	96-98%
Boron	50-70%	Nitrate	90-95%
Bromide	90-95%	Orthophosphate	96-98%
Cadmium	93-97%	Phosphate	95-98%
Calcium	93-98%	Polyphosphate	96-98%
Chloride	92-95%	Potassium	92-96%
Chromate	85-95%	Radioactivity	93-97%
Copper	96-98%	Silica	80-90%
Cyanide	85-95%	Silicate	92-95%
Fluoride	92-95%	Silver	93-96%
Hardnes Ca & Mg	93-97%	Sodium	92-98%
Iron	96-98%	Sulfate	96-98%
Lead	95-98%	Thiosulfate	96-98%
Magnesium	93-98%	Zinc	96-98%

* The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperature, pressure & TDS content of the feed water

Part No.	Description	List Price
ROK1050	4 stage RO system, 50 gpd	\$ 598.71
ROK2050	5 stage RO system, 50 gpd	640.75
ROK2050MT	5 stage RO economy system, steel 50 gpd	553.11
ROK1050MEM	TFC membrane 50 gpd	135.02

Note: For cold water use only. Do not install on hot water line. To insure that the membrane is functioning properly, the product water must be tested regularly.



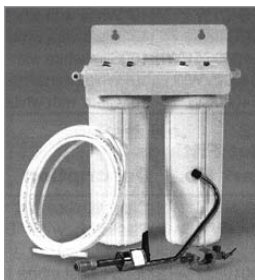
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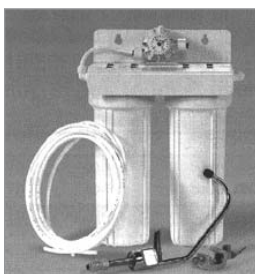
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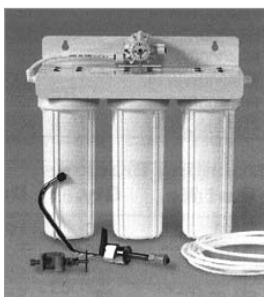
Economy Drinking Water Systems



DWS2



DWS2M



DWS3M

Economy Drinking Water System Features:

- Pre-assembled, easy to install.
- Complete with all installation accessories and instructions.
- Carbon and sediment filter cartridges sold separately.
- Select the appropriate carbon cartridge to reduce taste and odor, chlorine, giardia, cryptosporidium, VOC's, lead and mercury. See page 4.7 - 4.8 for full selection of carbon filter cartridges to fit the specific need.

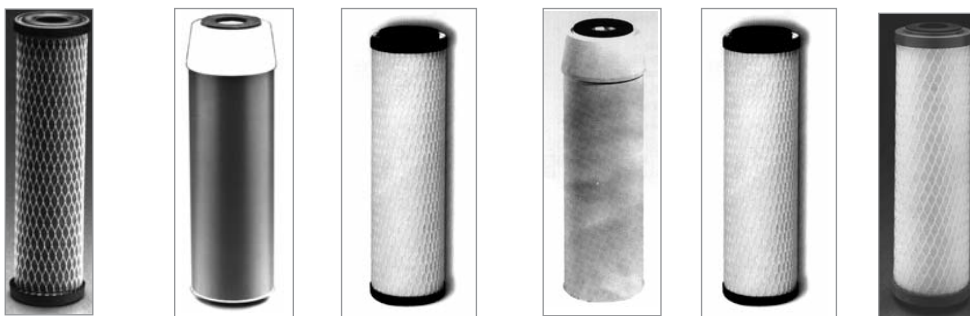
DWS Series Includes:

- NSF listed housings
- NSF listed John Guest fittings.
- NSF listed tubing.
- Lead free, long reach chrome faucets. Meets State of California requirements.
- WQA validated, 1800 gallon, patented automatic shut-off valve made from NSF listed materials. (DWS-M Series only)
- White aluminum bracket with stainless steel mounting screws.
- Saddle valve.
- Carbon filter cartridges **NOT** included. See page 4.7-4.8 for a full selection.



Part No.	Description	List Price
DWS2	2 Stage system (no Auto shut-off)	\$ 174.93
DWS2M	2 Stage system w/ Auto shut-off	229.21
DWS3M	3 Stage system w/ Auto shut-off	263.39

Available Carbon Filter Cartridges
See page 4.13-14 for description and list prices.



Series	PFC	PFGAC	PFCEP	PFCC	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	N/A	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes	Yes
Cyst Reduction <small>Giardia & Cryptosporidium</small>	No	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes	Yes
Lead & Mercury	No	No	No	No	No	Yes



Filter Housings

Styles:

- Standard
- Slim Line™
- Valve-in-Head
- High Temperature
- Big Blue®

Materials:

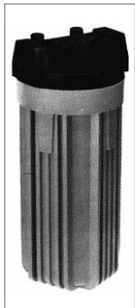
- Opaque - Reinforced Polypropylene
- Clear - FDA Styrene-Acrylonitrile (SAN)

Applications:

- Residential/Whole house, Commercial/Industrial, Institutional, OEM



ISO 9001



PFH75B

Standard Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/4" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- NPsuffix - no pressure relief button.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75B	Standard	Blue	Black	3/4" NPT	12 1/4"	5 1/8"	12	\$ 55.41
PFH75C	Standard	Clear	Black	3/4" NPT	12 1/4"	5 1/8"	12	76.71
PFH75B20	Standard	Blue	Black	3/4" NPT	22 3/8"	5 1/8"	8	100.22



PFH38SLC5

PFH38SLC

Slim Line™ Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/8" NPT inlet/outlet.
- Available in 5" and 10" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH38SLB5	Slimline	Blue	Black	3/8" NPT	7"	4 3/8"	12	\$ 42.17
PFH38SLC5	Slimline	Clear	Blue	3/8" NPT	7"	4 3/8"	12	62.95
PFH38SLB	Slimline	Blue	Black	3/8" NPT	11 3/4"	4 3/8"	12	31.26
PFH38SLC	Slimline	Clear	Blue	3/8" NPT	11 3/4"	4 3/8"	12	46.88



ISO 9001



PFH75VB20

Valve-in-Head Housing Features:

- Valve-in-Head (VIH) feature closed both the inlet and outlet ports simultaneously with a half turn of the handle.
- Makes cartridge change outs quick and easy.
- Available in 5", 10" and 20" lengths.
- Can be equipped with an optional pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75VB	VIH	Blue	Black w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	\$ 98.19
PFH75VC	VIH	Clear	Blue w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	105.69
PFH75VB20	VIH	Blue	Black w/ VIH	3/4" NPT	22 3/8"	5 1/8"	8	141.62



PFH75HR

High Temperature Housing Features:

- Low cost alternative to stainless and carbon steel housings.
- Durable glass reinforced nylon construction.
- Available with 1/2" and 3/4" NPT inlet/outlet
- Maximum temperature rating of 160° F.
- Maximum operating pressure 125 PSI.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75HR	High Temp	Black	Black	3/4" NPT	12 1/8"	5 1/8"	12	\$ 265.16



CPFHD10

Big Blue® Large Diameter Housing Features:

- Large capacity housing designed for whole house and high-flow applications.
- Available with 3/4", 1" or 1 1/2" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with a pressure relief button on the inlet side of the head.
- Accepts large capacity 4 1/2" diameter cartridges.
- Maximum operating pressure 100PSI @ 100° F
- PFHD10 and PFHD15 packed in white box with a spanner wrench.
- Bulk packed without spanner wrench

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
CPFHD75	Big Blue®	Blue	Black	3/4" NPT	13 1/8"	7 1/4"	6	\$ 88.84
CPFHD75BB	Big Blue®	Blue	Black	3/4" NPT	23 3/8"	7 1/4"	4	125.58
CPFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	6	87.16
PFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	1	106.41
PFHD10HFP20	Big Blue®	Blue	Black	1" NPT	23 3/8"	7 1/4"	4	152.51
CPFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	6	95.36
PFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	4	114.45



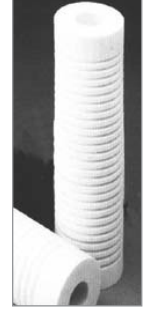
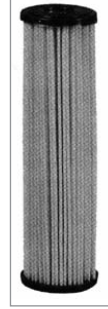
Filter Cartridges

Cartridge Selection Guide



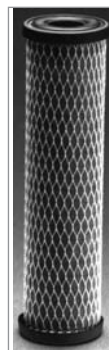
ISO 9001

SEDIMENT



Series	PFWP	PFS	PFR	PFP	PFPD
Micron Rating	5, 25, 50	20	30, 50	1, 5, 25	1, 5, 25
Avail Lengths	10"	10" & 20"	10"	10" & 20"	10" & 20"
Construction Style	String Wound	Pleated	Pleated	Spun	Therm Bonded
Medium	Polypropylene	Cellulose	Polyester	Polypropylene	Polypropylene
Filtration Style	Depth	Surface	Surface	Depth	Depth
Applications	Chlorinated & Non-Chlorinated	Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated
Avail for Big Blue	Yes	Yes	Yes	No	No

TASTE/ODOR & SEDIMENT



Series	PFC	PFGAC	PFCEP	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes
Cyst Reduction <i>Giardia & Cryptosporidium</i>	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes
Lead & Mercury	No	No	No	No	Yes
Avail for Big Blue	No	Yes	Yes	Yes	No
Est Filter Life	6 mo.	12 mo.	12 mo.	12 mo.	12 mo.



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4/2009

Filter Cartridges



Sediment Cartridges:

- String wound
- Pleated cellulose
- Pleated polyester
- Spun polypropylene
- Thermally Bonded polypropylene



ISO 9001



String Wound Cartridges



PFWP
String
Wound



PFWP-BB
String
Wound



PFWPX-BB
Fibrillated

PFWP & PFCW Series String Wound Polypropylene Cartridges

- Ideal for fine sediment reduction, including sand, silt, scale and rust.
- These cord wound cartridges are compatible with most acids, alkalies, corrosive fluids & gases.
- Precise winding pattern ensures high efficiency rate and high dirt loading capacity.
- Core material: FDA Polypropylene
- Max temperature: 180° F
- General purpose filtration.

PFWP-BB Series String Wound Polypropylene Cartridges

- Constructed of fibrous polypropylene over polypropylene core.
- Note: An antistatic agent has been used in the processing of the fibrous polypropylene and may cause some foaming in water.

PFWPX-BB String Wound Fibrillated Polypropylene Cartridges

- Constructed of fibrillated polypropylene on a polypropylene core.
- For use when pressures require minimization of exactables and/or fiber migration.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Length	Ctn Qty	List Price
Standard Housings 2 3/8" diameter							
PFWP1	Polypropylene	Wound	1	5	9-7/8"	30	\$ 4.96
PFWP5	Polypropylene	Wound	5	5	9-7/8"	30	4.96
PFWP10	Polypropylene	Wound	10	5	9-7/8"	30	4.96
PFWP20	Polypropylene	Wound	20	5	9-7/8"	30	4.96
PFWP30	Polypropylene	Wound	30	5	9-7/8"	30	4.96
PFWP50	Polypropylene	Wound	50	5	9-7/8"	30	4.96
PFCW50	Polypropylene	Wound	med. fine	10	9 7/8"	24	8.46
PFWP50	Polypropylene	Wound	50	10	9-7/8"	24	8.12
PFWP1-20	Polypropylene	Wound	1	5	20"	30	11.98
PFWP5-20	Polypropylene	Wound	5	5	20"	30	10.57
PFWP10-20	Polypropylene	Wound	10	5	20"	30	10.57
PFWP20-20	Polypropylene	Wound	20	5	20"	30	10.57
Large Diameter Housings 4 1/2" diameter							
PFWP.5BB97P	Polypropylene	Wound	0.5	5	9-7/8"	9	23.04
PFWP1BB97P	Polypropylene	Wound	1	5	9-7/8"	9	23.04
PFWP5BB97P	Polypropylene	Wound	5	5	9-7/8"	9	23.04
PFWP10BB97P	Polypropylene	Wound	10	5	9-7/8"	9	23.04
PFWP20BB97P	Polypropylene	Wound	20	5	9-7/8"	9	23.04
PFWP30BB97P	Polypropylene	Wound	30	5	9-7/8"	9	23.04
PFWP50BB97P	Polypropylene	Wound	50	5	9-7/8"	9	23.04
PFWP.5BB20P	Polypropylene	Wound	0.5	5	20"	9	40.32
PFWP1BB20P	Polypropylene	Wound	1	5	20"	9	40.32
PFWP5BB20P	Polypropylene	Wound	5	5	20"	9	37.32
PFWP10BB20P	Polypropylene	Wound	10	5	20"	9	37.32
PFWP20BB20P	Polypropylene	Wound	20	5	20"	9	37.32
PFWP25BB20P	Polypropylene	Wound	25	5	20"	9	37.32
PFWPX5BB97P	Fibrillated Polypropylene	Wound	5	10	9-7/8"	8	46.88
PFWPX10BB97P	Fibrillated Polypropylene	Wound	10	15	9-7/8"	8	44.92
PFWPX25BB97P	Fibrillated Polypropylene	Wound	25	20	9-7/8"	8	49.27
PFWPX50BB97P	Fibrillated Polypropylene	Wound	50	30	9-7/8"	8	42.46



Filter Cartridges



PFS

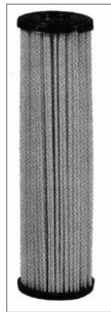
PFS Series Pleated Cellulose Cartridge

- Used for general water filtration purposes.
- This filter is comprised of four square feet of cellulose, providing maximum surface area and strength to prolong cartridge life.
- End caps fused to body assure an integral sealing area and prevent by-pass.
- Nominal 20 micron rating.

ISO 9001



Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFS1	Cellulose	Pleated	20	12	Standard	9-3/4"	24	\$ 9.22
PFS1-20	Cellulose	Pleated	20	15	Standard	20"	14	23.09
PFS1BB	Cellulose	Pleated	20	10	Big Blue	9-3/4"	8	29.55
PFS1-20BB	Cellulose	Pleated	20	12	Big Blue	20"	6	51.78

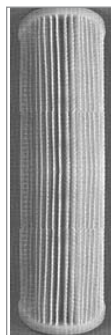


PFR

PFR Series Pleated Polyester Cartridges

- Excellent for water well, institutional and light industrial applications.
- Four square feet of media on standard and 20 square feet of media on BB
- Pleated polyester fabric filter can be washed and resued several times. †Reuse is not recommended in potable water applications.
- Synthetic construction will not support bacteria growth.
- Available with nominal 30 and 50 micron ratings.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFR30-478	Polyester	Pleated	30	5	Compact	4-7/8"	24	\$ 19.07
PFR30	Polyester	Pleated	30	12	Standard	9-3/4"	24	24.41
PFR50	Polyester	Pleated	50	12	Standard	9-3/4"	24	21.17
PFR30BB	Polyester	Pleated	30	25	Big Blue	9 3/4"	8	38.13
PFR50BB	Polyester	Pleated	50	25	Big Blue	9 3/4"	8	36.02



PFCP

PFCP Series Pleated Cellulose Polyester Cartridges

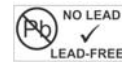
- 6 sq. feet of media on standard and 16 sq.ft. on BB provide additional surface area and allow increased dirt holding capacity and low pressure drop
- Ideal for high flow applications.
- Cartridges are encapsulated in polyester outer sheath for added support.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFCP1	Cellulose Polyester	Pleated	1	15	Standard	9-3/4"	24	\$ 15.62
PFCP5	Cellulose Polyester	Pleated	5	15	Standard	9-3/4"	24	14.55
PFCP20	Cellulose Polyester	Pleated	20	15	Standard	9-3/4"	24	14.25
PFCP5BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	9-3/4"	8	34.00

Filter Cartridges



ISO 9001



PFP

PFP Series Spun Polypropylene Fiber Cartridges

- Excellent bacteria and chemical resistance.
- Manufactured from pure 100% polypropylene.
- Fibers are carefully spun to form a cartridge w/ variable density. The density increases closer to core.
- Available in three different lengths and micron ratings

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFP5-478	Polypropylene	Spun	5	5	Compact	4-7/8"	24	\$ 8.31
PFP1	Polypropylene	Spun	1	10	Standard	9-7/8"	24	11.10
PFP5	Polypropylene	Spun	5	10	Standard	9-7/8"	24	9.70
PFP25	Polypropylene	Spun	25	10	Standard	9-7/8"	24	9.70
PFP1-20	Polypropylene	Spun	1	20	Standard	20"	20	23.15
PFP5-20	Polypropylene	Spun	5	20	Standard	20"	20	18.44
PFP25-20	Polypropylene	Spun	25	20	Standard	20"	20	18.90



PFDGD Spun Polypropylene Dual Gradient Cartridge

- Dual gradient filter included pre and post filtration reduce large and fine particles to enhance cartridge performance.
- Eliminates need for multiple housing step-down systems
- Three times the dirt holding capacity

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFDGD2501-10	Polypropylene	Spun	Pre 25/Post 1	10	Big Blue	10"	8	\$ 32.42
PFDGD2501-20	Polypropylene	Spun	Pre 25/Post 1	20	Big Blue	20"	6	59.45
PFDGD5005-10	Polypropylene	Spun	Pre 50/Post 5	10	Big Blue	10"	8	31.14
PFDGD5005-20	Polypropylene	Spun	Pre 50/Post 5	20	Big Blue	20"	6	57.60
PFDGD7525-10	Polypropylene	Spun	Pre 75/Post 25	10	Big Blue	10"	8	30.93
PFDGD7525-20	Polypropylene	Spun	Pre 75/Post 25	20	Big Blue	20"	6	56.81



PFPD

PFPD Series Thermally Bonded Polypropylene Cartridge

- Manufactured from pure 100% polypropylene.
- 98% efficient, more efficient than resin bonded cartridges.
- Thermal bonded micro-fiber construction.
- Withstands high temperature and pressure differentials.
- No fiber release, brittleness or growth/shrinkage due to climate conditions.
- Available in a wide range of micron ratings and lengths.

Part No.	Medium	Type of Constructions	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFPD-10	Polypropylene	Therm Bonded	10	10	Standard	9-7/8"	24	\$ 12.64
PFPD-5	Polypropylene	Therm Bonded	5	10	Standard	9-7/8"	24	13.27
PFPD-25	Polypropylene	Therm Bonded	25	10	Standard	9-7/8"	24	12.23



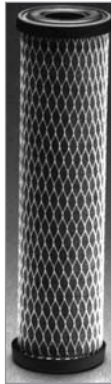
Filter Cartridges

Taste/Odor/Sediment Cartridges:

- Carbon Impregnated
- Granular Activated Carbon (GAC)
- Carbon Block



ISO 9001



PFC1

PFC Series Carbon Impregnated Cellulose Cartridges

- Dual purpose cartridge provides taste/odor/chlorine reduction plus sediment filtration.
- A combination of carbon and cellulose creates a dual filter used for removing fine particles and reducing unwanted tastes and odors occasionally found in tap water.
- Excellent “polishing” filter when used in process or closed loop systems.
- Design maximized dirt holding capacity.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFC2	Carbon/Cellulose	Wrap	5	2500 @ 2 gpm	Compact	4 3/4"	24	\$ 15.33
PFC1	Carbon/Cellulose	Wrap	5	5000 @1 gpm	Standard	9 7/8"	24	15.25
PFC1-20	Carbon/Cellulose	Wrap	5	10,000 @1 gpm	Standard	20"	24	38.50



PFGAC



PFCC

PFGAC Series Granular Activated Carbon (GAC) Cartridges

- Designed to reduce or eliminate unwanted tastes and odors such as chlorine.
- Water enters the filter from the bottom and travels through the entire charcoal bed before exiting at the top. This filtration technique maximizes contact time with carbon to insure maximum absorption.
- Internal expansion pad maintains a tight compact column to minimize channeling or by-pass.
- Nominal 20 micron post filter reduces the content of carbon fines & suspended particles

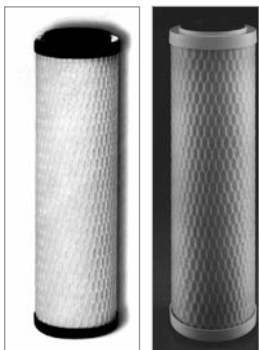
PFCC Series Granular Activated Coconut Carbon Cartridges

- Coconut Shell based activated carbon to reduce organic chemicals like EDB, TCE & THM plus chlorine.
- Nominal 20 micron post filter to reduce carbon fines and other particles.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFGAC5	Granular Carbon	Canister	20	750 @ .5gpm	Compact	4 7/8"	24	\$ 24.85
PFGAC10	Granular Carbon	Canister	20	5000 @ 1gpm	Standard	9 7/8"	12	25.96
PFGAC20	Granular Carbon	Canister	20	10000 @ 2gpm	Standard	20"	6	57.35
PFGACBB	Granular Carbon	Canister	20	12500 @ 2gpm	Big Blue	9 3/4"	8	66.64
PFGAC20BB	Granular Carbon	Canister	20	30000@ 4gpm	Big Blue	20"	10	150.97
PFCC10	Granular Carbon	Canister	20	7500 @ 1gpm	Standard	9 3/4"	12	29.98



ISO 9001



PFCEP

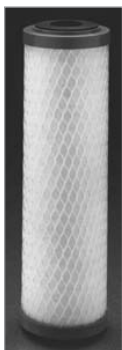
PFCBC

PFCEP Series Carbon Block Cartridges

- Designed for post RO applications.
- Minimizes chlorine and pH rise and produces low extractables.
- Acid washed coconut formulation
- Light brown end cap

PFCBC Series Carbon Block Cartridges

- Designed to reduce VOC's, chlorine, color bodies, plus remove fine sediment from the residual, commercial & industrial liquids. Filters giardia & cryptosporidium cysts from potable water.
- High chemical adsorption provided by acid washed bituminous powdered, activated carbon block.
- Sediment filter eliminates unwanted particles down to 0.5 nominal micron.
- Excellent polishing filter or prefilter.



PFCBR

PFCBR Series Carbon Block Multimedia Cartridge

- Removes both metals and chemicals with one cartridge.
- All purpose carbon block cartridge removes unpleasant tastes and odors plus greatly reduces the amount of dissolved heavy metals and the taste of chlorine.
- Removes lead up to 96% and mercury up to 98%.
- Also removes up to 99% of giardia and cryptosporidium cysts and sediment particles down to .5 micron in size.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFCEP10	Acid washed	Carbon Block	5	5000 @ 1 gpm	Standard	9 3/4"	12	\$ 33.23
PFCEP20E	Acid washed	Carbon Block	5	10000 @ 2 gpm	Standard	20"	6	80.77
PFCEPB20	Acid washed	Carbon Block	10	32000 @ 4 gpm	Big Blue	20"	6	137.59
PFCBC10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	49.24
PFCBC20	Acid washed	Carbon Block	0.5	45000 @ 1 gpm	Standard	20"	12	71.21
PFCBCBB	Acid washed	Carbon Block	0.5	50000 @ 2 gpm	Big Blue	9 3/4"	4	131.70
PFCBCBB20	Acid washed	Carbon Block	0.5	150000 @ 4 gpm	Big Blue	20"	6	262.79
PFCBR2-10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	62.80



Filter Cartridges

Specialty Cartridges



ISO 9001



PFRFC

PFRFC Series Radial Flow Carbon Cartridges

- Radial flow carbon cartridge designed for gas and liquid filtration.
- Activated carbon bed and inner layers of polypropylene remove particles over nominal 7 microns.
- Removes organic and particulate contaminants from plating, acid alkaline and hydrocarbon solutions when used for liquid filtration.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFRFC93	Carbon/Polypropylene	Canister	7	1-3	Standard	9 3/4"	24	\$ 58.01
PFRFCBB	Carbon/Polypropylene	Canister	7	3-10	Big Blue	9 3/4"	8	99.63
PFRFC20BB	Carbon/Polypropylene	Canister	7	5-15	Big Blue	20"	6	196.07



PFIC100

Sealed In-Line Cartridges

- Ideal for refrigerator icemakers and water dispensers, coffee makers and other 1/4" in-line applications.
- Granular activated carbon removes chlorine, bad taste and odor from water.
- **TS100 includes phosphate crystals for clear ice cubes and to prevent line/scale build-up.**
- Connects easily to 1/4" copper or plastic cold water lines.
- Capacity of 2000 gallons, estimated life of 12 months.

Part Number	Description	Casing	Length	Ctn Qty	List Price
Ice Maker Carbon Filter					
PFIC100	Granular Activated Carbon	plastic	10 5/8"	6	\$ 35.55



Filter Kits & Accessories



ISO 9001



Housing & Cartridge Combination Kit Features:

- Each kit contains one complete housing, one cartridge and installation sheet.

Part Number	Size	Sump	Cartridge	List Price
Housing & Cartridge Combination Kits				
PFH75C-S1	3/4" standard	transparent	general purpose/sediment	\$ 95.26
PFH75C-C1	3/4" standard	transparent	taste/odor/sediment	102.08

"PF" Series Housing Replacement Parts:

Including replacement heads, sumps, o-rings, mounting brackets and wrenches.



PFMB75



PFMC1



PFWBBS



PFSW

Part Number	Description	Ctn Qty	List Price
PFC38BL	Blue Head for 3/8" Housing	1	\$ 23.88
PFC75BL	Blue Head for 3/4" Housing	1	28.24
PF75CS	Clear Sump for 3/4" Housing	1	70.17
PFBBS	Big Blue Sump only	1	73.33
PFOR38	O-Ring for 3/8" Series	1	4.67
PFOR75	O-Ring for 3/4" Series	1	4.67
PFBBOR	O-Ring for Big Blue	1	13.98
PFMB3814	Mounting Bracket for 3/8"	1	9.61
PFMB75	Mounting Bracket for 3/4" - U Shaped	1	14.17
PFMC1	Mounting Bracket for 3/4" caps w/ Bosses	1	14.90
PFWBBS	Mount Bracket for 1-1 1/2" Big Blue, Stainless,	1	89.71
PFCC	Standard Cartridge Coupler	1	3.87
PFCCBB	Large Diameter Cartridge Coupler	1	5.64

Housing Wrenches

PFSW1	3/8" Black Wrench for Slimline Housing	1	10.55
PFSW2	3/4" Black Wrench for Standard Housing	1	10.55
PFSW3	Black Wrench for Large Diameter Housing	1	15.91



Ultraviolet Disinfection Systems

Ultraviolet disinfection is an effective way to provide bacteria free water for home or industry.



UVSL Series

- Completely automatic.
- Compact and easy to install.
- No chemicals required.
- Low operating costs.
- Low maintenance.
- No taste or odor.



SAFE LITE Economy Series UV Disinfection System

Features:

- Quick installation.
- Economical.
- 304 stainless steel chamber. Electropolished.
- Powered by wall mounted ballast with lamp on indicator.
- 8 gallon complete with flow control.



UV, UV-SE & UV-W Series

Standard Series UV Disinfection System Features:

UV Series:

- Constructed for wall mounting.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 7 & 15 gallon complete with flow control.
- CSA approved.

UV-W Series:

- Same as UV series with:
- Internal wiper unit for manual cleaning of quartz sleeve.
- 8 & 15 gallon complete with flow control.

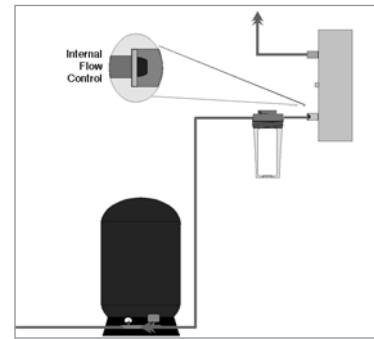
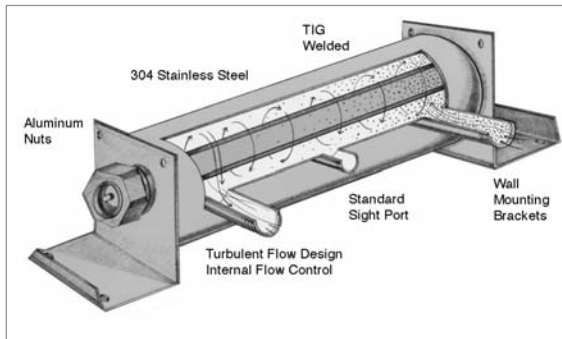
UV-SE Series:

- Same as UV series with:
- 7 & 15 gallon complete with flow control. Remote flow control adder for 24 gallon (not included)
- Electronic built-in "lamp-out" circuit/alarm.
- ON/OFF indicator light.
- Standard auxillary output terminal for optional solenoid shut-off (UVS077 not included).
- CSA pending

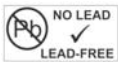
Ultraviolet Disinfection Systems



Water entering the disinfection unit flows in the space between the quartz sleeve and the chamber wall. Turbulent flow through the unit insures exposure of micro-organisms to lethal dosages of ultraviolet rays. Water exiting the chamber is safe and ready to use.



Typical Installation



Part Number	Max GPM	# of Lamps	KW @ 120V	AMPS @ 120V	AMPS @ 220V	Pipe Size	Dimensions LxWxD	Weight	Flow Control	Lamp Out Alarm	List Price
Safe Lite Economy Series											
UVSL8	8	1	0.07	.60	.30	3/4" MIP	18"x4"x7"	28	Yes	No	\$ 901.64
Standard Series											
UV7	7	1	0.07	.60	.30	3/4" MIP	18"x4"x7"	19	Yes	No	1042.15
UV15	15	1	0.07	.60	.30	3/4" MIP	36"x4"x7"	28	Yes	No	1280.37
Standard Series w/ Lamp out alarm											
UV7SE	7	1	0.07	.60	.30	3/4" MIP	18"x4"x7"	19	Yes	Yes	1108.78
UV15SE	15	1	0.07	.60	.30	3/4" MIP	36"x4"x7"	28	Yes	Yes	1353.95

Lamp out circuit board provides a visual and audible alarm when a lamp outage occurs.

Solenoid protection can be added via the on-board relay and the purchase of an UVS077 Solenoid.

220V 50Hz less power cord net adder \$ 35.72. Not available on SE series.

Non standard porting net adder \$ 75.00



Chemical Feed Pumps - CHEMTECH



Chem Tech Series 100



Chem Tech Series 200

Materials of Construction:	
Pump Head	SAN
Diaphragm	Hypalon
Valve Seats	Hypalon
Gaskets	Teflon
Disch. Tubing	Polyethylene
Suct. Tubing	Flexible PVC
Ball Checks	Ceramic
Fittings	PVC

CHEM-TECH Series 100 Features:

- Positive displacement diaphragm metering pump.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 100 PSI.
- Life-time lubricated, sealed and self-maintaining gear train.
- Four ball valve design for trouble-free operation.
- Strong chemical resistant, flame retardant housing.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Injection back pressure valve assembly enables injection at an angle and inhibits syphoning.
- Fully adjustable output capacity over operating range.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.



ISO 9002

CHEM-TECH Series 200 Features:

- Heavy duty diaphragm feed pump allows for continuous operation.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 125 PSI.
- High torque motor-gear coupling ensures start-up un maximum pressure.
- Strong fiber core casing & corrosion resistant rubber & plastic components.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Oil immersed gear train and heavy duty, fan cooled motor with thermal over load protection.
- All wetted components including diaphragm are interchangeable between all Series 200 models.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.



CHEM-TECH Motorized Models:

Includes tubing and suction & discharge fittings

Part Number	Series	Max	Output capacity	Volts	Strokes/ Min.	OD Tube Size	Ctn Qty	List Price
		Pressure PSI	@ Max psi GPD					
015-115	100	100	15	115	25	1/2"	1	\$ 740.28
015-230	100	100	15	230	25	1/2"	1	777.51
030-115	100	100	30	115	51	1/2"	1	740.28
030-230	100	100	30	230	51	1/2"	1	777.51
230-115	200	125	30	115	44	1/2"	1	1571.18
230-230	200	125	30	230	44	1/2"	1	1595.41
260-115	200	125	60	115	88	1/2"	1	1670.78

Additional ChemTech models are available, please contact your sales representative.



TM

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Chemical Feed Pumps - CHEMTECH Parts



Chem Tech Series 100



Chem Tech Series 200



ISO 9002



Stocked* Parts for Series 100 and Series 200 CHEMTECH Pumps

NEW Part Number	OLD Part Number	Description	List Price
25704	228P	Hypalon Diaphragm	\$ 84.71
28800	242P	SAN Head	89.03
28903	A51P	Head Assembly	192.57
38981	682P	Coupling Spring	10.88
41624	A53P	Anti Siphon valve assembly, 1/2" OD	157.65
J20560	278P	Ceramic Ball Check	10.55
J24960	240P	1/2" OD Standard CPLG nut	10.55
J26907	A54P	PVC Bulk Head Fitting, 1/2" OD, BFH not installed	98.32
J26908	A54Q	3/8" OD BFH not installed	98.32
J27903	237P	Teflon Gasket	11.15
J30515	J30515	PVC Bleed Valve Kit w/Tubing, 1/2" OD	137.44
J37440	638P	Hypalon Valve Seat	6.71
J38985	285P	Valve Spring	10.88
J40117	A50P	Foot Valve and Strainer Assembly, 1/2" OD	87.56
J41540	244P	Valve Housing Discharge, 1/2" OD	47.06
J41548	247P	Valve Housing, Suction, 1/2" OD	47.06
J41658	A52P	PVC Back Check Valve Assembly, 1/2" OD	99.65
J41694	J41694	1 1/2" long PVC Injection Ftg 1/2" OD tube size	140.53
J61516	J61516	Head Mounting Bolts, S.S. 10 x 24 (4 included) with washers	23.56

* Other Series 100 & 200 parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for Series 100 & Series 200 CHEMTECH Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked KOP Kits for Repairs: Keep-On-Pumping Kits

Part Number	Series	Fits Models	Tubing Size	List Price
KX030XAAAAAXX	100&200	3-100 GPD	1/2" OD	\$ 248.48



Chemical Feed Pumps - PULSATRON



C Plus Series



Materials of Construction:	
Pump Head	PVC
Diaphragm	Teflon faced, Hypalon backed
Valve Seats/ O-rings	Hypalon
Tubing	Clear PVC
Ball Checks	Ceramic
Fittings	PVC

PULSATRON®

Pulsafeeder

PULSATRON "C" Series Electronic Metering Pump

ISO 9002

Features:

- Solenoid driven assembly - no motors.
- Reliable metering performance.
- Rated "hot" for continuous use.
- High viscosity capable up to 1000 cps.
- Leak free, sealless liquid end.
- Diaphragms are teflon-faced, bonded to a composite of Hypalon & fabric layers and reinforced with a metal insert.
- Manual control by on-line adjustable stroke length (fixed stroke length.)
- Agency approved for outdoor and indoor use.
- Water resistant for outdoor applications.
- Highly reliable timing circuit.
- Guided ball check valve system to reduce back flow and enhance outstanding running characteristics.
- Premium standard wetted component material.
- Few moving parts, wall mountable.
- Safe and easy priming with durable leak-free bleed valve assembly.
- Max pressure rating: 80 psi.
- Maximum 30 gallons per day.

PULSATRON "C PLUS" Series Electronic Metering Pump Features:

- Same as above plus:
- Manual control by on-line **adjustable** stroke length **and** stroke rate.
- Manufactured for AGI in a ISO 9002 facility.

PULSATRON Stocked Electronic Models					Suction & Discharge	List Price
Part Number	Series	Pressure PSI	Max GPD	Voltage	Tube OD	
LC54SA-VHC1-XXX	C	80	30	115	3/8"	\$ 801.89
LD54SA-VHC1-xxx	C Plus	80	30	115	3/8"	959.37
LD54SA-VHCA-xxx	C Plus	80	30	115	1/2"	959.37
LD54SB-VHCA-xxx	C Plus	80	30	230	1/2"	940.99

* Additional Pulsatron models are available. Contact your sales representative.



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C Plus Series

PULSATRON®



Pulsafeeder



ISO 9002

Stocked* Parts for PULSATRON C and C Plus Series Pumps

Part Number	Description	List Price
L9906202-00	Replacement C+ Circuit board, 230V	\$ 258.91
L3300H01-PVC	3/8" OD Bleed Valve Assembly	126.82
L3300H03-PVC	1/2" OD Bleed Valve Assembly	126.82
L3101HC1-PVC	3/8" OD C+ Suction valve	58.49
L3101HCA-PVC	1/2" OD Suction Valve	58.49
L3201HC1-PVC	3/8" OD C+ Discharge Valve	58.49
L3201HCA-PVC	1/2" OD C+ Discharge valve	58.49

* Other Series C and C Plus parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for PULSATRON Series Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal,, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked K.O.P. Kits for Repairs: Keep-On-Pumping Kits

Part Number	Series	Fits Models	Suction Disch.		List Price
			Model	Size	
K4VHC1	C	30 GPD	3/8" OD		\$ 211.72
K3VHC1	C Plus	12 GPD	3/8" OD		190.94
K3VHCA	C Plus	12 GPD	1/2" OD		190.94
K4VHC1	C Plus	30 GPD	3/8" OD		211.72
K4VHCA	C Plus	30 GPD	1/2" OD		211.72



XP Series

CHEM-TECH XP Series Peristaltic Pump Features:

- Peristaltic technology delivers worry-free dosing, easy operations and minimal maintenance.
- Include adjustable, on/off with current interrupter timer.
- All metal drive gears and gear train. Metal gear housing.
- 3 piece roller design.
- Self priming.
- 115 V, 60 Hz

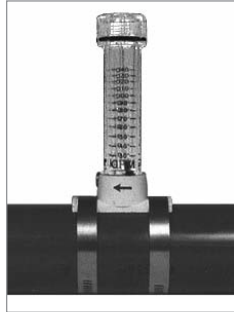


Part Number	Max PSI	GPD	RPM	Ctn Qty	List Price
XP015LAHX	100	15	30	1	\$ 977.21
XP030LAHX	100	30	30	1	977.21

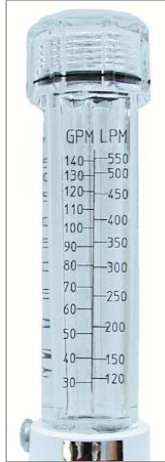
Additional models are available with or without complete tank system.



Chemical Feed Pumps - Accessories



U88 Series



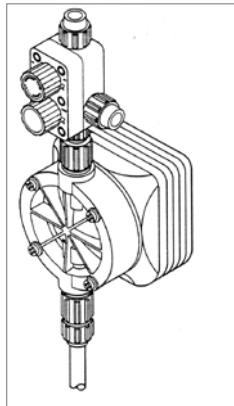
Flow Meter Features:

- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1" - 4" pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.
- Maximum temperature limit = 120 °F, Maximum pressure limit = 120 psi.

ISO 9002



Part Number	Nominal Pipe Size	Range GPM/LPM	List Price
U8800424	1"	5-35 / 20-130	\$ 141.18
U8800438	1 1/4"	10-60 / 40-220	141.18
U8800439	1 1/2"	20-80 / 80-300	141.18
U8800440	2"	30-140 / 120-550	141.18
U8800441	2 1/2"	40-200 / 160-750	141.18
U8800442	3"	80-350 / 300-1300	141.18
U8800443	4"	150-600 / 600-2200	141.18



DG/5FV De-gas Five Function Valve Features:

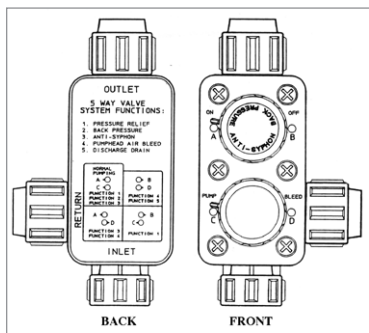
- De-Gas - Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise "air bind" the pump.
- Back Pressure - Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-siphon - Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed - Used during priming to manually remove air from the pump head.
- Discharge Drain - Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.

Operation:

- The functions are selected by setting two, independent dual position selector knobs.
- The DG/5FV' s compatible with most **PULSATRON** and **CHEMTECH** series pumps. Connected to the existing discharge valve the DG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.
- Degas/bypass volume is adjustable, typically 1-10% of pump output.

Specifications:	
Maximum Flow	240 gpd
Minimum Flow	3 gpd
Max Viscosity	1000 cps
Max Pressure	Up to 250 psi

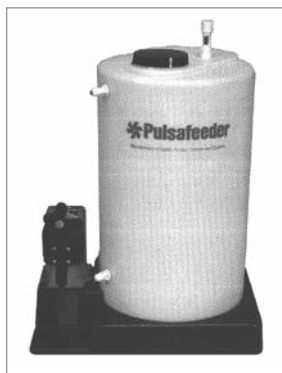
Materials of Construction:	
Valve Body	PVD
Diaphragm	Teflon faced Hypalon
O-rings	Viton or Hypalon
Hardware	188 Stainless steel (recessed)



L385 Series

Part Number	Description	O-rings	Valve Body	Connection	List Price
L385KH03-PVD	DG/5FV De-Gas Valve	Hypalon	PVD	1/2" OD tubing	\$ 389.50
L385KV03-PVD	DG/5FV De-Gas Valve	Viton	PVD	1/2" OD tubing	387.15

Chemical Feed Pumps - Accessories



TFS System

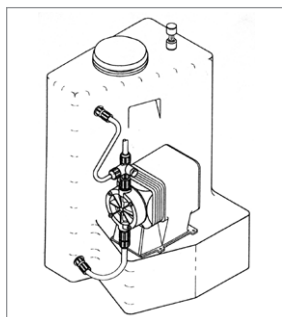
TFS System Features:

- For use with PULSATRON pumps.
- Plastic base
- 15 gallon solution tank
- 2 bulkhead fittings
- Liquid level indication

ISO 9002



Part Number	Description	List Price
J40442	15 Gallon TSF for Series 100 with 1/2" OD tubing	\$ 398.34
J40444	15 Gallon TSF for Pulsatron with 1/2" OD tubing	398.34



ITS System

Integrated Tank System (ITS) Features:

- Completely integrated system molded polyethylene
- 15 gallon capacity
- Translucent with 5 gallon increment marks.
- Low level indicator allows visual monitoring without opening tank.
- Child proof lid
- Flooded suction - No loss of prime.
- Universal pump mount.
- Built-in grip for easy lifting.
- Optional PVC shut-off valve.
- PUMP NOT INCLUDED.

Part Number	Description	List Price
J40490	15 Gallon ITS w/ 1/2" PVC bulkhead for CHEMTECH 100	\$ 565.29
J40493	15 Gallon ITS w/ 1/2" PVC bulkhead for PULSATRON	565.29

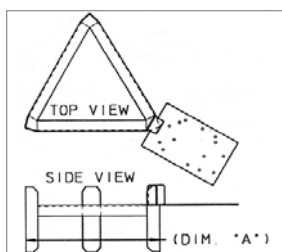


Solution Tanks

Solution Tank Features:

- High density polyethylene
- 5 gallon marked increments.
- Add "BHF" to part number for factory installed bulkhead fittings.

Part Number	Description	List Price
40375	15 Gallon liner with cover 25" x 14 1/2"	\$ 199.94
40360	30 Gallon liner with cover 32" x 18 1/2" Brine Tank	251.37
J40366	55 Gallon liner with rigid cover 42 1/2" x 18 1/2" (b) 23 (t)	468.68
26859	1/2" Bulk Head Fitting (BHF) installed at factory	44.81
26860	3/8" Bulk Head Fitting (BHF) installed at factory	44.81



Solution Tank Stand for CHEMTECH Series Features:

- Tri-pod stand with pump mounting shelf.
- 12 gauge, 304 stainless steel.

Part Number	Description	Dim. "A"	List Price
39320	15 Gallon with pump mounting shelf	14.13"	\$ 265.77
39322	30-40 Gallon with pump mounting shelf	18.63"	300.53
39321	55 Gallon with pump mounting shelf	18.13"	356.01



Sump Pump Discharge Kits



SPDK Series

SPDK Sump Pump Discharge Kits Feature:

- 24 ft of heavy duty corrugated polyethylene tubing, with 8' cutting intervals.
- 1-1/4" or 1 1/2" full size plastic male adapter with stainless steel clamp.
- Individually packaged with instructions included.

Part Number	Description	Ctn Qty	List Price
SPDK125M	Male adapter to fit 1-1/4" FIPT pump discharge	8	\$ 16.62
SPDK150M	Reducing male adapter (1 1/2" mip x 1-1/4" ins) to fit 1-1/2" FIPT pump discharge with 1 1/4" sump hose	8	17.36
SPDK150MHD	Male adapter to fit 1 1/2" FIPT pump discharge w/ 1 1/2" sump hose	6	25.12
SPDH125-300	1 1/4" bulk hose, 300'	1	183.02
SPDH150-150	1 1/2" bulk hose, 150'	1	168.54

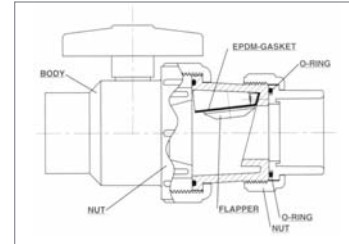
SS&E Check Valves



2200 Series

2200 Series Checkmate Features:

- One piece ball/check valve combination.
- Save time, labor and hassle to applications requiring in-line ball valves and check valves.
- True union or compression design allows for removal of check valve for cleaning or repairs.
- Rates at 125 psi. May be installed in vertical or horizontal position.
- Made of PVC type 1 grade 1 material meeting ASTM-D1784.



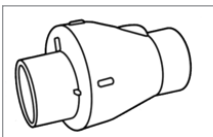
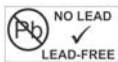
Part Number	Description	Ctn Qty	List Price
2200-15	1 1/2" Union x Slip	12	\$ 50.48
2200-20	2" Union x Slip	12	78.86
2200-15TU	1 1/2" Union x Union	12	66.87
2200-20TU	2" Union x Union	12	88.69
2200-15UC	1 1/2" Compression x Compression	12	61.06
2200-20UC	2" Compression x Compression	12	84.29



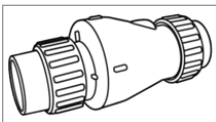
MCV Series

"Smart" Swing Check Valve Features:

- Patented innovation in swing check valve technology eliminates in-line flow restriction of conventional check valves.
- Spring loaded swing check flapper/gate allows full flow and reliable back flow prevention.
- Standard "smart" check valve remains closed to 1/2 psi, then open for full flow.
- Magnetic "smart" check valves remain closed to 2 psi, then open for full flow.



MCV821 Series



MCV823 Series



MCV850 Series

Part Number	Size	Description	Spring Tension	Ctn Qty	List Price
MCV821-10	1"	Slip x Slip	1/2 lb.	12	\$ 21.20
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12	24.16
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12	31.96
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12	35.24
MCV821-20	2"	Slip x Slip	1/2 lb.	12	37.58
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12	40.52
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12	41.03
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12	43.77
MCV823-10	1"	Union x Union	1/2 lb.	12	31.96
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12	35.24
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12	50.03
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12	53.87
MCV823-20	2"	Union x Union	1/2 lb.	12	54.40
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12	57.38
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12	57.38
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12	60.92
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12	55.70
MCV850-20	2"	Check/Slice Combo Union x Slip		12	80.88



Compression Couplings-Imported, PVC/CPVC



MATERIAL SPECIFICATIONS

#	Part	Material
1	Body	UPVC, CPVC
2	Compression Nut	UPVC, CPVC
3	Gasket - PVC	NR
	Gasket - CPVC	EPDM

PVC Compressing Coupling Features:

- Iron Pipe Size (PVC), Copper Tube Size (CPVC)
- For use with cold water (PVC) or hot water (CPVC-CTS)
- Natural rubber gasket seals
- Rated at 200 psi at 70 °F
- Imported

"PC" Series IPS DIMENSIONS (IN.)				
SIZE	D	d	d1	L
1/2"	1.85	.91	.83	5.24
3/4"	2.09	1.18	1.04	5.32
1"	2.40	1.42	1.31	5.75
1 1/4"	2.87	1.81	1.65	6.30
1 1/2"	3.15	2.05	1.89	6.89
2"	3.62	2.56	2.37	7.87
2 1/2"	4.53	2.52	2.87	9.92
3"	5.28	3.62	3.49	10.87
4"	6.34	4.65	4.49	11.93
6"	8.78	6.85	6.62	11.22

"HW" Series CTS DIMENSIONS (IN.)				
SIZE	D	d	d1	L
1/2"	1.30	.71	.63	4.49
3/4"	1.85	.95	.88	5.00

Part Number	Material	Size	Case Qty	List Price
PC10-1/2	PVC	1/2" IPS	100	\$ 2.56
PC10-3/4	PVC	3/4" IPS	90	2.97
PC10-1	PVC	1" IPS	60	3.84
PC10-11/4	PVC	1 1/4" IPS	40	4.62
PC10-11/2	PVC	1 1/2" IPS	30	6.37
PC10-2	PVC	2" IPS	20	8.87
PC10-21/2	PVC	2 1/2" IPS	10	20.26
PC10-3	PVC	3" IPS	4	28.67
PC10-4	PVC	4" IPS	2	37.83
PC10-6	PVC	6" IPS	2	91.00
HW10CTS1/2	CPVC	1/2" CTS	20/360	4.48
HW10CTS3/4	CPVC	3/4" CTS	20/240	5.42



SW Series

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
Adjustable Strap Wrench			
SW400	1/2" through 4"	10/60	\$ 19.47
SW600	1/2" through 6"	10/60	22.05



Compression Fittings, Galvanized



Galvanized Long Pattern Compressing Fitting Features:

- Bodies made of steel tubing. (GC 10), malleable iron (GC10C)
- End nuts made of malleable iron.
- Galvanized finish
- Buna-N gaskets on domestic fittings.
- SBR gaskets on GC10C series.
- Maximum rated service temperature for gaskets: 212 °F (100° C).

WARNING: Designer and/or contractor must provide suitable anchoring of piping to prevent pull-out from fittings when applications subject piping to external forces such as ground shift and temperature variations that cause linear pipe contraction.

Recommended Maximum Pressure (PSI)		
Size	Torque Ft. Lbs	Anchored Piping
1/2"	150	150
3/4"	150	150
1"	225	100
1-1/4"	225	100
1-1/2"	225	100
2"	300	75



GC10C Series

ISO 9002



Coupling GC10C - Long Pattern - Imported - Malleable Iron, 125 PSI, 120° F

Part Number	Size	Pipe O.D.	Ctn/Case Qty	List Price
GC10C1/2	1/2"	.840	30 / 60	\$ 11.89
GC10C3/4	3/4"	1.050	25 / 50	13.33
GC10C1	1"	1.315	15 / 30	15.65
GC10C11/4	1-1/4"	1.660	12 / 24	19.86
GC10C11/2	1-1/2"	1.900	9 / 18	23.54
GC10C2	2"	2.375	14	35.21



GC10 Series

Coupling GC10 - Made in U.S.A. - Steel Tube

Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC10-1/2	1/2"	.840	12	\$ 28.23
GC10-3/4	3/4"	1.050	12	30.78
GC10-1	1"	1.315	12	36.34
GC10-11/4	1-1/4"	1.660	6	48.53
GC10-11/2	1-1/2"	1.900	6	53.60
GC10-2	2"	2.375	6	67.36



GC12 Series

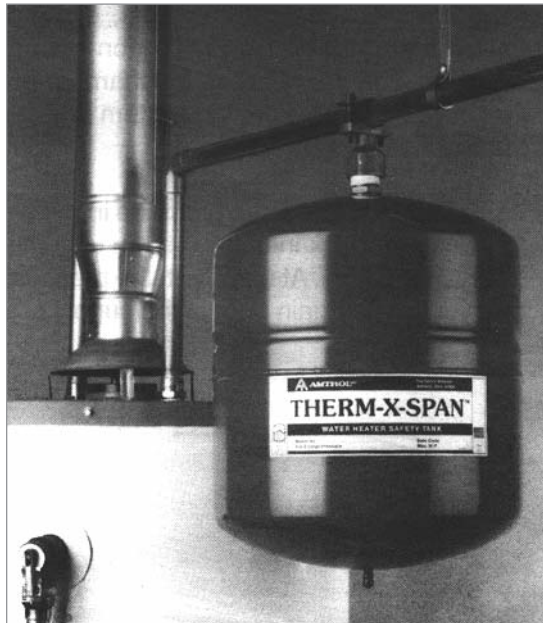
Adapters GC12 - Made in U.S.A. - Steel Tube

Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC12-1/2	1/2"	.840	12	\$ 39.75
GC12-3/4	3/4"	1.050	12	41.61
GC12-1	1"	1.315	12	42.14
GC12-11/4	1-1/4"	1.660	6	50.09
GC12-11/2	1-1/2"	1.900	6	69.65
GC12-2	2"	2.375	6	69.78





Tanks - Thermal Expansion



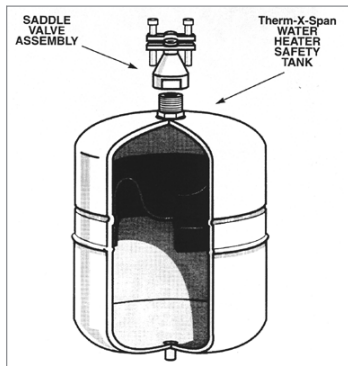
THERM-X-SPAN™

Hot Water Heater Safety Expansion Tank

THERM-X-SPAN™ tanks are diaphragm-type, pre-pressurized expansion tanks specifically designed for use with domestic hot water heaters. They act as a safety tank to accept the increased volume of water created when a water storage tank is heated, therefore keeping the system below the relief valve setting. These tanks are recommended in areas where a backflow preventer, check valve or pressure reducing valve is used, creating a closed system.

Features and Benefits:

- Eliminates relief valve spillage
- Controls pressure build-up
- Protects plumbing fixtures
- Smothers water hammer
- Extends water heater life
- Eliminates hot water waste



Specifications:

- Steel shell
- Polypropylene liner, butyl diaphragm
- Brass system connection on G5 and G12
- Stainless steel connection on ST25V, ST30V and ST42V
- 200° F maximum operating temperature
- 150 PSI maximum working pressure
- 40 PSI factory precharge



ANSI/NSF 61



IAPMO



REPORT #93126



City of Los Angeles Approved

Part Number	Configuration	Tank Volume	System Connection	Dimensions			List Price
				Diameter	Height	Weight	
G5	IN-LINE	2 gal	3/4" NPTM	8"	12 5/8"	5 lbs.	\$ 135.57
G12	IN-LINE	4.4 gal	3/4" NPTM	11"	15"	9 lbs.	181.90
ST25V	STAND	10.3 gal	1" NPTF	15 3/8"	19 1/4"	23 lbs.	514.56
ST30V	STAND	14.0 gal	1" NPTF	15 3/8"	23 7/8"	25 lbs.	630.43



In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (866) 503-5523 Fax (888) 562-2095

www.americangranby.com

1/15/13



443

Air Purger Features:

- Reliable and continuous air separation with maintenance free operation.
- Designed using a double water passage way with internal contours and baffles.
- Efficiently separates air from water sending it to the vent for removal.
- In-line unit -- one piece cast iron construction.
- Individually packaged.



700-C

Float Type Air Vent Features:

- Designed to be installed at the hydronic system high points on heaters and baseboard convectors directly on top of the air purger.
- Improves system efficiency.
- Compact size to fit the smallest spaces.
- Rugged cast bronze body construction for durability.
- Industry proven servicable design with take-apart feature.
- Individually packaged.



500



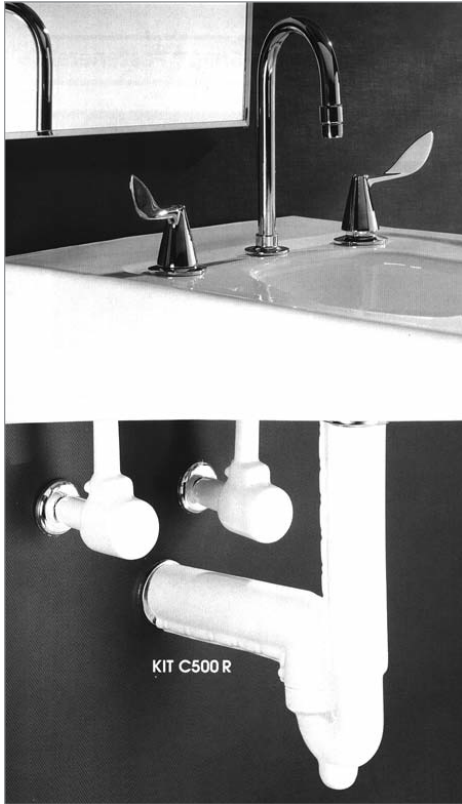
Mini Trol® Water Hammer Arrestor Features:

- Intercepts surges in water lines, preventing damage and annoying shock waves set in motion by quick closing valves.
- Polypropylene liner and diaphragm totally separates water from body.
- Guaranteed not to waterlog or lose air.

Air Purger								
Part Number	Pipe Size	Dimensions(Ins.) "L" "W" "H"			Tank Conn	Vent Conn	Ctn Qty	List Price
443-1	1"	6	2-1/2	4	1/2 FIPT	1/8 FPS	1	\$ 49.29
444-11/4	1-1/4"	6	2-1/2	4	1/2 fipt	1/8 fps	1	50.79
445-11/2	1-1/2"	8	3-1/2	5	1/2 fipt	1/8 fps	1	108.55
446-2	2"	8	3-1/2	5	1/2 fipt	1/2 fps	1	123.76

Air Vent					
Part Number	Maximum PSI	Maximum Temp	Connection	Ctn Qty	List Price
700-C	150 PSI	230 °F (110 °F)	1/8 MPS (NPTM)	1	\$ 22.46

Mini Trol®				
Part Number	Description	Connection	Ctn Qty	List Price
500	Mini Trol	1/2 Male	24	\$ 86.32



HC500R Series

Trap Wrap™ brand insulation kits offer an economical way to professionally insulate exposed undersink piping. Integrally molded fasteners press together to provide an easy, seamless, retrofit installation.



Trap Wrap™ Features:

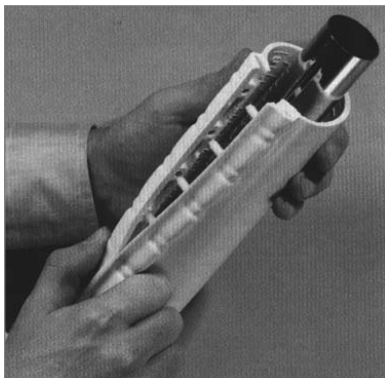
- Press-snap™ fasteners.
- Molded-in measurements.
- A.D.A. compliant.
- China White in color.
- Removable for service.
- Completely covers pipes and supplies.
- Sanitary surface.
- 2 piece P-trap assembly, 1 piece angle valve.
- Patented.

Satisfies the following requirements:

- A.D.A article 4.19.4
- A.N.S.I. A117.1
- California article P.1504B
- B.O.C.A. article P1203.4

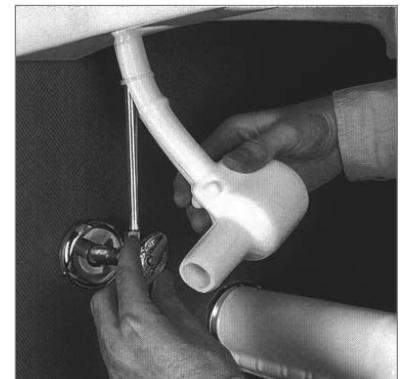
Part Number	Description	Ctn Qty	List Price
HC500R	Standard Trap Wrap	15	\$ 89.09
HC500RHS	Trap Wrap with extra sink bend	15	119.54

TrapWrap is a trademark of Brocar Products, Inc.



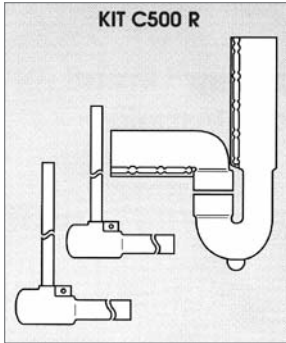
Angle valve cover allows for easy and quick emergency shut-off without removing cover

- Virtually seamless for enhanced appearance
- Reinstallable after service
- Highly tamper resistant
- Easily cleaned.

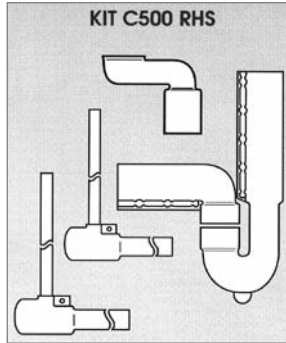




Formerly Brocar Products, Inc.



Includes 15" tail piece and trap cover, 8" waste arm insulation, fasteners, and hot and cold angle valve cover.



Includes all parts of HC500R plus C500HS off-set grid drain cover.

ASTM DATA

ASTM G21	Anti-Bacterial	No measurable bacterial growth
ASTM G22	Anti-Fungal	No measurable fungal growth
ASTM D635	Burning Characteristics	Less than 5 sec (ATB) 10 MM (AEB)
ASTM C177	Thermal conductivity	BTU - in/hr - ft ² - °F k value = 1.02

Sample Specification:

Wheelchair accessible lavatories and sinks shall be insulated with TrueBro Trap Wrap™ Insulation Kit (indicate model #, color and accessories). Trap assemblies shall have vinyl insulating outer shell with concealed integral fasteners for a virtually seamless finished installations. Angle stop covers shall permit unrestricted access to angle valves without removal of cover.



Perforated Hanger Strapping



101 Series Galvanized Duct Tape

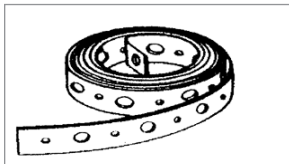
- 24 and 28 gauge
- Alternate 1/4" and 5/16" bolt and nail holes
- 3/4" width

102 Series Plastic Polypropylene Hanger Strapping

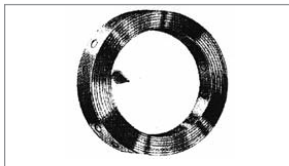
- 1/8" dia. holes
- Max working load - 15# @ 85° F
- Breaking Strength - 100# @ 68° F

100G Series Galvanized or Zinc Plated

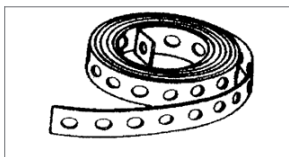
- Perforated hanger strapping
- 20 to 28 gauge
- 1/4" bolt holes
- 3/4" width



101 Series



102 Series



100G and 100S Series

Part Number	Size	Ctn Qty	List Price
101 Series - Galvanized Duct Tape			
101-10	3/4" x 10' x 24 gauge	50	\$ 2.57
101-50	3/4" x 50' x 24 gauge	10	14.78
101-100	3/4" x 100' x 24 gauge	5	28.60
101-10-28	3/4" x 10' x 28 gauge	50	2.28
101-50-28	3/4" x 50' x 28 gauge	10	13.56
101-100-28	3/4" x 100' x 28 gauge	5	24.64
102 Series - Plastic Polypropylene			
102-10	3/4" x 10' x .05 gauge	BULK/100	2.42
102-25	3/4" x 25' x .05 gauge	1/40	4.71
102-50	3/4" x 50' x .05 gauge	1/20	12.59
102-100	3/4" x 100' x .05 gauge	1/10	22.50
100G Series - Galvanized or Zinc Plated			
100G-10-24	3/4" x 10' x 24 gauge	50	2.56
100G-50-24	3/4" x 50' x 24 gauge	10	14.78
100G-100-24	3/4" x 100' x 24 gauge	5	28.60
100G-10-28	3/4" x 10' x 28 gauge	50	2.12
100G-10-22	3/4" x 10' x 22 gauge	50	3.21
100G-50-22	3/4" x 50' x 22 gauge	10	18.48
100G-100-22	3/4" x 100' x 22 gauge	5	34.56
100G-10-20	3/4" x 10' x 20 gauge	50	3.75
100G-50-20	3/4" x 50' x 20 gauge	10	20.19
100G-100-20	3/4" x 100' x 20 gauge	5	23.42
100S Series - Steel Plain			
100S-10-24	3/4" x 10' x 24 gauge	50	2.28



604 Series

604 Series Insulated Glide Clip Features:

- Specially compounded material wrapped around copper clad steel permits smooth, silent pipe movement.
- Prevents electrolysis and corrosion.
- Resists temperature up to 280° F (137° C). Ideal for hot water heating or supply lines -- eliminates creaking noises made by pipe expanding and contracting against wood surfaces.



606 Series

606 Series Van Hanger Features:

- Unique design for applications that require space between pipe and mounting surface.
- Copper clad steel, heavy duty metal construction.



608 Series

608 Series Copper Tube Strap Features:

- Copper clad steel; heavy duty metal construction.

Part Number	Size	Mounting Hardware (incl)	Ctn Qty	List Price
Insulated Glide Clips				
604-1/2	1/2"	Copper Clad Nails	10	\$ 3.79
604-3/4	3/4"	Copper Clad Nails	10	4.08
604-1	1"	Copper Clad Nails	10	5.11
604-11/4	1-1/4"	Copper Clad Nails	10	5.76
Copper Clad Van Hangers				
606-1/2	1/2"	Copper Clad Screw	20	2.94
606-3/4	3/4"	Copper Clad Screw	20	3.15
606-1	1"	Copper Clad Screw	20	3.44
Copper Tube Straps				
608-1/2	1/2"	Copper Clad Nails	100	0.42
608-3/4	3/4"	Copper Clad Nails	50	0.48
608-1	1"	Copper Clad Nails	50	0.63
608-11/4	1-1/4"	Copper Clad Nails	50	0.75



Strap & Tube Hangers



601 Series

601 Series American Tube Hanger Features:

- Designed to utilize scrap 1/2" copper tube for extension.
- Packaged 10 sets (hanger clamp and tube brace).
- Copper clad wood mounting screws are included.



602 Series

602 Series Insulated Strap Hanger Features:

- Specially compounded material prevents pipe noise from reaching the floor joists.
- Copper clad steel with mounted machine screw and fiber washer.
- Copper clad nails are included.

Part Number	Pipe Diameter	Fits Extension Tube Size	Mounting Hardware Included	Ctn Qty	List Price
American Tube Hangers					
601-1/2	1/2"	1/2"	Wood Screws	10	\$ 3.61
601-3/4	3/4"	1/2"	Wood Screws	10	4.48
601-1	1"	1/2"	Wood Screws	10	5.16
601-11/4	1-1/4"	1/2"	Wood Screws	10	6.25
601-11/2	1-1/2"	1/2"	Wood Screws	10	6.77
601-2	2"	1/2"	Wood Screws	10	7.18
Insulated Strap Hangers					
		Hanger Length			
602-1/2x6	1/2"	6"	Copper Clad Nails	25	5.30
602-1/2x12	1/2"	12"	Copper Clad Nails	25	6.15
602-3/4x6	3/4"	6"	Copper Clad Nails	25	5.41
602-3/4x12	3/4"	12"	Copper Clad Nails	25	6.21
602-1x6	1"	6"	Copper Clad Nails	25	5.55
602-1x12	1"	12"	Copper Clad Nails	25	6.38
602-11/4x6	1-1/4"	6"	Copper Clad Nails	25	5.73
602-11/4x12	1-1/4"	12"	Copper Clad Nails	25	6.42



337 Series

J-Hook Features:

- Made of high impact ABS for increased load capacity.
- Supports copper, CPVC, drain, waste and vent plastic pipe from joists and rafters.



Part Number	Description	Bag/Ctn Qty	List Price
J-Hooks			
33745	1/2" x 4" CTS	25/300	\$ 1.81
33746	3/4" x 4" CTS	25/300	1.80
33747	1" x 4" CTS	25/200	2.15
33740	1 1/2" x 7 1/2" DWV	25/300	2.42
33741	2" x 7 1/2" DWV	25/300	2.57
33742	3" x 7 1/2" DWV	25/300	2.53

Strap & Tube Hangers



603 Series

603 Series Natick Strap Hanger Features:

- Made from copper clad steel, will not rust or rot.
- A tapered end, copper clad machine screw with fiber washer is mounted on every hanger for quick, tumble free installations.
- Can be mounted cross beam or along the beam.
- Copper clad mounting nails are included.



Part Number	For Pipe Size	Hanger Length	Mounting Hardware Included	Ctn Qty	List Price
Natick Strap Hangers					
603-1/2x6	1/2"	6"	Copper Clad Nails	25	\$ 3.01
603-1/2x12	1/2"	12"	Copper Clad Nails	25	3.70
603-3/4x6	3/4"	6"	Copper Clad Nails	25	3.03
603-3/4x12	3/4"	12"	Copper Clad Nails	25	3.71
603-1x6	1"	6"	Copper Clad Nails	25	3.08
603-1x12	1"	12"	Copper Clad Nails	25	3.89
603-11/4x6	1-1/4"	6"	Copper Clad Nails	25	3.05
603-11/4x12	1-1/4"	12"	Copper Clad Nails	25	3.87



Tapes - Teflon® Thread Seal



HTST Series



Imported Teflon® Thread Seal Tape Features:

- Medium density thread seal tape requires fewer wraps.
- Manufactured from 100% virgin PTFE.
- 3.5 mil thick.
- Mil. Spec. T-27730A.
- Meets ASTM D-3308.

• Teflon® is a Dupont registered trademark

Part Number	Width	Length	Color	Ctn/Case Qty	List Price
HTST260-1/2	1/2"	260 inches	White	144/576	\$ 0.95
HTST260-3/4	3/4"	260 inches	White	144/576	1.38
HTST260-1	1"	260 inches	White	144/576	1.44
HTST520-1/2	1/2"	520 inches	White	144/576	1.42
HTST520-3/4	3/4"	520 inches	White	144/576	1.68
HTST520-1	1"	520 inches	White	144/576	1.72



HTT Series



Made in USA PTFE Thread Seal Tape Features:

- UL Listed.
 - 100% virgin PTFE.
- HTT260/HTT520 Medium Density PTFE Tape

- White general purpose
- Medium density.

HTT260-1/2SS Gray Stainless Steel PTFE Tape

- Nickel pigment added for use on all stainless steel threads.
- Prevents galling, seizing and corrosion.
- High density for coarse SS threads.



HTT260-1/2PP Pink Plumbers PTFE Tape

- For plumbers and pipe fitters.
- Pink to signify heavier than standard or medium density.

HTT260-1/2GAS Yellow Gas Service PTFE Tape

- For gas lines of all types- Natural gas, butane, propane.

HTT260-1/2OXY Green Oxygen PTFE Tape

- Green for oxygen applications. Grease free.
- For all oxygen lines. Will not support combustion.

HTT260-1/2XHD White Extra High Density PTFE Tape

- For all industrial applications.
- Can be used for water, oil, chemical, medical or food processing.

Part Number	Color	Usage	Thickness	Density	Temp Range	Specs
HTT260	White	General	3.5 mil	.90	-450°F to +550°F	Mil T-27730A
HTT520	White	General	3.5 mil	.90	-450°F to +550°F	Mil T-27730A
HTT260-1/2OXY	Green	Oxygen lines	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA58092
HTT260-1/2PP	Pink	Plumbing	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA
HTT260-1/2XHD	White	Industrial	3.5 mil	1.20	-450°F to +550°F	Mil T-27730A
HTT260-1/2SS	Light Gray	Stainless Steel	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA58092
HTT260-1/2GAS	Yellow	Gas lines	3.5 mil	1.20	-450°F to +550°F	Mil T-27730A

Part Number	Width	Length	Color	Case Qty	List Price
HTT260	1/2"	260 in	White	144	\$ 2.98
HTT520	1/2"	520 in	White	144	4.26
HTT520-3/4	3/4"	520 in	White	144	5.90
HTT520-1	1"	520 in	White	144	7.50
HTT260-1/2OXY	1/2"	260 in	Green	144	7.03
HTT260-1/2PP	1/2"	260 in	Pink	144	7.03
HTT260-1/2XHD	1/2"	260 in	White	144	7.03
HTT120-1/2SS	1/2"	120"	Light Gray	144	4.42
HTT260-1/2SS	1/2"	260 in	Light Gray	144	7.03
HTT260-1/2GAS	1/2"	260 in	Yellow	144	7.03



In the United States: Phone (800) 776-2266 Fax (800) 729-3299
 In Canada: Phone (866) 503-5523 Fax (888) 562-2095

www.americangranby.com

1/15/13



T60



General Purpose Vinyl Electrical Tape Features:

- Economical, flexible, general purpose electrical tape.
- Use for insulation, protective jacketing and harnessing.
- 7 mil thickness.
- Temperature Range 32°F and 176°F.
- Meets mil spec. MIL-I-7798A.
- Imported

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
T60	7 mil	3/4" x 60 feet	Black	64	\$ 1.97



T60NL



General Purpose NO LEAD Vinyl Electrical Tape Features:

- < 0.25% Pb by weighted average.
- Economical, flexible, general purpose electrical tape.
- Use for insulation, protective jacketing and harnessing.
- 7 mil thickness.
- Temperature Range 32°F and 176°F.
- Meets mil spec. MIL-I-7798A.
- Imported



Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
T60NL	7 mil	3/4" x 60 feet	Black	64	\$ 2.12



AWT60 Series



Premium All Weather Vinyl Electrical and Pipe Wrap Tape Features:

- For use in **all weather** applications.
- Use for insulation, protective jacketing and harnessing and pipe wrap.
- 7 mil thickness, 3/4" or 2" width.
- Temperature range 14 °F and 176 °F.
- Meets Mil. Spec. MIL-1-7798A.
- Tested to ASTM D-1000
- Imported

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
AWT60	7 mil	3/4" x 60 feet	Black	64	\$ 2.22
AWT60-2	7 mil	2" x 60 feet	Black	48	5.64



AWT60NL Series



Premium All Weather NO LEAD Vinyl Electrical and Pipe Wrap Tape Features:

- < 0.25% Pb by weighted average.
- For use in **all weather** applications.
- Use for insulation, protective jacketing and harnessing and pipe wrap.
- 7 mil thickness, 3/4" or 2" width.
- Temperature range 14 °F and 176 °F.
- Meets Mil. Spec. MIL-1-7798A.
- Tested to ASTM D-1000
- Imported

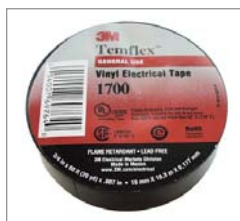


Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
AWT60NL	7 mil	3/4" x 60 feet	Black	64	\$ 2.39
AWT60-2NL	7 mil	2" x 60 feet	Black	48	6.07





Tapes - 3M Vinyl, Rubber



1700



LISTED
539H

Insulating Tape



LR48769



NO LEAD
< 0.25% Pb by
weighted avg.
Third Party Certified
to NSF / ANSI 372

3M® 1700 Temflex™ Vinyl Electrical Tape Features:

- Economical, flexible, general purpose electrical tape.
- Use for protective jacketing and harnessing.
- 7 mil thickness.
- Temperature rating to 176 °F, 80 °C.
- Meets ASTM D-2301 Type 1.
- Imported

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
1700	7 mil	3/4" x 60 feet	Black	100	\$ 3.73



TS Series

ISO 900 X



Scotch® is a 3M registered trademark



NO LEAD
< 0.25% Pb by
weighted avg.
Third Party Certified
to NSF / ANSI 372

3M® Scotch® Professional Use Premium Vinyl Plastic Tape Features:

- Highly conformable, super stretchy in **all weather** applications.
- Resists UV rays, abrasion, corrosion, alkalis and acids.
- Flame Retardent.
- 7 mil tape thickness Super 33+. 8.5 mil thickness Super 88
- Temperature range 0 °F to 220 °F.
- Use as a primary insulation for wire cable splices up to 600V.
- Use as protective jacketing.
- Made in USA. Made for AGI in a ISO 900X facility.

Super 33+
ASTM D-3005 Type I
UL273 & CSA LR48769

Super 88
MIL-I-24391C
ASTM D-3005 Type I
UL 539H & CSA LR48769

Part Number	Thickness	WidthxLength	Color	Ctn Qty	List Price
TS33-20	7 mil	3/4" x 20 feet	Black	10/100	\$ 6.49
TS33-44	7 mil	3/4" x 44 feet	Black	10/100	11.76
TS33-66	7 mil	3/4" x 66 feet	Black	10/100	14.61
TS88-66	8.5 mil	3/4" x 66 feet	Black	10/100	18.60



2242

ISO 900 X



LEAD-FREE

3M® 2242 Linerless Electrical Rubber Tape Features:

- Multi-purpose rubber insulating tape.
- Designed for use in splicing and terminating wires and cables.
- Rated up to 194 °F (90 °C) continuous.
- Highly conformable, linerless EPR (Ethylene Propylene Rubber) based tape.
- No Liner for easier handling.
- Excellent thermal dissipation for longer cable life.
- Excellent moisture seal.
- With Flame retardant.
- Meets HH-I-553C and ASTM D-4388 Type I, II, III.

Part Number	Thickness	WidthxLength	Ctn Qty	List Price
2242	30 mil	3/4" x 15 feet	24	\$ 21.48



American Granby Inc.™

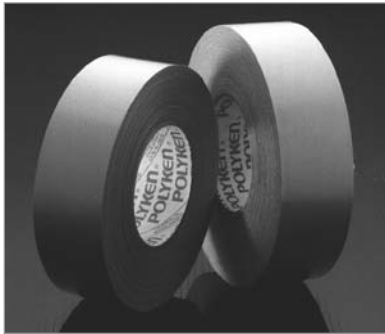
www.americangranby.com

1/15/13

In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (866) 503-5523 Fax (888) 562-2095

7.3

Tapes - Duct



AGDUCT / HDT / EDT Series

Meets UL723

ISO 9001

Contractor/Industrial Grade Cloth Reinforced Duct Tape Features:

- Multi-purpose duct tapes.
- Polyethylene coated cloth backing.
- Natural rubber based adhesive.
- Temperature range: 40°F to 200 °F.
- Superior tensile strength, adhesion and tack.
- For seaming, sealing and hanging polyethylene or vinyl.
- HDT Series recommended for pool liner installations.
- Conformable and will not curl or twist during application.
- Manufactured for AGI in an ISO9001 facility.

POLYKEN

PolyNash®

Part Number	Thickness	Width x Length	Color	Ctn Qty	List Price
EDT260	7.5 mil	48mm x 55m (2" x 60 yds)	Silver	24	\$ 12.20
AGDUCT	9 mil	48mm x 55m (2" x 60 yds)	Silver	24	19.48
HDT260	10 mil	48mm x 55m (2" x 60 yds)	Silver	24	23.04
HDT260 BLUE	10 mil	48mm x 55m (2" x 60 yds)	Blue	24	23.04
HDT260 GREEN	10 mil	48mm x 55m (2" x 60 yds)	Green	24	23.04
HDT260 RED	10 mil	48mm x 55m (2" x 60 yds)	Red	24	23.04
HDT260 YELLOW	10 mil	48mm x 55m (2" x 60 yds)	Yellow	24	23.04
HDT260 BLACK	10 mil	48mm x 55m (2" x 60 yds)	Black	24	23.04
HDT260 WHITE	10 mil	48mm x 55m (2" x 60 yds)	White	24	23.04

Part Number	Adhesive	Total Thickness (mil)	Tensile Strength (lb/in)	Adhesion to Steel (oz/in)	Flame Spread	Smoked Developed Index
EDT260	Rubber	7.5	19.0	28	--	--
AGDUCT	Rubber	9.0	29.0	45	--	--
HDT260	Rubber	10.0	24.0	60	10	5



Hand Cleaner Towels



SCRUBS® WATERLESS HAND CLEANING TOWELS



So unique they needed a patent! Powerful yet safe cleaning agents work together with an absorbent, non scratching abrasive hand cleaning towel. The result is hands that are clean and protected, with a pleasant fragrance...and are residue free. These shop size, durable towels quickly remove tough to clean substances including: Dirt, Heavy Grease, Adhesives, Lubricants, Oils, Ink, Tar, Wax, Caulk, Sealants, Paint and more.

Scrubs® is registered by Dymon Inc.

Features:

- Pre-moistened, heavy duty towel with pumice scrubbing power.
- Works fast to loosen, dissolve and absorb dirt & grease.
- Deep cleaning scrubbers remove embedded grime easily.
- Conditions and softens hands... *No rinsing. No drying. No residue.*

Part Number	Description	Ctn Qty	List Price
SCRB72	Scrubs 72 Count Bucket	6	\$ 37.50
42293	Scrubs Attachable Bracket	1	26.65



PERMATEX FAST ORANGE® HAND CLEANER WIPES



Fast Orange Hand Cleaner Wipes remove the toughest grease, tar, grime, ink, paints, sealants, adhesives and other difficult soils. Each pre-moistened wipe has a textured surface on one side that is ideal for cleaning heavy-duty soils from hands, tools and work areas. The wipes also have a smooth side for general purpose cleaning.

Suggested applications: Fields service trucks, industrial work stations, construction, utility maintenance, transportation, printing, municipal maintenance, marine and warehouse personnel.

Part Number	Description	Ctn Qty	List Price
25072	72 count bucket	6	\$ 51.56



3M™ BLUE 72 Spray Adhesives

- Pressure sensitive repositionable adhesive
- Aggressive tack and low soak-in.
- Use it for temporarily positioning and holding many fabrics.
- Precise spray control with a wide spray pattern.
- Ideal for pool liner installation
- Manufactured for AGI in an ISO 900 facility.



ISO 9002



3M™ ORANGE FOAM FAST 74 Spray Adhesives

- 74 Foam Fast Adhesive gives fast tack with foam-tearing strength and a soft, non-dimpling glue line.
- Bonds foam to foam, foam to metal.
- Non-misting, precise spray pattern.
- Not for sale in California. Does not meet Aerosol Consumer Products VOC limits.
- Manufactured for AGI in an ISO 900 facility.

Product	Bond Type	Bonding Time	Spray Width	Spray Pattern	Color	Temperature Resistance	Coverage
72	Temp or Permanent	One side-8 hrs Two sides-7 days	3-3.5 in	Controlled Lace	Blue	120°F 48°C	100 sq ft. 9.3 m ²
74	Permanent	One side -not recommended Two sides-15 minutes	1-3 in variable	Lace	Light Orange	120°F 48°C	260 sq ft. 25 m ²

Part Number	Can Size	Ctn/Pallet Qty	List Price
BLUE 72	Blue Spray Adhesive 24 fl oz. can 17.33 oz. net	12/768	\$ 40.55
ORANGE74	Orange spray adhesive 24 fl oz. can 17.33 oz. net	12/768	49.20

Pallet pricing available. Call your Sales Representative.





A simple squeeze to repair horizontal cracks and spalls, and to set anchors

DP600

Horizontal Concrete Repair Features:

Hardenes in as little as 5 minutes,

Cracks and spalls in concrete floors are an eyesore as well as a potential safety risk. Fixing them has meant either hiring and waiting for an outside contractor or doing it yourself with a repair method that takes the floor out of service for up to 24 hours. Now with 3M Concrete Repair, you save money and time.

- Self-leveling urethane flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes. A fork lift can pass over a repair in as few as 15 minutes.
- Hardenes to any depth without cracking or shrinking.
- Flexible urethane expands and contracts for durability that outlasts repairs made with concrete.
- Do it yourself with a common caulking gun and eliminate the cost and wait for an outside contractor.
- *Easy to use - Just clean damaged area and fill. With every squeeze of the caulking gun trigger, cartridge nozzle meters and mixes precise proportions for optimum performance.*



Part Number	Description	Ctn Qty	List Price
DP600	Concrete Repair, 8.4 fl oz cartridge supplied with 2 nozzles	6	\$ 136.72



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
CG9	9" Ratchet	Blue	20	\$ 6.36



Horizontal Concrete Repair Specifications:

- Gray, self-leveling urethane concrete repair.
- 8.4 fl oz. cartridge of concrete repair and 2 nozzles.
- Work life of 70 sec.
- Handling time of 5 minutes
- Cure time of 60 minutes

Applications:

- Repairing cracks and spalls on concrete floors or horizontal surfaces.
- Setting anchors in concrete floors or horizontal surfaces.
- Light-duty custom threading and anchoring.
- Use outdoors or in highly ventilated area.

Approximate coverage:

Crack Width	Crack Depth	Lineal Feet per 8.4 fl. oz.
1/4"	1/4"	19.3
1/2"	1/4"	9.9
3/4"	1/4"	6.4
1"	1/4"	4.9
1/4"	1/2"	9.9
1/2"	1/2"	4.9
3/4"	1/2"	3.0
1"	1/2"	2.0

Bead Size dimension	Linear Feet per 8.4 fl oz.
1/16"	815.0
1/8"	205.0
1/4"	51.9
3/8"	22.2
1/2"	12.4

Quick and Easy Spall Repair



Clean
Remove all loose material from area to be filled. Concrete should be dry and grease-free.



Fill
Dispense product into deepest part of repair areas, slightly overfilling. Product self-levels and is tack-free in as little as one minute.



Finish
In as little as 15 minutes, product can be sanded to remove rough edges. It can be painted within one hour.

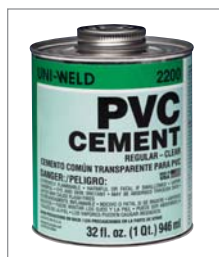


PVC Solvent Cements

United Elchem UNI-WELD

PVC REGULAR CLEAR CEMENTS

LO-VOC



2200 Series
CLEAR

- Regular bodied, clear cement for use on PVC pipe and fittings. Up to 4" for DWV Sch 40 and up to 2" for Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Sets up quickly.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
2266S	4 oz.	24	\$ 7.80
2256S	8 oz.	24	11.42
2246S	16 oz.	24	17.10
2236S	32 oz.	12	32.75
2224	1 gallon	6	125.51

PVC REGULAR CLEAR ADVANCED CEMENTS

LO-VOC



2800 Series
CLEAR

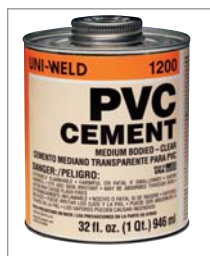
- Regular bodied, clear cement for use on PVC pipe and fittings. Up to 4" for DWV Sch 40 and up to 2" for Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit and DWV.
- Sets up quickly.
- Recommended application temperature 40°F to 100°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
2866S	4 oz.	24	\$ 6.93
2856S	8 oz.	24	11.64
2846S	16 oz.	24	20.30
2836S	32 oz.	12	35.83
2824	1 gallon	6	125.99

PVC MEDIUM CLEAR CEMENTS

LO-VOC



1200 Series
CLEAR

- Medium bodied, clear cement for use on PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, drain, waste and vent pipe, and potable water
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
1266S	4 oz.	24	\$ 7.80
1256S	8 oz.	24	11.47
1246S	16 oz.	24	20.07
1236S	32 oz.	12	31.94
1224	1 gallon	6	105.78

PVC Solvent Cements



United Elchem
UNI-WELD

PVC MEDIUM GRAY CEMENTS

LO-VOC



1600 Series
GRAY

- Medium bodied, gray colored cement for use on PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
1666S	4 oz.	24	\$ 8.62
1656S	8 oz.	24	13.21
1646S	16 oz.	24	21.56
1636S	32 oz.	12	37.78
1624	1 gallon	6	119.01

PVC MEDIUM "HOT" BLUE CEMENTS

LO-VOC

PLUMB-TITE™



2000 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Blue color fades to clear in direct sunlight.
- No primer needed on non-pressure DWV, where local codes permit.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
2066S	4 oz.	24	\$ 8.70
2056S	8 oz.	24	13.58
2046S	16 oz.	24	20.67
2036S	32 oz.	12	37.32
2024	1 gallon	6	180.55



PVC Solvent Cements

United Elchem
UNI-WELD

PVC ALL WEATHER CEMENTS

LO-VOC

POLAR-WELD



2600 Series
CLEAR

- Medium bodied, clear cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Non-pressure DWV, up through 4" diameter: No primer needed, where local codes permit.
- **Formulated for fast initial set-up at temperatures down to -5°F to 110°F.**
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
2666S	4 oz.	24	\$ 10.21
2656S	8 oz.	24	11.97
2646S	16 oz.	24	20.52
2636S	32 oz.	12	32.34
2624	1 gallon	6	185.47

PVC MEDIUM RAIN-R-SHINE® BLUE CEMENTS

LO-VOC



308 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Pool/Irrigation installations.
- **No primer needed on non-pressure DWV, where local codes permit.**
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
30890	4 oz.	24	\$ 8.24
30891	8 oz.	24	13.31
30893	16 oz.	24	19.11
30894	32 oz.	12	38.55
30895	1 gallon	6	127.40



American Granby Inc.™

In the United States: Phone (800) 776-2266 Fax (800) 729-3299
In Canada: Phone (866) 503-5523 Fax (888) 562-2095

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PVC Solvent Cements





United Elchem
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PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC TURF-TITE

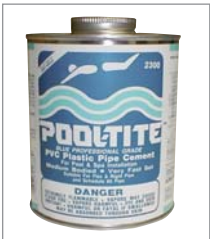


2400 Series BLUE

- Medium bodied, blue colored cement for PVC pipe and fitting. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Irrigation installations.
- Fades to clear in sunlight.
- No primer needed on non-pressure DWV, where local codes permit.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.  
- Meets California Air Quality Management District and other environmental district rules.

Part Number	Size	Case Qty	List Price
2466S	4 oz.	24	\$ 8.70
2456S	8 oz.	24	13.58
2446S	16 oz.	24	20.67
2436S	32 oz.	12	37.32
2424	1 gallon	6	117.05

PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC POOL-TITE



2300 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit, PVC flex pipe and DWV.
- **Color fades to clear in sunlight.**
- **No primer needed on non-pressure DWV, where local codes permit.**
- Recommended application temperature 40°F to 100°F.
- Works on flex to rigid pipe applications.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.

Part Number	Size	Case Qty	List Price
2366S	4 oz.	24	\$ 8.70
2356S	8 oz.	24	13.58
2346S	16 oz.	24	20.67
2336S	32 oz.	12	37.32
2324	1 gallon	6	117.05



PVC, CPVC Solvent Cements

United Elchem
UNI-WELD

PVC MEDIUM CLEAR FAST SET CEMENTS LO-VOC POOL-CLEAR



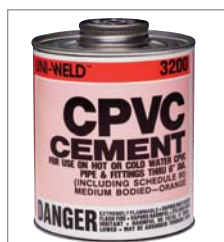
2900 Series
CLEAR

- Medium bodied, clear cement for PVC pipe and fitting. Up to 6"
- Recommended for Sch 40 and Sch 80 pipe and fittings.
- Also recommended for PVC flex pipe.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
30875	4 oz.	24	\$ 8.29
2946S	16 oz.	24	20.27
2936S	32 oz.	12	35.71
2924	1 gallon	6	154.39

CPVC MEDIUM ORANGE CEMENTS LO-VOC



3200 Series
ORANGE

- Medium bodied, orange colored cement for use on CPVC pipe and fittings. Up to 6"
- For copper tube size (CTS) and Sch 80, potable water pressure pipe.
- Recommended application temperatures down to 40°F to 110°F.
- Meets ASTM F-493.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
3266S	4 oz.	24	\$ 10.35
3256S	8 oz.	24	16.00
3246S	16 oz.	24	31.20
3236S	32 oz.	12	39.82

CPVC FLOWGUARD® GOLD™ LO-VOC 1-STEP YELLOW CEMENTS



319 Series

- Exceeds new environmental requirements and meets various CA district rules.
- For copper tube size (CTS) CPVC hot and cold potable water pipe and fittings up to 2" interference fit only.
- May be used without primer where local codes permit.
- For cold water systems and hot water systems up to 180°F.
- Faster cure time/reduced installation time.
- Meets ASTM F-493.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
31910	4 oz.	24	\$ 11.19
31911	8 oz.	24	17.89
31912	16 oz.	24	32.27

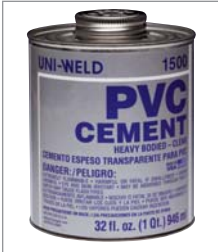
PVC and Multipurpose Solvent Cements



United Elchem
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PVC HEAVY DUTY CLEAR CEMENTS

LO-VOC



1500 Series
CLEAR

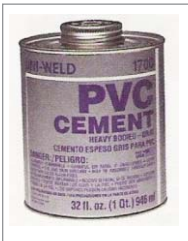
- Heavy bodied, clear cement for PVC pipe and fittings. Up to 18" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Thick formula fills gaps in large diameter pipe and loose fitting joints.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
1566S	4 oz.	24	\$ 6.77
1556S	8 oz.	24	10.64
1546S	16 oz.	24	23.29
1536S	32 oz.	12	38.02
1524	1 gallon	6	117.80

PVC HEAVY DUTY GRAY CEMENTS

LO-VOC



1700 Series
GRAY

- Heavy bodied, gray colored cement for use on PVC pipe and fittings. Up to 18" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Thick formula fills gaps in large diameter pipe and fitting.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
1756S	8 oz.	24	\$ 14.03
1746S	16 oz.	24	25.65
1736S	32 oz.	12	42.15
1724	1 gallon	6	157.42

MULTI PURPOSE REGULAR CLEAR CEMENTS

LO-VOC



6200 Series
CLEAR

- Regular bodied, clear cement for ABS, PVC or CPVC up to 4".
- Recommended for pipe and fittings Sch 40 and Sch 80, potable water, pressure pipe and DWV.
- Recommended application temperature 40°F to 110°F.
- Meets performance requirements of ASTM D-2564, D-2235, F-493.
- Meets California Air Quality Management District and other environmental district rules.

Part Number	Size	Case Qty	List Price
6266S	4 oz.	24	\$ 9.33
6256S	8 oz.	24	14.91
6246S	16 oz.	24	20.39
6236S	32 oz.	12	35.26
30848	1 gallon	6	129.99

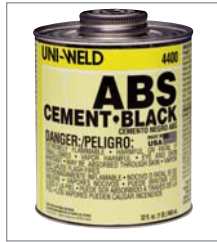


ABS Solvent Cements

United Elchem
UNI-WELD

ABS MEDIUM BLACK CEMENTS

LO-VOC



4400 Series BLACK

- Medium bodied, black cement for ABS pipe and fittings. Up to 6".
- For ALL types and grades of ABS pipe and fittings for DWV.
- **For all non-pressure applications.**
- Recommended application temperatures 40°F to 110°F.
- Meets ASTM D-2235.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
4466S	4 oz.	24	\$ 8.05
4456S	8 oz.	24	11.32
4446S	16 oz.	24	12.85
4436S	32 oz.	12	37.91
4424	1 gallon	6	108.67

ABS TO PVC TRANSITION GREEN CEMENTS

LO-VOC



309 Series GREEN

- Medium bodied, green colored cement for use in joining **ABS to PVC in non-pressure transition joints.**
- All schedules up to 6" pipe fittings.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-3138.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
30900	4 oz.	24	\$ 9.25
30925	16 oz.	24	23.74
30926	32 oz.	12	42.08



CLEAR PRIMER - NSF LISTED

LO-VOC



9300 Series
CLEAR

- A clear aggressive primer for use on PVC and CPVC pipe and fittings.
- All schedules and diameters.
- Removes all surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.
- Meets ASTM F-656.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
9366S	4 oz.	24	\$ 8.40
9356S	8 oz.	24	10.92
9346S	16 oz.	24	20.52
9336S	32 oz.	12	29.33
9324	1 gallon	6	115.59

PURPLE PRIMER - NSF LISTED

LO-VOC



8700 Series
PURPLE

- A purple tinted aggressive primer for use on PVC and CPVC pipe and fittings.
- **Exceeds new environmental requirements and meets various CA district rules.**
- For use in areas where plumbing code calls for verification that a primer has been used.
- Removes all surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.



Part Number	Size	Case Qty	List Price
8766S	4 oz.	24	\$ 8.20
8756S	8 oz.	24	13.20
8746S	16 oz.	24	23.25
8736S	32 oz.	12	29.88
8724	1 gallon	6	123.45

BLUE PRIMER - NSF LISTED

LO-VOC

PRIME-TITE™



8000 Series
BLUE

- A blue-tinted aggressive primer for use on PVC and CPVC pipe and fittings.
- **Blue color fades to clear in direct sunlight.**
- Formulated to work with "TITE" products.
- Meets ASTM F-656.
- Meets California Air Quality Management District and other environmental district rules.



Part Number	Size	Case Qty	List Price
8056S	8 oz.	24	\$ 15.02
8046S	16 oz.	24	25.66
8036S	32 oz.	12	45.98





Primers and Cleaners

United Elchem
UNI-WELD

PURPLE PRIMER/CLEANER LO-VOC



8800 Series
PURPLE

- Purple tinted all purpose primer/cleaner for PVC and CPVC pipe and fittings.
- Removes surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.
- Less aggressive than clear primer and purple primer.
- Purple tint for verification for code.
- **Exceeds new environmental requirements and meets various CA district rules.**

Part Number	Size	Case Qty	List Price
8866S	4 oz.	24	\$ 8.26
8856S	8 oz.	24	12.33
8846S	16 oz.	24	20.37
8836S	32 oz.	12	29.28
8824S	1 gallon	6	114.95

CLEANER LO-VOC



7300 Series
CLEAR

- Clear cleaner for ABS, PVC and CPVC pipe and fittings.
- All schedules and diameters.
- **Exceeds new environmental requirements and meets various CA district rules.**
- Fast-acting cleaner removes surface dirt, grease and grime.
- Flows freely and evaporates quickly.

Part Number	Size	Case Qty	List Price
7366S	4 oz.	24	\$ 6.84
7356S	8 oz.	24	9.51
7346S	16 oz.	24	15.74
7336S	32 oz.	12	22.54
7324	1 gallon	6	78.67

DAUBERS and EMPTY CANS



- Replacement product daubers.
- Reusable cone top metal containers.

Part Number	Size	Case Qty	List Price
DAUBERS			
31312	Fits 32 oz quart can	48	\$ 3.73
31310	Fits 16 oz pint can	48	3.09
31309	Fits 8 oz 1/2 pint can	24	3.52
EMPTY CANS			
30901	Gallon 2 7/8" mouth	6	29.39





Lubricants - Super Lube®



Super Lube® is a patented, multi-purpose synthetic lubricant, containing SYNCOLON® (PTFE) particles held in suspension. Super Lube lasts longer and outperforms conventional petroleum-based greases and oils. Packaging includes tubes, grease cartridges, aerosols, bottles, pails and drums.



How does the chemistry of SuperLube differ from conventional petroleum-based greases and mineral oils? Super Lube grease and oils are exceptionally pure lubricants because they are synthetic. This gives SuperLube very stable and predictable chemical properties. Petroleum-based machine and gear oils are made from refined crude oil and contain impurities which cannot be removed. These impurities interfere with film strength and wear protection. They also form deposits at high temperatures

and solidify at low temperatures. Petroleum-based greases are formulated by adding lithium, calcium or sodium thickeners to petroleum-based oil.



31110

Super Lube Aerosol

A multi-purpose PTFE based synthetic lubricant available in aerosol form. Super Lube aerosol disperses and penetrates while lubricating & loosening rust and dirt. Super Lube aerosol offers continuous protection as it "sets up" and forms a grease film barrier that defends against oxidation. This barrier helps extend the life of equipment and reduces maintenance.

Super Lube Non-Aerosol Pump

Because of environmental concerns, many industrial facilities do not allow the use of aerosol products. Super Lube Oil with PTFE is available in a one quart trigger spray container to address these needs.



51600

Benefits:

- Synthetic with PTFE
- Provides more reliable lubrication and outlasts petroleum based greases & oils
- Non-toxic, odorless
- USDA H-1 for use in federally inspected meat & poultry plants.
- Remains free flowing in freezing temperatures
- High dielectric strength
- Water and saltwater waterproof
- Will not stain or harm wood, rubber, leather, plastics, fabric & paint
- Won't drip, run or evaporate
- 1A copper corrosion
- Excellent salt spray performance
- Repels dirt, dust, grit and grime
- Prevents rust and corrosion while reducing friction
- Reduces maintenance for longer machinery life

Applications:

- Plain & anti-friction bearings
- Ball & roller bearings
- Wheel bearings
- Chassis points
- Fifth wheels
- Electric motor bearings
- Disc brake assemblies
- Pumps
- Blowers
- Cams
- Slides
- Conveyors
- Chains
- Water pumps
- Valves
- Open gears



Super Lube® and SYNCOLON® are trademarks of SYNCO Chemical Corp.

Part Number (old)	Description	Case Qty	List Price
31040 (23755)	6 oz. aerosol	12	\$ 13.93
31110 (20029)	11 oz. aerosol	12	16.73
51600 (24575)	32 oz. non-aerosol trigger spray	12	39.34



™

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11016



Super Lube Dri Lube (Dri-Film)



Super Lube Dri-Lube is a self-cleaning lubricant that actually cleans while lubricating. Super Lube Dri-Lube leaves behind a protective shield lubricant that will not attract dust. The dry coating provides a low coefficient of friction which gives excellent lubrication and release properties. Dri-Lube can be used on wood, metal and most plastics not under stress and has excellent thermal and chemical stability, forming a natural insulating barrier when used on electronics.

Benefits:

- Clean, non-staining
- For uses from -40°F to +500°F
- Non-conducting
- Easy to use
- Resists acid attacks
- Dries on contact
- Effective mold release agent
- Not affected by oil, water or solvents
- Long lasting lubrication
- Cleans while lubricating
- Stops squeaking, sticking
- Prevents corrosion

Applications:

- Industrial slides and glides
- High speed machinery
- Precision instruments
- Door and trunk hinges
- Pipe fittings
- Electronic & electrical equipment
- Chains
- Tools
- Zippers
- Lock cylinders
- Rusted nuts and bolts
- Cable pivots

Part Number	Description	Case Qty	List Price
11016	11 oz. aerosol	12	\$ 19.23



51010

Super Lube Oil with PTFE



Super Lube Oil with PTFE is a premium synthetic oil with suspended PTFE particles that bond to surfaces to add lubricity to moving parts. Super Lube Oil with PTFE is used for applications which allow parts to be confined (ie. gear box). Use it as a general purpose lubricant for industrial machinery and equipment. Super Lube Oil with PTFE provides long life protection against friction, wear, rust and corrosion. Machinery lasts longer, downtime is reduced, and productivity is increased. Super Lube Oil with PTFE is safe on metal, rubber, plastic, wood, leather, fabric & painted surfaces.

Benefits:

- Waterproof
- Non-toxic (USDA rating H1)
- Synthetic with PTFE
- Reduces friction and wear
- Extends machinery & equipment life
- Reduces maintenance
- Viscosity stable
- Long-lasting

Applications:

- Plain, anti-friction & roller bearings
- Enclosed industrial gears
- Enclosed chains
- Gearhead motors
- Paper machines
- Conveyors
- Machine ways
- Reciprocating compressor lubricant additive
- Machine tools
- Centralized systems
- Straight, helical, bevel & spiral gears

Typical Properties:

Color: Translucent white
 Viscosity tested to ASTM D445
 cSt@ 100°F: 14-17
 cSt @ 40°F: 118-122
 ISO grade: 220
 Replaces ISO grade: 150-320
 Replaces SAE grade gear oils: 90
 Viscosity index: 145
 Shelf Life: 24 months

Part Number (old)	Description	Case Qty	List Price
51010SL (82333)	7 ml precision oiler	12	\$ 7.99
51040 (82334)	1 gallon	4	143.71
82337 (52040)	Light Weight Oil 1 gallon	4	126.36



41150

21030



TYPICAL PROPERTIES

Color: Translucent white
 Operating Temperature
 Range: -45° to 450° F
 NLGI Grade (ASTM D1092): 2
 Dropping point (ASTM D566):
 >500° F (260C)
 Four ball test (ASTM D2783):
 Load wear index: 81.73 kg
 Weld point: 400 kg
 Oxidation stability 100 hrs.
 (ASTM D942): 0 psi
 Wheel bearing leakage
 (ASTM D1263): 0.2g
 Copper corrosion 24 hrs @
 100° C (ASTM D4048): 1B,
 shiny
 Shelf life: 24 months

Super Lube Grease

Super Lube is a patented synthetic NLGI grade 2 heavy-duty, multi-purpose lubricant with PTFE. Synthetic base fluids and the addition of PTFE micro powders combine to form a premium lubricant that provides long life protection against friction, wear, rust and corrosion. Machinery lasts longer, downtime is reduced, and productivity is increased.

Super Lube is a USDA listed Food Grade Lubricant, rated H1 for incidental food contact. Super Lube will not run or drip, does not evaporate or form gummy deposits and will not dry out, melt or separate.

Super Lube is a synthetic, heavy duty lubricant that is compatible with most other lubricants. Super Lube Grease outlasts conventional greases 50-100% and has excellent adhesion.



Benefits:

- Clean
- Non-toxic
- Non-staining
- Dielectric
- USDA Rating H1
- Will not drip, run or evaporate
- Impervious to salt water, safe in potable water
- Long lasting
- Prevents rust & corrosion while reducing friction
- Compatible with conventional lubricants
- Repels dirt, dust, grit & grime
- Extends machinery and equipment life
- Reduces maintenance while saving time & money
- Reduces friction and wear
- Will not stain or harm wood, rubber, leather, plastic, fabrics and paint.

Super Lube Grease Replaces

- Lithium, Bentone, Calcium or Aluminum complex grease
- High & low temperature greases
- Electric motor grease
- Food grade grease
- Bearing, wheel bearing grease
- Multi-purpose grease
- Dielectric grease
- Valve sealant
- O-ring lubricant

Applications:

- Plain and anti-friction bearings
- Ball and roller bearings
- Wheel bearings
- Chassis points
- Fifth wheels
- Electric motor bearings
- Disc brake assemblies
- Pumps
- Blowers
- Cams
- Slides
- Conveyors
- Chains
- Water pumps
- Valves
- Open gears
- Switch assemblies
- Cables
- Fans
- Electronic equipment
- Deep drawing application

Part Number (old)	Description	Case Qty	List Price
21010 (82324)	1/2 oz. tube	12	\$ 6.78
21030 (82325)	3 oz. tube	12	11.24
72350 (41150)	400 g cartridge	12	24.02
41160 (82329)	400 g jar	12	24.75
41050 (82330)	5 lb. pail	4	128.81
41030 (82331)	30 lb. pail	1	733.06



21013 and 51013

Super Lube Grease w/ PTFE Counter display

- Packaged in a cardboard counter display
- Contains 40, 1/2 oz. tubes Super Lube w/ PTFE grease



Super Lube Precision Oiler w/ PTFE Counter display

- Packaged in a cardboard counter display
- Contains 48, 7 ml precision oiler pens of Super Lube w/ PTFE



Part Number	Description	Display Qty	List Price
21013	Counter display w/ Grease	40	271.82
51013	Counter display w/ Oiler	48	385.38





Super Lube Air Tool Lubricant

Super Lube Air Tool Lubricant is formulated to meet the special requirements for industrial, household and agricultural tools. It absorbs water and eliminates any ice buildup and frost in air tools. Blended rust and corrosion inhibitors and a special base fluid oil minimizes wear and allows operation of air tools at temperatures as low as -40°F.



Applications:

- Air impact tools
- Drills
- Grinders
- Screwdrivers
- Sanders
- Percussion tools
- Household shop tools
- All air tool oil lubricated

Benefits:

- Wide temperature range
- Works on types of pneumatic equipment
- Prevents rust and corrosion
- Can be used as a light oil
- Gives worn tools new life
- Less friction and wear
- Protects against corrosives
- Less tendency for bubbles
- Absorbs moisture
- Eliminates ice buildup and frost in air tools.

Part Number	Description	Case Qty	List Price
12004	4 oz. bottle	6	\$ 9.35
12016	16 oz. bottle	12	20.63



Super Lube Syncopen

Super Lube Synthetic Penetrant is a super fast acting, penetrating, synthetic oil that cuts through rust or corrosion. Syncopen penetrates hard to reach areas to allow easy removal of rusted and corroded screws, nuts or bolts. Syncopen penetrates, lubricates and leaves a protective film to help prevent future rusting or corrosion.

Benefits:

- Cleans and Penetrates
- Loosens rusted parts
- Frees sticky mechanisms
- Stops squeaks
- Protects against rust & corrosion
- Drives out moisture
- Leaves a protective lubricating film

Typical Properties:

TEST	METHOD	SYNCOPEN
Color		Translucent Brown
Specific Gravity	ASTM D1298	.85
Pour Point	ASTM D97	-40 °F
Salt Spray Test (500 hrs)	ASTM B117	Pass
Copper Corrosion 24 hrs @ 100 °C	ASTM D130	1A
USDA Rating	NSF	H1
Shelf Life		24 months

Part Number	Description	Case Qty	List Price
85011	11 oz. aerosol	12	\$ 15.80
85010	1 gallon	4	140.67





Irrigation Installation Accessories

P73 Cut-off Nipples Features:

- Patented design 4 in 1 nipple allows choice of length, excess becomes additional useable nipples.
- 100 PSI (max) and 201 °F max temperature.
- Green

Poly Cut-off Nipple, Riser Extension and Poly Nipple Features:

- Black poly

SW500 Nipple Extractor Features:

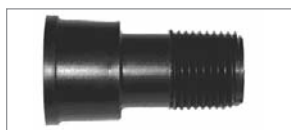
- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.



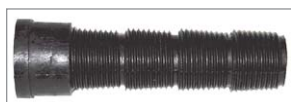
P-73 Series



PCO Series



RE Series



RECO Series



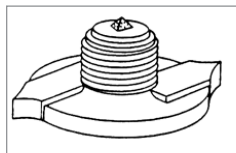
PN Series



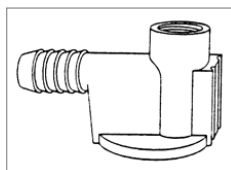
SW500C

Part Number	Description	Ctn Qty	List Price
Cut-off Nipples			
P73-1/2	1/2" MIPT x 1/2" MIPT x 6"	50	\$ 1.09
P73-3/4	3/4" mipt x 3/4" mipt x 6"	25	2.60
P73-3/4x1/2	Reducing, 3/4" mipt x 1/2" mipt, 6"	40	2.05
Poly Cut-off Nipples			
PCO1/2X4	1/2" x 4" MPT x MPT	500	0.43
PCO1/2X6	1/2" x 6" mpt x mpt	500	0.50
PCO1/2X3/4X4	1/2" x 3/4" x 4" mpt x mpt	500	0.66
PCO1/2X3/4X6	1/2" x 3/4" x 6" mpt x mpt	400	0.78
PCO3/4X4	3/4" x 4" mpt x mpt	400	0.61
PCO3/4X6	3/4" x 6" mpt x mpt	400	0.95
Riser Extensions			
RE1/2X1	1/2" x 1" fpt x mpt	1000	0.29
RE1/2X1 1/2	1/2" x 1 1/2" fpt x mpt	1000	0.30
REC01/2X4	1/2" x 4" fpt x mpt	500	0.64
REC03/4XSHORT	3/4" x Short fpt x mpt	500	0.74
REC03/4X4	3/4" x 4" fpt x mpt	400	0.85
Poly Nipples			
PN1/2XCLOSE	1/2" x close	1000	0.22
PN1/2X3/4XCLOSE	1/2" x 3/4" x close	1000	0.30
PN3/4XCLOSE	3/4" x close	1000	0.33
PN1/2X2	1/2" x 2"	1000	0.23
PN1/2X3	1/2" x 3"	500	0.29
PN1/2X4	1/2" x 4"	500	0.32
PN1/2X5	1/2" x 5"	500	0.43
PN1/2X6	1/2" x 6"	500	0.50
PN1/2X8	1/2" x 8"	50	1.66
PN1/2X10	1/2" x 10"	50	1.91
PN1/2X12	1/2" x 12"	50	2.15
PN1/2X18	1/2" x 18"	50	3.01
PN1/2X24	1/2" x 24"	50	3.91
Nipple Extractors			
SW500C	Stub Wrench	50	6.43

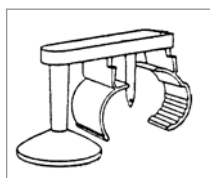
Irrigation Installation Accessories



HP2000



HP1500



SD1000

HP Series Drain and Adapter Features:



- Freeze protection.
- Easy installation without tools.
- Dirt stopper screen keeps sand, dirt and sediment out of system.
- Hammer slug for easy installation on reducing elbows.
- Recessed wicking pad.

SD1000 Siphon Drain Features:

- Freeze protection. Protects mainlines, sprinkler heads, pipe, low spots, and end lines.
- New or existing irrigation systems. 3 sec. installation, no tools necessary.
- One drain for 1/2" thru 1" polyethylene and PVC pipe.

Part Number	Description	Use For	Ctn Qty	List Price
Drains				
HP2000	1/2" MPT Drain	Lateral line	25/500	\$ 5.39
HP3000	3/4" MPT Drain	Lateral line	25/400	5.72
HP4000	1/2" MPT Drain	Main line	25/500	5.36
SD1000	Fits 1/2" thru 1" pipe	Siphon Drain	25/200	8.82
Reducing Elbows				
HP1500	3/4" ins x 1/2" fpt Elbow	Poly end of line	10/250	7.54
HP1600	1" ins x 1/2" fpt Elbow	Poly end of line	10/250	7.54
HP1700	1" ins x 3/4" fpt Elbow	Poly end of line	10/250	7.54



500

ISO 9001



Mini Trol® Water Hammer Arrestor Features:



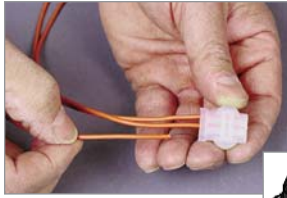
- Mini Trol takes the bang out of water lines.
- Effectively intercepts surges in water lines.
- Prevents damage and shock waves by quick closing valves.
- Designed with pre-pressurized, permanent air chamber separated from water by a sealed-in heavy duty diaphragm.
- Chamber is polypropylene lined. Water never touches steel.
- Guaranteed not to waterlog or lose air.
- Manufactured for AGI in a ISO9001 facility.

Precharge Pressure:	22 psi
Max. Working Pressure:	125 psi
Max. Shock Pressure:	200 psi
Max. Operating Pressure:	200° F
Max. Velocity:	100 FPS

Part Number	Description	Ctn Qty	List Price
500	Mini-Trol 4 1/2" H x 3 3/8" W x 1/2" MPT	24	\$ 86.32



Electrical Installation Accessories



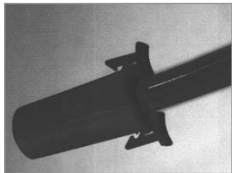
SSP314



3M® SSP Series Insulation Displacement Connector

Features:

- Used to electrically connect two or three wire ends & insulate the connection.
- #22-#14 AWG range on SSP314. SSP314 is UL and CSA listed.
- #22-#16 AWG range on SSP316.
- Also used for pigtail 2- and 3-wire splicing.
- Connector provides a moisture-resistant seal and is flame retardant.



LV9000

Tom King Harmony Snaplock Wire Connector Features:

- Gel-filled 100% waterproof.
- Double o-ring, double-latch locking system.
- For low voltage connections.



Part Number	Description	Ctn Qty	List Price
SSP314	3M® Insulation Displacement Connectors #22-#14 AWG	1000	\$ 1.77
SSP316	3M® Insulation Displacement Connectors #22-#16 AWG	300	1.65
Snaplock Gel-filled Wire Connector			
LV9000	Small- fits two #24 - seven #18 AWG	24/720	1.42
LV9500	Large - Fits two #18 - three #10 & one #18 AWG	12/432	2.07



82-A

Scotchcast™ 82-A Series Inline Resin Splice Kit Features:

- Insulate and seal single conductor, unshielded cable splices & multiple conductor cables.
- Connector is not included.

Part Number	Conductor	Cable OD	Conn OD	Ctn Qty	List Price
82-A2	2-3/0 AWG	1"	0.625"	10	\$ 146.78



ET1983



ET1983 Electrical Tester Features:

- Checks 120, 240, 440VAC and 150, 300, 500VDC
- Handy, economical, durable.
- Ideal for any electrical installation or repair.
- Extra long insulated lead with test probe for added convenience.
- Easy to read, bright indicator light.
- Requires no batteries.
- Packaged in slide blister card.
- Meets CE requirements.
- UL listed.

Part Number	Description	Ctn/Case Qty	List Price
ET1983	120, 240, 440V tester	10/120	\$ 10.18



VL1

CLICK-IT™ Valve Locator Features:

- Water resistant.
- Compact design.
- For location of solenoid valve quickly and easily.
- Practical and cost effective.

Part Number	Description	Ctn Qty	List Price
VL1	Click-It Valve Locator	10	\$ 113.69



Expandable Repair Couplings



117 Series



118 Series



Flo Span Expandable Repair Coupling Features:

- Double EPDM o-ring seal gives more protection from possible leakage due to deflection of piston in the extended position.
- EPDM o-ring seal also protects against contamination on the cylinder wall.
- Solvent cement trap located in cap to capture excess solvent cement.
- Made from PVC type I grade I material meeting ASTM D-1784
- 117 Series has union end, 118 Series does not have union end.

Part Number	IPS Size	Body Length	Ctn Qty	List Price	
PVC Flo-Span Expansion Couplings					
w/ union	no union				
117-05	118-05	1/2"	5-3/4"	28	\$ 7.71
117-07	118-07	3/4"	6-3/4"	24	8.03
117-10	118-10	1"	7-3/4"	15	9.50
117-12	118-12	1-1/4"	9"	10	17.50
117-15	118-15	1-1/2"	10"	16	19.18
117-20	118-20	2"	10-1/2"	12	29.94
	118-25	2-1/2"	13"	3	50.45
	118-30	3"	14-1/2"	3	63.09
	118-40	4"	14-1/2"	3	110.26



PSC Series



Poly-Stretch Repair Coupling Features:

- For repair of polyethylene irrigation pipe.
- Avoid extra digging and buckled pipe.
- Couplings are made of ABS
- O-ring seal is made of Buna 70
- Pressure rated at 160 psi.
- Designed for irrigation operation pressures of polyethylene pipe and more.

Instructions for Installation:

- Cut out approximately 4" of pipe where repair is needed.
- Place clamps over ends of pipe
- Insert end marked with "END FIRST" arrow by pushing and turning at same time.
- Insert other end by pushing & turning.
- Place clamps over ribbed ends & tighten.

Dimensions:



	A	B	C	D	E
3/4"	4.0	.575	.820	1.50	5.625
1"	4.0	.770	1.075	1.50	5.625
1 1/4"	5.0	1.109	1.415	1.755	6.70
1 1/2"	5.0	1.310	1.63	1.755	6.70
2"	5.0	1.825	2.125	1.755	6.70

Part Number	Description	Ctn Qty	List Price
PSC07	3/4" Poly-stretch coupling	50	\$ 11.13
PSC10	1" Poly-stretch coupling	50	11.53
PSC12	1 1/4" Poly-stretch coupling	25	17.28
PSC15	1 1/2" Poly-stretch coupling	25	19.98
PSC20	2" Poly-stretch coupling	20	31.19

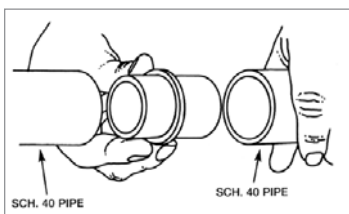
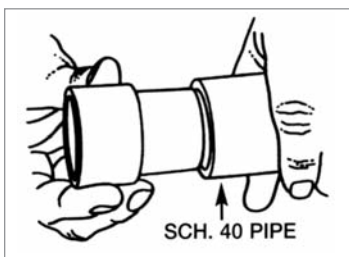
Repair Fittings for Sch 40 Pipe



PEX Series



PIC Series



Pipe Extender and Inside Connector Repair Fitting Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.

Part Number	Description	IPS Size	Ctn Qty	List Price
Pipe Extender Repair Fitting				
PEX50	Pipe Extender	1/2"	48	\$ 2.10
PEX75	Pipe Extender	3/4"	48	2.66
PEX100	Pipe Extender	1"	48	3.41
PEX125	Pipe Extender	1 1/4"	48	4.00
PEX150	Pipe Extender	1 1/2"	48	4.73
PEX200	Pipe Extender	2"	48	5.32
PEX250	Pipe Extender	2 1/2"	96	7.23
PEX300	Pipe Extender	3"	96	10.45
PEX400	Pipe Extender	4"	48	12.32
Inside Connector Repair Fitting				
PIC100	Inside Connector	1"	48	3.41
PIC150	Inside Connector	1 1/2"	48	4.73
PIC200	Inside Connector	2"	48	5.32



Insert Fittings - Nylon

Nylon Insert Fitting Features:

- White nylon insert fittings
- Meets ASTM-2609
- NSF for potable water
- **DO NOT USE NYLON INSERT FITTINGS FOR COMPRESSED AIR OR GASES.**
- **DO NOT TEST PIPING SYSTEMS WITH NYLON INSERT FITTING WITH COMPRESSED AIR OR GASES.**
- **DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY MANUFACTURER.**
- **MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.**

Insert Diameter Dimensions

SIZE	MAXIMUM DIAMETERS		
	C	E	F
1/2"	.605	.445	.665
3/4"	.800	.630	.865
1"	1.005	.805	1.095
1 1/4"	1.325	1.105	1.425
1 1/2"	1.565	1.345	1.665
2"	2.020	1.800	2.125

Recommended Installation Procedures:

- Sizes 1/2, 3/4 and 1" - one clamp directly over barbs.
- Sizes 1 1/4" and greater - one clamp directly over barbs PLUS one clamp behind barbs.



N401 Series



N406 Series



N413 Series



N429 Series



N436 Series

Part Number	Description	Inner/Master Ctn Qty	List Price
N401-005	NYLON INS X INS TEE 1/2"	10/180	\$ 2.23
N401-007	NYLON INS X INS TEE 3/4"	10/100	2.64
N401-010	NYLON INS X INS TEE 1"	10/60	4.23
N401-012	NYLON INS X INS TEE 1 1/4"	5/40	7.22
N401-015	NYLON INS X INS TEE 1 1/2"	5/30	10.21
N401-020	NYLON INS X INS TEE 2"	5/15	13.80
N406-005	NYLON INS X INS 90 ELBOW 1/2"	10/300	1.91
N406-007	NYLON INS X INS 90 ELBOW 3/4"	10/180	2.18
N406-010	NYLON INS X INS 90 ELBOW 1"	10/100	2.64
N406-012	NYLON INS X INS 90 ELBOW 1 1/4"	5/60	4.47
N406-015	NYLON INS X INS 90 ELBOW 1 1/2"	5/40	6.79
N406-020	NYLON INS X INS 90 ELBOW 2"	5/25	9.08
N413-005	NYLON INS X MIPT 90 ELL 1/2"	10/300	3.33
N413-007	NYLON INS X MIPT 90 ELL 3/4"	10/200	4.64
N413-010	NYLON INS X MIPT 90 ELL 1"	10/100	6.53
N413-012	NYLON INS X MIPT 90 ELL 1 1/4"	5/60	8.59
N413-015	NYLON INS X MIPT 90 ELL 1 1/2"	5/50	12.76
N429-005	NYLON INS X INS COUPLING 1/2"	10/400	1.14
N429-007	NYLON INS X INS COUPLING 3/4"	10/250	1.34
N429-010	NYLON INS X INS COUPLING 1"	10/160	1.79
N429-012	NYLON INS X INS COUPLING 1 1/4"	10/80	3.22
N429-015	NYLON INS X INS COUPLING 1 1/2"	5/60	4.35
N429-020	NYLON INS X INS COUPLING 2"	5/40	5.51
N436-005	NYLON INS X MIPT M/A 1/2"	10/400	1.14
N436-007	NYLON INS X MIPT M/A 3/4"	10/250	1.40
N436-010	NYLON INS X MIPT M/A 1"	10/160	1.79
N436-012	NYLON INS X MIPT M/A 1 1/4"	10/80	2.87
N436-015	NYLON INS X MIPT M/A 1 1/2"	5/60	4.12
N436-020	NYLON INS X MIPT M/A 2"	5/40	6.47





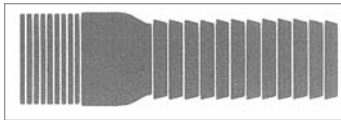
Insert Fittings - Steel, Zinc Plated

- For use with flexible poly pipe
- Made in North America.
- IMAS Imported
- Made from Sch 40 C.W. steel pipe, zinc plated.

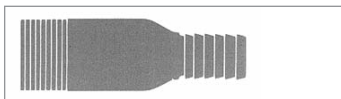


S12, IMAS

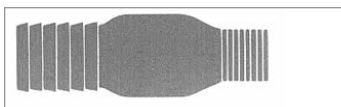
☺ NO wrench-grip shoulder



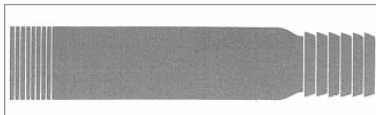
XS12, IMAS-XL



S38



S74, IMAS



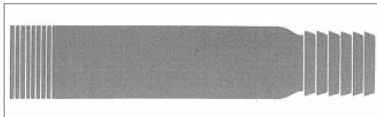
S86

Part Number	Size	Ctn/Case Qty	List Price
Male Adapter, mipt x ins *			
S12-1/2	1/2"	25	\$ 4.63
S12-3/4	3/4"	25	4.95
S12-1	1"	20	6.34
S12-11/4	1-1/4"	20	8.03
S12-11/2	1-1/2"	10	9.95
S12-2	2"	10	14.36
S12-21/2 ☺	2-1/2"	BULK	37.66
S12-3 ☺	3"	BULK	50.80
S12-4 ☺	4"	BULK	82.29
Male Adapter, mipt x ins IMPORTED **			
IMAS50	1/2"	50/300	1.65
IMAS75	3/4"	50/200	2.28
IMAS100	1"	25/200	2.95
IMAS125	1 1/4"	12/108	4.49
IMAS150	1 1/2"	6/90	5.67
IMAS200	2"	5/60	8.26
IMAS250	2 1/2"	2/10	21.95
IMAS300	3"	2/10	29.15
IMAS400	4"	2/10	45.69
Extra Long Male Adapter, mipt x ins *			
XS12-1	1"	25	12.30
XS12-11/4	1-1/4"	25	16.25
XS12-11/2	1-1/2"	25	18.71
Extra Long Male Adapter, mipt x ins IMPORTED **			
IMAS100XL	1"	10/120	4.68
IMAS125XL	1 1/4"	10/80	7.58
Reducing Male Adapter, mipt x ins *			
S38-3/4X1/2	3/4" x 1/2"	25	20.10
S38-1X3/4	1" x 3/4"	25	22.16
S38-11/4X1	1-1/4" x 1"	25	25.29
S38-11/2X11/4	1-1/2" x 1-1/4"	25	31.42
S38-2X11/2	2" x 1-1/2"	25	42.17
Reducing Male Adapter, ins x mipt *			
S74-1X3/4	1" x 3/4"	25	12.44
S74-11/4X1	1-1/4" x 1"	25	17.80
S74-11/2X11/4	1-1/2" x 1-1/4"	25	21.20
Reducing Male Adapter, ins x mipt IMPORTED **			
IMAS7550	3/4" x 1/2"	250	4.47
IMAS1075	1" x 3/4"	250	5.14
Venturi Adapter, mipt x ins *			
S86-3/4X6	3/4" x 6"	25	18.05
S86-3/4X10	3/4" x 10"	25	21.48
S86-3/4X12	3/4" x 12"	25	21.76
S86-1X6	1" x 6"	25	13.71
S86-1X8	1" x 8"	25	16.56
S86-1X10	1" x 10"	25	18.60
S86-1X12	1" x 12"	25	21.24
S86-11/4X6	1-1/4" x 6"	25	18.66
S86-11/4X8	1-1/4" x 8"	25	21.01
S86-11/4X10	1-1/4" x 10"	25	25.34
S86-11/4X12	1-1/4" x 12"	25	32.46

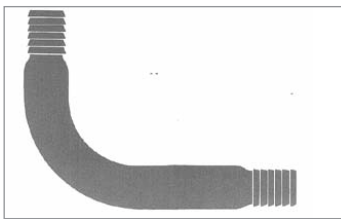
Insert Fittings - Steel, Zinc Plated



- For use with flexible poly pipe
- Made in North America.
- ISVMA, ISWSE, IFAS, ICS - Imported
- Made from Sch 40 C.W. steel pipe, zinc plated.



ISVMA



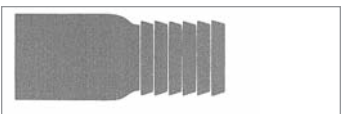
S99, ISWSE



S10, ICS



XS10, ICS-XL



S90, IFAS



Part Number	Size	Ctn/Case Qty	List Price
Venturi Adapter, mipt x ins IMPORTED **			
ISVMA1X6	1" x 6"	60	\$ 5.50
ISVMA1X8	1" x 8"	50	7.95
ISVMA1X10	1" x 10"	40	9.44
ISVMA11/4X6	1-1/4" x 6"	50	7.46
ISVMA11/4X8	1-1/4" x 8"	40	9.27
ISVMA11/4X10	1-1/4" x 10"	30	12.52
Well Seal Elbow, ins x ins *			
S99-1	1"	10	26.66
S99-11/4	1-1/4"	10	36.03
Well Seal Elbow, ins x ins IMPORTED **			
ISWSE100	1"	BULK	13.11
ISWSE125	1-1/4"	BULK	21.54
Coupling, ins x ins *			
S10-1/2	1/2"	25	4.18
S10-3/4	3/4"	25	4.95
S10-1	1"	20	6.70
S10-11/4	1-1/4"	20	9.51
S10-11/2	1-1/2"	10	10.64
S10-2	2"	10	19.60
S10-3	3"	BULK	65.36
S10-4	4"	BULK	104.56
Coupling, ins x ins IMPORTED **			
ICS50	1/2"	50/300	1.54
ICS75	3/4"	50/200	2.25
ICS100	1"	25/200	2.80
ICS125	1 1/4"	20/120	4.86
ICS150	1 1/2"	10/60	6.49
ICS200	2"	10/60	8.59
ICS250	2 1/2"	2/10	21.99
ICS300	3"	2/10	25.92
ICS400	4"	2/10	29.46
Extra Long Coupling, ins x ins *			
XS10-1	1"	25	22.32
XS10-11/4	1-1/4"	25	32.08
Extra Long Coupling, ins x ins IMPORTED **			
ICS100XL	1"	10/120	3.93
ICS125XL	1-1/4"	10/80	6.96
Female Adapter, fipt x ins *			
S90-1/2	1/2"	25/300	12.82
S90-3/4	3/4"	25/200	16.76
S90-1	1"	20/160	21.61
S90-11/4	1-1/4"	20/120	26.93
S90-11/2	1-1/2"	10/60	31.99
S90-2	2"	10/40	38.79
Female Adapter, fipt x ins IMPORTED **			
IFAS50	1/2"	25/200	2.57
IFAS75	3/4"	25/150	3.59
IFAS100	1"	125	4.82
IFAS125	1 1/4"	100	11.11
IFAS150	1 1/2"	10/60	10.75
IFAS200	2"	4/20	17.92



Insert Fittings - Stainless Steel



SSMA Series

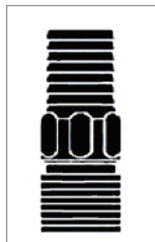


XLSSMA

Features:

- Imported cast from Grade 304 Stainless Steel.
- Made in U.S.A. from Grade 316 Stainless Steel.
- For use with flexible poly pipe.

Part Number	Size	# Barbs	Ctn/Case Qty	List Price
Grade 304 SS, IMPORTED				
Male Adapters, MIPT X INS, HEX PATTERN				
SSMA1/2	1/2"	6	10/200	\$ 8.18
SSMA3/4	3/4"	6	10/200	12.21
SSMA1	1"	6	10/100	17.11
SSMA11/4	1 1/4"	6	5/100	21.25
SSMA11/4X1	1 1/4" x 1"	6	10/100	18.82
SSMA11/2	1 1/2"	6	5/80	29.94
SSMA2	2"	6	5/40	41.64
Grade 304 SS, HEAVY PATTERN EXTRA LONG, IMPORTED				
Male Adapters, MIPT X INS, HEX PATTERN				
XLSSMA11/4X1	1 1/4" x 1"	13	5/60	25.54



SS12 Series



SS38 Series

Part Number	Size	# Barbs	Ctn/Case Qty	List Price
Grade 316 SS, MADE IN U.S.A.				
Male Adapter, MIPT X INS, HEX PATTERN				
SS12-1/2	1/2"	6	25/300	\$ 21.17
SS12-3/4	3/4"	7	25/200	19.49
SS12-1	1"	7	20/160	22.08
SS12-11/4	1-1/4"	6	20/120	36.20
SS12-11/2	1-1/2"	6	10/60	49.01
SS12-2	2"	7	10/40	64.41
Male Reducing Adapter mipt x red. ins				
SS38-11/4x1	1-1/4 x 1"	7	25/100	52.13



SS10 Series



Grade 316 SS, EXTRA LONG, MADE IN U.S.A.				
Male Adapter, MIPT X INS, ROUND PATTERN				
XSS12-1	1	14	25	43.07
XSS12-11/4	11/4	14	25	56.11
Grade 316 SS, MADE IN U.S.A.				
Coupling, INS X INS, ROUND PATTERN				
SS10-1	1	7	20	31.50
SS10-11/4	11/4	7	20	41.64
Grade 316 SS, EXTRA LONG, MADE IN U.S.A.				
Coupling, INS X INS, ROUND PATTERN				
XSS10-1	1	14	25	56.98

Insert Fittings - Yellow Brass, NO LEAD Yellow Brass



- For use with flexible poly pipe
- Imported



YB00



YB10



YB12

Part Number	Size	Ctn/Case Qty	List Price
Yellow Brass Adapters, ins x solder			
YB00-1/2	1/2"	10/200	\$ 2.57
YB00-3/4	3/4"	10/200	5.86
YB00-1	1"	10/200	7.93
YB00-11/4	1-1/4"	10/200	9.38
YB00-11/2	1-1/2"	5/80	29.46
NO LEAD Yellow Brass Adapters, ins x solder			
YB00NL3/4	3/4"	10/200	8.20
YB00NL1	1"	10/200	11.68
Yellow Brass Couplings, ins x ins			
YB10-3/4	3/4 "	10/200	3.41
YB10-1	1"	10/200	7.48
YB10-11/4	1-1/4"	10/200	9.69
Yellow Brass Adapters, ins x mipt			
YB12-1	1"	10/200	9.20



Insert Fittings - Red Brass

- For use with flexible poly pipe
- Made in North America
- B and XB Series ANSI/NSF61
- IMAB Imported
- Made from 85% copper alloy seamless brass pipe with 0.05% lead.



ANSI/NSF Standard 61
Drinking Water System Components



B12, IMAB

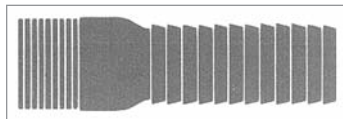
☺ NO wrench-grip shoulder



Part Number	Size	Ctn/Case Qty	List Price
Male Adapter, mipt x ins *			
B12-1/2	1/2"	25/300	\$ 13.36
B12-3/4	3/4"	25/200	16.73
B12-1	1"	20/160	20.93
B12-11/4	1-1/4"	20/120	38.89
B12-11/2	1-1/2"	10/60	47.41
B12-2	2"	10/40	62.07
B12-21/2 ☺	2-1/2"	10	128.56
B12-3 ☺	3"	10	205.66
B12-4 ☺	4"	10	368.85

Male Adapter, mipt x ins IMPORTED **

IMAB50	1/2"	50/300	9.10
IMAB75	3/4"	50/200	12.75
IMAB100	1"	25/100	14.11
IMAB125	1 1/4"	20/80	31.68
IMAB150	1 1/2"	10/60	44.05
IMAB200	2"	10/60	57.54
IMAB250	2 1/2"	2/10	121.02
IMAB300	3"	2/10	165.56
IMAB400	4"	2/10	202.78



XB12, IMAB-XL

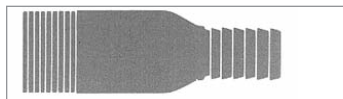


Extra Long Adapter, mipt x ins *

XB12-1	1"	25/100	38.32
XB12-11/4	1-1/4"	25/50	56.65
XB12-11/2	1-1/2"	25/50	72.55

Extra Long Adapter, mipt x ins IMPORTED **

IMAB100XL	1"	10/120	30.17
IMAB125XL	1-1/4"	10/80	38.78

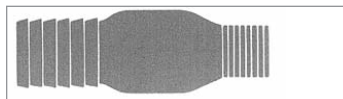


B38



Reducing Male Adapter, mipt x ins *

B38-3/4X1/2	3/4" x 1/2"	25/200	59.46
B38-1X3/4	1" x 3/4"	25/150	66.20
B38-11/4X1	1-1/4" x 1"	25/100	79.03
B38-11/2X11/4	1-1/2" x 1-1/4"	25/50	104.50
B38-2X11/2	2" x 1 1/2"	25/50	125.85

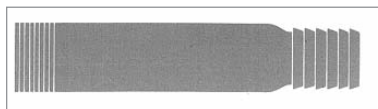


B74



Reducing Male Adapter, ins x red. mipt *

B74-3/4x1/2	3/4" x 1/2"	25/200	26.63
B74-1X3/4	1" x 3/4"	25/200	30.58
B74-11/4X1	1-1/4" x 1"	25/100	36.79
B74-11/2X11/4	1-1/2" x 1-1/4"	25/100	49.67



B86



Venturi Adapter, ins x mipt *

B86-1X6	1" x 6"	25/100	44.84
B86-1X8	1" x 8"	25/100	59.07
B86-11/4X6	1-1/4" x 6"	25/100	66.40
B86-11/4X8	1-1/4" x 8"	25/100	87.43



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Insert Fittings - Red Brass

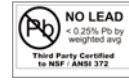


- For use with flexible plastic pipe
- Made in North America
- B and XB Series ANSI/NSF61
- IMAB, ICB Imported
- Made from 85% copper alloy seamless brass pipe with 0.05% lead.

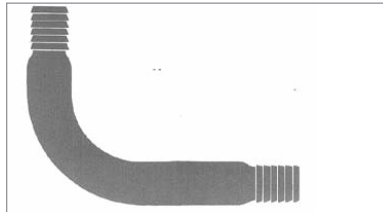
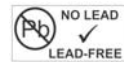


ANSI/NSF Standard 61
Drinking Water System Components

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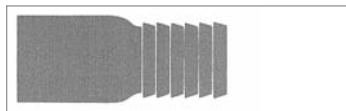
B99



B10, ICB



XB10, ICB-XL



B90



Part Number	Size	Ctn/Case Qty	List Price
Well Seal Elbow, ins x ins *			
B99-1	1"	Bulk	\$ 96.50
B99-11/4	1-1/4"	Bulk	181.67
Coupling, ins x ins *			
B10-1/2	1/2"	25/300	17.65
B10-3/4	3/4"	25/300	19.86
B10-1	1"	20/160	29.63
B10-11/4	1-1/4"	20/120	45.35
B10-11/2	1-1/2"	10/60	53.82
B10-2	2"	10/40	84.06
B10-21/2	2-1/2"	BULK	236.43
B10-3	3"	BULK	394.76
B10-4	4"	BULK	685.26
Coupling, ins x ins IMPORTED **			
ICB50	1/2"	50/300	3.95
ICB75	3/4"	50/200	12.43
ICB100	1"	25/100	20.44
ICB125	1 1/4"	20/80	34.58
ICB150	1 1/2"	10/60	43.67
ICB200	2"	10/60	59.78
ICB250	2 1/2"	2/10	64.63
ICB300	3"	2/10	161.71
ICB400	4"	2/10	154.40
Extra Long Coupling, ins x ins *			
XB10-1	1"	25/100	57.56
XB10-11/4	1-1/4"	25/50	81.56
Extra Long Coupling, ins x ins IMPORTED **			
ICB100XL	1"	10/120	22.92
ICB125XL	1-1/4"	10/80	23.39
Female Adapter, fipt x ins *			
B90-1/2	1/2"	25/300	30.26
B90-3/4	3/4"	25/200	33.80
B90-1	1"	20/160	41.46
B90-11/4	1-1/4"	20/120	60.02
B90-11/2	1-1/2"	10/60	71.16
B90-2	2"	10/40	99.98



Unions - PVC Sch 80



PV79, PV69 Series

PVC Sch 80 Union Features:

- Ideal for swimming pool, spa and plumbing installations.
- EPDM O-Ring seal.
- Working pressure: 150 PSI at 72°F, 100 PSI at 120°F.
- Meets ASTM standards for Schedule 80 construction.
- Manufactured for AGI in an ISO 9002 facility.
- NSF listed.
- Available white or gray.
- Imported.

DIMENSIONS (IN.)	SIZE	d3	D1	D2	L
	1/2"	.51	1.21	1.80	2.11
	3/4"	.71	1.45	2.15	2.42
	1"	.92	1.76	2.58	2.69
	1 1/4"	1.17	2.11	3.20	3.32
	1 1/2"	1.52	2.54	3.83	3.40
	2"	1.92	3.05	4.68	3.71
	3"	2.84	3.52	6.10	4.96
	4"	3.94	4.52	8.86	6.30

ISO 9002



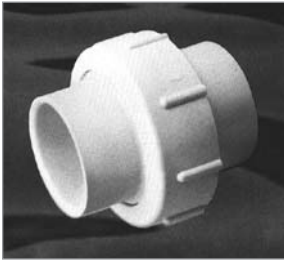
MATERIAL SPECIFICATIONS

Body	PVC
End Connector	PVC
Union Nut	PVC
O-Ring	EPDM

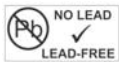
Part Number	IPS Size	Ctn Qty	List Price			
SCHEDULE 80 - WHITE			PV797	PV798	PV799	
SLIP X SLIP	FIPT X FIPT	SLIP X FIPT	SXS	TXT	SXT	
PV797-1/2	PV798-1/2	1/2"	36	\$ 2.93	\$ 3.06	
PV797-3/4	PV798-3/4	3/4"	24/144	3.85	4.00	
PV797-1	PV798-1	1"	12/96	4.95	5.30	
PV797-11/4	PV798-11/4	1 1/4"	12/96	8.82	9.28	
PV797-11/2	PV798-11/2	PV799-11/2	1 1/2"	8/64	11.14	11.59
PV797-2	PV798-2	PV799-2	2"	4/48	15.50	16.30
SCHEDULE 80 - GRAY			PV697	PV698		
slip x slip	FIPT x FIPT		SxS	TXT		
PV697-1/2	PV698-1/2	1/2"	36/288	\$ 2.93	\$ 3.09	
PV697-3/4	PV698-3/4	3/4"	24/144	3.86	4.08	
PV697-1	PV698-1	1"	12/96	4.95	5.40	
PV697-11/4	PV698-11/4	1 1/4"	12/96	8.82	9.16	
PV697-11/2	PV698-11/2	1 1/2"	8/64	11.14	11.81	
PV697-2	PV698-2	2"	4/48	15.80	16.61	
PV697-3	PV698-3	3"	2/12	39.95	41.31	
PV697-4		4"	1/4	88.67		
Replacement O-Ring for PV797, PV798, PV799, PV697, PV698						
PV796-1/2	1/2"	1		\$ 0.35		
PV796-3/4	3/4"	1		0.35		
PV796-1	1"	1		0.42		
PV796-11/4	1 1/4"	1		0.42		
PV796-11/2	1 1/2"	1		0.70		
PV796-2	2"	1		0.70		



Union, PVC Sch 80



1600 Series



SNR Series

Part Number	IPS Size	Ctn Qty	List Price
SCHEDULE 40 - MADE IN USA			
SLIP X SLIP			
1600-15	1 1/2" Socket both ends, 2" spigot one end	24	\$ 15.72
1600-20	2" Socket both ends, 2 1/2" spigot one end	20	20.76

Part Number	Description	Ctn Qty	List Price
UNION REPAIR SPLIT NUT			
SNR150	1 1/2" FBT Repair Split Nut w/ Screw	125	\$ 4.73
SNR200	2" FBT REpair Split Nut w/ Screw	100	5.25



CPVC Plastic Fittings - CTS

CPVC CTS Plastic Fitting Features:

- For CPVC copper tube size 1/2" and 3/4".
- For hot and cold water service.
- Meets ASTM-D-2846.
- NSF Approved.
- Rated 100 PSI at 180°F, 400 psi at 73°F.
- 14NSF Standard 61



2429 Series



2406 Series



2410 Series



2415 Series



2424 Series



2417 Series



2401 Series



2436 Series

Part Number	Size	Description	Ctn Qty	List Price
CPVC Coupling				
2429-005	1/2"	s x s	25/500	\$ 0.36
2429-007	3/4"	s x s	25/250	0.45
2429-010	1"	s x s	10/100	2.02
2429-101	3/4 x 1/2"	s x s	25/250	0.84
2429-131	1" x 3/4"	s x s	10/100	2.53
2413-007	3/4 x 3/4"	pvc slip x cpvc slip	25/250	1.62
2413-010	1" x 1"	pvc slip x cpvc slip	25/100	3.07
CPVC 90° Elbow				
2406-005	1/2"	s x s	50/500	0.41
2406-007	3/4"	s x s	25/250	0.68
2406-010	1"	s x s	10/100	1.99
2406-101	3/4 x 1/2"	s x s	25/250	1.57
CPVC 90° Street Elbow				
2410-005	1/2"	ms x fs	25/500	0.52
2410-007	3/4"	ms x fs	25/250	0.81
2410-010	1"	ms x fs	10/100	3.69
CPVC Drop Ear Elbow				
2415-005	1/2"	s x s	25/250	1.30
2424-005	1/2"	s x ft	25/250	2.43
CPVC 45° Elbow				
2417-005	1/2"	s x s	50/500	0.55
2417-007	3/4"	s x s	25/250	0.96
2417-010	1"	s x s	10/100	2.30
CPVC Tee				
2401-005	1/2"	s x s x s	50/500	0.56
2401-007	3/4"	s x s x s	25/250	0.99
2401-010	1"	s x s x s	10/100	5.21
2401-094	3/4 x 1/2 x 1/2	s x s x s	25/250	1.95
2401-095	3/4 x 1/2 x 3/4	s x s x s	25/250	1.41
2401-101	3/4 x 3/4 x 1/2	s x s x s	25/250	1.08
2401-125	1" x 3/4" x 3/4"	s x s x s	1/25	6.32
2401-126	1" x 3/4" x 1"	s x s x s	1/25	9.25
2401-131	1" x 1" x 3/4"	s x s x s	10/100	5.65
CPVC Male Adapter				
2436-005	1/2"	s x mipt	25/250	0.45
2436-007	3/4"	s x mipt	25/250	0.77
2436-010	1"	s x mipt	10/100	3.46

CPVC Plastic Fittings - CTS



2435 Series



2437 Series



2447 Series



2438 Series



2439 Series



2492 Series



2457 Series

Part Number	Size	Description	Ctn Qty	List Price
CPVC Female Adapter				
2435-005	1/2"	s x fipt	25/250	\$ 1.53
2435-007	3/4"	s x fipt	25/250	2.18
2435-010	1"	s x fipt	10/100	2.47
CPVC Reducing Bushing				
2437-101	3/4 x 1/2"	spigot x s	25/250	0.54
2437-130	1" x 1/2"	spigot x s	10/100	1.78
2437-131	1" x 3/4"	spigot x s	10/100	1.78
CPVC Cap				
2447-005	1/2"	slip	25/500	0.37
2447-007	3/4"	slip	25/250	0.50
2447-010	1"	slip	10/100	1.83
CPVC to Brass Transition Fittings				
2438-005	1/2 x 1/2"	cpvc x fipt	10/50	13.35
2439-005	1/2 x 1/2	cpvc x mipt	10/50	13.35
Tubing Straps				
2492-005	1/2"		100/1000	0.57
2492-007	3/4"		100/1000	0.46
CPVC Union				
2457-005	1/2"	slip	10/50	3.88
2457-007	3/4"	slip	10/50	5.56



Compression Couplings-Imported, PVC/CPVC



MATERIAL SPECIFICATIONS

#	Part	Material
1	Body	UPVC, CPVC
2	Compression Nut	UPVC, CPVC
3	Gasket - PVC	NR
	Gasket - CPVC	EPDM

PVC Compressing Coupling Features:

- Iron Pipe Size (PVC), Copper Tube Size (CPVC)
- For use with cold water (PVC) or hot water (CPVC-CTS)
- Natural rubber gasket seals
- Rated at 200 psi at 70 °F
- Imported

"PC" Series IPS DIMENSIONS (IN.)				
SIZE	D	d	d1	L
1/2"	1.85	.91	.83	5.24
3/4"	2.09	1.18	1.04	5.32
1"	2.40	1.42	1.31	5.75
1 1/4"	2.87	1.81	1.65	6.30
1 1/2"	3.15	2.05	1.89	6.89
2"	3.62	2.56	2.37	7.87
2 1/2"	4.53	2.52	2.87	9.92
3"	5.28	3.62	3.49	10.87
4"	6.34	4.65	4.49	11.93
6"	8.78	6.85	6.62	11.22

"HW" Series CTS DIMENSIONS (IN.)				
SIZE	D	d	d1	L
1/2"	1.30	.71	.63	4.49
3/4"	1.85	.95	.88	5.00

Part Number	Material	Size	Case Qty	List Price
PC10-1/2	PVC	1/2" IPS	100	\$ 2.56
PC10-3/4	PVC	3/4" IPS	90	2.97
PC10-1	PVC	1" IPS	60	3.84
PC10-11/4	PVC	1 1/4" IPS	40	4.62
PC10-11/2	PVC	1 1/2" IPS	30	6.37
PC10-2	PVC	2" IPS	20	8.87
PC10-21/2	PVC	2 1/2" IPS	10	20.26
PC10-3	PVC	3" IPS	4	28.67
PC10-4	PVC	4" IPS	2	37.83
PC10-6	PVC	6" IPS	2	91.00
HW10CTS1/2	CPVC	1/2" CTS	20/360	4.48
HW10CTS3/4	CPVC	3/4" CTS	20/240	5.42



SW Series

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
Adjustable Strap Wrench			
SW400	1/2" through 4"	10/60	\$ 19.47
SW600	1/2" through 6"	10/60	22.05



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12/13/11

12.15

Compression Fittings, Galvanized



Galvanized Long Pattern Compression Fitting Features:

- Bodies made of steel tubing (GC10), malleable iron (GC10C)
- End nuts made of malleable iron.
- Galvanized finish
- Buna-N gaskets on domestic fittings.
- SBR gaskets on GC10C series.
- Maximum rated service temperature for gaskets: 212 °F (100° C).
- GC10C manufactured for AGI in an ISO9002 facility.

Size	Recommended Maximum Pressure(PSI)	
	Torque Ft. Lbs	Anchored Piping
1/2"	150	150
3/4"	150	150
1"	225	100
1-1/4"	225	100
1-1/2"	225	100
2"	300	75

WARNING: Designer and/or contractor must provide suitable anchoring of piping to prevent pull-out from fittings when applications subject piping to external forces such as ground shift and temperature variations that cause linear pipe contraction.



GC10C Series



ISO 9002

Coupling GC10C - Long Pattern - Imported - Malleable Iron, 125 PSI, 120° F				
Part Number	Size	Pipe O.D.	Ctn/Case Qty	List Price
GC10C1/2	1/2"	.840	30 / 60	\$ 11.89
GC10C3/4	3/4"	1.050	25 / 50	13.33
GC10C1	1"	1.315	15 / 30	15.65
GC10C11/4	1-1/4"	1.660	12 / 24	19.86
GC10C11/2	1-1/2"	1.900	9 / 18	23.54
GC10C2	2"	2.375	14	35.21



GC10 Series

Coupling GC10 - Made in U.S.A. - Steel Tube				
Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC10-1/2	1/2"	.840	12	\$ 28.23
GC10-3/4	3/4"	1.050	12	30.78
GC10-1	1"	1.315	12	36.34
GC10-11/4	1-1/4"	1.660	6	48.53
GC10-11/2	1-1/2"	1.900	6	53.60
GC10-2	2"	2.375	6	67.36



GC12 Series

Adapters GC12 - Made in U.S.A. - Steel Tube				
Part Number	Size	Pipe O.D.	Ctn Qty	List Price
GC12-1/2	1/2"	.840	12	\$ 39.75
GC12-3/4	3/4"	1.050	12	41.61
GC12-1	1"	1.315	12	42.14
GC12-11/4	1-1/4"	1.660	6	50.09
GC12-11/2	1-1/2"	1.900	6	69.65
GC12-2	2"	2.375	6	69.78