



December 21, 2022

To Our Valued Customers:

At the close of business **Monday, January 23, 2023** we will implement list price changes in response to mostly domestic manufacturers' immediate cost increases. Price changes related to these increases are reflecting increases already placed into the market by our domestic suppliers. Other changes are due to the continued movement in raw materials and freight from domestic and overseas sources.

Attached is the listing of the products that are changing at the close of business Monday, January 23, 2023. Updated List Price Files and Catalog Page Changes will be available for download from our website on or about January 16, 2023.

<http://www.americangranby.com/Downloads.aspx>

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

Please add sales@americangranby.com to your address book to be sure you receive our pricing notices in the future.

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(315) 451-1100
Fax: (315) 451-6928

www.americangranby.com

The Original Source of Vendor Consolidation

INSTRUCTIONS FOR OBTAINING LIST PRICE CHANGE DATA

To obtain copies of our list price changes go to www.americangranby.com.

Click the DOWNLOAD tab, then on the left under PRICE CHANGE UPDATES there are multiple download options.

- For an Excel file of the latest list price changes click on the **JAN 24 23 List Price Change File.**
- For a .PDF version of the updated catalog pages click on the **JAN 24 23 Catalog Page Updates.**
- Click on FULL CATALOG and SECTION DOWNLOADS for .PDF files of the Full Granby Catalog or sections.

Product	Page Numbers	Product	Page Numbers
Flometers	P.14	Check Valves	5.04 - 5.05
Bolt Kits	P.30	Sump Basins	5.09
Tubing poly black	P.35		
Tubing Fittings	P.37	Pipe Repair Clamps	6.03
Pipe Cutter & blades	P.40	Tubing - Poly black	6.07
Installation & Repair	P.45	Tubing Fittings	6.09
Installation & Repair	P.47	Plumbing Accessories	6.20
Equipment Pads	P.51	Roof Flashings	6.21
Winterizing Plugs	P.61		
		Pinch Clamps	6A.05
Equipment Pads	1.03		
Manifolds, Manifold Kits	1.05, 1.07	Tapes - PTFE	7.01
		Caulk Gun	7.09-7.10, 7.13
Tank Crosses	1.09 - 1.12	Super Lube	8.01 - 8.06
Tank Fitting Packages	1.16	Permatex/Devcon	8.07 - 8.08
Tank Crosses	1.19 - 1.21		
Tank Fitting Packages	1.23 - 1.26	Flo Compression Fittings	9.01 - 9.04
Tank Installation Accy	1.30	FloLock Fittings/ Couplings	9.05 - 9.06
Air Volume Controls and Releases	1.33 - 1.34	Flo Check Valves	9.07 - 9.10
Submersible Installation Accy	1.36	Flo Check Valves / Unions	9.11 - 9.12
Installation Fittings	1.37 - 1.40	Flo Valves	9.14
Drop Pipe Coupling SS	1.43	Flo Well	9.16
Flow Control Valves	1.45 - 1.46	NDS Basins/Grates	9.19 - 9.32
Heat Shrinks/Wire connectors	1.47 - 1.48	Channel Drains	9.35 - 9.38
Liquid Level Controls	1.57		
Test Gauges	1.66	Krain	10.01 - 10.30
Pitless Adapters	1.67	Saddle Tees	10.39 - 10.40
Well points - Simmons	1.79 - 1.80	Poly Swing Pipe	10.42
Pitcher Pump parts	1.85 - 1.86	Valve Boxes	10.49 - 10.51
Leathers	1.91 - 1.98	Repair Couplings	10.53
Check Valves	2.01	Pipe Cutters	11.02
Foot Valves - SS	2.05	Plumbing Tools	11.08
Foot & Check Valves - Simmons	2.11 - 2.13		
Foot valve leathers	2.16	Insert Fittings - ERBNL	12.04
Yard Hydrant fittings	2.17,	Insert Fittings - RBNL	12.05 - 12.06
Yard Hydrants -	2.19 - 2.20	Insert Fittings - STL	12.07 - 12.08
		Insert Fittings - SS	12.09 - 12.10
Ball Valves	3.01, 3.03	Insert Fittings - RB	12.13 - 12.14
Plumbing Valves	3.10	Unions	12.16
Bolt Kits	3.26	Pipe Repair Clamps	12.21
		Malleables - Domestic	12.43 - 12.49
Filter housings	4.01 - 4.02		
Filter Kits correction	4.03		
Filter Housings, Cartridges and systems	4.13 - 4.23		
RO systems	4.11		
UV Systems	4.42 - 4.43		
Pulsafeeder	4.45 - 4.50		

Test Kits & Specialty Gauges



Pool Test Kit Features:

- For pressure testing pool systems
- Unassembled kits individually boxed
- Includes PVC Sch 40 Reducing Tee, PVC Sch 40 Reducing Bushing, Brass Boiler Drain, 3/4", 60# 2" plastic case pressure gauge, 1/4" lower brass mount.

Part Number	Description	Ctn Qty	List Price
TK150	1 1/2" Pool Test Kit	8	\$ 55.04
TK200	2" Pool Test Kit	8	58.62



Pressure Air Test Gauge Features:

- Quick, easy means of pressurizing and monitoring plumbing systems for leakage.
- Attach to hose bibb.
- Includes brass hex manifold, air valve, 2" 200# gauge, garden hose thread fitting.

Part Number	Description	Ctn Qty	List Price
PATG200	Pressure Air Test Gauge	30	\$ 29.72



PGBS



Pressure Gauge Brass Snubber Features:

- Use with any pressure gauge subjected to rapidly fluctuating pressures or sudden shock pressure.
- Brass housing with high strength sintered, porous type snubbing element.

Part Number	Size/Description	Ctn Qty	List Price
PGBS1/4	1/4" mpt x 1/4" fpt Brass Snubber	50/500	\$ 9.99



PTG1002

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty	List Price
PTG1002	2" case	0-100# Pressure test gauge	50	\$ 16.39



WTG



WTG MP



Water Test Gauge Features:

- Quick, easy method to test a wide range of pressure systems for leakage.
- 2 1/2" dial face, steel case pressure gauge w/ plastic lens.
- With standard 3/4" FGHT swivel garden hose connection with rubber washer.
- Attach to hose bibbs, boiler drains and lawn faucets for pressure testing.
- "MP" series MAX pointer arm measures maximum water surge or pressure drop.
- Individually cartoned.

Part Number	Size	Pressure Setting/Description	PSI dial increments	Ctn Qty	List Price
WTG100	2 1/2"	0-100# water test gauge, fght	1	50	\$ 11.46
WTG200	2 1/2"	0-200# water test gauge, fght	2	50	11.46
WTG300	2 1/2"	0-300# water test gauge, fght	3	100	11.46
WTG100MP	2 1/2"	0-100# gauge with MAX pointer	1	50	12.25
WTG200MP	2 1/2"	0-200# gauge with MAX pointer	2	50	12.25
WTG300MP	2 1/2"	0-300# gauge with MAX pointer	3	50	12.25

Gas Test Gauges, Flowmeters



GTG



GTMAV

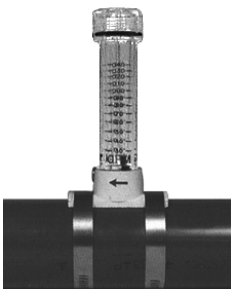


GTM3/4

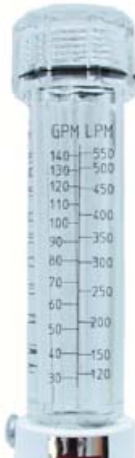
Gas Test Gauge Features:

- Quick, easy means of pressurizing & monitoring gas systems for leakage.
- Completely assembled - brass hex manifold, air valve with plastic cap and 2" dial face, steel case pressure gauge with plastic lens.
- Manifold also available separately: 3/4" fpt connection with 1/4" fpt gauge tap and 1/8" fpt air valve tap.
- Individually cartoned and available in 15, 30, 60 and 100 psi.

Part Number	Description	Gauge Increments	Ctn Qty	List Price
GTG15	Gas test gauge, 3/4" fpt, 0-15#	1/10 lb.	50	\$ 20.26
GTG30	Gas test gauge, 3/4" fpt, 0-30#	1/2 lb.	50	20.26
GTG60	Gas test gauge, 3/4" fpt, 0-60#	1/10 lb.	50	20.26
GTG100	Gas test gauge, 3/4" fpt, 0-100#	1 lb.	50	20.26
GTM3/4	Brass Gas test manifold only		100	10.56



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	\$ 270.43
U8800439	1 1/2"	20-80 / 80-300	270.43
U8800440	2"	30-140 / 120-550	270.43
U8800441	2 1/2"	40-200 / 160-750	270.43
U8800442	3"	80-350 / 300-1300	270.43
U8800443	4"	150-600 / 600-2200	270.43

Butterfly Valves - PVC Sch 80



PBFV Series

ISO 9002



MATERIAL SPECIFICATIONS

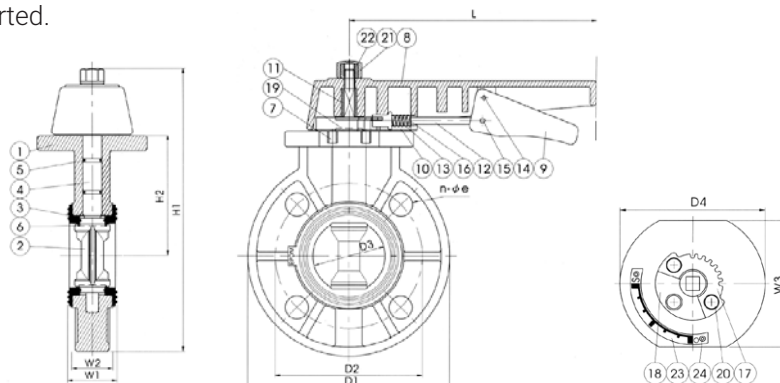
No.	Part	Material	Qty
1	Body	PVC	1
2	Disc	PP	1
3	Seat Seal	EPDM	1
4	Stem	SS 410	1
5	O-ring	EPDM	2
6	O-ring	EPDM	2
7	Inserted Nut	SS 41	3
8	Large Handle	ABS	1
9	Small Handle	ABS	1
10	Spring Lock	ABS	1
11	Handle Insert	SS	1
12	Handle Lever	SS 304	1
13	Spring	SS 304	1
14	Spring Pin	SS 304	1
15	Spring Pin	SS 304	1
16	Washer	SS 304	1
17	Locking Plate	SS 304	1
18	Gear Seat	PP + GF	1
19	Washer	SS 304	1
20	Bolt	SS 304	3
21	Nut	PVC	1
22	Insert Nut	C3604	1
23	Level	SS 304	1
24	Rivet	SS	2

CV (GPM/(1 lbf/in²)^{1/2})
Opening Rate: 90°

SIZE	CV
2"	100.87
2 1/2"	137.82
3"	224.08
4"	409.51
5"	523.92
6"	1243.00

PVC Sch 80 Butterfly Valves Features:

- 150 PSI working pressure.
- PVC body, polypropylene disc, and EPDM seat and o-ring.
- Flanged end design.
- Corrosion resistant.
- Excellent flow characteristics.
- Ideally suited for flow control in a minimum piping space.
- Clear indication of disc opening degree.
- Built in seat requires no additional gaskets between flanges.
- Manufactured for AGI in an ISO 9002 facility.
- Imported.



DIMENSIONS \ SIZE (in)

	2"	2 1/2"	3"	4"	5"	6"	8"
D1	6.44	7.22	7.80	8.93	9.98	11.12	13.38
D2	4.70	5.44	5.94	7.43	8.42	9.42	11.64
D3	2.20	2.71	3.10	4.01	5.11	6.02	7.91
D4	4.13	4.66	4.84	5.26	6.40	6.64	7.84
L	7.92	7.92	7.92	9.91	11.86	11.86	11.86
H1	9.59	10.37	10.76	12.40	15.21	15.80	18.17
H2	4.02	4.41	4.49	5.27	5.85	6.90	8.19
W1	1.67	1.85	1.85	2.23	2.57	2.88	3.41
W2	1.35	1.45	1.45	1.83	2.22	2.53	3.06
W3	3.67	3.67	3.66	3.89	4.31	3.93	4.76
n-oe	.741	.741	.741	.741	.858	.858	.858

Part Number	Description	Ctn Qty	List Price
PBFV2	2" PVC Butterfly valve	4	\$ 278.64
PBFV21/2	2 1/2" PVC Butterfly valve	4	285.44
PBFV3	3" PVC Butterfly valve	4	281.32
PBFV4	4" PVC Butterfly valve	4	320.58
PBFV5	5" PVC Butterfly valve	4	462.32
PBFV6	6" PVC Butterfly valve	4	536.35
PBFV8	8" PVC Butterfly valve	1	782.37

Replacement handles

PBFV2 HANDLE	2" PVC valve handle	1	30.94
PBFV21/2 HANDLE	2 1/2" PVC valve handle	1	30.94
PBFV3 HANDLE	3" PVC valve handle	1	30.94
PBFV4 HANDLE	4" PVC valve handle	1	38.26
PBFV5 HANDLE	5" PVC valve handle	1	51.93
PBFV6 HANDLE	6" PVC valve handle	1	51.93
PBFV8 HANDLE	8" PVC valve handle	1	51.93

Flanges, Bolt Kits, Gaskets

PVC Sch 80 Van Stone Flange Features:

- Two-piece van stone socket style.
- Class 150, Schedule 80
- Improve the security and safety of connections between pipes, valves & fittings.
- Imported - Manufactured for AGI in an ISO 9002 facility.



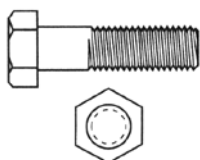
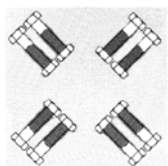
PF Series

ISO 9002



	DIMENSIONS \ SIZE (in)						
	2"	3"	4"	6"	8"	10"	12"
D1	5.93	7.49	8.93	11.08	13.38	15.83	18.76
D2	4.72	5.93	7.45	9.40	11.62	14.12	16.85
D3	2.96	4.21	5.19	7.45	9.28	12.09	14.20
d	1.99	3.00	3.98	6.08	7.96	9.98	11.97
d1	2.35	3.46	4.45	6.55	8.53	10.64	12.62
d2	2.37	3.48	4.48	6.59	8.57	10.68	12.67
H	1.68	2.11	2.50	3.32	4.60	5.85	7.45
T	.78	1.01	1.09	1.25	1.40	1.64	1.64
L	1.49	1.86	2.23	2.97	3.98	4.80	6.44
n-oe	.741	.741	.741	.858	.858	.936	.975

Part Number	Description	Ctn Qty	List Price
PF2	2" Flange	60	\$ 14.69
PF2 1/2	2 1/2" Flange	36	25.08
PF3	3" Flange	30	24.26
PF4	4" Flange	20	32.47
PF6	6" Flange	10	52.35
PF8	8" Flange	4	84.66
PF10	10" Flange	2	113.14
PF12	12" Flange	2	134.22



BBK Series

Bolt Kit Features:

- For use with cast iron & PVC butterfly valves. BF8200, HBFV and PBFV Series
- ASTM-A307 grade black steel bolts and A563 finished nuts.
- Washers and Gaskets NOT included- Available upon request.

Part Number	Valve Size	Bolt Size	Bolts/Kit	Ctn Qty	List Price
BBK2	2"	5/8" x 5"	4	16	\$ 35.28
BBK2.5/3	2 1/2" and 3"	5/8" x 5 1/2"	4	16	35.19
BBK4	4"	5/8" x 6"	8	8	65.71
BBK5/6	5" and 6"	3/4" x 6 1/2"	8	8	97.20
BBK8	8"	3/4" x 7"	8	8	126.52
BBK10	10"	7/8" x 7 1/2"	12	3	276.74
BBK12	12"	7/8" x 8 1/2"	12	3	325.68

Red Rubber Gasket Features:

- For use with butterfly valves, Sch 80 flanges
- Red rubber, 150 lbs., 1/8" full face.



GSK Series

Part Number	Valve Size	List Price	Part Number	Valve Size	List Price
GSK11/2R	1 1/2"	\$ 20.77	GSK5R	5"	\$ 27.06
GSK2R	2"	17.44	GSK6R	6"	27.17
GSK2 1/2R	2 1/2"	20.50	GSK8R	8"	38.00
GSK3R	3"	25.73	GSK10R	10"	50.17
GSK4R	4"	25.07	GSK12R	12"	82.21

Tubing - Polyethylene



Polyethylene Tubing Features:

- Conforms to FDA, NSF and USDA Standards.
- Temperature Range -100° F to +140° F
- Economical.
- Extremely Flexible.
- Translucent.
- Resists Corrosion.
- **NOT FOR USE WITH HOT WATER**



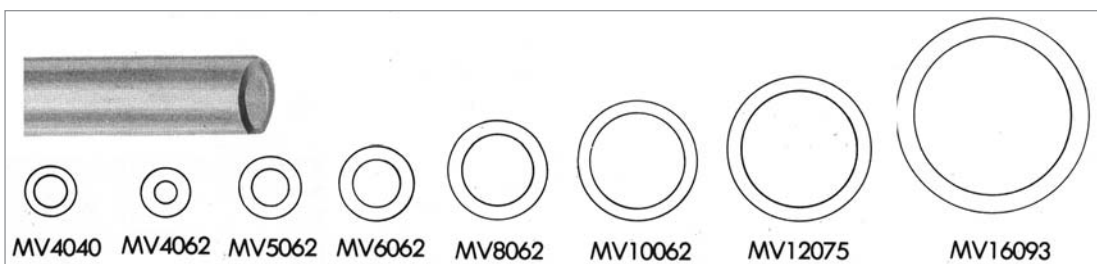
- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
Ex: For 500' of MV4040-5 order Qty 1 MV4040-5

Part Number Bulk Boxed	Part Number Dispenser Box	OD	ID	Wall Thickness	Max PSI @ 70°F	Coil Length	List Price Per Coil
MV4040-1BLACK		1/4"	.17"	0.04"	135	100'	\$ 33.17
MV4040-1		1/4"	.17"	0.04"	135	100'	40.30
MV4040-5		1/4"	.17"	0.04"	135	500'	201.57
MV4040M		1/4"	.17"	0.04"	135	1000'	403.14
MV4062-1		1/4"	1/8"(.125)	1/16"(.062)	180	100'	45.79
MV4062-5		1/4"	1/8"(.125)	1/16"(.062)	180	500'	229.00
MV4062M		1/4"	1/8"(.125)	1/16"(.062)	180	1000'	458.00
MV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	140	100'	60.37
MV5062-5		5/16"	3/16"(.1875)	1/16"(.062)	140	500'	301.81
MV5062M		5/16"	3/16"(.1875)	1/16"(.062)	140	1000'	603.65
MV6062-1		3/8"	1/4"(.250)	1/16"(.062)	120	100'	75.16
MV6062-5		3/8"	1/4"(.250)	1/16"(.062)	120	500'	385.53
MV6062-5BLACK		3/8"	1/4"(.250)	1/16"(.062)	120	500'	376.79
MV6062M		3/8"	1/4"(.250)	1/16"(.062)	120	1000'	766.84
MV8062-1		1/2"	3/8"(.375)	1/16"(.062)	90	100'	108.57
MV8062-5		1/2"	3/8"(.375)	1/16"(.062)	90	500'	542.86
MV10062-1		5/8"	1/2"(.500)	1/16"(.062)	70	100'	133.86
MV10062-5		5/8"	1/2"(.500)	1/16"(.062)	70	500'	669.45
MV12075-1		3/4"	.6	.075	60	100'	183.18
MV16093-1		1"	.814	3/32" (.094)	55	100'	299.14



TP309	5/16"	3/16"(.1875)	1/16"(.062)	100'	75.57
TP310	3/8"	1/4"(.250)	1/16"(.062)	100'	91.63
TP311	1/2"	3/8"(.375)	1/16"(.062)	100'	128.09

POLYETHYLENE TUBING SIZING GUIDE



Tubing - Clear Vinyl



Vinyl Tubing Features:

- Temperature Range -20° F to +150° F
- Flexible.
- Transparent.
- Tasteless.
- Non-Toxic.
- **NOT FOR USE WITH HOT WATER**



Applications:

- Pool slides
- RV use cold water
- Water softeners
- Ice maker
- Livestock
- Food & Beverage

• SOLD IN COIL LENGTHS ONLY.

• ORDER BY THE NUMBER COIL LENGTHS REQUIRED.

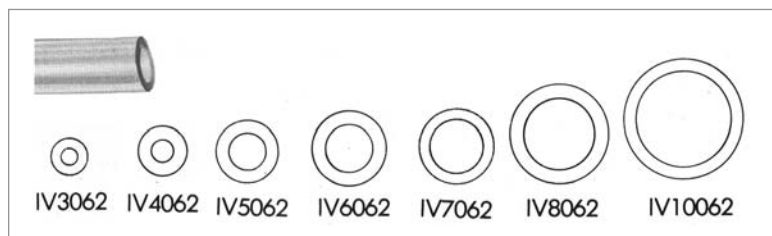
Ex: For 500' of IV7062-5 order Qty 1 IV7062-5

Part Number	Bulk Box	Dispenser Box	OD	ID	Wall Thickness	Length	List Price Per Coil
IV4062-1			1/4"	1/8"(.125)	1/16"(.062)	100'	\$ 73.33
IV5062-1			5/16"	3/16"(.1875)	1/16"(.062)	100'	93.37
IV6062-1			3/8"	1/4"(.250)	1/16"(.062)	100'	115.72
IV7062-1			7/16"	5/16"(.3125)	1/16"(.062)	100'	117.23
IV8062-1			1/2"	3/8"(.375)	1/16"(.062)	100'	148.49
IV10062-1			5/8"	1/2"(.500)	1/16"(.062)	100'	197.90



TV309	5/16"	3/16"(.1875)	1/16"(.062)	100'	63.17
TV310	3/8"	1/4"(.250)	1/16"(.062)	100'	81.74
TV311	1/2"	3/8"(.375)	1/16"(.062)	100'	107.65
TV3125	5/8"	1/2"(.500)	1/16"(.062)	100'	138.86
TV313-1	7/8"	5/8"	1/8"	100'	330.60
TV315	1 1/4"	1"	1/8"	50'	256.04

VINYL TUBING SIZING GUIDE



Fittings for Plastic Tubing - NL Brass



Barb Fitting Features:

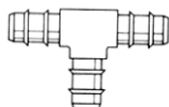
- Superior NO LEAD brass fittings for soft plastic tubing for oil, water, air, vacuum, gas and liquid low pressure lines.
- Exclusive self-clinching double barbs actually tighten under strain.

Compression Fitting Features:

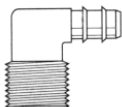
- NO LEAD Brass compression fittings designed for plastic tubing.
- Built-in tube support prevents tube collapse and allows easy assembly.



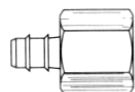
VT22



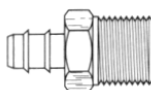
VT224



VT229



VT26



VT28

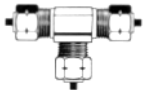
Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Coupling (Ins x Ins)					
VT22-4-4NL	3/8"	1/4"		Bulk	\$ 6.24
VT22-6-6NL	1/2"	3/8"		Bulk	7.69
Tee (Ins x Ins x Ins)					
VT224-6NL	1/2"	3/8"		Bulk	19.41
Elbow (Ins x MIP)					
VT229-4-4NL	3/8"	1/4"	1/4" mip	Bulk	17.73
VT229-6-4NL	1/2"	3/8"	1/4" mip	Bulk	15.60
Female Adapter (Ins x FIP)					
VT26-6-4NL	1/2"	3/8"	1/4" fip	Bulk	10.14
Male Adapter (Ins x MIP)					
VT28-4-2NL	3/8"	1/4"	1/8" mip	Bulk	5.84
VT28-4-4NL	3/8"	1/4"	1/4" mip	Bulk	8.31
VT28-6-4NL	1/2"	3/8"	1/4" mip	Bulk	9.52

Fittings for Plastic Tubing - NL Brass



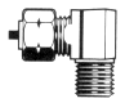
VT62

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Union w/ inserts (Comp x Comp)					
VT62-4NL	1/4" x 1/4"	.17"		Bulk	\$ 12.41



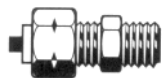
VT64

Tee w/ inserts (Comp x Comp x Comp)					
VT64-4NL	1/4" x 1/4" x 1/4"	.17"		Bulk	21.36



VT69

Male Elbow w/ inserts (Com x MIP)					
VT69-4-4NL	1/4"	.17"	1/4" mip	Bulk	19.87



VT68

Male Connector w/ inserts (Comp x MIP)					
VT68-4-4NL	1/4"	.17"	1/4" mip	Bulk	10.45
VT68-6-4NL	3/8"	1/4"	1/4" mip	Bulk	12.09



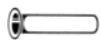
VT60

Delrin Sleeve					
VT60-4	1/4"			Bulk	0.63
VT60-6	3/8"			Bulk	1.04



VT61

Nut					
VT61-4NL	1/4"			Bulk	2.09
VT61-5NL	5/16"			Bulk	2.71
VT61-6NL	3/8"			Bulk	3.02



VT63

Tube Support					
VT63-4NL	1/4"	.17"		Bulk	0.77
VT63-6NL	3/8"	1/4"		Bulk	1.43

Pipe & Hose Cutters



T Series

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter Features:

- Heavy duty, glass reinforced nylon handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Handle "bridge" support structure designed to eliminate deflection, bending or breaking while cutting for straighter, truer cut every time.
- "100" and "135" available in black or yellow. "200" available in black.
- Available with either PTFE coated hardened tool steel or polished high-carbon stainless steel blades specially honed to maintain their edge longer than competitive blades.
- Cutter blades individually laser etched with "100", "135" or "200" for easy identification. Replacement blades are blister packed with knock out pin.
- All Harvard Plastic Pipe and Hose cutters are blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing (except when cutting 2" or larger hose with the SS200).



Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
T100	Black	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	\$ 27.74
YT100	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	27.74
T100SS	Black	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	28.96
YT100SS	Yellow	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	28.96
T135	Black	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	31.12
YT135	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	31.12
T135SS	Black	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	32.33
YT135SS	Yellow	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	32.33
SS200	Black	Stainless Steel	Rubber hose through 2" PE through 1 1/2" & Class PVC through 1 1/4"	50	34.29

HARVARD CONTRACTOR Replacement Blades (includes 1 knock out pin) DP DOUBLE PACK

BT100	PTFE Coated Hardened Steel Blade	T100, YT100	100	11.97
BT100SS	Stainless Steel Blade	T100SS, YT100SS	100	10.81
BT135	PTFE Coated Hardened Steel Blade	T135, YT135	100	13.67
BT135DP	PTFE Coated Hardened Steel Blades (2)	T135, YT135	100	24.93
BT135SS	Stainless Steel Blade	T135SS, YT135SS	100	12.56
BT135DPSS	Stainless Steel Blades (2)	T135SS, YT135SS	100	26.58
SSB200	Stainless Steel Blade	SS200	50	12.63

Pipe & Hose, PVC - Ratchet Pipe Cutters



APC100SS



HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter with Spring Action Features:

- Heavy duty, cast metal handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Spring action for easy use.
- Latch handle for carrying in closed position.
- **Reversible**, replaceable polished high carbon stainless steel blades honed to maintain thin edge longer than competitive blades.
- Cuts PE, Rubber hose & PVC (Class & Sch 40) through 1" ID (max diameter 1 3/8")
- Blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing.



Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
APC100SS	Red	Stainless Steel	PE, Rubber hose & PVC through 1" ID	50	\$ 22.27
HARVARD CONTRACTOR Replacement, Reversible Blade					
APC100SSB		Stainless Steel reversible blade		1	11.16



HS25



HM42



HL48



HL50

HARVARD® PVC Ratchet Pipe Cutter Features:

- For use on plastic pipes up to 1", 1 1/4", 1 3/8", 1 1/2" or 2" diameter.
- **Blade and ratchet teeth made of molybdenum vanadium stainless steel. Stays sharp longer than plated steel blades.**
- All metal construction insures long life; locking clip provides safe storage.
- Holds pipe as it cuts, creating smooth, even ends.
- One hand operation (except on HL50).

Part Number	Description	Ctn Qty	List Price
Cutters - With molybdenum vanadium stainless steel blades			
HS25	PVC Pipe Cutter, 1"	60	\$ 69.19
HM42	PVC Pipe Cutter, 1-1/4"	60	70.14
HL42A	PVC Pipe Cutter, 1 3/8"	60	97.35
HL48	PVC Pipe Cutter, 1 1/2"	40	143.83
HL50	PVC Pipe Cutter, 2"	20	280.53
Replacement Blades - Molybdenum vanadium stainless steel			
HS25B	Blade for HS25	1	32.70
HM42B	Blade for HM42	1	38.12
HL42AB	Blade for HL42A	1	38.06
HL48B	Blade for HL48	1	75.64
HL50B	Blade for HL50	1	141.21
Replacement Spring Sets			
HS25SP	Spring Set for HS25	1	4.91
HM42SP	Spring Set for HM42	1	6.69
HL42ASP	Spring Set for HL42A	1	6.88
HL48SP	Spring Set for HL48	1	11.08
HL50SP	Spring Set for HL50	1	7.43



AquaMend®

AquaMend® Underwater Repair Epoxy

- Ideal for pool & spa repairs.
- Resin and hardener in same stick
- Hand kneadable.
- Unaffected by chlorinated or salt water.
- Sets in 25 minutes, cures in 1 hour.
- Dries off-white.
- Can be sanded and drilled.



1. Cut



2. Mix



3. Apply

Part Number	Size	Display Ctn Qty	List Price
82093	7" stick	12	\$ 18.46



HDT Series

ISO 9002

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.

Part Number	Width x Length	Ctn Qty	List Price
HDT260	2" x 60 yards	24	\$ 33.01



ISO 9001



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. Contact salesrep

Part Number	Size	Ctn/Pallet Qty	List Price
BLUE 72	Blue Spray Adhesive 24 fl oz can, 17.3 oz net wt.	12/768	\$ 54.77
ORANGE 74	Orange spray adhesive 24 fl oz can, 16.9 oz net wt	12/768	66.45



FAL32



MARLIG INDUSTRIES, INC.

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.

Part Number	Description	Ctn Qty	List Price
FAL32	Fix A Leak Sealant, 32 oz.	12	\$ 54.31
FAL8	Fix A Leak Sealant, 8 oz.	20	24.55

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



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".
- SJTW Indoor/Outdoor rated.
- 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	\$ 18.93
PTC163-6RA	Right angle plug cord	16	125 V	50	18.93
PTC143-6RA220	Right angle plug cord	14	250 V	50	30.76



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	\$18.74
AK10TCR	Ribbed Tri Combo Head	36	19.25



2136



LISTED

Swimming Pool,
Fountain and Spa
Equipment
Conductor Splice
Potting Compound
2L02

3M Scotchcast™ 2136 Wet-Niche Potting Kit Features:

- 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.
- Product meets NEC requirements to allow the use of rigid nonmetallic conduit in the installation of wet-niche underwater lighting fixtures.
- Packaged in easy-mix, single use, 1.5 oz. container with cleaning pad, application stick and gloves.
- Will not sag or drip. Gels in minutes and can be submerged within 4 hrs.

Part Number	Description	Ctn Qty	List Price
2136	Wet-Niche Potting Kit	10	\$ 169.24



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 #0G8547.5C
- Made in USA.

Part Number	Description	Height	Ctn Qty	List Price
10-417-15	3/4" M/F Safety relief valve	3"	100	\$ 84.57

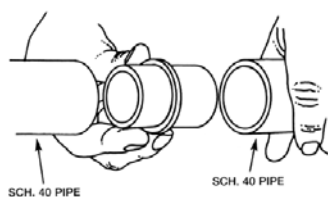
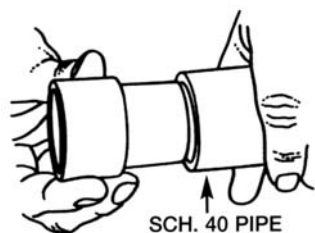
Repair Fittings for Sch 40 Pipe



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
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Pipe Extender Repair Fitting

PEX50	Pipe Extender	1/2"	48	\$ 3.32
PEX75	Pipe Extender	3/4"	48	4.32
PEX100	Pipe Extender	1"	48	5.49
PEX125	Pipe Extender	1 1/4"	48	6.42
PEX150	Pipe Extender	1 1/2"	48	7.57
PEX200	Pipe Extender	2"	48	8.57
PEX250	Pipe Extender	2 1/2"	96	11.63
PEX300	Pipe Extender	3"	96	16.81
PEX400	Pipe Extender	4"	48	19.64

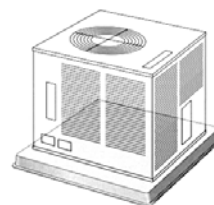
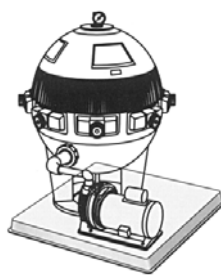
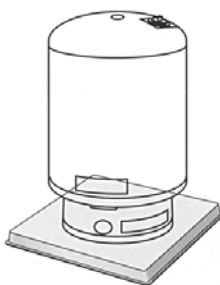
Inside Connector Repair Fitting

PIC100	Inside Connector	1"	48	5.49
PIC150	Inside Connector	1 1/2"	48	7.57
PIC200	Inside Connector	2"	48	8.57



The EcoPad™ Features:

- 98% recycled polypropylene plastic mounting pad.
- Environmentally friendly alternative to concrete due to recycled content.
- Designed to support HVAC outdoor units and other outdoor equipment like well equipment, pool pumps and filters.
- Optimized rib pattern provides excellent support on soil and gravel.
- Pad should be placed on level soil, gravel, concrete or asphalt.
- Textured top surface to reduce slippage.
- Drillable for securing equipment. (1/4x1 3/4" Tapcon® recommended)
- Unaffected by UV exposure or extreme weather.
- Black
- Tested per ASTM C67 and ASTM D2299



NEW STYLE

Part Number	DISC Part Number *	Size	Pallet Qty	List Price
2" PADS				
EP2424-2		24" x 24" x 2"	44	\$ 98.02
EP3232-2		32" x 32" x 2"	22	157.97
EP3636-2		36" x 36" x 2"	22	193.35
EP3842-2		38" x 42" x 2"	16	242.75
3" PADS				
EP2424-3		24" x 24" x 3"	16	110.55
EP3030-3		30" x 30" x 3"	16	162.69
EP3232-3		32" x 32" x 3"	16	177.31
EP3636-3		36" x 36" x 3"	16	204.07
EP3648-3		36" X 48" X 3"	16	299.34

CLOSEOUT PRICING

2" PADS - * DISCONTINUED - LIMITED QUANTITIES AVAILABLE

ACP24242	24" x 24" x 2"	24	\$ 93.12
ACP32322	32" x 32" x 2"	24	156.21
ACP36362	36" x 36" x 2"	24	190.94
ACP38422	38" x 42" x 2"	24	230.61

3" PADS - * DISCONTINUED - LIMITED QUANTITIES AVAILABLE

ACP24243	24" x 24" x 3"	16	105.02
ACP30303	30" x 30" x 3"	16	152.28
ACP32323	32" x 32" x 3"	16	168.44
ACP36363	36" x 36" x 3"	16	208.13
ACP36483DT	36" X 48" X 3"	16	290.89

Pool Service Accessories

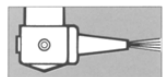
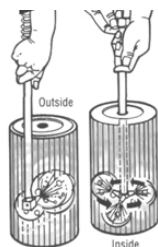


SPPW405

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	\$ 56.09
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	\$ 23.57

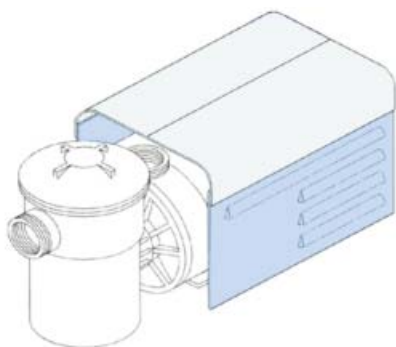


AGLFB19

Ladder Bumper Features:

- White, molded EPDM.

Part Number	Description	Fits Tubes	Ctn Qty	List Price
AGLFB19	Male Ladder bumper	1.9" OD	200	\$ 7.46



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	\$ 55.95

Winterizing Plugs



HWP Flush Plug



HWP Raised Plug



HWP Rubber Plug

Winterizing Plug Applications:

- Safely seals swimming pool inlets and outlets against freezing.
- Temporary pluggings of any water system application for either pipe or fitting sizes.

Plastic 1-1/2" Threaded Plug Features:

- Heavy duty, white ABS construction.
- EPDM o-ring is resistant to extreme weather & chemical corrosion.
- Gives a positive seal—no leaking.
- Available in raised or flush style.

Rubber Expansion Plug Features:

- Stainless steel screw and washers.
- Nylon wing nut provides easier turning in cold temperatures, providing greater tightness than conventional plugs.
- Tapered.

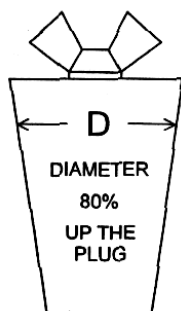
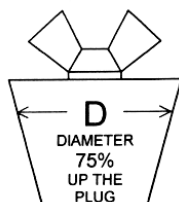
Part Number	D (in)	Plug Size	Used For	Case/Ctn Qty	List Price
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Plastic

HWP1022B(Flush)	1-1/2"	White	1 1/2" fip	1000/50	\$ 2.01
HWP1022C(Raised)	1-1/2"	White	1 1/2" fip	1000/50	2.01

Rubber

HWP2000	0.46	000	3/8" pipe	500/50	\$ 2.48
HWP200	0.63	0	1/2" pipe	500/50	3.42
HWP201	0.70	1	1/2" pipe	500/50	3.42
HWP202	0.75	2	3/4" tube	500/50	3.55
HWP203	0.89	3	3/4" pipe	500/50	3.72
HWP204	0.96	4	3/4" & 1" pipe	500/50	3.89
HWP205	1.02	5	1" tube	500/50	4.06
HWP2055	1.06	5 1/2	1" pipe	500/50	4.19
HWP206	1.20	6	1" fitting	500/50	4.32
HWP2065	1.27	6 1/2	1 1/4" pipe	200/20	4.70
HWP207	1.39	7	1 1/4" pipe	200/20	5.04
HWP2075	1.46	7 1/2	1 1/2" pipe	200/20	5.09
HWP208	1.54	8	1 1/2" pipe	200/20	5.13
HWP2085	1.62	8 1/2	1 1/2" pipe	200/20	5.56
HWP209	1.69	9	1 1/2" pipe & 1 1/4" ftg	200/20	5.77
HWP2095	1.73	9 1/2	1 1/2" fitting	200/20	5.94
HWP20975	1.81	9 3/4	1 1/2" fitting (for SP1023G)	200/20	5.98
HWP210	1.89	10	1 1/2" fitting	60/10	6.07
HWP211	2.13	11	2" pipe	60/10	8.16
HWP212	2.42	12	2" fitting	60/10	8.76
HWP213	2.58	13	2 1/2" pipe	30/5	13.42
HWP2135	2.82	13 1/2	3" pipe	40/5	15.38
HWP214	3.40	14	3" pipe	30/5	22.82
HWP215	3.86	15	4" pipe	30/5	26.72
HWP216	4.64	16	4" pipe	20/4	30.56
HWP1-5	1.02	01-05	Universal tapered 01-05	250/50	4.44
HWP5-7	1.36	05-07	Universal tapered 05-07	100/20	6.88
HWP7-10	1.78	07-10	Universal tapered 07-10	100/20	8.97



Winterizing Plugs

Extended Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts, stainless steel washers, spacers and high quality rubber.

Double Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts, stainless steel washers, spacers and high quality rubber with brass stem.

Blow Through Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts and caps, stainless steel washers, high quality rubber, extended brass air valve w/ spring loaded core.



HWP Extended Shaft



HWP Double Plug



HWP Blow Through



HWP Blow Through
Universal Tapered

Part Number	Plug Size	Case/Ctn Qty	List Price
Rubber Extended Shaft Plugs			
HWP202X	2	250/50	\$ 5.98
HWP203X	3	250/50	6.24
HWP204X	4	250/50	6.50
HWP205X	5	250/50	6.75
HWP206X	6	250/50	6.84
HWP207X	7	200/20	6.97
HWP208X	8	200/20	7.14
HWP209X	9	200/20	7.56
HWP210X	10	60/10	7.78

Double Plugs	top x bottom x spacing length x top spacer		
HWP98DP35	Anthony "L3" 09 x 08 x 3.5" x 2.3"	40/10	15.34

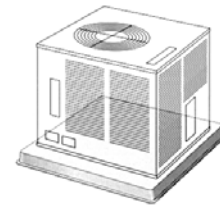
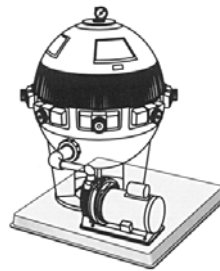
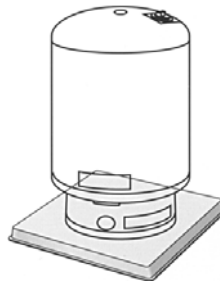
Blow-through Plugs			
HWP202BT	2	500/50	\$ 8.76
HWP203BT	3	500/50	10.21
HWP204BT	4	500/50	11.75
HWP205BT	5	500/50	13.25
HWP206BT	6	200/50	14.87
HWP207BT	7	200/20	15.81
HWP208BT	8	200/20	17.13
HWP209BT	9	200/20	18.12
HWP2095BT	9 1/2	60/10	19.15
HWP210BT	10	60/10	20.64
HWP211BT	11	60/10	21.20
HWP212BT	12	60/10	22.56

HWP1-5BT	Universal Tapered 01 - 05	250/50	14.02
HWP5-7BT	Universal Tapered 05 - 07	100/20	14.87
HWP7-10BT	Universal Tapered 07 - 10	100/20	15.73



The EcoPad™ Features:

- 98% recycled polypropylene plastic mounting pad.
- Environmentally friendly alternative to concrete due to recycled content.
- Designed to support HVAC outdoor units and other outdoor equipment like well equipment, pool pumps and filters.
- Optimized rib pattern provides excellent support on soil and gravel.
- Pad should be placed on level soil, gravel, concrete or asphalt.
- Textured top surface to reduce slippage.
- Drillable for securing equipment. (1/4x1 3/4" Tapcon® recommended)
- Unaffected by UV exposure or extreme weather.
- Black
- Tested per ASTM C67 and ASTM D2299



NEW STYLE

Part Number	DISC Part Number *	Size	Pallet Qty	List Price
2" PADS				
EP2424-2		24" x 24" x 2"	44	\$ 98.02
EP3232-2		32" x 32" x 2"	22	157.97
EP3636-2		36" x 36" x 2"	22	193.35
EP3842-2		38" x 42" x 2"	16	242.75
3" PADS				
EP2424-3		24" x 24" x 3"	16	110.55
EP3030-3		30" x 30" x 3"	16	162.69
EP3232-3		32" x 32" x 3"	16	177.31
EP3636-3		36" x 36" x 3"	16	204.07
EP3648-3		36" X 48" X 3"	16	299.34

CLOSEOUT PRICING

2" PADS - * DISCONTINUED - LIMITED QUANTITIES AVAILABLE

ACP24242	24" x 24" x 2"	24	\$ 93.12
ACP32322	32" x 32" x 2"	24	156.21
ACP36362	36" x 36" x 2"	24	190.94
ACP38422	38" x 42" x 2"	24	230.61

3" PADS - * DISCONTINUED - LIMITED QUANTITIES AVAILABLE

ACP24243	24" x 24" x 3"	16	105.02
ACP30303	30" x 30" x 3"	16	152.28
ACP32323	32" x 32" x 3"	16	168.44
ACP36363	36" x 36" x 3"	16	208.13
ACP36483DT	36" X 48" X 3"	16	290.89

Constant Pressure System Manifolds

NO LEAD Brass, Brackets



CPSM-NL Series



Constant Pressure System Manifold Features:



- No lead brass or 304 stainless steel manifold eliminates the need for extra tees, fittings & nipples required to install constant pressure pump systems.
- "NL" and "SS" Series are **third party certified to NSF/ANSI 372**.
- Easy to install, **13 1/2"** length provides plenty of room for tank and accessories. (Tank diameters up to 11" on 2" manifold.)
- Five ports allow installation for all needed plumbing accessories.
- 1" top port manifold allows for direct installation of FLEXCON, FLOW-THRU FT18 tank.
- Manifolds available with or without NL Bronze, PVC or SS bushings.

NO LEAD BRASS Part Number	Overall Length	Line Conn.	Tank Conn.	Transducer Port	Drain Ports	Gauge Port	Bushing	Ctn Qty	List Price
* CPSM125BNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	None	16	\$ 141.19
CPSM125PBNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" Plastic	16	145.01
CPSM125BBNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" NL Bronze	16	151.42
CPSM125PB3/4x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" Plastic	16	145.01
CPSM125BB3/4x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" NL Bronze	16	149.76
* CPSM125-100BNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None	16	141.19
CPSM125-100PBNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" Plastic	20	146.29
CPSM125-100BBNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" NL Bronze	20	156.42
CPSM125-100PB1x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" Plastic	20	146.29
CPSM125-100BB1x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" NL Bronze	20	153.84

Please see Stainless Steel manifolds on next page.



Constant Pressure System Manifold Mounting Brackets:

- Dual mounting brackets allow secure manifold placement with tank.
- Zinc-plated, heavy gauge steel tubing, all stainless steel mounting screws, locknuts, U-bolts, plastic end plugs.
- Brackets can be mounted two ways to allow for mounting flexibility.
- Brackets measure 8" x 12 1/2".
- 1 set includes 2 brackets & hardware.



Part Number	Size	Manifold Size	Ctn Qty	List Price
CPSMMB	8" x 12 1/2"	1 1/4"	8	\$ 53.39
CPSMMB200	8" x 12 1/2"	2"	8	58.79



CPSM-SS Series



304 STAINLESS Part Number	Overall Length	Line Conn.	Tank Conn.	Transducer Port	Drain Ports	Gauge Port	Bushing	Ctn Qty	List Price
CPSM125SS	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	None	16	\$ 126.55
CPSM125SSPB	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" PVC	16	136.50
CPSM125SSPB3/4x1/2	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" PVC	16	134.60
CPSM125SSB	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" 304 SS	16	135.91
CPSM125SSB3/4x1/2	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" 304 SS	16	135.86
CPSM125-100SS	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None		\$ 126.55
CPSM125-100SSPB1x1/2	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" PVC		135.88
CPSM125-100SSB	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/4" 304 SS		145.78
CPSM125-100SSB1X1/2	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/2" 304 SS		138.43
CPSM200-100SS	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None		223.25
CPSM200-100SSPB	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" PVC		247.42
CPSM200-100SSPB1x1/2	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" PVC		232.58
CPSM200-100SSB	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/4" 304 SS		236.71
CPSM200-100SSB1X1/2	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/2" 304 SS		236.05



HARVARD NO LEAD Brass Constant Pressure System Manifold Installation Packages



- All kits contain:
 - EIPG1002-4BNL 0-100# NL pressure gauge
 - IRV75-100NL 3/4" x 100# NL brass relief valve
 - IHBB75NL NL brass 1/4 turn hose bibb
 - 13 1/2" long manifold as listed below for each kit
 - PVC or NL bronze bushing as listed below for each kit
 - optional CPSMMB mounting bracket

All **components are certified to NSF/ANSI 371** except the CPSMMB.

Part Number	Additional Components	List Price w/ PVC Bush	List Price w/ NLBB	List Price w/ Bracket
IPCPSM125PBNL	• CPSM125BNL 11/4" No Lead brass Manifold • 439-098 3/4"x1/4" PVC Sch 40 bushing	\$ 193.17		
IPCPSM125PBNLMB	Components above plus • CPSMMB 1 1/4" Mounting bracket			268.14
IPCPSM125BBNL	• CPSM125BNL 11/4" No Lead brass Manifold • NLBB3/4x1/4 3/4"x1/4" No Lead bronze bushing		203.56	
IPCPSM125BBNLMB	Components above plus • CPSMMB 1 1/4" Mounting bracket			274.34
IPCPSM125PB3/4X1/2NL	• CPSM125BNL 11/4" No Lead brass Manifold • 439-101 3/4"x1/2" PVC Sch 40 bushing	193.17		
IPCPSM125PB3/4x1/2NLMB	Components above plus • CPSMMB 1 1/4" Mounting bracket			268.14
IPCPSM125BB3/4X1/2NL	• CPSM125BNL 11/4" No Lead brass Manifold • NLBB3/4x1/2 3/4"x1/2" No Lead bronze bushing		203.56	
IPCPSM125-100BBNL	• CPSM125-100BNL 11/4" No Lead brass Manifold • NLBB1x1/4 1"x1/4" No Lead bronze bushing		203.56	
IPCPSM125-100BBNLMB	Components above plus • CPSMMB 1 1/4" Mounting bracket			276.50
IPCPSM125-100BB1X1/2NL	• CPSM125-100BNL 11/4" No Lead brass Manifold • NLBB1x1/2 1"x1/2" No Lead bronze bushing		203.56	
IPCPSM125-100BB1x1/2NLMB	Components above plus • CPSMMB 1 1/4" Mounting bracket			276.50



Installation Packages - Constant Pressure Stainless Steel



HARVARD STAINLESS STEEL Constant Pressure System Manifold Installation Packages

• Available with or without a mounting bracket.



Part Number	Components	Length	List Price	List Price w/ Bracket
IPCPSM125SSPB		13 1/2"	236.75	
• CPSM125SS	1 1/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• 439-101	3/4"x 1/2" PVC bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125SSPMB				306.13
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			
IPCPSM125SSB		13 1/2"	259.05	
• CPSM125SS	1 1/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• SSHB3/4x1/2	3/4"x 1/2" SS bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125SSBMB				328.43
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			
IPCPSM125-100SSPB		13 1/2"	\$ 240.04	
• CPSM125-100SS	1 1/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• 439-130	1"x 1/2" PVC bushing			
• 439-131	1" x 3/4" PVC bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125-100SSPMB				312.90
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			
IPCPSM125-100SSB		13 1/2"	268.34	
• CPSM125-100SS	1 1/4" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• SSHB1x1/2	1"x 1/2" SS bushing			
• SSHB1x3/4	1" x 3/4" SS bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM125-100SSBMB				338.06
Components above plus				
• CPSMMB	1 1/4" Mounting bracket			

Installation Packages - Constant Pressure Stainless Steel

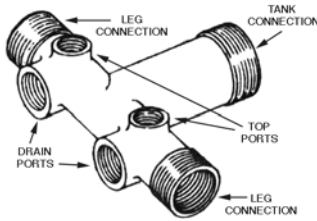


HARVARD STAINLESS STEEL Constant Pressure System Manifold Installation Packages

- Available with or without a mounting bracket.



Part Number	Components	Length	List Price	List Price w/ Bracket
IPCPSM200-100SSPB		13 1/2"	353.96	
• CPSM200-100SS	2" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• 439-130	1"x 1/2" PVC bushing			
• 439-131	1" x 3/4" PVC bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM200-100SSPBMB				418.22
	Components above plus			
• CPSMMB200	2" Mounting bracket			
IPCPSM200-100SSB		13 1/2"	377.18	
• CPSM200-100SS	2" SS Constant Pressure System Manifold			
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount			
• IHBB75SS	3/4" SS 1/4 turn hose bibb			
• IRV75-100SS	3/4" SS relief valve (100 psi preset)			
• SSHB1x1/2	1"x 1/2" SS bushing			
• SSHB1x3/4	1" x 3/4" SS bushing			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			
IPCPSM200-100SSBMB				438.34
	Components above plus			
• CPSMMB200	2" Mounting bracket			



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **third party certified to NSF/ANSI 372**.



CHT100FBSNL



CHT125BSNL

NO LEAD BRASS Short Cast Crosses w/ 1 drain & 2 or 3 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
CHT100FBSNL	2 1/2"	1" fpt	1" X 3/4"	3/4" (1)	1/4" (2)	NL Brass	Import	5/40	\$ 46.36
CCAT100BSNL	4 1/4"	1" x 3/4"	1" x 3/4"	1/2" (1)	1/4" (2), 1/2" (1)	NL Brass	Import	4/40	66.03
CHC125BNL	4 1/4"	1 1/4" x 1"	1" x 3/4"	1/2" (1)	1/4" (3)	NL Bronze	USA	12	118.84
CHC12550BSNL	4 1/2"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2)	NL Brass	Import	5/40	50.16
CHT125BSNL	3 3/4"	1 1/4" x 1"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Brass	Import	5/30	79.90
CIC125BSNL	4 1/4"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	NL Brass	Import	4/40	75.06



NO LEAD BRASS Short Cast 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
CICS100BNL	4 3/4"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze	USA	12	\$ 113.62
CICS100BSEN	4 1/2"	1" x 3/4"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/24	44.20
CIC3125BNL	5"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze	USA	12	138.18
CIC3125BSEN	4 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/24	56.46
CIC71250BSNL	4 1/2"	1 1/4" x 1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	57.86
CIC712BNL	4"	1 1/4" x 1"	1" x 3/4"	3/4" (2)	1/4" (2)	NL Bronze	USA	12	135.43



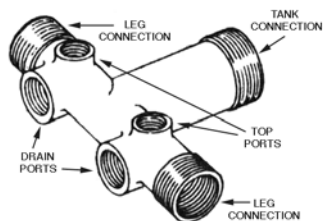
NO LEAD BRASS Short Cast Crosses with Union Disconnect

- Metal to metal ball joint leak proof 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
CICS100BSUENL	5 1/2"	1"	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/24	\$ 77.20
CICS125BSUENL	5 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/24	105.64

Tank Crosses - Short 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.
- **NO LEAD** brass tank crosses are **Third party certified to NSF/ANSI 372.**



NO LEAD BRASS Short cast crosses 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
CWM100BSNL	4 1/2"	1" (FIP)	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	\$ 53.60
CWM125BSNL	4 3/4"	1 1/4" (FIP)	1 1/4"x1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/32	66.02
CICS736BSNL	2 1/2"	1 1/4" MIP x 1" FIP	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	58.19
CIC736BNL		1" (FIP)	1" x 3/4"	1/4" (2)	1/2" (2)	Silicon Bronze	USA	12	96.14



NO LEAD BRASS Short cast female union tank crosses 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.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CICS100BSFTUNL	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/32	\$ 62.19
CICS125BSFTUNL	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/32	74.69
CICS125BSFTUNL	4"	1 1/4" fpt union	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/24	87.62



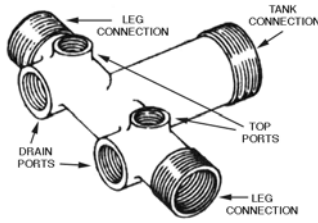
NO LEAD Short Cast Quick Connect (w/ Buna-N o-ring) Crosses With alignment tabs for use with Well Mate "Quick Connect" Series Tanks.

- 1" and 1 1/4" uses AS568-220 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
CWM100BSQCNL	5"	Quick Connect	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24	\$ 69.00
CWM125BSQCNL	5"	Quick Connect	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/24	83.16

Tank Crosses - Short 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.
- **NO LEAD** brass tank crosses are **Third party certified to NSF/ANSI 372.**



NO LEAD BRASS 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
CFC100BSNL	4 1/2"	1" Union Th.	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40	\$ 59.19
CFC125BSNL	4 1/2"	1 1/4" Union Th.	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	5/30	68.46

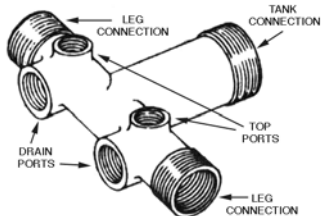


NO LEAD BRASS Compact cast crosses with 1 drain & 2 top ports



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
TM100BSNL	2 1/2"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	NL Brass	Import	5/50	\$ 29.20
TM125BSNL	3"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	NL Brass	Import	5/50	35.18

Tank Crosses - Short Cast 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.
- 304 Cast Stainless Steel.
- Stainless Steel tank crosses are **third party certified to NSF/ANSI 372**.



304 Stainless Steel Short Cast 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
CICS100SS	4 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	5/40	\$ 65.15
CICS125SS	4 1/2"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24	79.82



304 Stainless Steel Short Cast Crosses with Union Disconnect

- PTFE captive gasket seal ring on 304 SS 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
CICS100SSU	5 1/2"	1"	1"x3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/24	81.96
CICS125SSU	5 3/4"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24	94.24



304 Stainless Steel Short cast crosses 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
CWM100SS	4 3/4"	1" (FIP)	1"x3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	5/40	\$ 91.55
CWM125SS	4 3/4"	1 1/4" (FIP)	1 1/4"x1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/32	101.96



304 Stainless Steel Short cast female union tank crosses Use with Flexcon "Flex-Lite" Series, WellMate Tanks. FPT 304 Stainless Steel union w/ American Standard Buna-N o-ring.

- 1" uses AS 568-212 o-ring
- 1 1/4" uses AS 568-320 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
CICS100SSFTU	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/32	\$ 99.42
CICS1251SSFTU	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/32	93.76
CICS125SSFTU	4"	1 1/4" fpt union	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24	129.34

Tank Installation Packages - 1" Side Discharge

- ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.



TP100BRNL	CCAT100BSNL	NO LEAD Brass	4 1/4"	\$ 186.19
• CCAT100BSNL	1" Short 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			



IPS100BSENL	CICS100BSENL	NO LEAD Brass	4 1/2"	\$ 143.82
• see above	1" Short 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			



IPS100SSNL	CICS100SS	Stainless Steel	4 1/2"	\$ 182.27
• see above	1" Short Stainless Steel Cast Tank Cross.			
• 9013FSG2 30/50	Pressure Switch.			
• SS80-1/4 x 3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50SS	1/2" Stainless Steel Relief Valve			
• IHBB50SS	1/2" Stainless Steel Hose Bibb			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			



IPWM100BSNL	CWM100BSNL	NO LEAD brass	4 1/2"	\$ 169.06
IPWM100BSNL 40/60	CWM100BSNL	NO LEAD brass	4 1/2"	\$ 169.06
• CWM100BSNL	1" NO LEAD Brass Cross for FLEXCON "Flex-Lite" WELLMATE tanks			
• 9013FSG2	30/50 or 40/60 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			

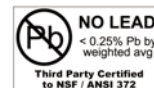


Tank Installation Packages - 1" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



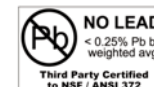
IPS100BSFTUNL	CICS100BSFTUNL NO LEAD brass	4 1/2"	\$ 187.51
IPS100BSFTUNL 40/60	CICS100BSFTUNL NO LEAD brass	4 1/2"	\$ 187.51
• CICS100BSFTUNL	1" NO LEAD Brass Cross for FLEXCON "Flex-Lite", WELLMATE tanks		
• 9013FSG2	30/50 or 40/60 Pressure Switch.		
• B80-1/4 x 3	Brass Nipple.		
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge		
• IRV50NL	1/2" NO LEAD Brass Relief Valve		
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain		



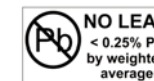
IPS100SSFTUNL	CICS100SSFTU	Stainless Steel	4"	\$ 202.05
• CICS100SSFTU	1" Short Cast SS Tank Cross for FLEXCON "Flex-Lite" WELLMATE tanks			
• 9013FSG2 30/50	Pressure Switch.			
• SS80-1/4 x 3	Stainless Steel Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• IRV50SS	1/2" Stainless Steel Relief Valve			
• IHBB50SS	1/2" Stainless Steel Hose Bibb			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			



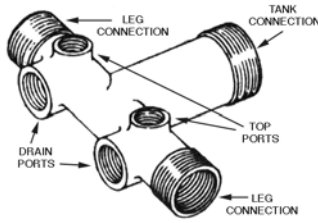
IPS100BSUENL	CICS100BSUENL	NO LEAD Brass	5 1/2"	\$ 181.40
IPS100BSUENL 40/60	CICS100BSUENL	NO LEAD Brass	5 1/2"	181.40
• CICS100BSUENL	1" Short LEAD Brass Union Tank Cross			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge			
• 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"	\$ 208.52
IPS100SSUNL 40/60	CICS100SSU	Stainless Steel	5 1/2"	208.52
• see above	1" Short Cast Stainless Steel Tank Cross.			
• 9013FSG2	30/50 or 40/60 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.			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			



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.
- **NO LEAD** brass, bronze and stainless steel tank crosses are **third party certified to NSF/ANSI 372**.



NO LEAD BRASS and BRONZE 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	\$ 63.92
CHC100BNL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze	USA	12	152.02



NO LEAD BRASS and BRONZE 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
CIC100BSENL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24	\$ 61.73
CIC100BNL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze	USA	12	152.63
CIC100BS14ENL	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/12	79.04
CIC125BS14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/12	123.18

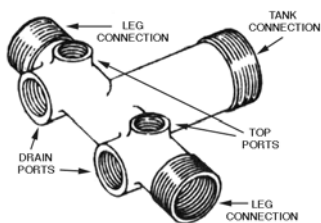


304 STAINLESS STEEL Long Cast Tank Crosses with 2 drain & 2 top ports.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CIC100SS	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/24	\$ 126.26
CIC125SS14	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	2/16	189.29

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.
- **NO LEAD** brass and stainless steel tank crosses are **third party certified to NSF/ANSI 372**.

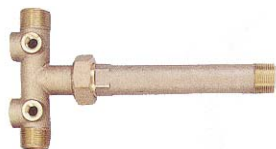


NO LEAD BRASS Long Cast Tank Crosses with union disconnect, with 1 drain & 2 top ports

- Metal to metal ball joint leak proof 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	\$ 100.86
CHC125BSU14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Brass	Import	2/12	155.84



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

- Metal to metal ball joint leak proof 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
NO LEAD Brass									
CIC100BSUENL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/20	\$ 83.64
CIC100BSU14ENL	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/12	121.54
CIC125BSU14ENL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/12	157.75



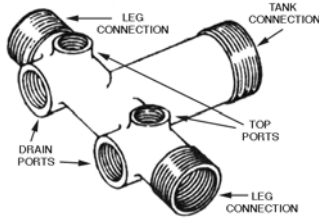
304 STAINLESS STEEL Long Cast Tank Crosses with union disconnect, with 2 drain & 2 top ports

- PTFE captive gasket seal ring on 304 SS 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
304 Stainless Steel									
CIC100SSU	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/20	\$ 105.61
CIC100SSU14	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/20	124.23
CIC125SSU14	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	2/12	157.11

Tank Crosses - Long Fabricated NO LEAD Bronze



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** bronze, fabricated tank crosses are **third party certified to NSF/ANSI 372**.



No Lead Long Fabricated Tank Crosses with 1 drain and 2 top taps.



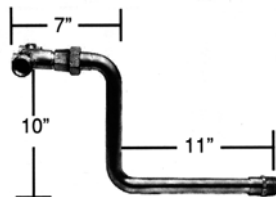
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
CHC100BFNL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze/Copper	USA	12	\$ 136.38
CHC100BF13NL	13"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze/Copper	USA	12	152.98
CHC125BFNL	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Bronze/Copper	USA	12	178.76
CHC125BF16NL	16"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Bronze/Copper	USA	6	184.56



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	\$ 138.93
CIC100BF13NL	13"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	12	140.66
CIC125BFNL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	12	187.50
CIC125BF16NL	16"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	6	192.68

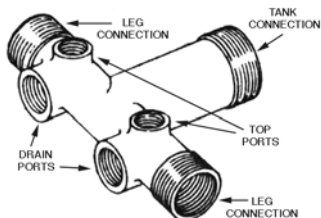


NO LEAD Long Fabricated Elevated Tank Crosses with union disconnect.



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	\$ 272.79
CIC741BFNL	18"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	6	427.85

Tank Crosses - Long Fabricated PVC, Galvanized



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Galvanized ductile iron crosses contain no lead.
- **Third party certified to NSF/ANSI 372.**



Long Fabricated PVC Tank Cross

- Shipped unassembled with 1 x 10 Sch 80 PVC nipple.
- Third party certified to NSF/ANSI 372.

*** Do not use PTFE thread seal tape with PVC tank cross applications.
Use thread seal paste without PTFE for plastic threads only.**

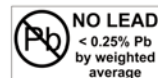


Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC100F	14"	1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	PVC*	USA	12	\$ 25.38



Long Fabricated Galvanized Ductile Iron Tank Cross

- Shipped unassembled.
- HC100GF supplied with 1x8 and 1/4x3 galvanized nipples.
- HC125GF & 125/100GF supplied with 1 1/4"x11" & 1/4"x3" galvanized nipples.

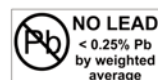


Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
HC100GF	11 1/2"	1" (MIP)	1" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	12	\$ 49.48
HC125GF	14 1/2"	1 1/4" (MIP)	1 1/4" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	4	68.58



Long Fabricated Galvanized Ductile Iron Tank Cross

- Shipped unassembled.
- IC100GF supplied with 1x8 and 1/4x3 galvanized nipples.



Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty	List Price
IC100GF	10 3/4"	1" (MIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	12	\$ 53.09

Tank Installation Packages - 1" Bottom Discharge

- **ALL NO LEAD brass tank installation package components are third party certified to NSF/ANSI 372.**
- **ALL tank installation package components contain NO LEAD.**



TP100BSNL	CHC100BSENL	NO LEAD Brass 11"	\$ 169.98
TP100BNL	CHC100BNL	NO LEAD Bronze 11"	301.80
• see above 1"x11" Long NO LEAD Brass or Bronze Tank cross • 9013FSG2 30/50 Pressure Switch. • B80-1/4x3 Brass Nipple. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge.			



IP100BSENL	CIC100BSENL	NO LEAD Brass 11"	\$ 164.64
IP100BSENL 40/60	CIC100BSENL	NO LEAD Brass 11"	164.64
IP100BS14ENL	CIC100BS14ENL	NO LEAD Brass 14"	194.00
IP100BS14ENL 40/60	CIC100BS14ENL	NO LEAD Brass 14"	194.00
IP100BRNL	CIC100BNL	NO LEAD Bronze 11"	402.47
IP100BFRNL	CIC100BFNL	NO LEAD Bronze 11"	384.40
IP100BFRNL 40/60	CIC100BFNL	NO LEAD Bronze 11"	384.40
IP100BF13RNL	CIC100BF13NL	NO LEAD Bronze 13"	381.46
IP100BF13RNL 40/60	CIC100BF13NL	NO LEAD Bronze 13"	381.46
• see above 1" Long NO LEAD Brass or Bronze Tank Cross. • 9013FSG2 30/50 or 40/60 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			



IP100BSUENL	CIC100BSUENL	NO LEAD Brass 11"	\$ 200.32
IP100BSUENL 40/60	CIC100BSUENL	NO LEAD Brass 11"	200.32
IP100BSU14ENL	CIC100BSU14ENL	NO LEAD Brass 14"	236.01
IP100BSU14ENL 40/60	CIC100BSU14ENL	NO LEAD Brass 14"	236.01
• see above 1" Long NO LEAD Union Tank Cross • 9013FSG2 30/50 or 40/60 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			



IP100SSNL	CIC100SS	Stainless Steel 11"	\$ 243.05
IP100SSNL 40/60	CIC100SS	Stainless Steel 11"	\$ 243.05
• see above 1" Long Stainless Steel Cast Tank Cross. • 9013FSG2 30/50 or 40/60 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 • HTST60-1/2SS 1/2" x 60" Stainless Steel PTFE Tape			

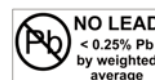


Tank Installation Packages - 1" Bottom Discharge

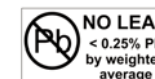
- Do not use PTFE thread seal tape with PVC tank cross applications.
- Use thread paste without PTFE approved for plastic threads only.
- ALL tank installation package components contain NO LEAD.



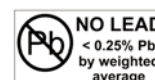
IP100SSUNL	CIC100SSU	Stainless Steel	11"	\$ 259.39
IP100SSUNL 40/60	CIC100SSU	Stainless Steel	11"	259.39
IP100SSU14NL	CIC100SSU14	Stainless Steel	14"	269.13
IP100SSU14NL 40/60	CIC100SSU14	Stainless Steel	14"	269.13
• see above 1" Long Stainless Steel Union Tank Cross. • 9013FSG2 30/50 or 40/60 Pressure 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. • HTST60-1/2SS 1/2" x 60" Stainless Steel PTFE Tape				



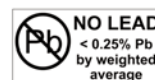
TP100GFNL	HC100GF	Fab Galvanized	11 1/2"	\$ 125.89
• HC100G 1" Galvanized Tank Cross. • GS80-1/4x3 Galvanized Steel Nipple. • GS80-1x8 Galvanized Steel Nipple. • 9013FSG2 30/50 Pressure Switch. • EIPG1002-4LNL 100lb NO LEAD Pressure Gauge • HNKD50NL 1/2" NO LEAD Brass No Kink Boiler Drain				



TP100PFNL	IC100F	Fab. PVC	14"	\$ 94.44
• 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				



IP100PFRNL	IC100F	Fab. PVC	14"	\$ 135.43
• 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				



Tank Installation Packages 1 1/4" Bottom Discharge

- ALL tank installation package components are contain NO LEAD.



TP125BFNL	CHC125BFNL	NO LEAD Bronze	14"	\$ 349.52
• CHC125BFNL	1 1/4" Long NO LEAD Fabricated Bronze Tank Cross			
• 9013FSG2	30/50 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			



IP125BFR7NL	CIC125BFNL	NO LEAD Bronze	14"	\$ 468.08
IP125BFR7NL 40/60	CIC125BFNL	NO LEAD Bronze	14"	468.08
IP125BF16R7NL	CIC125BF16NL	NO LEAD Bronze	16"	476.83
IP125BF16R7NL 40/60	CIC125BF16NL	NO LEAD Bronze	16"	476.83
• see above	1 1/4" Long NO LEAD Fabricated Bronze Tank Cross			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			
• RV75NL	3/4" NO LEAD Brass Relief Valve.			
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain.			



IP125BS14ENL	CIC125BS14ENL	NO LEAD Brass	14"	\$ 240.59
IP125BS14ENL 40/60	CIC125BS14ENL	NO LEAD Brass	14"	240.59
• CIC125BS14ENL	1 1/4" Long NO LEAD Cast Brass Tank Cross			
• 9013FSG2	30/50 or 40/60 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.			



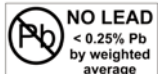
IP125BSU14ENL	CIC125BSU14ENL	NO LEAD Brass	14"	\$ 284.36
IP125BSU14ENL 40/60	CIC125BSU14ENL	NO LEAD Brass	14"	284.36
• See above	1 1/4" Long NO LEAD Union Brass Tank Cross			
• 9013FSG2	30/50 or 40/60 Pressure Switch.			
• B80-1/4 x 3	Brass Nipple.			
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.			
• 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 tank installation package components contain NO LEAD.



IP125SS14NL 40/60	CIC125SS14	Stainless Steel	14"	\$ 262.45
• see above	11/4" Long Stainless Steel Cast Tank Cross.			
• 9013FSG2 40/60	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.			
• HTST260-1/2SS	1/2" x 260" Stainless Steel PTFE Tape			



IP125SSU14NL	CIC125SSU14	Stainless Steel	14"	\$ 282.48
IP125SSU14NL 40/60	CIC125SSU14	Stainless Steel	14"	282.48
• see above	11/4" Long Stainless Steel Union Tank Cross.			
• 9013FSG2	30/50 or 40/60 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.			
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape			

Pressure Relief Valves

RV and IRV Series Relief Valve Features:

- Heavy duty no lead bronze, **no lead** brass or 304 stainless steel.
- For shallow, deep well and submersible pumps.
- **Third party certified to NSF/ANSI 372.**
- Spring loaded and pre-set under pressure, **NOT ADJUSTABLE.**
- 1/2" or 3/4" (IRV7575) discharge.



Hamilton Adjustable Safety Relief Valve Features:

- Preset at 75 P.S.I. with concealed adjusting screw to prevent tampering.
- No-lead brass heavy duty, full-flow design with Buna-N seats.



RV-NL Series

ISO 9001



IRV-NL



IRV SS Series



HRV Series

NOTE: Relief valves on this page are not for use with hot water heaters. Recommended for cold water system installations only.

Preset relief valves are NOT intended to be adjusted. Any adjustment to preset relief valves voids warranty.

Part Number	Size	Pressure Setting	Ctn/Case	List Price
NO LEAD Bronze Relief Valves - Made in USA				
RV50NL	1/2"x 1/2"	Set at 75 psi	50/150	\$ 68.23
RV75NL	3/4"x 1/2"	Set at 75 psi	50/150	68.70
RV50-100NL	1/2" x 1/2"	Set at 100 psi	50/150	68.23
RV75-100NL	3/4" x 1/2"	Set at 100 psi	50/150	68.70

NO LEAD Brass Relief Valves - Imported

IRV50NL	1/2"x 1/2"	Set at 75 psi	10/100	19.68
IRV75NL	3/4"x 1/2"	Set at 75 psi	10/100	21.08
IRV7575NL	3/4"x 3/4"	Set at 75 psi	10/100	25.39
IRV50-100NL	1/2"x 1/2"	Set at 100 psi	10/100	19.68
IRV75-100NL	3/4"x 1/2"	Set at 100 psi	10/100	21.08
IRV7575-100NL	3/4"x 3/4"	Set at 100 psi	10/100	25.39

304 Stainless Steel Relief Valves - Imported

IRV50SS	1/2"x 1/2"	Set at 75 psi	10/100	27.66
IRV75SS	3/4" x 1/2"	Set at 75 psi	10/100	28.16
IRV7575SS	3/4" x 3/4"	Set at 75 psi	10/100	29.61
IRV50-100SS	1/2" x 1/2"	Set at 100 psi	10/100	27.66
IRV75-100SS	3/4" x 1/2"	Set at 100 psi	10/100	28.16
IRV7575-100SS	3/4" x 3/4"	Set at 100 psi	10/100	29.61

Hamilton NO LEAD Brass Adjustable Safety Relief Valves

		Set at Adjustable to		Sold at Preset Only	
HRV50NL	1/2" mipt x 1/2" fipt	75 psi	150 psi	25	115.32
HRV75NL	3/4" mipt x 3/4" fipt	75 psi	100 psi	25	133.71
HRV125NL	1 1/4" mipt x 1 1/4" fipt	75 psi	200 psi	10	344.07
HRV175NL	1" mipt x 3/4" fipt	75 psi	200 psi	25	208.90

FLOW RATES							
PSI	85	90	95	100	105	110	115
RV Series gpm	.30	7.3	7.7	9.8	17.9	18.9	20.6
IRV Series gpm	2.0	2.7	3.8	4.7	7.0	12.0	12.7
PSI	10	20	30	40	60	80	100
HRV50	.6	1.5	2.5	3.6	6.1	8.8	11.8
HRV75			2.8	5.5	11.0	13.8	17.9
HRV175	6.0	12.6	19.0	24.6	35.6	44.8	52.3
HRV125	12.0	35.0	48.4	69.2	106.5	132.5	150.0

Installation Accessories - Tank



TL3



PMB1



SN18NL, SN18LNL, SN25NL, SN25LNL



PTG1002

Tank Legs Features:

- Elevates tank above floor and out of condensation pools.
- Leveled on uneven floors without the use of tools.
- Custom molded from high strength ABS.

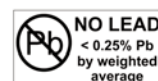
Pump Mounting Bracket Features:

- Elevates pump out of corrosive atmosphere.
- Heavy duty 12 gauge cold rolled steel with gray powder coated enamel coating. Heaviest steel gauge bracket available in the market.
- Plastic protectors on the pump stand legs prevent scratching of the tank.
- Supplied with 1/2", 3/4", 1", 1 1/4" long zinc plated steel screws and two steel adapters to fit all manufacturers' tanks.
- Fits all pumps and comes individually cartoned.

Contains
hardware
for Flexcon
1/2" top nut
tanks.

Air Valve Features:

- Used for reciprocating and submersible pumps to admit air to system.
- Used for charging applications and many other uses.
- Available in long and short patterns.
- Made in USA



Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty	List Price
Tank Legs				
TL3		(3/Package), ABS	48	\$ 10.90
Pump Mounting Brackets				
PMB1		12 gauge steel plate, Gray	20	34.17
Air Valves - Made in USA				
LVC18		Replacement Core for light spring models		0.97
SN18NL	1/8"	Short Pattern Light Spring (Snifter) NO LEAD	25/250	3.97
SN18LNL	1/8"	Long, Light Spring (Snifter) NO LEAD	25/250	4.83
SN18LNLNCS	1/8"	Long, No Core Spring NO LEAD	25/250	4.78
SN25NL	1/4"	Short Pattern Heavy Spring NO LEAD	25/250	5.25
SN25LNL	1/4"	Long, Light Spring (Snifter) NO LEAD	25/250	6.00
Pressure Test Gauge				
PTG1002		Pressure test gauge	50	16.39



**AV
Non-Repairable**



AV Repairable



AC100



AVCTF1/4x3/8NL

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" & Merrill "AV" series non-repairable controls.

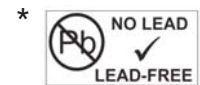


Air Charger Features:

- 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 NL 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 NL brass fittings and adapters, eliminating duplication of inventories with a single kit for all applications.



Air Volume Control Tank Fitting Features:

- No Lead Brass. Certified Lead Free



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		\$20.83
AV45	80	1/4" pipe	7/16"-24 pipe	50		69.58
AV45F	80	1/4" pipe	1/8" pipe tap	50		73.38
AV100E	120	3/8" pipe	7/16"-24 pipe	50		18.75
AV100	120	3/8" pipe	7/16"-24 pipe	50		89.11
AV100F	120	3/8" pipe	1/8" pipe tap	50		93.92
Repairable *						
AV30	42	1/4" pipe	7/16"-24 pipe	100		84.28
AV42 AV42T	80	1/4" pipe tap	1/4" pipe tap	50	106.90	107.30
AV80 AV80T	120	1/4" pipe tap	1/4" pipe tap	50	118.48	112.21
AV120 AV120T	220	3/8" pipe tap	1/4" pipe tap	25	156.87	159.00
Repair Kits• Fits all makes of repairable diaphragm type controls						
AV30-3A	For Brady AV30 controls			42		68.69
AV42-3A	For Brady AV42 controls			42		51.70
AV80-3A	For Brady AV80 controls			42		58.72
AV120-3A	For Brady AV120 controls			42		76.92
Plastic Air Charger *						
AC100				30		23.66
CAC100				Bulk Packed		20.26
Air Charger with Tubing and Fittings **						
AC100TFNL	No lead kit			20		40.05
Air Charger Installation Kit with Tubing and Fittings **						
UTF1NL	No lead kit			24		25.44
UTF1BTNL	No lead kit with Black Tubing			24		25.44
Air Volume Control Tank Fitting - No Lead Brass						
AVCTF1/4x3/8NL	Air Volume Control Tank Fitting 1/4" MPT x 3/8" FPT			500		6.96

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

Air Releases & Controls



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 to NSF/ANSI 372.**
- **Made in USA.**



Formerly Robert
Shaw/Invensys



BAR125N

Brady Plastic Deep Well Air Release Features:

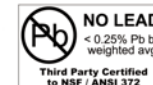
- Maintains the proper ratio of air to water.
- Constructed of ABS resin grade plastic.
- Non-corrosive, non-conductive and completely serviceable.
- Release mechanism consists of a Buna-N precession ball & 316 stainless steel spring.
- Factory set at 20 P.S.I., adjustable from 0 to 40 P.S.I.



WJ1NL

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 molded or cast body which prevents galvanic action at pump tank tapping.
- **WJ1NL NO LEAD**
- WJ1NL Imported.



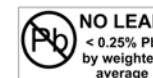
HF93B1



SWCL

Shallow Well Control Features:

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



Part Number	Tapping	Manufacturer	Ctn Qty	List Price
All Plastic Deep Well Air Release				
HAE1	1 1/4"	Harvard (formerly Robert Shaw)	49	\$ 48.45
BAR125N	1 1/4"	Brady	50	59.18
Deep Well Air Release				
WJ1NL	1 1/4"	Ametek	20	90.18
HF93B-1	1 1/4"	Johnson	50	71.40
Shallow Well Control				
SWCLNL	1 1/4"	NO LEAD Ametek	20	96.65

Installation Accessories - Submersible

All torque arrestors, pump guides, cable guards are third party certified to NSF/ANSI 372.



TA48



TA6100



SG Series



MG6



WG Series

Deluxe Torque Arrestor Features:

- Two piece design, molded from PVC or natural 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 or bulk without clamps.

Spider Style Torque Arrestor Features:

- Spider style molded from natural rubber.
- Installs just above discharge 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 pump discharge.
- 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.

Part Number	Description	Color	Ctn Qty	List Price
Deluxe PVC Torque Arrestor				
TA48	Bagged, with 2 Ideal all stainless steel clamps	Black	16	\$ 20.38
TA48G	Bagged, with 2 Ideal all stainless steel clamps	Green	16	18.71
CTA48	Bulk, no clamps	Black	Bulk	15.19
CTA48G	Bulk, no clamps	Green	Bulk	13.13
Deluxe Rubber Torque Arrestor				
TA48R	Bagged with 2 Ideal all stainless steel clamps	Black	16	23.63
CTA48R	Bulk, No clamps	Black	Bulk	13.93
Spider Style Rubber Torque Arrestor				
TA6100	6x1	Black	50	61.87
Natural Rubber Pump Guides Fits Casing ID Guide OD Drop Pipe				
SG558-5X1	5-5/8"	5"	1"	Bulk 12.98
SG600-55/8X1	6"	5 5/8"	1"	Bulk 15.90
SG600-55/8X1 1/4	6"	5 5/8"	1 1/4"	Bulk 14.89
SG625-6X1	6 1/4"	6"	1"	Bulk 16.00
SG625-6X2	6 1/4"	6"	2"	Bulk 16.00
Cable Guard				
MG6	With two cable holes, fits 4"-6" casing		100	1.34
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

Installation Accessories - Submersible



MR Series

HARVARD® 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.



PO100

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 and reduces cost of pipe fitting.
- 3/4" available in brass, NO LEAD brass.
- Bleeder orifice tee available. Includes yellow brass ins tee w/ 1" rubber bleeder orifice.
- **All bleeder orifices are third party certified to NSF/ANSI 372.**



ES1S

Ejector Screen Features:

- Protects heat pumps against plugged nozzles and clogged venturis.
- Non-corrosive 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.



ISO 9002



Part Number	Description	Ctn Qty	List Price
HARVARD® Braided Safety Rope			
MR25-500	Blue/White, 1/4" x 500' Plastic Reel, 1000#	1	\$ 49.86
MR25-1	Blue/White, 1/4" x 1000' Plastic Reel, 1000#	1	96.25
MR25-3	Blue/White, 1/4" x 3000' Plastic Reel, 1000#	1	311.93
HARVARD® Twisted Safety Rope			
SR25-500	Black, 1/4" x 500' Plastic Reel, 1200#	1	54.46
SR25-1	Black, 1/4" x 1000' Plastic Reel, 1200#	1	102.14
SR25-3	Black, 1/4" x 3000' Plastic Reel, 1200#	1	305.54
Bleeder Orifices			
PO75BNL	3/4" Brass, NO LEAD	25/250	15.01
PO100	1", Rubber	25/100	2.23
BOT100NL	No Lead Brass Insert Tee 1" w/ rubber bleeder orifice	6	49.34
Ejector Screen			
ES1S	Stainless Steel Screen	1	10.60
Cable Ties			
CT150	Bag of 100 Nylon, 1" to 1 1/4" diameter pipe, 8" long	1	12.38 /100
CT300	Bag of 100 Nylon, 1 1/2" to 4" diameter pipe, 15" long	1	23.10 /100

Pump Installation Fittings

Economy NO LEAD Bronze

Features:

- **Light pattern, NO LEAD** cast bronze insert fittings for use with flexible plastic pipe.
- "E" Series **light pattern, NO LEAD** fittings compete with Merrill.
- **Third party certified to NSF/ANSI 372.**


ERBMANL

EXLRBMANL

ERBCNL

ERBTNL

ERBENL

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
-------------	------	-------	---------	-------------	------------

NO LEAD Cast Bronze Male Insert Adapters (INS x MIP) (Merrill CRBMANL Series)

ERBMA1/2NL	1/2" x 1/2"	Hex	6	10/200	\$ 9.41
ERBMA3/4NL	3/4" x 3/4"	Hex	6	10/100	12.90
ERBMA1NL	1" x 1"	Hex	7	10/100	19.98
ERBMA1X3/4NL	1" x 3/4"	Hex	5	10/100	13.75
ERBMA11/4NL	1 1/4" x 1 1/4"	Hex	6	10/100	25.68
ERBMA11/4X1NL	1 1/4" x 1"	Hex	7	10/100	23.94
ERBMA1X11/4NL	1" x 1 1/4"	Hex	6	10/100	24.04
ERBMA11/2NL	1 1/2" x 1 1/2"	Hex	6	5/50	32.32
ERBMA2NL	2" x 2"	Hex	7	5/50	44.11

NO LEAD Cast Bronze Extra Long Male Adapters (INS x MIP) (Merrill RBMANLXL Series)

EXLRBMA1NL	1" x 1"	Hex	13	10/100	35.01
EXLRBMA11/4NL	1 1/4" x 1 1/4"	Hex	13	10/100	45.14

NO LEAD Cast Bronze Couplings (INS x INS) (Merrill RBCPNL Series)

ERBC1/2NL	1/2" x 1/2"	Hex	4	10/200	11.96
ERBC3/4NL	3/4" x 3/4"	Hex	4	10/200	13.50
ERBC1NL	1" x 1"	Hex	5	12/120	20.23
ERBC11/4NL	1 1/4" x 1 1/4"	Hex	6	12/72	30.14
ERBC11/2NL	1 1/2" x 1 1/2"	Hex	4	5/50	29.60
ERBC2NL	2" x 2"	Hex	4	5050	42.42

NO LEAD Cast Bronze Tees (INS x INS) (Merrill RBHTNL Series)

ERBT3/4NL	3/4" x 3/4"		5	10/100	27.96
ERBT1NL	1" x 1"		5	10/100	30.56
ERBT11/4NL	1 1/4" x 1 1/4"		6	5/50	62.49

NO LEAD Cast Bronze Elbows (INS x INS) (Merrill RBHENL Series)

ERBE3/4NL	3/4" x 3/4"		5	10/100	21.72
ERBE1NL	1" x 1"		5	10/100	28.24
ERBE11/4NL	1 1/4" x 1 1/4"		6	10/50	47.10

Pump Installation Adapters - NO LEAD Bronze

Features:

- **Heavy pattern**, contractor grade, NO LEAD cast bronze material.
- 20% to 30% heavier fittings than some competitors.
- **No Lead bronze are third party certified to NSF/ANSI 372.**
- SEE PAGE 12.4c - 12.4d for a complete line of imported NO LEAD cast bronze insert fittings.



☺ Limited Quantities Available



NLRBMA



NLRRBMA



NLXLRBMA



NLRRBMA



NLRBRA



NLRBMUA



NLRBFA

Part Number	Size	Style	Number of Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Male Insert Adapters (INS x MIP)					
NLRBMA1/2	1/2" x 1/2"	Hex	5	10/200	\$ 10.54
NLRBMA3/4	3/4" x 3/4"	Hex	5	10/200	13.79
NLRBMA3/4X1	3/4" x 1"	Hex	6	10/100	17.64
NLRBMA1	1" x 1"	Hex	7	10/100	22.32
NLRRBMA1	1" X 1"	Round	6	10/100	22.21
NLRBMA1X3/4	1" x 3/4"	Hex	5	10/100	17.31
NLRBMA1X11/4	1" x 1 1/4"	Hex	6	10/100	27.11
NLRBMA11/4	1 1/4" x 1 1/4"	Hex	6	10/100	29.61
NLRBMA11/4X1	1 1/4" x 1"	Hex	7	10/100	29.11
NLRBMA11/2	1 1/2" x 1 1/2"	Hex	6	5/50	36.00
NLRBMA11/2X11/4	1 1/2" x 1 1/4"	Hex	6	10/100	50.08
NLRBMA2	2" x 2"	Hex	7	5/50	65.14

No Lead Cast Bronze Long Male Adapters (INS x MIP)

NLLRBMA1 ☺	1" x 1"	Hex	9	10/100	24.46
NLLRBMA1x11/4 ☺	1" x 1 1/4"	Hex	9	10/100	26.71

No Lead Cast Bronze Extra Long Male Adapters (INS x MIP)

NLXLRBMA1	1" x 1"	Hex	12	10/100	32.54
NLXLRBMA1x11/4	1" x 1 1/4"	Hex	12	10/100	34.84
NLXLRBMA11/4	1 1/4" x 1 1/4"	Hex	12	10/100	43.14
NLXLRBMA2	2" x 2"	Hex	12	5/50	76.79

No Lead Cast Bronze Male Union Adapters (INS x MIP)

NLRBMUA1	1" x 1"	Hex	6	10/80	49.82
NLRBMUA11/4	1 1/4" x 1 1/4"	Hex	6	10/40	54.64

No Lead Cast Bronze Rope Adapter (INS x MIP)

NLRBRA1	1" x 1"	Round w/ rope eye	7	10/100	28.39
NLRBRA1X11/4	1" x 1 1/4"	Round w/ rope eye	6	10/100	33.23
NLRBRA11/4	1 1/4" x 1 1/4"	Round w/ rope eye	6	10/100	36.02

No Lead Cast Bronze Female Adapters (INS x FIP)

NLRBFA1/2	1/2" x 1/2"	Round	5	10/200	15.89
NLRBFA3/4	3/4" x 3/4"	Round	5	10/100	17.50
NLRBFA1	1" x 1"	Round	5	10/100	27.82
NLRBFA11/4	1 1/4" x 1 1/4"	Round	7	10/100	34.61
NLRBFA11/2	1 1/2" x 1 1/2"	Round	6	5/50	41.25
NLRBFA2	2" x 2"	Round	7	5/50	63.39

Pump Installation Fittings Cast Stainless Steel


SSMA
XLSSMA

SSC

SST

SSE

SSHE

SSHT

SSHB

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
Cast 304 Stainless Steel Male Insert Adapters (MIP x INS)					
SSMA1/2	1/2"	Hex	7	10/100	\$ 13.67
SSMA3/4	3/4"	Hex	7	10/200	14.41
SSMA3/4X1	3/4" X 1"	Hex	6	10/200	19.58
SSMA1	1"	Hex	7	10/100	21.25
SSMA11/4	1 1/4"	Hex	7	10/100	24.93
SSMA11/4X1	1 1/4" x 1"	Hex	7	10/100	24.46
SSMA11/2	1 1/2"	Hex	7	5/80	36.25
SSMA2	2"	Hex	7	5/40	51.56
Cast 304 Stainless Steel Heavy Pattern Extra Long Male Adapters (MIPxINS)					
XLSSMA1	1" x 1"	Hex	13	10/100	31.89
XLSSMA11/4X1	1 1/4" x 1"	Hex	13	5/50	42.59
XLSSMA11/4	1 1/4" x 1 1/4"	Hex	13	5/50	43.04

Cast 304 Stainless Steel Coupling (INS x INS)

SSC1/2	1/2" x 1/2"	Hex	6	10/200	15.21
SSC3/4	3/4" x 3/4"	Hex	6	10/200	17.10
SSC1	1" x 1"	Hex	5	10/100	21.24
SSC11/4	1 1/4" x 1 1/4"	Hex	5	10/100	36.71
SSC11/2	1 1/2" x 1 1/2"	Hex	8	10/50	36.40
SSC2	2" x 2"	Hex	8	5/50	49.03

Cast 304 Stainless Steel Tee (INS x INS x INS)

SST3/4	3/4" x 3/4"		5	5/50	22.68
SST1	1" x 1"		5	10/100	26.25
SST1x3/4	1" x 3/4"		6	10/100	26.75
SST11/4	1 1/4" x 1 1/4"		5	10/100	54.54

Cast 304 Stainless Steel Elbow (INSxINS)

SSE3/4	3/4" x 3/4"		5	10/100	16.03
SSE1	1" x 1"		6	10/100	26.04
SSE1X11/4	1" X 1 1/4"		6	10/50	28.50
SSE11/4	1 1/4" x 1 1/4"		7	5/50	41.28

Cast 304 Stainless Steel Hydrant Elbow (INSxMIP)

SSHE3/4	3/4"x 3/4"		5	10/100	19.14
SSHE1X3/4	1" x 3/4"		5	10/100	23.82
SSHE1	1" x 1"		5	10/100	24.82
SSHE11/4	1 1/4" x 1 1/4"		6	10/50	49.34

Cast 304 Stainless Steel Hydrant Tee (INS x MIP)

SSHT3/4	3/4" x 3/4"		4	10/100	24.32
SSHT1x3/4	1" x 3/4"		6	10/100	30.41
SSHT1	1" x 1"		4	10/100	38.39

Cast 304 Stainless Steel Hex Bushing (MIPxFIP)

SS304HB3/4X1/4	3/4" x 1/4"	Hex	-	25/500	3.29
SS304HB3/4X1/2	3/4" x 1/2"	Hex	-	25/500	2.88
SS304HB1X1/4	1" x 1/4"	Hex	-	10/200	5.54
SS304HB1X1/2	1" x 1/2"	Hex	-	10/200	5.12
SS304HB1X3/4	1" x 3/4"	Hex	-	10/200	4.49
SS304HB11/4x1	1 1/4" x 1"	Hex	-	10/160	7.15



☺ Limited Quantities Available



IMASS



SS12

* NO wrench-grip shoulder



SS38 Series

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Male Adapter (MIP x INS)					
IMASS50	1/2"	Round	6	25/200	\$ 8.44
IMASS75	3/4"	Round	6	25/150	10.04
IMASS100	1"	Round	7	20/120	16.33
IMASS125	1 1/4"	Round	7	20/80	20.46
IMASS125100	1 1/4 X 1"	Round	7	20/80	24.11
IMASS150	1 1/2"	Round	9	10/60	27.58
IMASS200	2"	Round	9	10/40	38.75

Swaged 316 Stainless Steel Male Insert Adapters (MIPxINS) Made in USA

SS12-1/2*	1/2"	Round	6	25/300	\$ 14.08
SS12-3/4	3/4"	Hex	7	25/200	14.84
SS12-1	1"	Hex	7	20/160	30.54
SS12-11/4	1-1/4"	Hex	6	20/120	36.91
SS12-11/2	1-1/2"	Hex	6	10/60	41.68

Swaged 316 Stainless Steel Male Reducing Adapter (MIP x INS) Made in USA

SS38-11/4x1	1-1/4 x 1"	Round	7	25/100	36.55
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Swaged 316 Stainless Steel Extra Long Male Adapter (MIP x INS) Made in USA

XSS12-1	1"	Round	14	25	37.95
XSS12-11/4	1 1/4"	Round	14	25	50.85

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
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Swaged 304 Stainless Steel Coupling (INS x INS)

ICSS50	1/2"	Round	6	25/200	\$ 6.83
ICSS75	3/4"	Round	6	25/150	9.25
ICSS100	1"	Round	7	20/120	15.14
ICSS125	1 1/4"	Round	7	20/80	19.32
ICSS150	1 1/2"	Round	9	10/60	26.56
ICSS200	2"	Round	9	10/40	38.16

Swaged 316 Stainless Steel Coupling (INS x INS) Made in USA

SS10-1	1"	Round	7	20	25.21
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Swaged 316 Stainless Steel Extra Long Coupling (INS x INS) Made in USA

XSS10-1	1"	Round	14	25	70.14
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ICSS Series



SS10 Series

Pump Installation Well Seal Ells, Venturis

- Well Seal Ells and Venturis are third party certified to NSF/ANSI 372.



☺ Limited Quantities Available



ISWSE



S86, ISVMA,
B86, ISSVMA

NEW

Part Number	Size	Ctn/CaseQty	List Price
Zinc Plated Steel Well Seal Elbows (INS x INS)			
ISWSE100	1"	25	\$ 31.96
ISWSE125	1 1/4"	15	34.70
Zinc Plated Steel Venturi Adapter (MIP x INS)			
ISVMA1X6	1" x 6"	60	9.46
ISVMA1X8	1" x 8"	50	10.68
ISVMA1X10	1" x 10"	40	13.01
ISVMA11/4X6	1-1/4" x 6"	50	13.18
ISVMA11/4X8	1-1/4" x 8"	40	14.48
ISVMA11/4X10	1-1/4" x 10"	30	15.64
Zinc Plated Steel Venturi Adapter (MIP x INS) Made in USA			
S86-3/4X12	3/4 x 12"	25	36.09
S86-1X6	1" x 6"	25	24.24
S86-1X8	1" x 8"	25	28.68
Red Brass Venturi Adapter (MIP x INS) Made in USA			
B86-1X6	1" x 6"	25/100	60.11
Swaged 304 Stainless Steel Venturi Adapter, mipt x ins IMPORTED			
ISSVMA1X6	1" x 6"	50	30.11
ISSVMA11/4X6	1 1/4" x 6"	50	32.38

Geothermal Installation Accessories



GLLS8

GEOLOOP Leak Seal:

- Preventative maintenance for residential and commercial geothermal systems.
- A blended concentrated material designed to coat all surfaces it comes into contact with and reduce the formation of rust and corrosion.
- Field tested and proven effective in sealing system leaks (holes up to 1/8" in diameter.)
- Do not use if strainer is installed in system.
- Can plug or seal off strainers and gauges. Use with care.

Part Number	Description	Ctn Qty	List Price
GLLS8	GEOLOOP Leak Seal 8 oz. bottle	20	\$ 24.55

GEOLOOP Leak Seal Directions:

- Shake well before using.
- Use one 8 oz. bottle per 5 ton (up to 1200 gallons) system for minor leaks. A second bottle can be added for larger leaks.
- Premix with no less than 8-16 oz. of water.
- With circulating pump(s) running in continuous mode or using flushcart, pour or insert mixture into loop and circulate for several hours at low pressure. After introduced to the system, build pressure to 60 psi or higher (not to exceed 160 psi). Circulate for 24 hours. Return system to normal operating pressure thereafter. Check system in one week for pressure drop. Treatment can be repeated if needed.



RBGSE

Cast Bronze Ground Source Elbow Features:

- Elbow with 1/4" tapping used to check pressures and temperatures at the geothermal unit.

☺ Limited Quantities Available



Part Number	Size	Ctn/Case Qty	List Price
Cast Bronze Ground Source Elbows (INS x MIP w/ 1/4" tap)			
RBGSE1X3/4 ☺	1" x 3/4"	10/100	\$ 17.32
RBGSE1	1" x 1"	10/80	27.77
RBGSE11/4	1 1/4" x 1 1/4"	5/50	37.99



HFBV6-I

ISO 9001

Forged Brass FULL Port Ball Valve with Hose Barbs Features:

- Heavy pattern, full port, forged brass construction.
- PTFE seats, chrome plated brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 psi W.O.G.** non-shock; **150 psi S.W.P.**
- Insert hose barb ends for use with polyethylene pipe connections.
- Imported. Manufactured for American Granby in an ISO 9001 facility.



MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass

Part Number	Size	Ctn/Case Qty	List Price
HFBV6-50I	1/2"	50/100	\$ 13.90
HFBV6-75I	3/4"	30/60	25.08
HFBV6-100I	1"	20/40	53.00
HFBV6-125I	1-1/4"	12/24	74.49

Drop Pipe Couplings

**Couplings for connecting pipe in submersible pump applications.
Ideal for all other threaded applications.**



DPC Series



SSDPC Series

DPC Series Features:

- Available in Schedule 80 or 120
- Machined from custom extruded PVC stock which eliminates weak points that occur in molded couplings.
- Reamed and drifted for easy starting of threads.
- Tapered pipe threads for positive watertight connections.
- Made in U.S.A.



SSDPC Series Features:

- Heavy duty, extra heavy wall cast 304 STAINLESS STEEL construction.
- Up to 60% heavier wall than other SS drop pipe couplings available.
- Reamed and drifted for easy starting of threads.
- Tapered pipe threads for positive watertight connections.
- Wrench flats for easy installation.
- **Third party certified to NSF/ANSI 372.**



Part Number	Pipe Size	Overall Length	Ctn Qty	List Price
PVC Schedule 80 - Standard Wall				
80DPC100	1"	2 3/4"	25	\$ 5.21
80DPC125	1 1/4"	2 3/4"	25	7.42
PVC Schedule 120 - Extra Heavy Wall				
DPC100	1"	2-3/4"	100	8.25
DPC125	1-1/4"	2-3/4"	100	9.88
DPC150	1-1/2"	3-3/8"	100	10.01
DPC200	2"	3-3/8"	100	11.69
Cast Stainless Steel 304 - Heavy Duty - Extra Heavy Wall				
SSDPC100	1"	2 1/2"	10 / 60	25.41
SSDPC125	1 1/4"	2 1/2"	8 / 48	29.63
SSDPC150	1 1/2"	2 1/2"	10 / 60	32.39
SSDPC200	2"	2 1/2"	6 / 36	39.88

Couplings - Turned, Tool



Turned Coupling Features:

- Used for suspending flush well points or strainers from drive shoes or tubular cylinders.
- Galvanized with standard pipe thread.
- Furnished with right hand pipe threads.
- Thin wall 434J.
- **Third party certified to NSF/ANSI 372.**



Part Number	Rt. Hand Thread Pipe Size	Well Size	Strainer Size	Coupling O.D.	Coupling Length	Ctn Qty	List Price
434J11/4X11/4	1 1/4 x 1 1/4"	2	1"	1 13/16"	2 1/4"	48	\$ 8.42
434-11/4X11/4	1 1/4 X 1 1/4"	2	1 1/4	1 15/16"	2 1/4	48	9.26



Tool Coupling Features:

- Heavy, extra-long black steel coupling recessed for use with well tools and drill rods.
- **Third party certified to NSF/ANSI 372.**



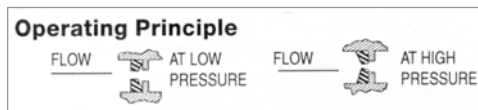
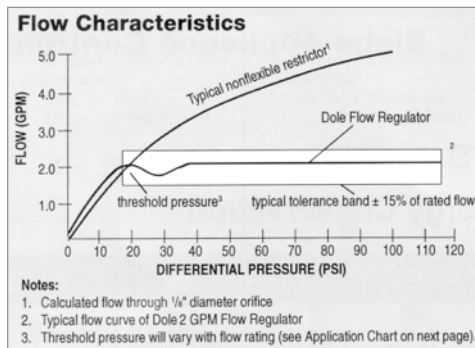
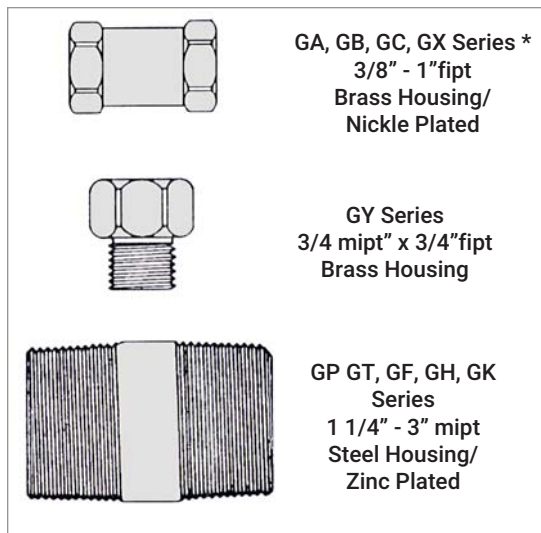
Part Number	Pipe Size	Thread	OD	Length	Ctn Qty	List Price
8049C	1"	1" Tapered	1 5/8"	3 1/2"	24	\$ 35.37
8049D	1 1/4"	1 1/4" Straight	2 1/8"	3 3/4"	40	46.16

Flow Control Valves - Dole



Dole Flow Control Valve Features:

- Prevents over-pumping of low yield wells.
- Installs in the discharge line between check valve and pressure tank.
- Do not use to suspend pipe.
- Self cleaning, designed to deliver constant volume of water over wide pressure drop range.
- Flow rated maintained within +/- 15% up to a pressure drop of 125 psi.
- Maximum system pressure 200 psi.
- Lead Free.



NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet	List Price
Brass Housing/Nickel Plated				
* GA.06		0.06	3/8\" FIPT	\$ 38.46
GA.13	DV.13	0.13	3/8\" fipt	38.46
GA.19	DV.19	0.19	3/8\" fipt	38.46
GA.25	DV2.5	0.25	3/8\" fipt	38.46
GA.35		0.35	3/8\" fipt	38.46
GA.50	DV5	0.50	3/8\" fipt	38.46
GA.75	DV75	0.75	3/8\" fipt	38.46
GA1.0	DV10	1.0	3/8\" fipt	38.46
Steel Housing/Zinc Plated				
* GB1.0	DV10-1/2	1.0	1/2\" fipt	50.89
GB1.5	DV15	1.5	1/2\" fipt	50.89
GB2.0	DV20	2.0	1/2\" fipt	50.89
GB2.5	DV25	2.5	1/2\" fipt	50.89
GB3.0	DV30	3.0	1/2\" fipt	50.89
GB3.5	DV35	3.5	1/2\" fipt	50.89
GB4.0	DV40	4.0	1/2\" fipt	50.89
GB5.0	DV50-1/2	5.0	1/2\" fipt	50.89
GB6.0	DV60-1/2	6.0	1/2\" fipt	50.89
* GC1	DV1.0	1.0	3/4\" fipt	65.36
GC1.5		1.5	3/4\" fipt	65.36
GC2.0	DV2.0	2.0	3/4\" fipt	65.36
GC2.5	DV2.5-3/4	2.5	3/4\" fipt	65.36
GC3.0	DV30-3/4	3.0	3/4\" fipt	65.36
GC3.5	DV3.5-3/4	3.5	3/4\" fipt	65.36
GC4.0	DV40-3/4	4.0	3/4\" fipt	65.36
GC5.0	DV50	5.0	3/4\" fipt	65.36
GC6.0	DV60	6.0	3/4\" fipt	65.36
GC7.0	DV70	7.0	3/4\" fipt	65.36
GC8.0	DV80	8.0	3/4\" fipt	65.36
GC9.0	DV90	9.0	3/4\" fipt	65.36
GC10	DV100	10.0	3/4\" fipt	65.36
GC11.5	DV115	11.5	3/4\" fipt	65.36
* GX1.0	DV10-1	1.0	1\" fipt	102.98
GX1.5	DV15-1	1.5	1\" fipt	102.98
GX2.0	DV20-1	2.0	1\" fipt	102.98
GX2.5	DV25-1	2.5	1\" fipt	102.98
GX3.0	DV30-1	3.0	1\" fipt	102.98
GX3.5	DV35-1	3.5	1\" fipt	102.98
GX4.0	DV40-1	4.0	1\" fipt	102.98
GX5.0	DV50-1	5.0	1\" fipt	102.98
GX6.0	DV60-1	6.0	1\" fipt	102.98
GX7.0	DV70-1	7.0	1\" fipt	102.98

Flow Control Valves - Dole

NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet	List Price
GX8.0	DV80-1	8.0	1" fpt	\$ 102.98
GX9.0	DV90-1	9.0	1" fpt	102.98
GX10	DV100-1	10.0	1" fpt	102.98
GX12	DV120	12.0	1" fpt	102.98
GX13.5	DV135-1	13.5	1" fpt	102.98
GX15	DV150	15.0	1" fpt	102.98
GX20	DV200	20.0	1" fpt	102.98
GX25	DV250	25.0	1" fpt	102.98
GX30	DV300	30.0	1" fpt	102.98

* Brass Housing

GY1.0	DV1-3/4MXF	1.0	3/4"mipt x fipt	80.87
GY1.5	DV1.5-3/4MXF	1.5	3/4"mipt x fipt	80.87
GY2.0	DV2-3/4MXF	2.0	3/4"mipt x fipt	80.87
GY2.5	DV2.5-3/4MXF	2.5	3/4"mipt x fipt	80.87
GY3.0	DV3-3/4MXF	3.0	3/4"mipt x fipt	80.87
GY3.5	DV3.5-3/4MXF	3.5	3/4"mipt x fipt	80.87
GY4.0	DV4-3/4MXF	4.0	3/4"mipt x fipt	80.87
GY5.0	DV5-3/4MXF	5.0	3/4"mipt x fipt	80.87
GY6.0	DV6-3/4MXF	6.0	3/4"mipt x fipt	80.87
GY7.0	DV7-3/4MXF	7.0	3/4"mipt x fipt	80.87
GY8.0	DV8-3/4MXF	8.0	3/4"mipt x fipt	80.87
GY9.0	DV9-3/4MXF	9.0	3/4"mipt x fipt	80.87
GY10	DV10-3/4MXF	10.0	3/4"mipt x fipt	80.87
GY11.5		11.5	3/4"mipt x fipt	80.87

* Steel Housing/Zinc Plated

GP1.0	DV1.0-11/4	1.0	1 1/4" mipt	230.50
GP2.0		2.0	1 1/4" mipt	230.50
GP2.5		2.5	1 1/4" mipt	230.50
GP3.0		3.0	1 1/4" mipt	230.50
GP3.5		3.5	1 1/4" mipt	230.50
GP4.0		4.0	1 1/4" mipt	230.50
GP5.0		5.0	1 1/4" mipt	230.50
GP6.0		6.0	1 1/4" mipt	230.50
GP7.0	DV75-11/4	7.0	1 1/4" mipt	230.50
GP8.0		8.0	1 1/4" mipt	230.50
GP9.0		9.0	1 1/4" mipt	230.50
GP10	DV10-11/4	10.0	1 1/4" mipt	230.50
GP12	DV12-11/4	12.0	1 1/4" mipt	230.50
GP15	DV15-11/4	15.0	1 1/4" mipt	230.50
GP20	DV20-11/4	20.0	1 1/4" mipt	230.50
GP25	DV25-11/4	25.0	1 1/4" mipt	230.50
GP30	DV30-11/4	30.0	1 1/4" mipt	230.50

* GT1.0		1.0	1 1/2" mipt	361.10
GT1.5		1.5	1 1/2" mipt	361.10
GT2.0	DV2-11/2	2.0	1 1/2" mipt	361.10
GT2.5		2.5	1 1/2" mipt	361.10
GT3.0		3.0	1 1/2" mipt	361.10
GT3.5		3.5	1 1/2" mipt	361.10
GT4.0		4.0	1 1/2" mipt	361.10
GT5.0	DV5-11/2	5.0	1 1/2" mipt	361.10

NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet	List Price
Steel Housing/Zinc Plated				
GT6.0		6.0	1 1/2" mipt	\$ 361.10
GT7.0	DV7-11/2	7.0	1 1/2" mipt	361.10
GT8.0		8.0	1 1/2" mipt	361.10
GT9.0	DV9-11/2	9.0	1 1/2" mipt	361.10
GT10	DV10-11/2	10.0	1 1/2" mipt	361.10
GT12		12.0	1 1/2" mipt	361.10
GT13.5		13.5	1 1/2" mipt	361.10
GT15	DV15-11/2	15.0	1 1/2" mipt	361.10
GT20	DV20-11/2	20.0	1 1/2" mipt	361.10
GT25	DV25-11/2	25.0	1 1/2" mipt	361.10
GT30	DV30-11/2	30.0	1 1/2" mipt	361.10

* GF10	DV10-2	10.0	2" mipt	367.47
GF12	DV12-2	12.0	2" mipt	367.47
GF15		15.0	2" mipt	367.47
GF20	DV20-2	20.0	2" mipt	367.47
GF25		25.0	2" mipt	367.47
GF30	DV30-2	30.0	2" mipt	367.47

* GH30		30.0	2-1/2" mipt	694.85
GH35	DV350	35.0	2-1/2" mipt	694.85
GH40	DV400	40.0	2-1/2" mipt	694.85
GH45	DV450	45.0	2-1/2" mipt	694.85
GH50	DV500	50.0	2-1/2" mipt	694.85
GH55	DV550	55.0	2 1/2" mipt	694.85
GH60	DV600	60.0	2-1/2" mipt	694.85
GH65	DV650	65.0	2-1/2" mipt	694.85
GH70	DV700	70.0	2-1/2" mipt	694.85
GH75	DV750	75.0	2-1/2" mipt	694.85
GH80	DV800	80.0	2-1/2" mipt	694.85
GH85		85.0	2-1/2" mipt	694.85
GH90	DV900	90.0	2 1/2" mipt	694.85

GK30		30.0	3" mipt	693.95
GK35	DV3500	35.0	3" mipt	693.95
GK40	DV4000	40.0	3" mipt	693.95
GK45	DV4500	45.0	3" mipt	693.95
GK50		50.0	3" mipt	693.95
GK55	DV5500	55.0	3" mipt	693.95
GK60		60.0	3" mipt	693.95
GK65	DV6500	65.0	3" mipt	693.95
GK70		70.0	3" mipt	693.95
GK75		75.0	3" mipt	693.95
GK80		80.0	3" mipt	693.95
GK85	DV8500	85.0	3" mipt	693.95
GK90		90.0	3" mipt	693.95
GK95		95.0	3" mipt	693.95
GK100	DV1000	100.0	3" mipt	693.95
GK105		105.0	3" mipt	693.95
GK110		110.0	3" mipt	693.95
GK115		115.0	3" mipt	693.95
GK120	DV1200	120.0	3" mipt	693.95



HS and HSC Series

Heat Shrink Splicing Kit Features:

- Excellent dielectric strength and can be shrunk over a large diameter connector and still effectively seals watertight down to a small diameter cable.
- Available in two, three and four wire kits. Designed to fit the new, smaller O.D. pump leads.
- No grease tape or epoxy is needed.
- Highly resistant to moisture, fungus and weathering.
- Supplied w/ EC1410 wire connectors for #14-#10 gauge wire. (EC6/8 for LHS Series.)
- Private labeling available for minimum orders of 200 kits.
- Bulk tubing available.
- **Third party certified to NSF/ANSI 372.**



Wire Connector Features:

- Provides quick, safe and sure electrical connection.
- Seamless.
- 13/16" in length.



Part Number	Tubes Fits Wire Size	# Tubes	# Butt Connectors (included in kit)	Ctn Qty	List Price
Black Heavy Wall Heat Shrink Kits					
HS2	#14, #12, #10	2	2	50	\$ 3.89
HS3	#14, #12, #10	3	3	50	5.57
HS3-4	#14, #12, #10	3	4	50	5.86
HS4	#14, #12, #10	4	4	50	6.34
LHS3	#8, #6, #4, #2	3	3 (#8) 3 (#6)	20	14.58
LHS4	#8, #6, #4, #2	4	4 (#8) 4 (#6)	20	18.84
CHST	#14, #12, #10	BULK	0	500	1.27
Black Standard Wall Heat Shrink Kits					
HSSW2	#14, #12, #10	2	2	50	2.93
HSSW2-3	#14, #12, #10	2	3	50	3.21
HSSW3	#14, #12, #10	3	3	50	4.23
HSSW4	#14, #12, #10	4	4	50	5.48
CHSSWT	#14, #12, #10	BULK	0	500	0.93
Clear Heavy Wall Heat Shrink Kits					
SHWC2	#14, #12, #10	2	2	50	3.80
SHWC2-3	#14, #12, #10	2	3	50	4.70
SHWC3	#14, #12, #10	3	3	50	5.40
SHWC3-4	#14, #12, #10	3	4	50	5.63
SHWC4	#14, #12, #10	4	4	50	6.91
LHSHWC3	#8, #6, #4, #2	3	3 (#8) 3 (#6)	20	14.58
LHSHWC4	#8, #6, #4, #2	4	4 (#8) 4 (#6)	20	20.66
CHSHWCT	#14, #12, #10	BULK	0	500	1.14
Clear Standard Wall Heat Shrink Kits					
HSCL2	#14, #12, #10	2	2	50	3.28
HSCL3	#14, #12, #10	3	3	50	4.85
HSCL3-4	#14, #12, #10	3	4	50	5.23
HSCL4	#14, #12, #10	4	4	50	6.47
CHSCLT	#14, #12, #10	BULK	0	500	1.00
Wire Connectors					
EC1410	For #14-10 gauge wire			100	51.00/100
EC8	For #8 gauge wire			250	0.84 each
EC6	For #6 gauge wire			250	1.38 each
EC4	For #4 gauge wire			100	2.18 each
EC2	For #2 gauge wire			100	2.78 each



EC Series

Installation Accessories - Electrical



SK Series

Compression Splicing Kit Features:

- Molded from high impact resistant polycarbonate.
- No water absorption characteristics.
- Excellent dielectric properties.
- Available in two, three and four wire kits.
- Supplied with EC1410 wire connectors for #14-#10 gauge wire.
- **Third party certified to NSF/ANSI 372.**



LA302R

LA300 Series Lightning Arrestor Features:

- LA302 Rated 125-250V, single phase, 3 wire Light Duty service.
- Maximum Current: 60,000 amps on LA302.
- Maximum Energy per pole: 2000 joules on LA302.
- Unlimited number of surges.
- N-4 Weatherproof enclosure.
- Use with 1/2" or 3/4" locknut for knock-out installation.
- ETL Listed



HPL

Pump Light Features:

- Can be used with two or three wire motors in either 115 volt or 230 volt applications.
- It is easy to install at the pressure switch, where it is used to indicate that the pump is running or at the control box, where it is used to indicate that current is available to the submersible pump.

Part Number	Description	# Tubes	# Connectors	Ctn Qty	List Price
Compression Splice Kits					
SK2	#14, #12, #10	2	2	50	\$ 10.12
SK3	#14, #12, #10	3	3	50	13.67
SK4	#14, #12, #10	4	4	50	16.75
Lightning Arrestors					
LA302R	125/250 V, Single phase, 3 wire, 2 1/4" x 2 1/4"			18	115.19
Pump Light					
HPL75	Pump Light			12	20.16



Liquid Level Control



Electrode

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.



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	\$ 955.10
1500G-L1-S8-N1X	DH110-360	Pump-up/Pump-down	110/360 volts	1	955.10
1500G-L2-S7-N1X	DH220-220	Pump-up/Pump-down	220/220 volts	1	955.10
1500G-L2-S8-N1X	DH220-360	Pump-up/Pump-down	220/360 volts	1	955.10
1500G-L3-S8-N1X	DH440-360	Pump-up/Pump-down	440/360 volts	1	955.10
1500C-L1-S4-N1X	LH110-110	Pump-down	110/120 volts	1	865.31
1500C-L1-S7-N1X	LH110-220	Pump-down	110/220 volts	1	865.31
1500C-L1-S8-N1X	LH110-360	Pump-down	110/360 volts	1	865.31
1500C-L2-S7-N1X	LH220-220	Pump-down	220/220 volts	1	865.31
1500C-L2-S8-N1X	LH230-360	Pump-down	230/360 volts	1	865.31
1500D-L1-S7-N1X	RH110-220	Pump-up	110/220 volts	1	865.31
1500D-L1-S8-N1X	RH110-360	Pump-up	110/360 volts	1	865.31
1500D-L2-S7-N1X	RH220-220	Pump-up	220/220 volts	1	865.31

Electrodes

6013-W6	E1S	Stainless Steel *	1	107.83
6013-W5	E1SB	Brass	1	118.37

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.

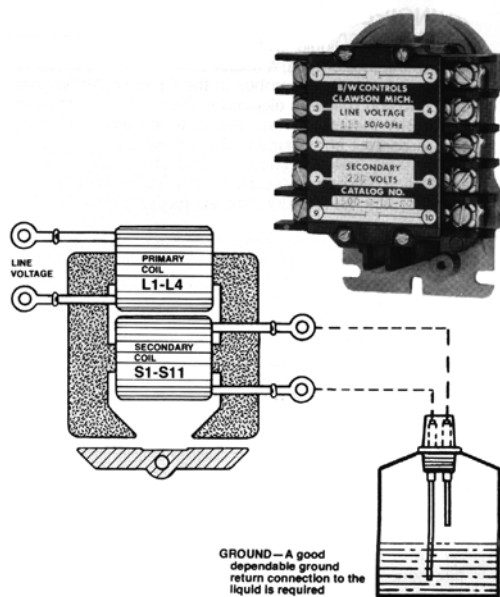
Liquid Description	Secondary Coil
Acetic Acid - up to 75%	90 volt
- 75 - 90%	220 volt
Acids - General	40 or 90 volt
Alkalies - General	40 or 90 volt
Alum Solutions	220 volt
Aluminum Sulphate	90 volt
Aluminum Hydroxide	90 volt
Amino Acids	90 volt
Ammonium Chloride	40 volt
Ammonium Hydroxide (Ammonia)	220 volt
Ammonium Sulphate	220 volt
Baby foods	90 volt
Barium Chloride	40 volt
Barium Nitrate	40 volt
Beer	90 volt
Black liquor	40 volt
Blood	220 volt
Borax - up to 10%	220 volt
- Greater than 10%	90 volt
Bread dough	90 volt
Buttermilk	24 or 40 volt
Cadmium Chloride	40 volt
Cake batter	220 volt
Calcium Chloride	40 volt
Calcium Hydroxide	220 volt

Liquid Description	Secondary Coil
Carbolic Acid - up to 90%	220 volt
Catsup	90 volt
Caustic Soda (Sodium Hydroxide)	40 volt
Cement slurry	220 volt
Chromic acid	40 volt
Citric acid	40 or 90 volt
Coffee	90 volt
Condensate - ordinary water	480 volt
Corn syrup	480 volt
Corn - cream style	90 volt
Ferrous Sulphate	220 volt
Formic acid - up to 75%	90 volt
- 75 to 90%	220 volt
- above 20%	40 volt
Hydrofluoric acid - up to 20%	220 volt
- above 20%	40 volt
Hydrofluorosilicic acid	90 volt
Jams & jellies	360 volt
Juices - fruit & vegetable	40 or 90 volt
Lithium Chloride	40 volt
Magnesium Hydroxide	90 volt
Mayonnaise	220 volt
Milk	40 volt
Molasses	220 volt
Muriatic acid	40 volt
Mustard	40 volt

Liquid Description	Secondary Coil
Nitric acid	40 or 90 volt
Orange juice	90 volt
Paper stock	220 volt
Penicillin	220 volt
Phosphoric acid	40 volt
Plating solutions	40 or 90 volt
Salts - chemical	40 or 90 volt
Sodium Carbonate (soda ash)	90 volt
Sodium Chloride (table salt)	40 volt
Sodium Hydroxide (caustic soda)	40 volt
Sodium Hypochlorate	40 volt
Sodium Silicate (water glass)	90 volt
Soups	40 volt
Starch solutions	220 volt
Sugar - low concentrations	220 volt
- high concentrations	360 volt
Vinegar	90 volt
Water - Sea	40 volt
- Ordinary potable	220 volt
- ordinary soft	360 volt
- Ordinary condensate	480 volt
Zinc Chloride	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.

B/W Controls



Specialty Pressure Gauges



IPG45-WLSS



IPG45-WL Water Level Gauge Features:

- 4 1/2" face #304 stainless steel case and clear acrylic lens.
- #304 stainless steel bezel with side screws.
- Brass pointer with black finish.
- NL brass movement.
- Range 0-390' H₂O.
- Bourdon tube-phosphor bronze, soft soldered.
- Connection: 1/4" NPT, lower mount, NL brass.
- Accuracy: +/- 3-2-3%

Part Number	Size	Description	MIP Conn.	Ctn Qty	List Price
NO LEAD BRASS					
IPG45-WLSSNL	4 1/2"	0 - 390' Water Level	1/4" lower	20	\$ 38.86



PTG1002

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty	List Price
PTG1002	2" case	0-100# Pressure test gauge	50	\$ 16.39



PGBS



Pressure Gauge Brass Snubber Features:

- Use with any pressure gauge subjected to rapidly fluctuating pressures or sudden shock pressure.
- Brass housing with high strength sintered, porous type snubbing element.

Part Number	Size/Description	Ctn Qty	List Price
PGBS1/4	1/4" mpt x 1/4" fpt Brass Snubber	50/500	\$ 9.99



WTG

Water Test Gauge Features:

- Quick, easy method to test a wide range of pressure systems for leakage.
- 2 1/2" dial face, steel case pressure gauge w/ plastic lens.
- With standard 3/4" FGHT swivel garden hose connection with rubber washer.
- Attach to hose bibbs, boiler drains and lawn faucets for pressure testing.
- "MP" series MAX pointer arm measures maximum water surge or pressure drop.
- Individually cartoned.

PSI dial

Part Number	Size	Pressure Setting/Description	increments	Ctn Qty	List Price
WTG100	2 1/2"	0-100# water test gauge, fght	1	50	\$ 11.46
WTG200	2 1/2"	0-200# water test gauge, fght	2	50	11.46
WTG300	2 1/2"	0-300# water test gauge, fght	3	100	11.46
WTG100MP	2 1/2"	0-100# gauge with MAX pointer	1	50	12.25
WTG200MP	2 1/2"	0-200# gauge with MAX pointer	2	50	12.25
WTG300MP	2 1/2"	0-300# gauge with MAX pointer	3	50	12.25



WTG MP



WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov



This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Air/Gas Test Gauges



GTG



GTM3/4

Gas Test Gauge Features:

- Quick, easy means of pressurizing & monitoring gas systems for leakage.
- Completely assembled - brass hex manifold, air valve with plastic cap and 2" dial face, steel case pressure gauge with plastic lens.
- Manifold also available separately: 3/4" fpt connection with 1/4" fpt gauge tap and 1/8" fpt air valve tap.
- Individually cartoned and available in 15, 30, 60 and 100 psi.



WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Description	Gauge Increments	Ctn Qty	List Price
GTG15	Gas test gauge, 3/4" fpt, 0-15#	1/10 lb.	50	\$ 20.26
GTG30	Gas test gauge, 3/4" fpt, 0-30#	1/2 lb.	50	20.26
GTG60	Gas test gauge, 3/4" fpt, 0-60#	1/10 lb.	50	20.26
GTG100	Gas test gauge, 3/4" fpt, 0-100#	1 lb.	50	20.26
GTM3/4	Brass Gas test manifold only		100	10.56



PATG200

Pressure Air Test Gauge Features:

- Quick, easy means of pressurizing and monitoring plumbing systems for leakage
- Attach to hose bibb.
- Includes brass hex manifold, air valve, 2" 200# gauge, garden hose thread fitting.

Part Number	Description	Ctn Qty	List Price
PATG200	Pressure Air Test Gauge	30	\$ 31.97

Pitless Adapters - NO LEAD Bronze



PT300NL



PT800NL



PT800TNL



PT825NL



PT100NL



PT125NL



PT3000NL



PT900NL



PT700NL & PT725NL

Pitless Adapter Features:

- Cast from **81% COPPER** content alloy **NO LEAD** bronze 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 pitless adapters are 100% pressure tested.
- **All PT Series pitless adapters are certified and approved watertight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**
- **NO LEAD** cast bronze pitless adapters are **third party certified to NSF/ANSI 372.**



ASSE Standard #1093-2019
WSC Standard PAS-97 (2019)



Part Number	Slide Stop Style	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty	List Price
NO LEAD Cast Bronze							
PT300NL	Top Bar	1"	5" through 12"	1 3/4"	800	10	\$ 134.20
PT800NL	Top Bar	1"	5" through 12"	1 3/4"	900	10	128.75
PT100NL	U cup	1"	5" through 12"	1 3/4"	5,000	10	146.57
PT700NL	U cup	1"	5" through 12"	1 3/4"	5,000	10	232.90
PT825NL	Top Bar	1-1/4"	5" through 12"	2 1/4"	2,000	10	240.25
PT125NL	U cup	1 1/4"	5" through 12"	2 1/4"	5,000	10	254.04
PT725NL	U cup	1-1/4"	5" through 12"	2 1/8"	5,000	10	482.14
PT3000NL	U cup	2"	5 5/8" through 12"	3 1/8"	5,000	4	793.16
PT900NL	U cup	1" & 1 1/4" (2 Hole)	4" through 12"	1 3/4" & 2 1/4"	2,000	6	685.25

TAPPED NO LEAD Cast Bronze for Underground tanks

PT800TNL	Top Bar	1"	5" through 12"	1 3/4"	900	10	141.32
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Pitless Adapters - Stainless Steel



PT300SS



PT800SS



PT825SS



PT3000SS

HARVARD Pitless Adapter Features:

- Cast from 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 pitless adapters are 100% pressure tested.
- **All PT Series pitless adapters are certified and approved watertight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**
- 304 Stainless Steel pitless adapters are Lead Free.
- **Third party certified to NSF/ANSI 372.**



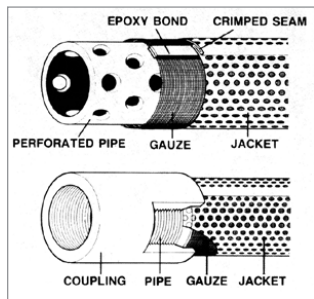
Part Number	Slide Stop Style	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty	List Price
Cast 304 STAINLESS STEEL							
PT300SS	Top Bar	1"	5" through 12"	1 3/4"	6,000	10	\$ 100.28
PT800SS	Top Bar	1"	5" through 12"	1 3/4"	6,000	10	119.89
PT825SS	U cup	1-1/4"	5" through 12"	2 1/4"	6,000	10	185.88
PT3000SS	U cup	2"	5" through 12"	3 1/8"	6,000	4	745.49

Drive Well Point Features:

- Heavy duty ductile iron point to drive into all types of soil.
- Stainless steel jacket and gauze.
- Crimped seam eliminates peeling.
- Epoxy bonding at critical points.
- Locked at both ends.
- Lead free seam.
- Pipe coupling provided.
- Threaded, octagonal shoulder prevents turning while driving.
- Forms large enough hole to allow clearance for pipe couplings.
- **Third party certified to NSF/ANSI 372.**


CLAYTON MARK®


Drive Well
Point



Part Number	Gauze	Pipe Length	Pipe Size	Ctn Qty	List Price
Drive Points					
SBD2460	60	24	1-1/4"	3	\$ 93.94
SBD3060	60	30	1-1/4"	3	134.27
SBD3660	60	36	1-1/4"	3	148.20
SBD4260	60	42	1-1/4"	3	149.92
SBD4860	60	48	1-1/4"	3	187.63
SBD6060	60	60	1-1/4"	3	226.73
SBD2480	80	24	1-1/4"	3	93.94
SBD3080	80	30	1-1/4"	3	134.27
SBD3680	80	36	1-1/4"	3	148.20
SBD4280	80	42	1-1/4"	3	149.92
SBD4880	80	48	1-1/4"	3	187.63
SBD30100	100	30	1-1/4"	3	134.27
SBD36100	100	36	1-1/4"	3	148.20
SBD48100	100	48	1-1/4"	3	187.63
SCD&F3660	60	36	1-1/2"	3	125.93
SCD&F4860	60	48	1-1/2"	3	176.40
SCD&F6060	60	60	1-1/2"	3	220.69
SCD&F3680	80	36	1-1/2"	3	125.93
SCD&F4880	80	48	1-1/2"	3	176.40
SDD&F3060	60	30	2"	3	176.07
SDD&F3660	60	36	2"	3	193.80
SDD&F4860	60	48	2"	3	243.83
SDD&F6060	60	60	2"	3	301.47
SDD&F3080	80	30	2"	3	176.07
SDD&F3680	80	36	2"	3	193.80
SDD&F4880	80	48	2"	3	243.83
SDD&F6080	80	60	2"	3	301.47

Drive Well Points


CLAYTON MARK®


Flush Well Point Features:

- Same as drive well points plus:
- Designed to pass through well casing & drive shoe into water bearing sand & gravel.
- Pipe coupling is designed to catch in a closed-pattern drive shoe.
- Beveled edges on point forms a positive grip on jacket, similar to single piece construction.
- Stainless steel jacket & gauze

Combination Well Point Features:

- Can be used as a regular well point or as an open end screen.
- Stainless steel jacket & gauze



**Flush Well
Point**



**Combination
Well Point**

Part

Number	Gauze	Pipe Length	Pipe Size	Ctn Qty	List Price
Flush Well Points					
SBF3660	60	36	1-1/4"	3	\$ 153.01
SBF4860	60	48	1-1/4"	3	200.46
SBF4280	80	42	1-1/4"	3	175.50
SBF48100	100	48	1 1/4"	3	200.46
Combination Well Points					
SBC2460	60	24	1-1/4"	3	125.05



**Drive & Flush
Well Point Head**

Part Number	Type	Pipe Size	Ctn Qty	List Price
Well Point Heads				
A1120041	Drive	1-1/4"	1	\$ 17.88
A1120005	Drive	1-1/2"	1	25.61
A1120006	Drive	2"	1	36.08
A1120007	Flush	1-1/4"	1	18.23



I-Series

Imperial Series Features:

- Designed to be driven into all types of soil.
- Imperial series are wrapped outside with a stainless steel screen
- Stainless steel jacket over gauze construction is permanently fixed to perforated steel pipe.
- Design allows the passage of all the sand free water the pipe can carry.
- Cast iron drive point head can be removed for easy field extension by coupling together with the second well point for added capacity.

Simmons



Part No.	Simmons	Pipe Size	Length	Gauze	Ctn Qty	List Price
Imperial with Outer Stainless Steel Gauze						
I90-60	1720-1	1 1/4	24"	60	1	\$ 183.74
I94-60	1721-1	1 1/4	30"	60	1	191.58
I98-60	1722-1	1 1/4	36"	60	1	210.39
I100-60	1723-1	1 1/4	42"	60	1	237.88
I102-60	1724-1	1 1/4	48"	60	1	257.23
I168-60	1752-1	2	36"	60	1	326.46
I172-60	1753-1	2	48"	60	1	419.53
I176-60	1754-1	2	60"	60	1	523.82
I90-80	1726-1	1 1/4	24"	80	1	195.65
I94-80	1727-1	1 1/4	30"	80	1	208.16
I98-80	1728-1	1 1/4	36"	80	1	216.34
I102-80	1730-1	1 1/4	48"	80	1	271.79
I144-80	1747-1	1 1/2	36"	80	1	270.50



S-Series

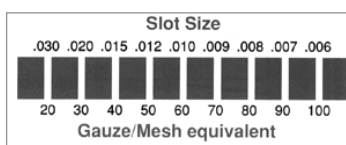
Standard Series Features:

- For use in rocky or sandy soil.
- Standard series are wrapped inside with a stainless steel screen.
- Unique corrosion resistant construction features protect stainless steel gauze held in place between galvanized pipe and a stainless steel liner.
- Self flushing chamfered holes in galvanized pipe eliminate clay or sand build-up, giving maximum water yield with minimum development time.

Simmons



Part No.	Simmons	Pipe Size	Length	Gauze	Ctn Qty	List Price
Standard Series with Inner Stainless Steel Gauze						
S94-60	1721	1 1/4	30"	60	1	\$ 204.65
S98-60	1722	1 1/4	36"	60	1	208.58
S102-60	1724	1 1/4	48"	60	1	279.07
S168-60	1752	2	36"	60	1	329.45
S172-60	1753	2	48"	60	1	408.80
S176-60	1754	2	60"	60	1	503.98
S94-80	1727	1 1/4	30"	80	1	202.81
S98-80	1728	1 1/4	36"	80	1	210.57



Drive Well Point Supplies

"Sand Shark", Backwash Valves Features:

- Used in soft soil to jet open-end screen to desired depth.
- Thickwalled, cast iron construction with saw teeth to rip through roots, debris.
- Solid ABS ball check keeps sand from entering well when jetting operations are complete.
- Not spring loaded.



**80002C
Sand Shark
Valve**



**8660B
Backwash
Valve**

Part Number	Valve Size	Pressure Pipe Tap	Ctn Qty	List Price
80002C	2" NPT Male	1" NPS Left Hand Female	Bulk	\$ 75.29

Part Number	Pipe Size	Description	Ctn Qty	List Price
8660B	2"	No. 19B S/Steel Ball	12	\$ 97.96



434 Series

Turned Coupling Features:

- Used for suspending flush well points or strainers from drive shoes or tubular cylinders.
- Galvanized with standard pipe thread.
- Furnished with right hand pipe threads.
- Thin wall 434J.
- **Third party certified to NSF/ANSI 372.**



Part Number	Rt. Hand Thread Pipe Size	Well Size	Strainer Size	Coupling O.D.	Coupling Length	Ctn Qty	List Price
Turned Couplings							
434J11/4X11/4	1-1/4 x 1-1/4"	2	1"	1 13/16"	2-1/4"	48	\$ 6.48
434-11/4X11/4	1 1/4 X 1 1/4"	2	1 1/4	1 15/16"	2 1/4	48	7.12



DC

Galvanized Drive Coupling Features:

- Heavy pattern with deep recess for shouldering on imperfect threads of well points.
- Assures proper driving of well points and standard pipe.
- Taper tapped, reamed and drifted.
- **Third party certified to NSF/ANSI 372.**



Drive Cap Features:

- Heavy duty forged steel.
- Standard pipe threads.
- Vented on top.



C125

Part Number	Description	Pipe Size	Length (in.)	Ctn Qty	List Price
Galvanized Drive Couplings					
DC125C	1-1/4"	1-1/4"	2.75	40	\$ 13.32
DC150	1-1/2"	1-1/2"	2.75	40	19.74
DC200	2"	2"	2.90	30	22.39
DC200L	2" Long Pattern	2"	3.40	30	30.70
Drive Caps					
C125	Heavy Duty Forged Steel	1-1/4"		32	20.78
C200	Heavy Duty Forged Steel	2"		16	33.53

Pitcher Pump



HPP10

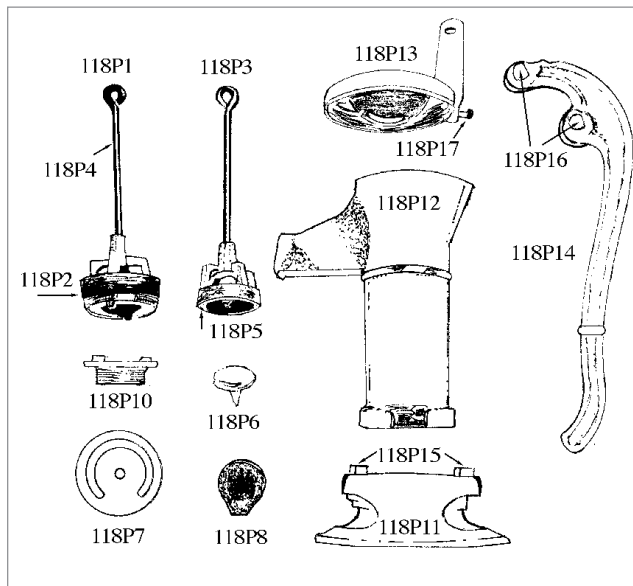
HARVARD® Pitcher Pump Features:

- Recommended for shallow pump applications – depth rating up to 20'.
- Easily installed.
- Made of heavy cast iron.
- Dark green hard enamel rugged powder coated paint finish.
- 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.
- **Third party certified NO LEAD to NSF/ANSI 372.**



Part Number	Description	Master Ctn Qty	List Price
HPP10	Pitcher Pump, Cast Iron, Size #2	4	\$ 148.44

PITCHER PUMP REPLACEMENT PARTS



Part Number	Description	List Price
118P1	Complete Plunger Assembly includes *	46.21
118P2 *	Cup Leather for Plunger only	21.56
118P3	Plunger Rod and Cage (no cup leather)	17.82
118P4 *	Plunger Rod	9.17
118P5 *	Plunger Cage	14.37
118P6 *	Plunger Weight	6.28
118P7	Flat Leather for Base Valve	15.70
118P8	Weight and Screw for Flat Valve	8.62
118P9	Flat Valve Leather and Weight	19.98
118P10 *	Threaded Nut for Plunger Cage	13.25
118P11	Pump Base with Bolts (118P15)	42.61
118P12	Pump Cylinder	48.47
118P13	Pump Top with Set Screw (118P17)	21.85
118P14	Pump Handle with Two Bolts (118P16)	36.66
118P15	3/8 x 1-1/4 Bolts for Pump Base (set of 2)	4.78
118P16	3/8 x 2 bolts for Pump Handle	5.58
118P17	Set Screw for Pump Top	4.76

Rod Couplings



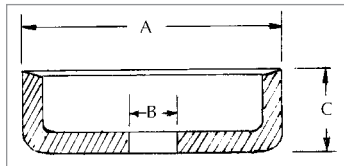
720

720 Series Rod Coupling Features:

- Hexagon shaped, galvanized couplings.
- Made from solid bars of cold-rolled steel.
- Use to connect steel pump rods.



Part Number	Size	Size of Hexagon	Overall Length	Ctn Qty	List Price
8075B1	3/8"x3/8"	5/8"	1-3/4"	25	\$ 2.39
8075C1	7/16"x3/8"	5/8"	1-3/4"	25	3.51
8075D1	7/16"x7/16"	5/8"	1-3/4"	25	2.23
8075E1	1/2"x3/8"	11/16"	1-3/4"	25	3.93
8075F1	1/2"x7/16"	11/16"	1-3/4"	25	5.41
8075G1	1/2"x1/2"	11/16"	1-3/4"	25	2.91
8075J1	5/8"x7/16"	13/16"	2-1/8"	BULK	13.68
8075K1	5/8" x 1/2"	13/16"	2 1/8"	BULK	10.73
8075L1	5/8"x5/8"	13/16"	2-1/8"	BULK	5.82


702/41 Universal Features:

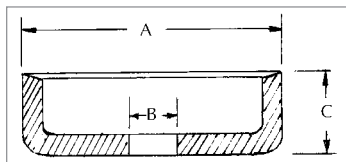
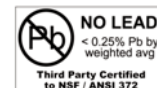
- Untreated economy leathers.
- Flesh side out.
- Used for open type hand pumps (pitcher pumps), jet packers and on any application calling for a stationary seal.
- Made in USA.


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	\$ 8.89
702-048	L101020006	702/41	1-1/8"	3/8"	1/2"	12	9.72
702-061	L101040006	702/41	1-1/4"	3/8"	1/2"	12	9.72
702-063	L101040008	702/41	1-1/4"	1/2"	1/2"	12	9.72
702-095	L101060010	702/41	1 3/8"	5/8"		12	10.98
702-169	L101120010	702/41	1-3/4"	5/8"	11/16"	12	11.78
702-198	L101130103	702/41	1-13/16"	1-3/16"	3/4"	12	11.78
702-216	L101140105 *	702/41	1-7/8"	1-5/16"	3/4"	12	11.78
702-220	L101140104 **	702/41	1-7/8"	1-1/4"	3/4"	12	11.78
702-263	L102000104	702/41	2"	1-1/4"	3/4"	12	13.93
702-264	L102000105	702/41	2"	1-5/16"	3/4"	12	13.93
702-333	L102040106	702/41	2-1/4"	1-3/8"	3/4"	12	15.24
702-334	L102040108 *	702/41	2 1/4"	1 1/2"	3/4"	12	15.24
702-358	L102080110	702/41	2-1/2"	1-5/8"	13/16"	12	17.00
702-384	L102120114 *	702/41	2-3/4"	1-7/8"	13/16"	12	18.50
702-410	L103000200	702/41	3"	2"	13/16"	12	20.63
702-464	L103080208	702/41	3-1/2"	2-1/2"	1"	12	25.92
702-521	L104000300	702/41	4"	3"	1-1/16"	6	38.02
702-636	L106000408	702/41	6"	4 1/2"		6	125.71

* Standard Clayton Mark hole size

** Standard Midland hole size



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	\$ 8.87
704-048	L601020006	704/46	1-1/8"	3/8"	1/2"	12	9.72
704-092	L601060006	704/46	1-3/8"	3/8"	5/8"	12	10.98
704-105	L601080000	704/46	1 1/2"	SOLID	5/8"	12	10.98
704-198	L601130103	704/46	1-13/16"	1-3/16"	3/4"	12	11.78
704-220	L601140104 **	704/46	1-7/8"	1-1/4"	3/4"	12	11.78
704-255	L602000010	704/46	2"	5/8"	3/4"	12	13.93
704-264	L602000105	704/46	2"	1-5/16"	3/4"	12	13.93
704-333	L602040106	704/46	2-1/4"	1-3/8"	3/4"	12	15.24
704-354	L602080104	704/46	2-1/2"	1-1/4"		12	17.00
704-358	L602080110	704/46	2-1/2"	1-5/8"	13/16"	12	17.00
704-384	L602120114 *	704/46	2-3/4"	1-7/8"	13/16"	12	18.50
704-409	L603000105	704/46	3"	1-7/8"		12	20.63
704-410	L603000200	704/46	3"	2"	13/16"	12	20.63
704-464	L603080208	704/46	3-1/2"	2-1/2"	1"	12	25.92
704-521	L604000300	704/46	4"	3"	1-11/16"	6	38.02

* Standard Clayton Mark hole size

** Standard Midland hole size



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.


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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	\$ 8.89
706-063	L201040008	706/42	1-1/4"	1/2"	1/2"	12	9.72
706-064	L201040010	706/42	1 1/4"	5/8"	1/2"	12	9.72
706-095	L201060010	706/42	1-3/8"	5/8"	5/8"	12	10.98
706-105	L201080000	706/42	1-1/2"	-	5/8"	12	10.98
706-112	L201080010	706/42	1-1/2"	5/8"	5/8"	12	10.98
706-127	L201100006	706/42	1-5/8"	3/8"	5/8"	12	10.98
706-155	L201110102	706/42	1-11/16"	1-1/8"	5/8"	12	11.78
706-166	L201120006	706/42	1 3/4"	3/8"		12	11.78
706-175	L201120102	706/42	1-3/4"	1-1/8"	11/16"	12	11.78
706-198	L201130103	706/42	1-13/16"	1-3/16"	3/4"	12	11.78
706-219	L201140103	706/42	1-7/8"	1-3/16"	3/4"	12	11.78
706-220	L201140104 **	706/42	1-7/8"	1-1/4"	3/4"	12	11.78
706-221	L201140105 *	706/42	1-7/8"	1-5/16"	3/4"	12	11.78
706-255	L202000010	706/42	2"	5/8"	3/4"	12	13.93
706-262	L202000103	706/42	2"	1-3/16"	3/4"	12	13.93
706-263	L202000104	706/42	2"	1-1/4"	3/4"	12	13.93
706-264	L202000105	706/42	2"	1-5/16"	3/4"	12	13.93
706-285	L202010104	706/42	2-1/16"	1-1/4"	3/4"	12	15.24
706-286	L202010105	706/42	2-1/16"	1-5/16"	3/4"	12	15.24
706-308	L202020104	706/42	2-1/8"	1-1/4"	3/4"	12	15.24
706-310	L202020106	706/42	2-1/8"	1-3/8"	3/4"	12	15.24
706-333	L202040106	706/42	2-1/4"	1-3/8"	3/4"	12	15.24
706-334	L202040108 *	706/42	2-1/4"	1-1/2"	3/4"	12	15.24
706-335	L202040110	706/42	2-1/4"	1-5/8"	3/4"	12	15.24
706-345	L202080008	706/42	2-1/2"	1/2"		12	17.00
706-358	L202080110	706/42	2-1/2"	1-5/8"	13/16"	12	17.00
706-359	L202080111	706/42	2-1/2"	1-11/16"	13/16"	12	17.00
706-384	L202120114 *	706/42	2-3/4"	1-7/8"	13/16"	12	18.50
706-409	L203000114	706/42	3"	1-7/8"	13/16"	12	20.63
706-410	L203000200	706/42	3"	2"	13/16"	12	20.63
706-435	L203010114	706/42	3 1/16"	1 7/8"		12	22.98
706-464	L203080208	706/42	3-1/2"	2-1/2"	1"	12	25.92
706-492	L203120210	706/42	3-3/4"	2-5/8"	1"	12	32.64
706-520	L204000212	706/42	4"	2-3/4"	1-1/16"	6	38.09
706-521	L204000300	706/42	4"	3"	1-1/16"	6	38.09

* Standard Clayton Mark hole size

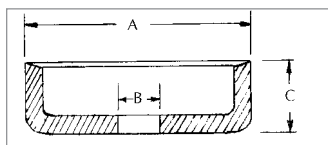
** Standard Midland hole size

Cup Leathers



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.

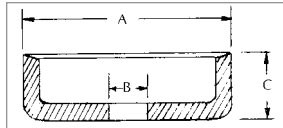

CLAYTON MARK®


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
707/45 Graphite							
707-061	L501040006	707/45	1-1/4"	3/8"	1/2"	12	\$ 9.72
707-063	L501040008	707/45	1-1/4"	1/2"	1/2"	12	9.72
707-064	L501040010	707/45	1-1/4"	5/8"	1/2"	12	9.72
707-092	L501060006	707/45	1-3/8"	3/8"	5/8"	12	10.98
707-095	L501060010	707/45	1-3/8"	5/8"	5/8"	12	10.98
707-109	L501080006	707/45	1-1/2"	3/8"	5/8"	12	10.98
707-112	L501080010	707/45	1-1/2"	5/8"	5/8"	12	10.98
707-130	L501100010	707/45	1-5/8"	5/8"		12	10.98
707-149	L501110010	707/45	1-11/16"	5/8"		12	11.78
707-175	L501120102	707/45	1-3/4"	1-1/8"		12	11.78
707-198	L501130103	707/45	1-13/16"	1-3/16"	3/4"	12	11.78
707-215	L501140114	707/45	1-7/8"	7/8"	3/4"	12	11.78
707-220	L501140104 **	707/45	1-7/8"	1-1/4"	3/4"	12	11.78
707-221	L501140105 *	707/45	1-7/8"	1-5/16"	3/4"	12	11.78
707-255	L502000010	707/45	2"	5/8"	3/4"	12	13.93
707-264	L502000105	707/45	2"	1-5/16"	3/4"	12	13.93
707-286	L502010105	707/45	2-1/16"	1-5/16"	3/4"	12	15.24
707-300	L502020010	707/45	2-1/8"	5/8"	3/4"	12	15.24
707-333	L502040106	707/45	2-1/4"	1-3/8"	3/4"	12	15.24
707-334	L502040108 *	707/45	2-1/4"	1-1/2"	3/4"	12	15.24
707-639	L502060108	707/45	2 3/8"	1 1/2"	3/4"	12	17.00
707-357	L502080108	707/45	2-1/2"	1-1/2"	3/4"	12	17.00
707-358	L502080110	707/45	2-1/2"	1-5/8"	13/16"	12	17.00
707-359	L502080111	707/45	2-1/2"	1-11/16"	13/16"	12	17.00
707-384	L502120114 *	707/45	2-3/4"	1-7/8"	13/16"	12	15.50
707-410	L503000200	707/45	3"	2"	13/16"	12	20.63
707-436	L503010200	707/45	3 1/16"	2"		12	23.98
707-464	L503080208	707/45	3-1/2"	2-1/2"	1"	12	25.92
707-492	L503120210	707/45	3-3/4"	2-5/8"	1"	12	32.74
707-520	L504000212	707/45	4"	2-3/4"		6	38.02
707-521	L504000300	707/45	4"	3"	1-1/16"	6	38.02
707-615	L506000010	707/45	6"	5/8"		6	125.71

* Standard Clayton Mark hole size

** Standard Midland hole size



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	\$ 8.87
711-022	L401000006	711/44	1"	3/8"	7/16"	12	8.87
711-024	L401000008	711/44	1"	1/2"	7/16"	12	8.87
711-037	L401010010	711/44	1-1/16"	5/8"		12	9.72
711-048	L401020006	711/44	1-1/8"	3/8"	1/2"	12	9.72
711-050	L401020008	711/44	1-1/8"	1/2"	1/2"	12	9.72
711-057	L401040000	711/44	1 1/4"	-	1/2"	12	9.72
711-061	L401040006	711/44	1-1/4"	3/8"	1/2"	12	9.72
711-062	L401040007	711/44	1-1/4"	7/16"	1/2"	12	9.72
711-063	L401040008	711/44	1-1/4"	1/2"	1/2"	12	9.72
711-064	L401040010	711/44	1-1/4"	5/8"		12	9.72
711-076	L401050006	711/44	1-5/16"	3/8"		12	10.98
711-078	L401050008	711/44	1-5/16"	1/2"		12	10.98
711-094	L401060008	711/44	1-3/8"	1/2"	5/8"	12	10.98
711-095	L401060010	711/44	1-3/8"	5/8"	5/8"	12	10.98
711-098	L401060014	711/44	1-3/8"	7/8"	5/8"	12	10.98
711-109	L401080006	711/44	1-1/2"	3/8"	5/8"	12	10.98
711-111	L401080008	711/44	1-1/2"	1/2"	5/8"	12	10.98
711-112	L401080010	711/44	1-1/2"	5/8"	5/8"	12	10.98
711-129	L401100008	711/44	1-5/8"	1/2"	5/8"	12	10.98
711-130	L401100010	711/44	1-5/8"	5/8"	5/8"	12	10.98
711-135	L401100100	711/44	1-5/8"	1"	5/8"	12	10.98
711-149	L401110010	711/44	1-11/16"	5/8"	5/8"	12	11.78
711-151	L401110103	711/44	1 11/16"	1 3/16"		12	11.78
711-154	L401110100	711/44	1-11/16"	1"	5/8"	12	11.78
711-155	L401110102	711/44	1-11/16"	1-1/8"	5/8"	12	11.78
711-169	L401120010	711/44	1-3/4"	5/8"	11/16"	12	11.78
711-174	L401120100	711/44	1 3/4"	1"	11/16"	12	11.78
711-175	L401120102	711/44	1-3/4"	1-1/8"	11/16"	12	11.78
711-192	L401130012	711/44	1-13/16"	3/4"		12	11.78
711-198	L401130103	711/44	1-13/16"	1-3/16"	3/4"	12	11.78
711-211	L401140008	711/44	1-7/8"	1/2"	3/4"	12	11.78
711-212	L401140010	711/44	1-7/8"	5/8"	3/4"	12	11.78
711-217	L401140100	711/44	1-7/8"	1"	3/4"	12	11.78
711-219	L401140103	711/44	1-7/8"	1-3/16"	3/4"	12	11.78
711-220	L401140104 **	711/44	1-7/8"	1-1/4"	3/4"	12	11.78
711-221	L401140105 *	711/44	1-7/8"	1-5/16"	3/4"	12	11.78

* Standard Clayton Mark hole size

** Standard Midland hole size

711/44 Waterproof - continued.
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CLAYTON MARK®

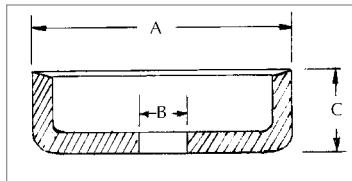
NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty	List Price
711/44 Waterproof - Continued							
711-240	L401150103	711/44	1-15/16"	1-3/16"	3/4"	12	\$13.93
711-242	L401150105	711/44	1-15/16"	1-5/16"	3/4"	12	13.93
711-248	L402000000	711/44	2"	SOLID	3/4"	12	13.93
711-254	L402000008	711/44	2"	1/2"	3/4"	12	13.93
711-255	L402000010	711/44	2"	5/8"	3/4"	12	13.93
711-259	L402000015	711/44	2"	15/16"	3/4"	12	13.93
711-262	L402000103	711/44	2"	1-3/16"	3/4"	12	13.93
711-263	L402000104	711/44	2"	1-1/4"	3/4"	12	13.93
711-264	L402000105	711/44	2"	1-5/16"	3/4"	12	13.93
711-267	L402000110	711/44	2"	1-5/8"	3/4"	12	13.93
711-277	L402010010	711/44	2-1/16"	5/8"	3/4"	12	15.24
711-284	L402010103	711/44	2-1/16"	1-3/16"	3/4"	12	15.24
711-285	L402010104	711/44	2-1/16"	1-1/4"	3/4"	12	15.24
711-286	L402010105	711/44	2-1/16"	1-5/16"	3/4"	12	15.24
711-300	L402020010	711/44	2-1/8"	5/8"	3/4"	12	15.24
711-308	L402020104	711/44	2-1/8"	1-1/4"	3/4"	12	15.24
711-316	L402040000	711/44	2 1/4"	SOLID	3/4"	12	15.24
711-323	L402040010	711/44	2-1/4"	5/8"	3/4"	12	15.24
711-331	L402040104	711/44	2-1/4"	1-1/4"	3/4"	12	15.24
711-332	L402040105	711/44	2-1/4"	1-5/16"	3/4"	12	15.24
711-333	L402040106	711/44	2-1/4"	1-3/8"	3/4"	12	15.24
711-334	L402040108 *	711/44	2-1/4"	1-1/2"	3/4"	12	15.24
711-335	L402040110	711/44	2-1/4"	1-5/8"	3/4"	12	15.24
711-339	L402080000	711/44	2-1/2"	SOLID	13/16"	12	17.00
711-346	L402080010	711/44	2-1/2"	5/8"	13/16"	12	17.00
711-354	L402080104	711/44	2-1/2"	1-1/4"	13/16"	12	17.00
711-355	L402080105	711/44	2-1/2"	1-5/16"	13/16"	12	17.00
711-356	L402080106	711/44	2-1/2"	1-3/8"	13/16"	12	17.00
711-357	L402080108	711/44	2-1/2"	1-1/2"	13/16"	12	17.00
711-358	L402080110	711/44	2-1/2"	1-5/8"	13/16"	12	17.00
711-359	L402080111	711/44	2-1/2"	1-11/16"	13/16"	12	17.00
711-384	L402120114 *	711/44	2-3/4"	1-7/8"	13/16"	12	18.50
711-637	L402140114	711/44	2-7/8"	1-7/8"	13/16"	12	18.50
711-406	L403000108	711/44	3"	1-1/2"	13/16"	12	20.63
711-409	L403000114	711/44	3"	1-7/8"	13/16"	12	20.63
711-410	L403000200	711/44	3"	2"	13/16"	12	20.63
711-638	L403000202	711/44	3"	2 1/8"	13/16"	12	20.63
711-435	L403010114	711/44	3-1/16"	1-7/8"	13/16"	12	23.98
711-436	L403010200	711/44	3-1/16"	2"	13/16"	12	23.98
711-464	L403080208	711/44	3-1/2"	2-1/2"	1"	12	25.92
711-492	L403120210	711/44	3-3/4"	2-5/8"	1"	12	32.74
711-495	L404000000	711/44	4"	SOLID	1-1/16"	6	38.02
711-518	L404000208	711/44	4"	2-1/2"	1-1/16"	6	38.02
711-520	L404000212	711/44	4"	2-3/4"	1-1/16"	6	38.02
711-521	L404000300	711/44	4"	3"	1-1/16"	6	38.02

* Standard Clayton Mark hole size

** Standard Midland hole size


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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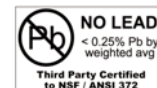
NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty	List Price
NEO/86 NEOFAB CUP							
NEO-220	L901140104 **	NEO/86	1-7/8"	1-1/4"	3/4"	3	\$ 55.66
NEO-255	L902000010	NEO/86	2"	5/8"	3/4"	3	55.95
NEO-264	L902000105	NEO/86	2"	1-5/16"	3/4"	3	55.95
NEO-334	L902040108 *	NEO/86	2-1/4"	1-1/2"	3/4"	3	56.43
NEO-358	L902080110	NEO/86	2-1/2"	1-5/8"	13/16"	3	56.91
NEO-384	L902120114 *	NEO/86	2-3/4"	1-7/8"	13/16"	3	57.63
NEO-410	L903000200	NEO/86	3"	2"	13/16"	3	60.36
NEO-464	L903080208	NEO/86	3-1/2"	2-1/2"	1"	3	66.73

* Standard Clayton Mark hole size

** Standard Midland hole size


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	\$ 9.31
V502120204	2 1/4"	2 3/4"	2 1/4"	6	10.67
V503000206	2 1/2"	3"	2 3/8"	6	11.78
V503080214	3"	3 1/2"	2 7/8"	6	14.40
V503120302	3 1/4"	3 3/4"	3 1/8"	6	14.40
V504000304	3 1/2"	4"	3 1/4"	6	16.79
V504080312	4"	4 1/2"	3 3/4"	6	17.57
V505000404	4 1/4"	5"	4 1/4"	6	17.57
V505040408	4 1/2"	5 1/4"	4 1/2"	6	18.82
V506120512	6"	6 3/4"	5 3/4"	6	46.77

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"

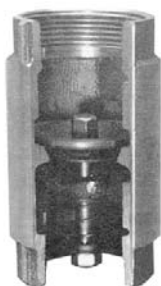

**708/57 Universal
Packing Ring**
708/57 Universal Packing Ring Features:

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



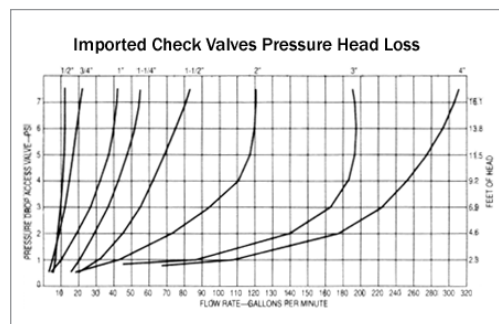
Part Number	Finish	Outside Diameter	Hole Size	Thickness	List Price
708/57 Universal Packing Ring					
R702000106	708/57	2"	1-3/8"	1/8"	\$ 3.29
R702080114	708/57	2-1/2"	1-7/8"	1/8"	4.89
R702120202	708/57	2-3/4"	2-1/8"	1/8"	5.78
R703000206	708/57	3"	2-3/8"	1/8"	6.76
R703080214	708/57	3-1/2"	2-7/8"	5/32"	8.87

Check Valves - NO LEAD Brass, Bronze, Stainless Steel



CHECK VALVE Features:

- NO LEAD cast brass, bronze body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**



CVNL-BS Series

CVNL-BS Series NO LEAD BRASS Check Valves

- Rough body finish.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVNL50BS	1/2"	100	\$ 17.22
CVNL75BS	3/4"	80	22.82
CVNL100BS	1"	60	32.04
CVNL125BS	1 1/4"	40	41.25
CVNL150BS	1 1/2"	30	61.46
CVNL200BS	2"	20	105.56
CVNL300BS	3"	6	514.11
CVNL400BS	4"	3	786.96



CVNL-B Series

CVNL-B Series NO LEAD BRONZE Check Valves

- Machined body finish.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVNL50B	1/2"	100	\$ 20.54
CVNL75B	3/4"	80	29.82
CVNL100B	1"	60	41.96
CVNL125B	1 1/4"	40	58.04
CVNL150B	1 1/2"	30	78.39
CVNL200B	2"	20	136.96
CVNL300B	3"	6	525.77



SSCV Series

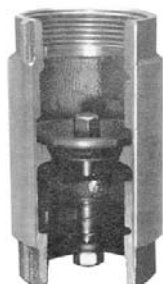
SSCV Series STAINLESS STEEL Check Valves

- 304 cast stainless steel casting, springs, washers, lock nut.
- Viton o-ring.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
SSCV50	1/2"	100	\$ 28.75
SSCV75	3/4"	80	38.61
SSCV100	1"	60	56.07
SSCV125	1 1/4"	40	74.82
SSCV150	1 1/2"	30	101.61
SSCV200	2"	20	180.64
SSCV300	3"	6	675.89
SSCV400	4"	3	1316.18
SSCV1025	1" fpt x 1 1/4" mpt	60	71.57

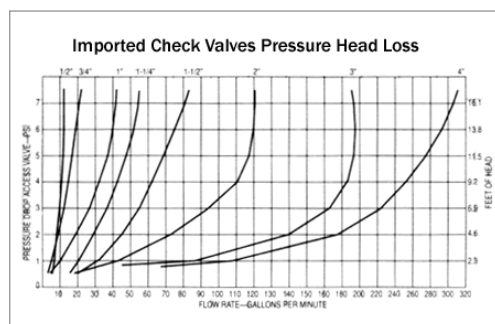


Check Valves - NO LEAD Brass



CHECK VALVE Features:

- NO LEAD cast brass or stainless steel body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**



CVXLDNL Series

CVXLDNL Series NO LEAD BRASS Check Valves

- Rough body finish.
- Extra long at discharge end.
- For cold water applications only.

Part Number	Size	Ctn Qty	List Price
CVXLDNL100BS	1" x 1"	60	\$ 68.50
CVXLDNL125BS	1 1/4" x 1 1/4"	40	83.36



CVMNL-BS Series

CVMNL-BS Series NO LEAD BRASS Submersible Check Valves

- Rough body finish.
- FPT x MPT
- For cold water applications only.

Part Number	Size (FPT X MPT)	Ctn Qty	List Price
CVMNL100BS	1" x 1"	60	\$ 43.65
CVMNL125BS	1" x 1 1/4"	40	56.41
CVMNL1252BS	1 1/4" x 1 1/4"	60	67.68



CVMXLNL Series

CVMXLNL Series NO LEAD BRASS Submersible Check Valves

- Rough body finish.
- Extra long body.
- For cold water applications only.

Part Number	Size (M X F)	Ctn Qty	List Price
CVMXLNL100BS	1" x 1"	60	\$ 56.96
CVMXLNL125BS	1 1/4" x 1 1/4"	40	76.61



Foot Valves - NO LEAD Brass, Bronze, Stainless Steel



FVNL-BS Series



FVNL-B Series



FVNL-B Series



SSFV Series

FOOT VALVE Features:

- NO LEAD Cast Brass, bronze or stainless steel body & poppet.
- Buna-N o-ring (Viton on stainless steel).
- Stainless steel springs, washers, locknuts and strainers.
- 200 psi WOG working pressure.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**

FVNL Series LEAD FREE BRASS Foot Valves

- Rough body finish.
- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
FVNL50BS	1/2"	1 1/4"	100	\$ 15.81
FVNL75BS	3/4"	1 1/2"	80	20.18
FVNL100BS	1"	2"	60	27.83
FVNL125BS	1 1/4"	2 1/2"	40	38.86
FVNL150BS	1 1/2"	3"	30	55.71
FVNL200BS	2"	3 1/2"	20	92.69
FVNL300BS	3"	5"	8	341.75
FVNL400BS	4"	-	4	620.44



FV-B Series NO LEAD BRONZE Foot Valves

- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
FVNL50B	1/2"	1 1/4"	100	\$ 15.82
FVNL75B	3/4"	1 1/2"	80	24.46
FVNL100B	1"	2"	60	33.03
FVNL125B	1 1/4"	2 1/2"	40	49.82
FVNL1251B	1 1/4"	2"	50	46.25
FVNL150B	1 1/2"	3"	30	67.68
FVNL200B	2"	3 1/2"	20	109.99
FVNL300B	3"	5"	8	417.68
FVNL400B	4"	-	4	702.86



FV-B Series NO LEAD BRONZE Dual Purpose Foot Valves

- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
FVNL100125B	1" FPT x 1 1/4"MPT	2"	60	\$ 45.89



SSFV Series STAINLESS STEEL Foot Valve Features:

- 304 Stainless steel casting, spring, washer, locknut, strainer
- Viton o-ring.
- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty	List Price
SSFV50	1/2"	1 1/4"	100	\$ 23.35
SSFV75	3/4"	1 1/2"	80	30.18
SSFV100	1"	2"	60	54.76
SSFV125	1 1/4"	2 1/2"	40	67.83
SSFV150	1 1/2"	3"	30	89.11
SSFV200	2"	3 1/2"	20	149.82
SSFV300	3"	5"	8	669.54
SSFV400	4"	-	4	1246.18



Foot Valves - Replacement parts

FVSC, CVSP Series Stainless Screen, Endcap, Screw, Spring

- Spring replacement for all imported check and foot valves



FVSC & CVSP Series

Screen/Cap/Screw Part Number	Spring Part Number	Size	FVSC List Price	CVSP List Price
FVSC50	CVSP50	1/2"	\$ 9.29	\$ 3.14
FVSC75	CVSP75	3/4"	9.29	3.14
FVSC100	CVSP100	1"	11.43	3.14
FVSC125	CVSP125	1 1/4"	13.14	3.93
FVSC150	CVSP150	1 1/2"	19.43	3.93
FVSC200	CVSP200	2"	24.86	4.73
FVSC300	CVSP300	3"	75.71	8.43
FVSC400	CVSP400	4"	88.57	9.14

- FOR USE IN WATER WELL SYSTEMS
- * Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.




LF5100 Series Silicon Bronze LEAD FREE* check valves

- Silicon bronze cast body and poppet..
- Buna-N o-ring, stainless steel spring, washer and lock nut.
- 400 PSI (WOG working pressure).
- Made in U.S.A.



Part Number	Simmons	Size	Ctn Qty	List Price
LF5100-1/2	501SB	1/2"	50	\$ 84.42
LF5100-3/4	502SB	3/4"	50	83.90
LF5100-1	503SB	1"	50	90.79
LF5100-1LT	513SB	1" w/ Longer Threads	50	93.75
LF5100-1 1/4	504SB	1 1/4"	36	125.59
LF5100-1 1/2	505SB	1 1/2"	24	179.98
LF5100-2	506SB	2"	16	276.35
LF5100-2 1/2	507SB	2 1/2"	1	1178.01
LF5100-3	508SB	3"	1	1461.15
LF5100-4	509SB	4"	1	2423.62
LF5100-5	510SB	5" w/ MPT both ends	1	3260.39
LF5100-6	511SB	6"	1	4431.66



LF5100A Series Silicon Bronze LEAD FREE* check valves

- Same as 5100 Series plus:
- 1/8" single inlet tapping.
- Made in U.S.A.



Part Number	Simmons	Size	Ctn Qty	List Price
LF5100A1	522SB	1"	50	\$ 110.28
LF5100A1 1/4	523SB	1 1/4"	36	146.85
LF5100A1 1/2	524SB	1 1/2"	24	182.50
LF5100A2	525SB	2"	16	297.09



LF5100B Series Silicon Bronze LEAD FREE* Check Valves

- Same as 5100 Series plus:
- With 1/8" Inlet Tapping, 1/4" Outlet Tappings.
- Made in U.S.A.



Part Number	Simmons	Size	Ctn Qty	List Price
LF5100B3/4	541SB	3/4"	50	\$ 104.53
LF5100B1	542SB	1"	50	124.33
LF5100B1 1/4	543SB	1 1/4"	36	144.70
LF5100B1 1/2	544SB	1 1/2"	24	201.87
LF5100B2	545SB	2"	16	308.70
LF5100B3	547SB	3"	1	2013.46

NO LEAD Check Valves - Simmons

- FOR USE IN WATER WELL SYSTEMS

* Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.




LF5100C Series Silicon Bronze LEAD FREE* Control Center

- Made in U.S.A.



Part Number	Simmons	Size	Inlet Tap	Outlet Tap	Ctn Qty	List Price
LF5100C1	601SB	1"	1/8" (1)	1/4" (2)	1	\$ 118.38
LF5100C11/4	602SB	1 1/4"	1/8" (1)	1/4" (2)	1	154.03
LF5100C11/2	603SB	1 1/2"	1/8" (1)	1/4" (2)	1	200.04
LF5101C1	606SB	1"	-	1/4" (2)	1	117.83
LF5101C11/4	607SB	1 1/4"	-	1/4" (2)	1	155.52



LF5100D Series Silicon Bronze LEAD FREE* submersible Check Valves

- Installation between pump and column pipe.
- Made in U.S.A.



Part Number	Simmons	Size (FxM)	Ctn Qty	List Price
LF5100D1x1	616SB	1"x1"	1	\$ 98.21
LF5100D1x1LT	610SB	1"x1" w/ longer threads	1	100.78
LF5100D1x11/4	617SB	1"x1 1/4"	1	91.70
LF5100D11/4x11/4	618SB	1 1/4"x1 1/4"	1	122.11



LF6700 Series DUCTILE IRON LEAD FREE* Check Valve

- Ductile iron body - STEMMED
- Silicon bronze poppet and stainless steel spring and nut.
- Non toxic paint.
- For use with large submersible pumps.
- Made in U.S.A.



Part Number	Simmons	Size	Pipe	Ctn Qty	List Price
LF6700-1	653SB	1"	1 7/8"	1	\$ 53.53
LF6700-11/4	654SB	1 1/4"	2 5/16"	1	74.64
LF6700-11/2	655SB	1 1/2"	2 5/8"	1	102.19
LF6700-2	680SB	2"	3 1/4"	1	188.80
LF6700-3	670SB	3"	4 1/8"	1	615.61
LF6700-4	671SB	4"	5 5/8"	1	992.75
LF6700-6	672SB	6"	7 5/8"	1	1760.45
LF6700-8	673SB	8"	9 5/8"	1	3980.40



LF7000 Series Silicone Bronze LEAD FREE* Pressure Regulator Valve

- Silicon bronze cast body.
- Adjustable bronze cylinder control
- For deep well pumps.
- Positive o-ring seat.
- PT series with pressure line tapping.
- Made in U.S.A.



Part Number	Simmons	Size	Line Tap	Ctn Qty	List Price
LF7000-3/4	730SB	3/4 x 3/4 x 3/4"	-	1	\$ 140.83
LF7000PT1	731SB	1 x 1 x 1"	1/8"	1	160.90

- FOR USE IN WATER WELL SYSTEMS
- * Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.

Simmons


5000S Series Silicone Bronze Foot Valve Features:

- Silicon bronze cast body and poppet.
- Stainless steel perforated screen.
- Specify LFN5000S 1-1/4 special valve for 2" ID casing.
- 400 PSI working pressure
- Made in U.S.A.



Part Number	Simmons	Size	Ctn Qty	List Price
LF5000S3/4	452SB	3/4"	60	\$ 73.20
LF5000S1	453SB	1"	60	83.64
LFN5000S11/4	404SB	1 1/4"	36	99.04
LF5000S11/4	455SB	1 1/4"	36	98.21
LFS5000S11/4	454SB	1 1/4"	36	89.29
LF5000S11/2	456SB	1 1/2"	24	158.44
LF5000S2	457SB	2"	12	256.03
LF5000S21/2	458SB	2 1/2"	1	835.67
LF5000S3	459SB	3"	1	1148.27
LF5000S4	460SB	4"	1	1928.27



LF4000 Series SILICON BRONZE Dual Purpose Foot Valve Features:

- Same as LF5000S Series plus:
- Dual purpose foot valve. Threaded inside and outside.
- Made in U.S.A.



Part Number	Simmons	Size (F x M)	Ctn Qty	List Price
LF4000-1 x 11/4	466SB	1" x 1 1/4"	1	\$ 100.73
LF4000-11/4 x 11/2	467SB	1 1/4" x 1 1/2"	1	114.78



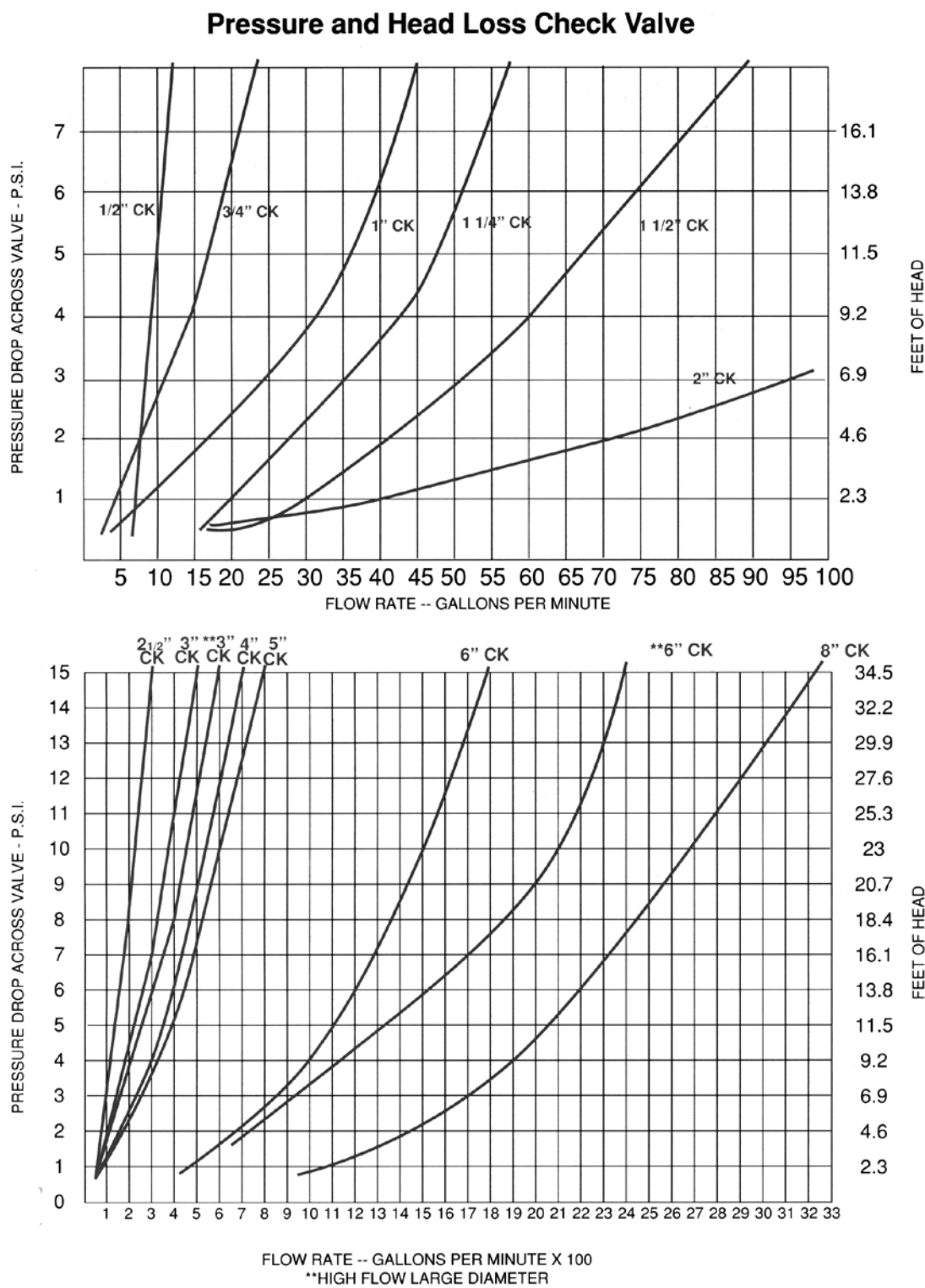
LF50S Series SILICON BRONZE Suction Strainer Features:

- Same as LF5000S Series plus:
- Full flow suction strainer.
- Made in U.S.A.



Part Number	Simmons	Size	Diameter	Length	Ctn Qty	List Price
LF50S1	491SB	1"	1 3/4"	4 3/4"	1	\$ 69.66
LF50S11/4	492SB	1 1/4"	2 5/16"	5 1/4"	1	97.68
LF50S11/2	493SB	1 1/2"	2 1/2"	6 5/16"	1	148.47
LF50S2	494SB	2"	3 1/8"	7 3/16"	1	235.14
LF50S21/2	495SB	2-1/2"	4"	9 3/8"	1	528.99

Applies to all Simmons LF5100 Series check valves on previous pages





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".
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn Qty	List Price
FV441	3/4" through 1 1/2"	100	\$ 16.94



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
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn Qty	List Price
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Brady Foot Valve - Spring Loaded

FV75	3/4"	12	\$ 34.60
FV100	1"	30	39.70
FV125	1-1/4"	32	56.45
FV150	1-1/2"	21	68.55

Brady Check Valve- Spring Loaded

LC75	3/4"	24	30.10
LC100	1"	24	33.26
LC125	1-1/4"	24	48.94
LC150	1-1/2"	12	58.62

Brady Foot Valve Strainer

FV75SN	3/4"	50	3.08
FV100SN	1"	50	4.37
FV125SN	1-1/4"	50	5.07
FV150SN	1-1/2"	50	4.74

Foot Valves - Cast Iron, Steel Suction Strainer



CLAYTON MARK®

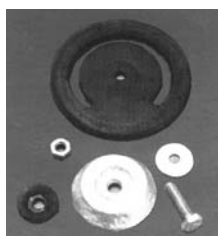
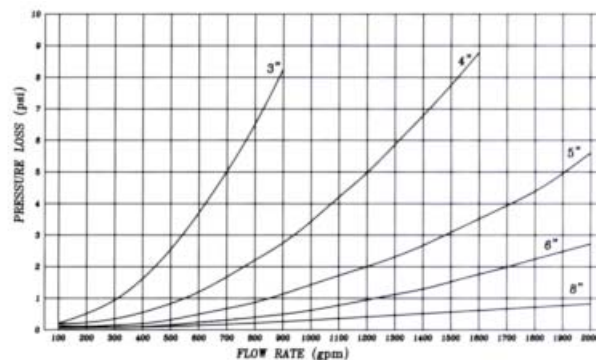
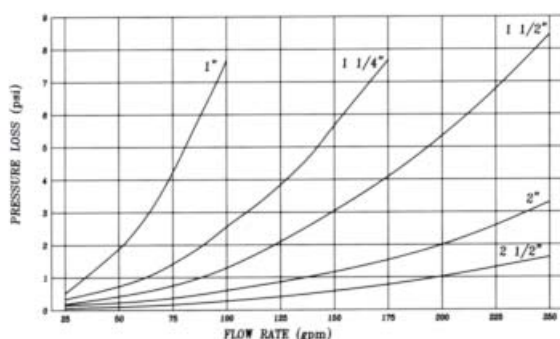
Cast Iron Foot Valve Features:

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



5400 Series

Part Number	Valve Size	Flapper OD Size	List Price
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	2-1/2"	5"	89.80
5400-3	3"	5 3/4"	93.99
5400-4	4"	7"	190.00
5400-6	6"	10 1/8"	814.95
5400-8	8"	12 7/8"	1564.71



CIRK Series

5400 Series Complete Repair Kits

- Contains all components required to replace inner flapper assembly.
- Includes valve weight, neoprene flapper, sealing washer, bolt, washer & 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	\$ 9.31				
1 1/4"	5400-11/4LR	10.88				
1 1/2"	5400-11/2LR	11.78	8367C	8.29		
2"	5400-2LR	16.72	8367D	11.78		
2 1/2"	5400-21/2LR	17.78	8367E	12.50		
3"	5400-3LR	25.07	8367F	29.63		
4"	5400-4LR	61.75	8367G	42.98	CIRK400	88.31
5"	5400-5LR	82.33	-	-		
6"	5400-6LR	101.29	8367J	70.87	CIRK600	187.56
8"	5400-8LR	158.53	8367K	97.44		



5400-LR Series

NO LEAD Yard Hydrants - Frost Proof



NO LEAD 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. All weather **powder coated** finish.
- Can be padlocked.
- Heavy, galvanized steel, corrosion resistant, 1" stand-pipe.
- Galvanized carbon steel connecting rod. Stainless steel operating rod.
- Long lasting Buna-N rubber plunger with solid brass core.
- Integral valve seat cast into brass valve body. 3/4" FPT connection with double bypass bottom valve for superior flow, less risk of debris blockage.
- 1/8" FPT back drain hole.
- Rated to 80 PSI, adjustable. See page 2.18 for adjustment procedure.
- Packed securely in individual heavy weight carton.
- Independent lab tested.
- Lead Free. **Third party certified to NSF/ANSI 372.**



CLAYTON MARK®

**Independent
LAB tested
flow rates
45 gpm @
50 psi**

Part Number	Bury Depth	Overall Length	Weight (lbs)	List Price
54511NL	1	42"	12.4	\$ 205.46
54512NL	2	54"	15.2	216.43
54513NL	3	66"	17.8	233.78
54514NL	4	78"	21.0	254.14
54515NL	5	90"	22.3	272.24
54516NL	6	102"	26.2	293.35
54518NL	8	126"	30.7	316.43



HVBAD75NL



Part Number	Description	Ctn/Case Qty	List Price
NO LEAD Vacuum Breaker Meets ASSE 1011			
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100	\$ 21.39



NLRBHE
Series



NLRBHT
Series

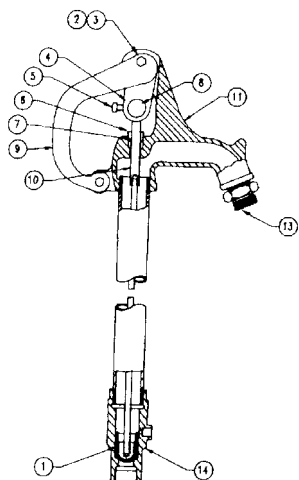


SSHE
Series



SSHT
Series

Part Number	Size	# Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Hydrant Elbow (INSxMIP)				
NLRBHE3/4	3/4"x 3/4"	5	10/100	\$ 19.82
NLRBHE1X3/4	1" x 3/4"	5	10/100	22.68
NLRBHE1	1" x 1"	5	10/100	25.68
NLRBHE11/4	1 1/4" x 1 1/4"	5	5/50	45.18
No Lead Cast Bronze Extra Long Hydrant Elbow (INS x MIP)				
NLXLRBHE1	1" x 1"	8	10/100	33.24
NLXLRBHE1X3/4	1" x 3/4"	10	10/100	32.19
No Lead Cast Bronze Hydrant Tee (INS x MIP)				
NLRBHT3/4	3/4" x 3/4"	6	10/100	29.82
NLRBHT1X3/4	1" x 3/4"	6	10/100	33.25
NLRBHT1	1" x 1"	6	10/100	38.91
Stainless Steel Hydrant Elbow (INSxMIP)				
SSHE3/4	3/4"x 3/4"	5	10/100	16.03
SSHE1X3/4	1" x 3/4"	5	10/100	23.82
SSHE1	1" x 1"	5	10/100	24.82
SSHE11/4	1 1/4" x 1 1/4"	5	10/50	49.37
Stainless Steel Hydrant Tee (INS x MIP)				
SSHT3/4	3/4" x 3/4"	4	10/100	24.32
SSHT1X3/4	1" x 3/4"	6	10/100	30.41
SSHT1	1" x 1"	4	10/100	38.39


CLAYTON MARK®


5451NL Series Hydrant Replacement Parts

Part Number	Item Number	Description	List Price
YRK1		Repair Kit (Items 1-8)	\$ 28.45
9175B	1	Plunger - BUNA N rubber/brass	7.15
9023B	2	Fulcrum Bolt - zinc plated steel	0.40
9023C	3	Fulcrum Nut - zinc plated steel	0.31
9023D	4	Links (set of 2) - zinc plated steel	2.91
9023E	5	Set Screw square head - zinc plated steel	0.53
9023A	6	Packing Nut - brass	4.27
29609G	7	Packing - graphite (2 - 1 old, 1 new style)	5.70
9023G	8	Connector - brass	7.22
2506K	9	Handle - powder coated cast iron	17.28
2222AHSS	10	Clevis Rod - SS NEW STYLE (for double bypass)	13.21
2500K	11	Head only - painted cast iron	42.68
382914	13	Hose Adapter - brass	9.72
381504	14	Valve Body - brass	62.68
2575K		Complete Head Assembly (Items 2-13)	92.41

3/4" 5451NL Hydrant Flow Rates

PSI	GPM
10	20 GPM @ 10 PSI
15	25.7 GPM @ 15 PSI
20	29.3 GPM @ 20 PSI
25	32.5 GPM @ 25 PSI
30	35 GPM @ 30 PSI
35	37.5 GPM @ 35 PSI
40	40 GPM @ 40 PSI
45	42.5 GPM @ 45 PSI
50	45 GPM @ 50 PSI

STEEL ROD (use with double bypass valve 5451 Series)

TA710009NS	54511 Rod (32.4")	13.35
TA710010NS	54512 Rod (44.4")	17.35
TA7100101NS	54513 Rod (56.4")	21.36
TA7100102NS	54514 Rod (68.4")	23.13
TA7100103NS	54515 Rod (80.4")	29.39
TA7100104NS	54516 Rod (92.4")	33.39
TA7100105NS	54518 Rod (116.4")	41.42

NOTE: All 5451NL Series Hydrants are preset at factory.

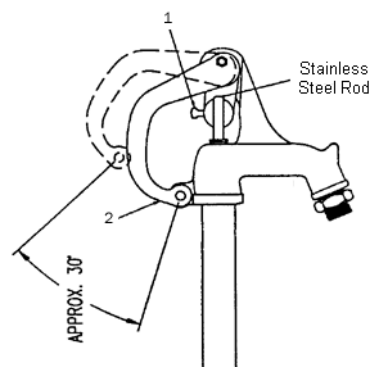
There should be no need for any adjustment on initial installation.

Adjust only if water does not shut off or hydrant does not operate properly.

5451NL HYDRANT ADJUSTMENT PROCEDURE

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

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.

NO LEAD Yard Hydrants - Frost Proof



NOT FOR SALE IN CALIFORNIA.
Does NOT meet CA Prop 65.



Deluxe NO LEAD Frost Proof Yard Hydrant

Features:

- FROST-PROOF - Shut-off valve operates below the frost line.
- Pistol type handle eliminates pinching.
- Can be padlocked.
- Wheel handle controls water flow at rate desired.
- Stainless steel extension rod will not rust or cut into packing.
- Water in standpipe drains out when hydrant is off.
- Aluminum nozzle threaded for standard 3/4" hose coupling.
- Inner parts removable without digging.
- 120 PSI maximum pressure.
- Individually boxed.




NL Series is Lead Free
and certified to
NSF/ANSI 372 <0.25% Pb
by weighted average.

NO LEAD Part No.	Bury Depth	Pipe Length	Overall Length	Ctn Qty	List Price
H800NL	1 ft	30"	40"	1	\$ 268.51
H801NL	1.5 ft	38"	48"	1	272.96
H802NL	2 ft	44"	54"	1	283.07
H803NL	3 ft	56"	66"	1	298.07
H804NL	4 ft	68.5"	78.5"	1	321.15
H805NL	5 ft	80.5"	90.5"	1	335.14
H806NL	6 ft	92.25"	102.25"	1	353.34
H807NL	7 ft	104"	114"	1	391.11
H808NL	8 ft	116"	126"	1	417.76



HV BAD 75NL



Part Number	Description	Ctn/Case Qty	List Price
NO LEAD Vacuum Breaker Meets ASSE 1011			
HV BAD 75NL	3/4" NL Brass w/ auto back drain fght x mght 10/100		\$ 21.39



NLRBHE
Series



NLRBHT
Series



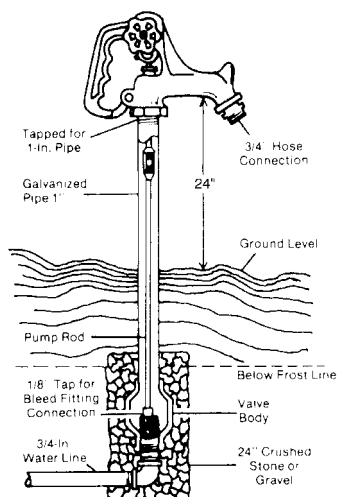
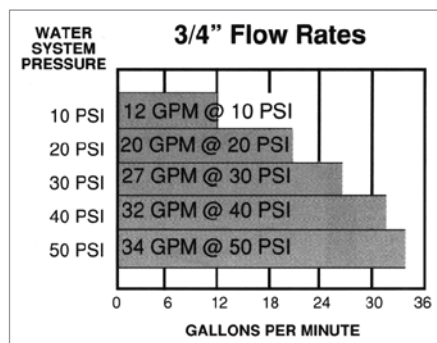
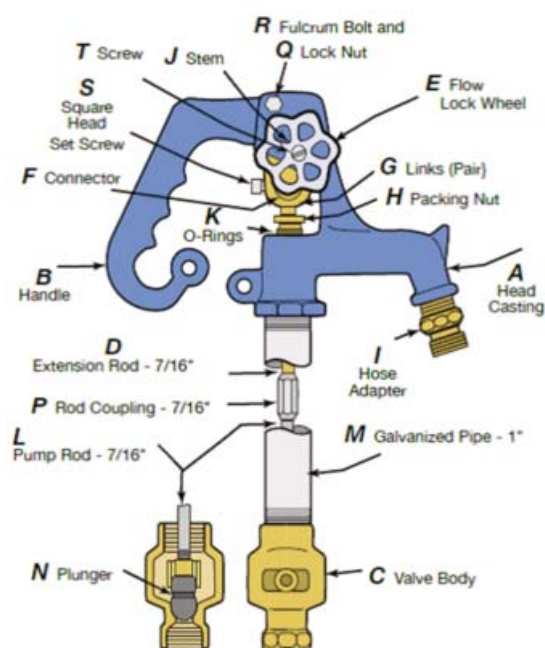
SSE
Series



SST
Series

Part Number	Size	# Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Hydrant Elbow (INSxMIP)				
NLRBHE3/4	3/4" x 3/4"	5	10/100	\$ 19.82
NLRBHE1X3/4	1" x 3/4"	5	10/100	22.68
NLRBHE1	1" x 1"	5	10/100	25.68
NLRBHE11/4	1 1/4" x 1 1/4"	5	5/50	45.18
No Lead Cast Bronze Extra Long Hydrant Elbow (INS x MIP)				
NLXLRBHE1	1" x 1"	8	10/100	33.24
NLXLRBHE1X3/4	1" x 3/4"	10	10/100	32.19
No Lead Cast Bronze Hydrant Tee (INS x MIP)				
NLRBHT3/4	3/4" x 3/4"	6	10/100	29.82
NLRBHT1x3/4	1" x 3/4"	6	10/100	33.25
NLRBHT1	1" x 1"	6	10/100	38.91
Stainless Steel Hydrant Elbow (INSxMIP)				
SSHE3/4	3/4" x 3/4"	5	10/100	16.03
SSHE1X3/4	1" x 3/4"	5	10/100	23.82
SSHE1	1" x 1"	5	10/100	24.82
SSHE11/4	1 1/4" x 1 1/4"	5	10/50	49.37
Stainless Steel Hydrant Tee (INS x MIP)				
SSHT3/4	3/4" x 3/4"	4	10/100	24.32
SSHT1x3/4	1" x 3/4"	6	10/100	30.41
SSHT1	1" x 1"	4	10/100	38.39

Replacement Parts For H800 Series Hydrants



Part Number	Reference Number	Name of Part	List Price
8820	A	Head	\$ 83.17
8821	B	Handle	26.77
8822SB	C	Valve Body NL	97.31
8843	D	Stainless Steel Extension Rod 7/16"NL	18.67
8824	E	Hand Wheel	5.27
8825 *	F	Connector - brass	42.74
8826 *	G	Links(pair) - brass	22.64
8827 *	H	Packing Nut - brass	15.93
8844	I	Aluminum Hose Adapter NL	15.23
8829	J	Brass Stem, Square head	6.31
8839 *	K	O-Ring Packing, BUNA-N (pair)	4.69
8814-0	L	7/16" Pump Rod for H800NL	38.73
8814-1		7/16" Pump Rod for H801NL	48.58
8814-2		7/16" Pump Rod for H802NL	58.50
8814-3		7/16" Pump Rod for H803NL	74.69
8814-4		7/16" Pump Rod for H804NL	90.49
8814-5		7/16" Pump Rod for H805NL	106.39
8814-6		7/16" Pump Rod for H806NL	121.98
8814-7		7/16" Pump Rod for H807NL	137.85
8814-8		7/16" Pump Rod for H808NL	153.48
8815-0	M	Pipe Casing for H800NL	44.87
8815-1		Pipe Casing for H801NL	59.16
8815-2		Pipe Casing for H802NL	70.43
8815-3		Pipe Casing for H803NL	89.23
8815-4		Pipe Casing for H804NL	107.94
8815-5		Pipe Casing for H805NL	126.66
8842 *	N	Plunger - one piece NL	26.89
8834	P	Rod Coupling, 7/16"	7.49
8301 *	Q	Lock Nut - stainless steel	1.63
8836 *	R	Fulcrum Bolt - stainless steel	5.93
8837 *	S	Square Head Set Screw - stainless steel	2.87
8610	T	Screw for Hand Wheel	2.13
840SB		Head, Complete NL	147.09
850SB		Parts Kit NL (* Included)	74.18

Ball Valves - NO LEAD Brass



HFBV6-NL Series



MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	NL Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass Full Port Ball Valve

Features:

- Heavy pattern NO LEAD forged brass construction.
- Full port allows maximum flow & minimum pressure drop or turbulence.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P.
- **CSA Certified (TXT only)**
- **Third party certified to NSF/ANSI 372.**



Part Number Threaded	Size	Ctn/Case Qty	List Price Threaded	Part Number Sweat	List Price Sweat
HFBV6-25TNL	1/4"	15/120	\$ 17.36		
HFBV6-38TNL	3/8"	15/120	17.04		
HFBV6-50TNL	1/2"	15/120	22.34	HFBV6-50SNL	\$ 19.51
HFBV6-75TNL	3/4"	10/60	33.31	HFBV6-75SNL	31.05
HFBV6-100TNL	1"	8/48	54.06	HFBV6-100SNL	51.83
HFBV6-125TNL	1 1/4"	4/24	87.23	HFBV6-125SNL	78.63
HFBV6-150TNL	1 1/2"	2/24	136.56	HFBV6-150SNL	94.71
HFBV6-200TNL	2"	2/12	186.02	HFBV6-200SNL	130.62
HFBV6-250TNL	2 1/2"	3/6	397.44		
HFBV6-300TNL	3"	2/4	525.40		
HFBV6-400TNL	4"	1/2	910.00		

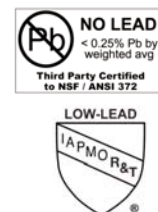


HFBV4-PEXNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Packing	PTFE
Packing Nut	Brass
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass FULL Port Ball Valve with PEX Connections Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE packing.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- PEX ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50PEXNL	1/2"	25/100	\$ 12.15
HFBV4-75PEXNL	3/4"	10/60	16.91
HFBV4-100PEXNL	1"	10/40	29.19

Ball Valves - NO LEAD Brass



HFBV4-PEXSWNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valve with PEX x SWEAT Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- PEX x SWEAT ends for use with PEX tubing to copper tubing connections.
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50PEXSWNL	1/2"	25/100	\$ 11.00
HFBV4-75PEXSWNL	3/4"	10/60	11.18



HFBV4-CENL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valves with F1960 Cold Expansion Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G. non-shock; **125 PSI** S.W.P.
- F1960 Cold Expansion ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn/Case Qty	List Price
HFBV4-50CENL	1/2"	25/100	\$8.06
HFBV4-75CENL	3/4"	10/60	18.54
HFBV4-100CENL	1"	10/40	20.39

Ball Valves - NO LEAD Brass, Stainless Steel



**HFBV6-INL
Series**

MATERIAL SPECIFICATIONS

Handle	Zinc Plated Steel
Handle Nut	Zinc Plated Steel
Stem Packing	PTFE
Packing Nut	Brass
Ball	1/2"-1" Lead Free Brass 1 1/4" SS #316
Seats	PTFE
Body	NL Brass
End Adapter	NL Brass

NO LEAD Forged Brass FULL Port Ball Valve with HOSE BARBS Connection Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 PSI W.O.G. non-shock; 150 PSI S.W.P.**
- Insert hose barb ends for use with polyethylene pipe connections.
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn/Case Qty	List Price
HFBV6-50INL	1/2"	50/80	\$ 21.41
HFBV6-75INL	3/4"	6/60	38.57
HFBV6-100INL	1"	6/36	69.80
HFBV6-125INL	1 1/4"	5/20	99.05



**HFBV6-IFTNL
Series**

MATERIAL SPECIFICATIONS

Handle	Zinc Plated Steel
Handle Nut	Zinc Plated Steel
Stem Packing	PTFE
Packing Nut	Brass
Ball	3/4"-1" Lead Free Brass 1 1/4" SS #316
Seats	PTFE
Body	NL Brass
End Adapter	NL Brass

NO LEAD Forged Brass FULL Port Ball Valve with HOSE BARB x FPT Connection Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 PSI W.O.G. non-shock; 150 PSI S.W.P.**
- Insert hose barb x FPT ends for use with polyethylene pipe and IPS connections.
- **Third party certified to NSF/ANSI 372.**



Part Number	Size	Ctn/Case Qty	List Price
HFBV6-75IFTNL	3/4"	6/60	\$ 27.25
HFBV6-100IFTNL	1"	6/36	73.96
HFBV6-125IFTNL	1 1/4"	5/20	74.98



SSBV Series

MATERIAL SPECIFICATIONS

Handle Nut	Stainless Steel
Handle	Stainless Steel
Gland Follower	Stainless Steel
Stem Packing	PTFE
Packing Nut	Stainless Steel
Ball	Stainless Steel
Seats	PTFE
Body	Stainless Steel
End Adapter	Stainless Steel
Seal Gasket	PTFE

Stainless Steel Full Port Ball Valve Features:

- 304 Stainless steel ball valves
- Full Port, 1000 psi WOG
- Locking Handle (padlock not included)
- Investment castings.
- PTFE seal and packing.
- Blow-out proof stem.
- FPT x FPT
- **Third party certified no lead to NSF/ANSI 372.**



Part Number	Description	Size T x T	Case Qty	List Price
SSBV25TLH	Stainless 1000#	1/4"	2/80	\$ 24.52
SSBV38TLH	Stainless 1000#	3/8"	2/80	22.65
SSBV50TLH	Stainless 1000#	1/2"	4/80	26.80
SSBV75TLH	Stainless 1000#	3/4"	4/60	39.28
SSBV100TLH	Stainless 1000#	1"	4/40	57.24
SSBV125TLH	Stainless 1000#	1 1/4"	4/20	88.91
SSBV150TLH	Stainless 1000#	1 1/2"	2/12	113.25
SSBV200TLH	Stainless 1000#	2"	2/8	172.25
SSBV250TLH	Stainless 1000#	2 1/2"	2/4	313.27
SSBV300TLH	Stainless 1000#	3"	2/4	516.41
SSBV400TLH	Stainless 1000#	4"	2/4	852.56

Supply Valves - NO LEAD Chrome Plated Brass PEX & F1960 Cold Expansion

NO LEAD Brass Chrome Plated Supply Valve

with PEX and F1960 COLD EXPANSION Connections Features:

- Chrome Plated No Lead DZR Brass.
- 1/4 Turn Plastic Oval Handle.
- For use with PEX and Cold Expansion tubing connections.
- Maximum pressure rating: 125 psi
- Maximum temperature rating: 180°F (82°C)
- Stem Packing: Double NBR o-ring.
- Seat Material: PTFE
- **Third party certified to NSF/ANSI 372.**



Angle Stop Valve



Straight Stop Valve



CE Angle Stop Valve



CE Straight Stop Valve

Part Number	Old Part Number	Size Description	Inner/Ctn Qty	List Price
ANGLE STOP Valve		PEX Insert x Compression		
CPSVA1/2PX1/4CNL	70-30-10-072NL	1/2 x 1/4 Angle Stop Ch Plated NL	12/144	\$ 9.11
CPSVA1/2PX3/8CNL	70-20-20-074NL	1/2 x 3/8 Angle Stop Ch Plated NL	12/144	9.28
STRAIGHT STOP Valve		PEX Insert x Compression		
CPSVS1/2PX3/8CNL	70-20-10-074NL	1/2 x 3/8 Straight Stop Ch Plated NL	12/144	9.28
ANGLE STOP Valve		F1960 Cold Expansion Insert x Compression		
CPSVA1/2CEX1/4CNL		1/2 x 1/4 Angle Stop Ch Plated NL	12/144	9.11
CPSVA1/2CEX3/8CNL		1/2 x 3/8 Angle Stop Ch Plated NL	12/144	9.28
STRAIGHT STOP Valve		F1960 Cold Expansion Insert x Compression		
CPSVS1/2CEX3/8CNL		1/2 x 3/8 Straight Stop Ch Plated NL	12/144	9.28

BOILER DRAINS • HOSE BIBBS

- 125 PSI WOG (working pressure - non-shock),
200 PSI WOG (1/4 turn ball valve hose bibbs)
- All valves shown are UPC rated and third party certified to NSF/ANSI 372.
- Imported



HNKDNL Series



HBDNL Series



HBD-SBNL Series



IBD-SBNL Series



EIBD-SBNL Series



IBDBVNL Series



HHBNL Series



HHBNHTNL
Series



IHBB NL Series



IHBBNHTNL
Series



IHBBSS Series



IHBBSSNHT Series

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

Part Number	Size	Description	Ctn/Case Qty	List Price
NO LEAD Brass No-Kink Boiler Drains				
HNKD50NL ☺	1/2"	mip x ght	12/144	\$ 17.95
HNKD75NL	3/4"	mip x ght	12/144	19.76

NO LEAD Brass Boiler Drains

HBD50NL ☺	1/2"	mip x ght	12/144	18.79
HBD75NL	3/4"	mip x ght	12/144	20.04
HBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144	22.32
HBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144	23.36

NO LEAD Brass Full Flow Boiler Drains - ECONOMY

EIBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144	20.71
EIBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144	22.25

NO LEAD Brass Full Flow Boiler Drains

IBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144	25.45
IBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144	26.20

NO LEAD 1/4 turn Ball Valve Brass Boiler Drain w/ Butterfly Handle

IBDBV50NL ☺	1/2"	mip x ght	12/144	24.76
IBDBV75NL	3/4"	mip x ght	12/144	27.69

NO LEAD Brass Hose Bibbs

HHB50NL ☺	1/2"	mip x ght	12/144	20.14
HHB75NL	3/4"	mip x ght	12/144	21.48

NO LEAD Brass Hose Bibbs - No Garden Hose Thread, Sampling Valve

HHB50NHTNL ☺	1/2"	mip x spout	12/144	19.79
HHB75NHTNL	3/4"	mip x spout	12/144	22.27

NO LEAD Brass 1/4 turn Ball Valve Hose Bibb w/ T Handle - 200 psi WOG non-shock

IHBB50NL ☺	1/2"	1/4 turn NL mip x ght	12/144	17.79
IHBB75NL	3/4"	1/4 turn NL mip x ght	12/144	20.97

NO LEAD Brass 1/4 turn Ball Valve Brass Hose Bibbs w/ T Handle - 200 psi WOG non-shock - No garden hose thread - Sampling valve

IHBB50NHTNL ☺	1/2"	1/4 turn NL mip x spout	12/144	17.78
IHBB75NHTNL	3/4"	1/4 turn NL mip x spout	12/144	20.98

304 STAINLESS STEEL 1/4 turn Ball Valve Hose Bibbs w/ T Handle - 200 psi WOG non-shock (with stainless steel T handle)

IHBB50SS	1/2"	STAINLESS mip x ght	12/144	27.74
IHBB75SS	3/4"	STAINLESS mip x ght	12/144	28.42

304 STAINLESS STEEL 1/4 turn Ball Valve Hose Bibbs w/ T Handle - 200 psi WOG non-shock - No garden hose thread - Sampling valve

IHBB50SSNHT	1/2"	STAINLESS mip x spout	12/144	27.74
IHBB75SSNHT	3/4"	STAINLESS mip x spout	12/144	28.42

BENT NOSE GARDEN • ANGLE SILL COCKS

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



HBNGNL Series



HSCNL Series

Part Number	Size	Description	Ctn/Case Qty	List Price
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NO LEAD Brass Full Flow Bent Nose Garden Valves (CA AB1953 certified)

HBNG50NL	1/2"	fip x ght	12/72	\$ 31.82
HBNG75NL	3/4"	fip x ght	12/72	32.66
HBNG100NL	1"	fip x ght	12/72	33.60

NO LEAD Brass Angle Sill Cocks (CA AB1953 certified)

HSC50TNL	1/2"	fip x ght	12/144	22.77
HSC75TNL	3/4"	fip x ght	12/144	24.16

No Lead Brass Vacuum Breaker Features:

- HVBAD has automatic back drain and can be manually drained.
- ASSE 1011
- **Third party certified to NSF/ANSI 372.**



HVB75NL



HVBAD75NL

Part Number	Description	Ctn/Case Qty	List Price
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NO LEAD Vacuum Breaker

HVB75NL	3/4" NL Brass fght x mght	10/100	\$ 15.54
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100	21.39

Butterfly Valves - PVC Sch 80

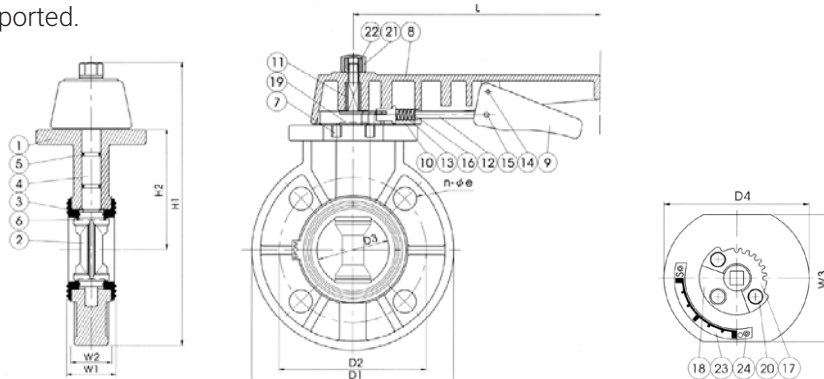


PBFV Series

ISO 9002

PVC Sch 80 Butterfly Valves Features:

- 150 PSI working pressure.
- PVC body, polypropylene disc, and EPDM seat and o-ring.
- Flanged end design.
- Corrosion resistant.
- Excellent flow characteristics.
- Ideally suited for flow control in a minimum piping space.
- Clear indication of disc opening degree.
- Built in seat requires no additional gaskets between flanges.
- Manufactured for AGI in an ISO 9002 facility.
- Imported.



MATERIAL SPECIFICATIONS

No.	Part	Material	Qty
1	Body	PVC	1
2	Disc	PP	1
3	Seat Seal	EPDM	1
4	Stem	SS 410	1
5	O-ring	EPDM	2
6	O-ring	EPDM	2
7	Inserted Nut	SS 41	3
8	Large Handle	ABS	1
9	Small Handle	ABS	1
10	Spring Lock	ABS	1
11	Handle Insert	SS	1
12	Handle Lever	SS 304	1
13	Spring	SS 304	1
14	Spring Pin	SS 304	1
15	Spring Pin	SS 304	1
16	Washer	SS 304	1
17	Locking Plate	SS 304	1
18	Gear Seat	PP + GF	1
19	Washer	SS 304	1
20	Bolt	SS 304	3
21	Nut	PVC	1
22	Insert Nut	C3604	1
23	Level	SS 304	1
24	Rivet	SS	2

CV (GPM/(1 lbf/in²)^{1/2})
Opening Rate: 90°

SIZE	CV
2"	100.87
2 1/2"	137.82
3"	224.08
4"	409.51
5"	523.92
6"	1243.00

DIMENSIONS \ SIZE (in)

	2"	2 1/2"	3"	4"	5"	6"	8"
D1	6.44	7.22	7.80	8.93	9.98	11.12	13.38
D2	4.70	5.44	5.94	7.43	8.42	9.42	11.64
D3	2.20	2.71	3.10	4.01	5.11	6.02	7.91
D4	4.13	4.66	4.84	5.26	6.40	6.64	7.84
L	7.92	7.92	7.92	9.91	11.86	11.86	11.86
H1	9.59	10.37	10.76	12.40	15.21	15.80	18.17
H2	4.02	4.41	4.49	5.27	5.85	6.90	8.19
W1	1.67	1.85	1.85	2.23	2.57	2.88	3.41
W2	1.35	1.45	1.45	1.83	2.22	2.53	3.06
W3	3.67	3.67	3.66	3.89	4.31	3.93	4.76
n-oe	.741	.741	.741	.741	.858	.858	.858

Part Number	Description	Ctn Qty	List Price
PBFV2	2" PVC Butterfly valve	4	\$ 278.64
PBFV21/2	2 1/2" PVC Butterfly valve	4	285.44
PBFV3	3" PVC Butterfly valve	4	281.32
PBFV4	4" PVC Butterfly valve	4	320.58
PBFV5	5" PVC Butterfly valve	4	462.32
PBFV6	6" PVC Butterfly valve	4	536.35
PBFV8	8" PVC Butterfly valve	1	782.37

Replacement handles

PBFV2 HANDLE	2" PVC valve handle	1	30.94
PBFV21/2 HANDLE	2 1/2" PVC valve handle	1	30.94
PBFV3 HANDLE	3" PVC valve handle	1	30.94
PBFV4 HANDLE	4" PVC valve handle	1	38.26
PBFV5 HANDLE	5" PVC valve handle	1	51.93
PBFV6 HANDLE	6" PVC valve handle	1	51.93
PBFV8 HANDLE	8" PVC valve handle	1	51.93

Flanges, Bolt Kits, Gaskets

PVC Sch 80 Van Stone Flange Features:

- Two-piece van stone socket style.
- Class 150, Schedule 80
- Improve the security and safety of connections between pipes, valves & fittings.
- Imported - Manufactured for AGI in an ISO 9002 facility.



PF Series

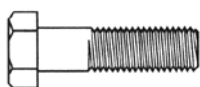
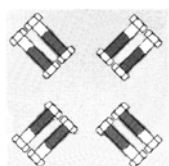
ISO 9002

	DIMENSIONS \ SIZE (in)						
	2"	3"	4"	6"	8"	10"	12"
D1	5.93	7.49	8.93	11.08	13.38	15.83	18.76
D2	4.72	5.93	7.45	9.40	11.62	14.12	16.85
D3	2.96	4.21	5.19	7.45	9.28	12.09	14.20
d	1.99	3.00	3.98	6.08	7.96	9.98	11.97
d1	2.35	3.46	4.45	6.55	8.53	10.64	12.62
d2	2.37	3.48	4.48	6.59	8.57	10.68	12.67
H	1.68	2.11	2.50	3.32	4.60	5.85	7.45
T	.78	1.01	1.09	1.25	1.40	1.64	1.64
I	1.49	1.86	2.23	2.97	3.98	4.80	6.44
n-oe	.741	.741	.741	.858	.858	.936	.975

Part Number	Description	Ctn Qty	List Price
PF2	2" Flange	60	\$ 14.69
PF2 1/2	2 1/2" Flange	36	25.08
PF3	3" Flange	30	24.26
PF4	4" Flange	20	32.47
PF6	6" Flange	10	52.35
PF8	8" Flange	4	84.66
PF10	10" Flange	2	113.14
PF12	12" Flange	2	134.22

Bolt Kit Features:

- For use with cast iron & PVC butterfly valves. BF8200, HBFV and PBFV Series
- ASTM-A307 grade black steel bolts and A563 finished nuts.
- Washers and Gaskets NOT included- Available upon request.

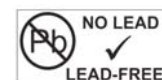


BBK Series

Part Number	Valve Size	Bolt Size	Bolts/Kit	Ctn Qty	List Price
BBK2	2"	5/8" x 5"	4	16	\$ 35.28
BBK2.5/3	2 1/2" and 3"	5/8" x 5 1/2"	4	16	35.19
BBK4	4"	5/8" x 6"	8	8	65.71
BBK5/6	5" and 6"	3/4" x 6 1/2"	8	8	97.20
BBK8	8"	3/4" x 7"	8	8	126.52
BBK10	10"	7/8" x 7 1/2"	12	3	276.74
BBK12	12"	7/8" x 8 1/2"	12	3	325.68

Red Rubber Gasket Features:

- For use with butterfly valves, Sch 80 flanges
- Red rubber, 150 lbs., 1/8" full face.



GSK Series

Part Number	Valve Size	List Price	Part Number	Valve Size	List Price
GSK1 1/2R	1 1/2"	\$ 20.77	GSK5R	5"	\$ 27.06
GSK2R	2"	17.44	GSK6R	6"	27.17
GSK2 1/2R	2 1/2"	20.50	GSK8R	8"	38.00
GSK3R	3"	25.73	GSK10R	10"	50.17
GSK4R	4"	25.07	GSK12R	12"	82.21



Harvard Series Housing Features:

- Available in slim and large diameter styles.
- 10" and 20" lengths. Blue and Clear sumps.
- All housings have a pressure relief button.
- 3/4" inlet/outlets on slimline, 1" inlet/outlets on large diameter.
- Maximum temperature rating to 125°F and pressure rating to 125 psi.
- Recommended maximum operating pressure 85 psi for slim style and 90 psi for large diameter.
- Filter housings are bulk packed. Cartridges available separately.



**Double o-ring on
standard slimline**

Standard Housing Features:

- Standard Housings manufactured from NSF listed, FDA grade 100% polypropylene (polycarbonate for clear).
- Patented double EPDM o-ring seals on slimline assures long term seal. Single o-ring seal on large diameter.



Housing with Stainless Steel Inserts Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene, polycarbonate or tinted AS for clear.
- 10" length. Blue or clear/tinted blue sumps.
- **Stainless Steel** threaded inserts on inlets and outlets.
- Single EPDM o-ring seals assures long term seal.



**Single o-ring
on SS inserts**



Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
SLIM STYLE Housing only with pressure relief for 2 1/2" OD cartridges							
HH75BSLB	Slim	Blue	Black	3/4"	10"	12	\$ 26.58
HH75BSLB20	Slim	Blue	Black	3/4"	20"	8	80.18
HH75CSLWP	Slim	Clear	Black	3/4"	10"	12	43.98
LARGE DIAMETER STYLE Housing only with pressure relief for 4 1/2" O.D. cartridges							
HHLD10BP	Lg. Diam	Blue	Black	1"	10"	6	85.36
HHLD10BP20	Lg. Diam	Blue	Black	1"	20"	6	148.21
HHLD10CP	Lg. Diam	Clear	Black	1"	10"	6	145.93
SLIM STYLE Housing only with SS inserts, pressure relief for 2 1/2" OD cartridges							
HH75BSLBSS	Slim	Blue	Black	3/4" SS insert	10"	12	\$ 49.00
HH75CSLWPSS	Slim	Clear Tint	Black	3/4" SS insert	10"	12	51.00
LARGE DIAMETER STYLE Housing only with SS inserts, pressure relief for 4 1/2" O.D. cartridges							
HHLD10BPSS	Lg. Diam	Blue	Black	1" SS insert	10"	6	119.64
HHLD10CPSS	Lg. Diam	Clear	Black	1" SS insert	10"	6	149.11

WARNING: Prevent Freezing. Never exceed recommended maximum operating pressures. Use proper pressure reducing valves to protect filter housings from excessive pressure surges.

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.



Standard Filter Housing Kit Features:

- Slim and Large diameter styles.
- Complete with full size white, powder coated steel mounting bracket, stainless steel screws, sump removal wrench, extra o-ring. (2 o-rings on slim, 1 o-ring on large diameter.)
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.



Part Number	Style	Sump	Head	Inlet/Outlet	Length	Case Qty	List Price
HFHP75BSLBP	Slim	Blue	Black	3/4"	10"	12	\$ 54.65
HFHP75BSLBP20	Slim	Blue	Black	3/4"	20"	8	80.36
HFHP75CSLWP	Slim	Clear	Black	3/4"	10"	12	58.88
HFHPLD10BP	Large Dia	Blue	Black	1"	10"	6	131.43
HFHPLD10BP20	Large Dia	Blue	Black	1"	20"	6	196.54
HFHPLD10CP	Large Dia	Clear	Black	1"	10"	6	184.05

Stainless Steel Insert Filter Housing Kit Features:

- Slim and Large diameter styles **with stainless steel** threaded inserts.
- Complete with full size white, powder coated steel mounting bracket, stainless steel screws, sump removal wrench and extra o-ring.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.



Part Number	Style	Sump	Head	Inlet/Outlet	Length	Case Qty	List Price
HFHP75BSLBPSS	Slim	Blue	Black	3/4" SS	10"	10	\$ 56.96
HFHP75CSLWPSS	Slim	Clear	Black	3/4" SS	10"	10	73.43
HFHPLD10BPSS	Large Dia	Blue	Black	1" SS	10"	6	139.00
HFHPLD10CPSS	Large Dia	Clear	Black	1" SS	10"	6	209.86



HS-BA Series

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
Mounting Brackets for Harvard Series Filter Housings					
Includes stainless steel head and wall mounting screws					
HS10BA	Slim (L)	Powder coated steel	White		\$ 11.99
HS25BA	Large Diam. (L)	Powder coated steel	White		58.07



HW Series



HOR Series

Wrenches for Harvard Series Filter Housing sump removal

HWSL	Slim	Polypropylene	White	2.57
HWLD	Large Diam.	Polypropylene	White	9.99

O-rings for Harvard Series Filter Housings

HOR4	Slim	EPDM	1.85
HOR5	Large Diam.	EPDM	4.39
HOR4SS	Slim w/ SS Insert	EPDM	1.85
HOR5SS	Large Diam w/SS Insert	EPDM	4.21

Economy Filter Housings & Kits



EH Series



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 with EPDM o-ring seals.
- 3/8" - 1 1/2" inlet/outlets.
- All housings have a pressure relief button.
- Slim and Standard rated for temperature to 125°F, pressures to 125 psi.
- Filter housings are bulk packed. Cartridges available separately.

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.

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	\$ 59.72
EH50BSLBP	Slim	Blue	Black	1/2"	10"	12	58.12
EH75BSLBP	Slim	Blue	Black	3/4"	10"	12	39.63
Valve-in-Head STANDARD STYLE Housings for 2 1/2" OD cartridges							
PFH75VC	Standard VIH*	Clear	Blue	3/4"	10"	12	154.76
STANDARD STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH75BP	Standard	Blue	Black	3/4"	10"	12	72.92

* Pentek



EFHP75VCP



Filter Housing Kit Features:

- Slim, VIH, Standard and Large diameter styles.
- EFHP75VP has stainless steel inserts and allows bypass during cartridge replacement.
- 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
EFHP75VCP	Standard VIH*	Clear	3/4"	10"	YES	4	176.16
EFHP75BP	Standard	Blue	3/4"	10"	YES	4	97.25
EFHP75VP	Std VIH w/SS Inserts	White	3/4"	10"	YES	6	185.77

* Pentek

Economy Filter Accessories



ES-BA Series



EW Series



EOR Series



EIC100



Part Number	Fits Style	Material	Color	Ctn Qty	List Price
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Mounting Brackets for EH Series Filter Housings

Includes stainless steel head and wall mounting screws

ES10BA	EH Slim (L)	Aluminum	White		\$ 9.71
ES15BA	EH Valve in Head (U)	Aluminum	--		18.16
ES20BA	EH Standard (L)	Aluminum	White		23.65
ES25BA	EH Large Diam. (L)	Aluminum	---		91.67

Wrenches for EH Series Filter Housing sump removal

EWSL	Slim	Polypropylene	White		5.99
EWSTND	Standard	Polypropylene	White		5.78
EWLD	Large Diam.	Polypropylene	Black		14.49

O-rings for EH PFH Series Filter Housings

EOR4	Slim	EPDM			9.14
PFOR75	VIH (PFH75VC)	EPDM			14.49
EOR8	Standard	EPDM			4.95
EOR5	Large Diam.	EPDM			8.88

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	\$ 20.57
EIC100JG	2"	10"	1/4" plastic or copper tubing	1/4" John Guest	25	28.48



HROK4



HROK5



HARVARD Residential Reverse Osmosis 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 gal/day (4 stage) or 75 gal/day (5 stage) capacity. (Note: Feed water requirements below)
- NSF Standard 58 listed, CE certified, polypropylene tank rated to 100 psi.
- All fittings, tubing, housings, valves, cartridges and membranes are NSF listed or made from NSF listed materials.
- Automatic shut-off valve made from NSF listed materials.
- Lead free, long reach chrome faucet included. Meets California AB1953 requirements.
- Cartridges, valves, fittings, sump wrench, white mounting bracket and complete installation instructions included.

NOTE: Every HROK, HROK-BP has been pressure and water tested after assembly. Due to the variety of installation methods, environments and systems components, standard AGI warranty does not apply to HROK, HROK-BP systems or components.

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: 40-85 psi (min/max)
- pH: 4-10

HROK Systems Include:

- NSF listed John Guest style quick connect fittings.
- Filter housings made from NSF listed materials.
- NSF Standard 58, CE listed polypropylene tank. (10" diam x 15" high)
- 5 micron sediment pre-filter cartridge.
- Activated GAC granular carbon cartridge (5 stage)
- Activated carbon block cartridge.
- NSF listed Dow/Filmtec thin film membrane. 50 gpd (4 stage) 75 gpd (5 stage).
- Inline post carbon polishing cartridge.
- Automatic shutoff valve made with NSF materials.
- Long reach, lead free chrome faucet, meets California AB1953.
- Sump wrench, tubing, service valve, check valve, ball valves, flow restrictor included.
- Complete installation instructions.
- 5 stage with booster pump for sink water pressure lower than 40 psi.
- Booster pump rated to 125 psi with 110V/60 Hz, 24VDC power.

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.

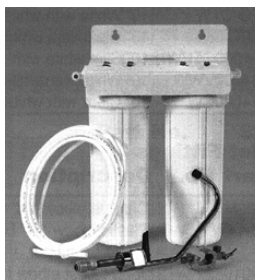
The Benefits (nominal ion rejection characteristics)*

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%

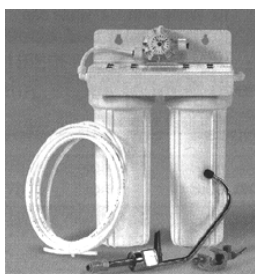
* The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperture, pressure & TDS content of the feed water.

Part No.	Description	List Price
HROK4	4 stage RO system, 50 gpd	\$ 548.25
HROK5	5 stage RO system, 75 gpd	552.92
HROK5BP	5 stage RO system, 75 gpd w/ booster pump	867.24
HROK4MEM50	Dow/Filmtec TFC membrane 50 gpd	148.99
HROK5MEM75	Dow/Filmtec TFC membrane 75 gpd	163.33
HROKTANK32	3.2 gal plastic tank, NSF58/CE	159.84
HROKASV	Auto shutoff valve	11.81

Economy Drinking Water Systems



DWS2



DWS2M



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.

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.

Part No.	Description	List Price
DWS2	2 Stage system (no Auto shut-off)	\$ 257.38
DWS2M	2 Stage system w/ Auto shut-off	350.83

Available Carbon
Filter Cartridges
See page 4.19-4.20
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	No	No	No	No	Yes	Yes
Giardia & Cryptosporidium	No	No	No	Yes	Yes	Yes
VOC Reduction	No	No	No	No	No	Yes
Lead & Mercury	No	No	No	No	No	Yes

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


DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.


PFH75B

PFH75C
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	\$ 85.72
PFH75C	Standard	Clear	Black	3/4" NPT	12 1/4"	5 1/8"	12	115.20
PFH75B20	Standard	Blue	Black	3/4" NPT	22 3/8"	5 1/8"	8	154.29


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	\$ 67.55
PFH38SLC5	Slimline	Clear	Blue	3/8" NPT	7"	4 3/8"	12	102.25
PFH38SLB	Slimline	Blue	Black	3/8" NPT	11 3/4"	4 3/8"	12	39.87
PFH38SLC	Slimline	Clear	Blue	3/8" NPT	11 3/4"	4 3/8"	12	72.54

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.


ISO 9001

PFH75V Series

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.
- Includes 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	\$ 154.90
PFH75VC	VIH	Clear	Blue w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	149.34
PFH75VB20	VIH	Blue	Black w/ VIH	3/4" NPT	22 3/8"	5 1/8"	8	226.66


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	Red	Red	3/4" NPT	12 1/8"	5 1/8"	12	\$ 452.35


Big Blue

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	\$ 136.11
CPFHD75BB	Big Blue®	Blue	Black	3/4" NPT	23 3/8"	7 1/4"	4	192.41
CPFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	6	133.54
PFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	1	188.76
PFHD10HFP20	Big Blue®	Blue	Black	1" NPT	23 3/8"	7 1/4"	4	233.67
CPFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	6	146.12
PFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	4	184.20
PFHD15HFP20	Big Blue®	Blue	Black	1 1/2" NPT	23 3/8"	7 1/4"	4	241.84

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	0.5 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.

Sediment Cartridges:

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


ISO 9001
String Wound Cartridges
PFWP & PFCW Series String Wound Polypropylene Cartridges

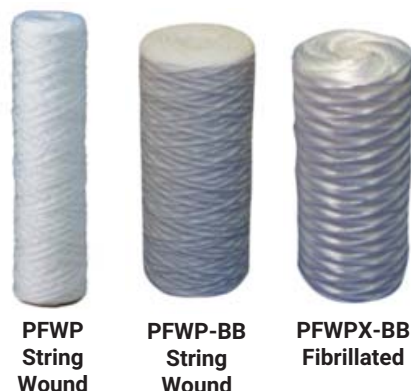
- Ideal for fine sediment reduction, including sand, silt, scale and rust.
- These cord wound cartridges are compatible with most acids, alkalies, corrosive fluids & gases.
- Precise winding pattern ensures high efficiency rate and high dirt loading capacity.
- Core material: FDA Polypropylene
- Max 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	\$ 8.94
PFWP5	Polypropylene	Wound	5	5	9-7/8"	30	8.87
PFWP10	Polypropylene	Wound	10	5	9-7/8"	30	8.87
PFWP20	Polypropylene	Wound	20	5	9-7/8"	30	8.87
PFWP25	Polypropylene	Wound	25	5	9 7/8"	30	8.94
PFWP30	Polypropylene	Wound	30	5	9-7/8"	30	8.87
PFWP50	Polypropylene	Wound	50	5	9-7/8"	30	9.47
PFCWMF	Polypropylene	Wound	med. fine	10	9 7/8"	24	14.29
PFCW50	Polypropylene	Wound	50	10	9-7/8"	24	17.21
PFWP1-20	Polypropylene	Wound	1	5	20"	30	19.60
PFWP5-20	Polypropylene	Wound	5	5	20"	30	18.17
PFWP10-20	Polypropylene	Wound	10	5	20"	30	18.17
PFWP20-20	Polypropylene	Wound	20	5	20"	30	18.17
Large Diameter Housings 4 1/2" diameter							
PFWP.5BB97P	Polypropylene	Wound	0.5	5	9-7/8"	9	37.71
PFWP1BB97P	Polypropylene	Wound	1	5	9-7/8"	9	37.74
PFWP5BB97P	Polypropylene	Wound	5	5	9-7/8"	9	37.74
PFWP10BB97P	Polypropylene	Wound	10	5	9-7/8"	9	37.74
PFWP20BB97P	Polypropylene	Wound	20	5	9-7/8"	9	37.74
PFWP30BB97P	Polypropylene	Wound	30	5	9-7/8"	9	37.74
PFWP50BB97P	Polypropylene	Wound	50	5	9-7/8"	9	37.74
PFWP.5BB20P	Polypropylene	Wound	0.5	5	20"	9	66.03
PFWP1BB20P	Polypropylene	Wound	1	5	20"	9	66.03
PFWP5BB20P	Polypropylene	Wound	5	5	20"	9	61.12
PFWP10BB20P	Polypropylene	Wound	10	5	20"	9	61.12
PFWP20BB20P	Polypropylene	Wound	20	5	20"	9	61.12
PFWP25BB20P	Polypropylene	Wound	25	5	20"	9	61.12
PFWP50BB20P	Polypropylene	Wound	50	5	20"	9	65.36
PFWP60BB20P	Polypropylene	Wound	60	5	20"	9	62.68
PFWPX5BB97P	Fibrillated Polypropylene	Wound	5	10	9-7/8"	8	81.60
PFWPX10BB97P	Fibrillated Polypropylene	Wound	10	15	9-7/8"	8	81.20
PFWPX25BB97P	Fibrillated Polypropylene	Wound	25	20	9-7/8"	8	86.58
PFWPX50BB97P	Fibrillated Polypropylene	Wound	50	30	9-7/8"	8	79.28


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.

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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	\$ 14.36
PFS1-20	Cellulose	Pleated	20	15	Standard	20"	14	35.59
PFS1BB	Cellulose	Pleated	20	10	Big Blue	9-3/4"	8	44.91
PFS1-20BB	Cellulose	Pleated	20	12	Big Blue	20"	6	78.72


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	\$ 29.72
PFR30	Polyester	Pleated	30	12	Standard	9-3/4"	24	38.03
PFR50	Polyester	Pleated	50	12	Standard	9-3/4"	24	38.35
PFR30BB	Polyester	Pleated	30	25	Big Blue	9 3/4"	8	59.43
PFR50BB	Polyester	Pleated	50	25	Big Blue	9 3/4"	8	55.84


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	\$ 24.56
PFCP5	Cellulose Polyester	Pleated	5	15	Standard	9-3/4"	24	22.56
PFCP20	Cellulose Polyester	Pleated	20	15	Standard	9-3/4"	24	22.42
PFCP5BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	9-3/4	8	52.72
PFCP5-20BB	Cellulose/Poly Blend	Pleated	20	30	Big Blue	9-3/4	6	100.94


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	\$ 12.42
PFP1	Polypropylene	Spun	1	10	Standard	9-7/8"	24	16.28
PFP5	Polypropylene	Spun	5	10	Standard	9-7/8"	24	14.53
PFP25	Polypropylene	Spun	25	10	Standard	9-7/8"	24	14.53
PFP1-20	Polypropylene	Spun	1	20	Standard	20"	20	33.65
PFP5-20	Polypropylene	Spun	5	20	Standard	20"	20	27.05
PFP25-20	Polypropylene	Spun	25	20	Standard	20"	20	27.71



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	\$ 47.11
PFDGD2501-20	Polypropylene	Spun	Pre 25/Post 1	20	Big Blue	20"	6	85.94
PFDGD5005-10	Polypropylene	Spun	Pre 50/Post 5	10	Big Blue	10"	8	45.03
PFDGD5005-20	Polypropylene	Spun	Pre 50/Post 5	20	Big Blue	20"	6	83.25
PFDGD7525-10	Polypropylene	Spun	Pre 75/Post 25	10	Big Blue	10"	8	44.70
PFDGD7525-20	Polypropylene	Spun	Pre 75/Post 25	20	Big Blue	20"	6	82.12


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	\$ 20.86
PFPD-5	Polypropylene	Therm Bonded	5	10	Standard	9-7/8"	24	21.91
PFPD-25	Polypropylene	Therm Bonded	25	10	Standard	9-7/8"	24	19.79

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	\$ 23.17
PFC1	Carbon/Cellulose	Wrap	5	5000 @1 gpm	Standard	9 7/8"	24	23.76
PFC1-20	Carbon/Cellulose	Wrap	5	10,000 @1 gpm	Standard	20"	14	58.54


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	N/A	750 @ .5gpm	Compact	4 7/8"	24	\$ 36.87
PFGAC10	Granular Carbon	Canister	N/A	5000 @ 1gpm	Standard	9 7/8"	12	38.32
PFGAC20	Granular Carbon	Canister	N/A	10000 @ 2gpm	Standard	20"	6	84.64
PFGACBB	Granular Carbon	Canister	N/A	12500 @ 2gpm	Big Blue	9 3/4"	8	98.34
PFGAC20BB	Granular Carbon	Canister	N/A	30000@ 4gpm	Big Blue	20"	10	222.79
PFCC10	Granular Carbon	Canister	N/A	7500 @ 1gpm	Standard	9 3/4"	12	46.93


PFCEP
PFCBC

PFCBR

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 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.


ISO 9001


Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFCEPBB20	Acid washed	Carbon Block	5	32000 @ 4 gpm	Big Blue	20"	6	\$ 231.42
PFCBC10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	75.44
PFCBC20	Acid washed	Carbon Block	0.5	45000 @ 1 gpm	Standard	20"	12	109.11
PFCBCBB	Acid washed	Carbon Block	0.5	50000 @ 2 gpm	Big Blue	9 3/4"	4	232.07
PFCBCBB20	Acid washed	Carbon Block	0.5	150000 @ 4 gpm	Big Blue	20"	6	379.01
PFCBR2-10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	99.65

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	NR	1-3	Standard	9 3/4"	24	\$ 87.31
PFRFCBB	Carbon/Polypropylene	Canister	25	3-10	Big Blue	9 3/4"	8	149.96
PFRFC20BB	Carbon/Polypropylene	Canister	25	5-15	Big Blue	20"	6	299.36


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.
- 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	\$ 58.13



Housing & Cartridge Combination Kit Features:

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

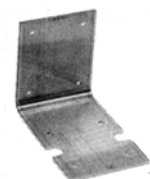
ISO 9001


Part Number	Size	Sump	Cartridge	List Price
Housing & Cartridge Combination Kits				
PFH75C-S1	3/4" standard	transparent	general purpose/sediment	\$ 168.61
PFH75C-C1	3/4" standard	transparent	taste/odor/sediment	178.93

"PF" Series Housing Replacement Parts:

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


PFMB75

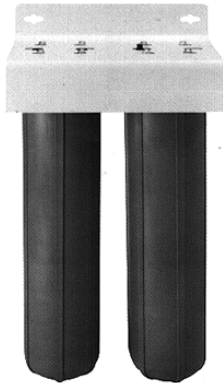
PFMC1

PFWBBS

PFSW

Part Number	Description	Ctn Qty	List Price
PFC38BL	Blue Head for 3/8" Housing	1	\$ 40.57
PFC75BL	Blue Head for 3/4" Housing	1	47.70
PF75CS	Clear Sump for 3/4" Housing	1	118.54
PFBBS	Big Blue Sump only	1	123.92
PFOR38	O-Ring for 3/8" Series	1	8.39
PFOR75	O-Ring for 3/4" Series	1	14.20
PFBBOR	O-Ring for Big Blue	1	23.30
PFMB3814	Mounting Bracket for 3/8"	1	16.54
PFMB75	Mounting Bracket for 3/4" - U Shaped	1	31.27
PFMC1	Mounting Bracket for 3/4" caps w/ Bosses	1	25.30
PFWBBS	Mount Bracket for 1-1 1/2" Big Blue, Zinc plated	1	150.13
PFCC	Standard Cartridge Coupler	1	6.74
PFCCBB	Large Diameter Cartridge Coupler	1	9.52

Housing Wrenches

PFSW1	3/8" Black Wrench for Slimline Housing	1	17.59
PFSW2	3/4" Black Wrench for Standard Housing	1	22.04
PFSW3	Black Wrench for Large Diameter Housing	1	26.49



BBFS22

BBFS Filtration System Features:

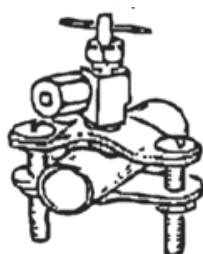
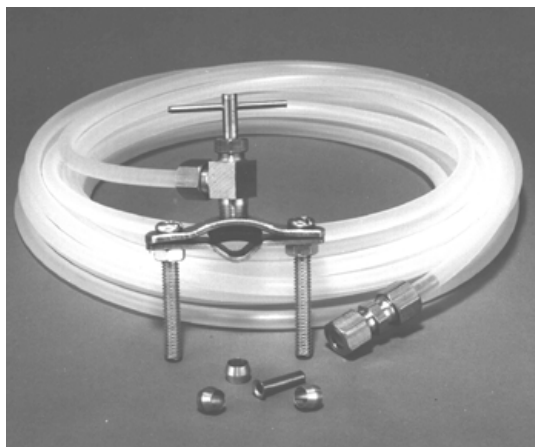
- Large capacity, multi-housing system.
- Allows for greater cartridge capacity and high flow rates.
- Consists of (2) or (3) 20" big Blue Filter housings with 1" NPT I/O mounting bracket.
- Designed for residential, commercial and industrial applications.
- System does NOT include filter cartridges.

ISO 9001



Part No.	Description	List Price
BBFS22	2 housing Big Blue System (15 1/4" x 8 1/2" x 26 1/2")	\$ 737.36
BBFS222	3 housing Big Blue System (23 1/4" x 8 1/2" x 26 1/2")	1087.50

Saddle Tap Valve/Kit and Iron Out®



NO LEAD Brass Saddle Tap Valve & Kit Features:

- Self piercing tap valve and clamp for 3/8" to 1" OD copper tube or 3/8" to 3/4" iron pipe.
- Plastic sleeve, brass compression nut and brass or no lead brass insert (for reinforcing polyethylene tubing).
- Brass compression union for connecting polyethylene tubing to 1/4" water inlet at refrigerator, humidifier or cooler.
- 25 feet of 1/4" OD polyethylene tubing.
- The saddle tap valve eliminates plumbing connections and fittings.
- Supplies water to most humidifiers, evaporative coolers and refrigerators with automatic ice maker or water dispenser in door.
- Use for installation of Reverse Osmosis and Chemical Contaminant Filter Systems.
- For use on copper tube or iron pipe.

Part Number	Description	Ctn Qty	List Price
HTVK381NL	NO LEAD Brass Tapping Valve Kit fits 3/8" -1" OD copper tube or 3/8"-3/4" iron pipe	6	\$ 32.44
PFSTVNL	No Lead Brass Saddle Tapping Valve Only	10	9.51

Super Iron Out®

Removes the toughest rust and iron stains quickly and easily from white clothes, laundry, toilets, sinks, tubs, dishwashers, exterior surfaces and much more. Also keeps water softeners clean and operating at peak efficiency.



Part Number	Description	Ctn Qty	List Price
IOUT30	Iron Out, 28 oz.	6	\$ 16.72
IOUT5	Iron Out, 76 oz.	6	42.75

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.
- Sight port to safely view operation.
- 8 gallon complete with flow control.



UV, UVGDS &
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.

UV-W Series:

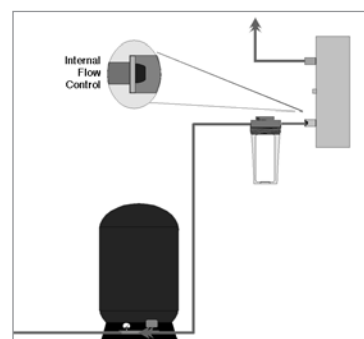
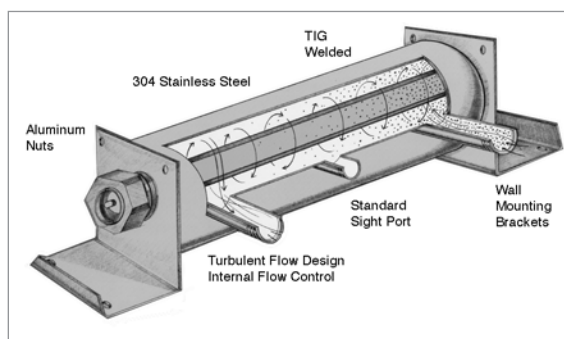
- Same as UV series with:
- Internal wiper unit for manual cleaning of quartz sleeve.
- 8 & 15 gallon complete with flow control.

UV-GDS 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).
- Built in surge protector and fuse.

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	Supplier Part #	Max GPM	# of Lamps	KW @ 120V	AMPS @ 120V 220V	Pipe Size	Dimensions LxWxD	Weight	Lamp Out Alarm	List Price
Safe Lite Economy Series										
UVSL8		8	1	0.07	.60 .30	1" MIP 3/4" FIP	18"x4"x7"	8.5	No	\$ 1162.70

Standard Series

UV7		7	1	0.07	.60 .30	1" MIP 3/4" FIP	18"x4"x7"	17	No	\$ 1343.90
UV15		15	1	0.07	.60 .30	1" MIP 3/4" FIP	36"x4"x7"	28	No	\$ 1635.36

GDS Series w/ Lamp out alarm

UV7SE	UV7GDS	7	1	0.07	.60 .30	1" MIP 3/4" FIP	18"x4"x7"	17	Yes	\$ 1491.08
UV15SE	UV15GDS	15	1	0.07	.60 .30	1" MIP 3/4" FIP	36"x4"x7"	28	Yes	\$ 1745.97

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 UVS079 Solenoid.

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



UVM254



UVS079

Part Number	Description	For Use With Series	List Price
Accessories			
UVM254	UV Dosage meter w/ alarm	UV, UV-W	\$ 2771.46
UVS079	Shut-Off Solenoid 1" FNPT, use w/ UVM254, UV, UV-W, or UVM257 Specify when ordering	UV-SE, UVC	\$ 361.51

Ultraviolet Disinfection Parts

Part Number	Description	For Use With Series	List Price
Maintenance & Repair Parts			
UVP4025	Brass end nut assembly - complete (new)	All models	\$ 95.41
UVP8544	O-ring - Standard for end nut		4.79
UVP1421DWS7	Ballast	UV7	146.28
UVP1421SL8	Ballast	UVSL8	146.28
UVP8222	Ballast - (120V, 60 Hz)	UV7SE	146.28
UVP8224	Ballast - (120V, 60Hz)	UV15SE	146.28
UVP8225	Ballast - (120V, 60Hz)	UV15C	206.42

Service Kits - Include bulb, quartz sleeve, o-rings and small tube of silicone.

Recommended 1 per year.

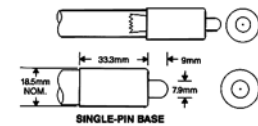
UVK07	Includes (1) UVB1805 bulb, (1) UVQS6211 sleeve, (2) UVP8544 o-rings	UV7, UV7SE	183.36
UVK08	Includes (1) UVB4450 bulb, (1) UVQS476D sleeve, (1) UVP8544 o-ring	UVSL8	249.38
UVK015	Includes (1) UVB8246 bulb, (1) UVQS6608 sleeve, (2) UVP8544 o-rings	All 15 models	249.38
UVK024	Includes (2) UVB8246 bulb, (2) UVQS6608 sleeve, (4) UVP8544 o-rings	All 24 models	482.79

Part Number	Bulb Length	Description	For Use With Series	List Price
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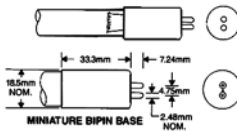
UV Bulbs

UVB1805	14"	1 pin each end	UV7, UV7SE	\$ 137.85
UVB1814	27.3"	1 pin each end		162.21
UVB8246	32.5"	1 pin each end	All 15 UVC80 24 28 60 120	162.21
UVB11149	45.88"	1 pin each end		162.21
UVB11550	61.2"	1 pin each end	UVC130 bulb	234.61
UVB2436	17"	2 pins each end		162.21
UVB2457	18"	2 pins each end	DWSW-8	162.21
UVB2793	31.34"	2 pins each end		162.21
UVB4287	11.3"	4 pins one end		162.21
UVB4330	13"	4 pins one end		162.21
UVB4357	14.5"	4 pins one end		162.21
UVB4409	16"	4 pins one end		162.21
UVB4436	17"	4 pins one end		162.21
UVB4450	17.71"	4 pins one end	DWS-8V, SE8V, SL5, SL8, SL8V	162.21
UVB4739	29"	4 pins one end	DWS-12V, SE12V	162.21
UVB4793	31.34"	4 pins one end		162.21
UVB4810	32"	4 pins one end		162.21
UVB4854	33.2"	4 pins one end		162.21

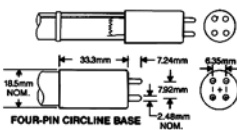
Bulb length is from end to end excluding pin connection.



UVB Series - 1 pin each end



UVB Series - 2 pins each end



UVB Series - 4 pins one end



UVQS Series



UVQS-D Series

Quartz Sleeves - Open Ends (22 mm ID, 24.5mm OD)

UVQS6211	14.37"	Quartz Sleeve	UV7, UV7SE	52.74
UVQS1483	19"	Quartz Sleeve	DWSW-8	64.81
UVQS6608	32.62"	Quartz Sleeve	All 12 15 24 48 60 80 120	105.69

Quartz Sleeves - Domed Ends (22 mm ID, 24.5mm OD)

UVQS1435D	17"	Dome End Quartz Sleeve		105.69
UVQS476D	19"	Dome End Quartz Sleeve	SL5, SL8, DWS-8V	105.69
UVQS335D	34"	Dome End Quartz Sleeve		105.69





Chem Tech Series 100

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 Motorized Models:

Includes tubing and suction & discharge fittings

Part Number	Series	Max Pressure PSI	Output capacity @ Max psi GPD	Volts	Strokes/ Min.	OD Tube Size	Ctn Qty	List Price
015-115	100	100	15	115	25	1/2"	1	\$ 1106.39
015-230	100	100	15	230	25	1/2"	1	1151.08
030-115	100	100	30	115	51	1/2"	1	1106.39
030-230	100	100	30	230	51	1/2"	1	1151.08

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



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	\$ 146.28
28800	242P	SAN Head	160.27
J20560	278P	Ceramic Ball Check	20.38
J27903	237P	PTFE Gasket	20.38
J30515	J30515	PVC Bleed Valve Kit w/Tubing, 1/2" OD	237.50
J37440	638P	Hypalon Valve Seat	14.88
J38985	285P	Valve Spring	20.38
J40117	A50P	Foot Valve and Strainer Assembly, 1/2" OD	146.64
J41658	A52P	PVC Back Check Valve Assembly, 1/2" OD	178.77
J41694	J41694	1 1/2" long PVC Injection Ftg 1/2" OD tube size	260.07

* 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	\$ 419.17



C Plus Series



ISO 9002

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

PULSATRON®



PULSATRON "C" Series Electronic Metering Pump

Features:

- Solenoid driven assembly - no motors.
- Reliable metering performance.
- Rated "hot" for continuous use.
- High viscosity capable up to 1000 cps.
- Leak free, seal-less liquid end.
- Diaphragms are PTFE-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

Part Number	Series	Pressure PSI	Max GPD	Voltage	Suction & Discharge Tube OD	List Price
LC54SA-VHC1-XXX	C	80	30	115	3/8"	\$ 1220.44
LD54SA-VHC1-xxx	C Plus	80	30	115	3/8"	1461.73

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

Chemical Feed Pumps - PULSATRON Parts



C Plus Series

PULSATRON®



Pulsafeeder



ISO 9002

Stocked* Parts for PULSATRON C and C Plus Series Pumps

Part Number	Description	List Price
L3300H01-PVC	3/8" OD Bleed Valve Assembly	\$ 212.63
L3300H03-PVC	1/2" OD Bleed Valve Assembly	212.63
L3101HC1-PVC	3/8" OD C+ Suction valve	107.51
L3201HC1-PVC	3/8" OD C+ Discharge Valve	107.51
L3201HCA-PVC	1/2" OD C+ Discharge valve	115.30

* 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

NEW Part Number	Series	Fits Models	Suction Disch.	List Price
			Tubing Size	
K4VHC1	C	30 GPD	3/8" OD	\$ 377.11
K3VHC1	C Plus	12 GPD	3/8" OD	322.74
K3VHCA	C Plus	12 GPD	1/2" OD	322.74
K4VHC1	C Plus	30 GPD	3/8" OD	377.11
K4VHCA	C Plus	30 GPD	1/2" OD	419.17



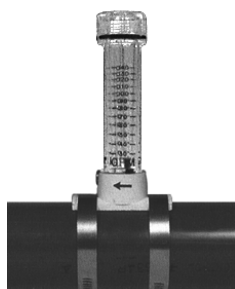
XP Series

CHEM-TECH XP Series Peristaltic Pump Features:

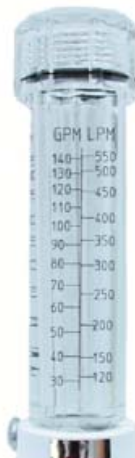
- Peristaltic technology delivers worry-free dosing, easy operations and minimal maintenance.
- Include adjustable, on/off with current interrupter timer.
- All metal drive gears and gear train. Metal gear housing.
- 3 piece roller design.
- Self priming.
- 115 V, 60 Hz

Part Number	Max PSI	GPD	RPM	Ctn Qty	List Price
XP015LAHX	100	15	30	1	\$ 1504.03
XP030LAHX	100	30	30	1	1504.03

Additional models are available with or without complete tank system.



U88 Series



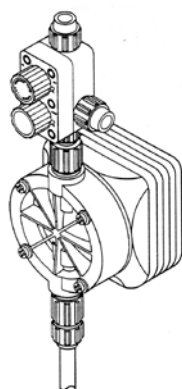
Flow Meter Features:

- 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	\$ 270.43
U8800439	1 1/2"	20-80 / 80-300	270.43
U8800440	2"	30-140 / 120-550	270.43
U8800441	2 1/2"	40-200 / 160-750	270.43
U8800442	3"	80-350 / 300-1300	270.43
U8800443	4"	150-600 / 600-2200	270.43



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:

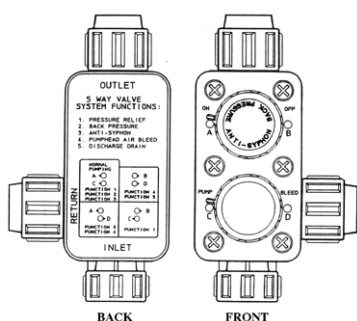
- The functions are selected by setting two, independent dual position selector knobs.
- The DG/5FV's compatible with most **PULSATRON** and **CHEMTECH** series pumps. Connected to the existing discharge valve the DG/5FV is capable of handling a large output flow as well as viscous liquids. A return 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	PTFE 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	\$ 745.77


Solution Tanks
Solution Tank Features:

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

Part Number	Description	List Price
40375	15 Gallon liner with cover 25" x 14 1/2"	\$ 585.53
40360	30 Gallon liner with cover 32" x 18 1/2" Brine Tank	785.36
J40366	50 Gallon liner with rigid cover 42 1/2" x 18 1/2" (b) 23 (t)	1247.10
26860	3/8" Bulk Head Fitting (AT) installed at factory	104.90


40360

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	\$ 22.19
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	23.20
SPDK150MHD	Male adapter to fit 1 1/2" FIPT pump discharge w/ 1 1/2" sump hose	6	33.57
SPDH125-256	1 1/4" bulk hose, 256'	1	281.66
SPDH150-150	1 1/2" bulk hose, 150'	1	183.71

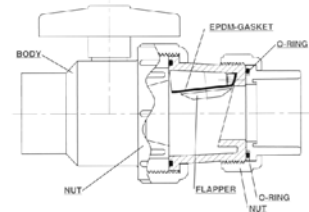


2200 Series



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.



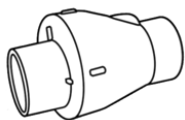
Part Number	Description	Ctn Qty	List Price
2200-15	1 1/2" Union x Slip	12	\$ 102.90
2200-20	2" Union x Slip	12	164.22
2200-15TU	1 1/2" Union x Union	12	136.36
2200-20TU	2" Union x Union	12	183.57
2200-15UC	1 1/2" Compression x Compression	12	131.20
2200-20UC	2" Compression x Compression	12	166.41



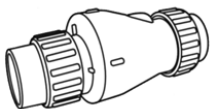
MCV Series

"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	\$ 30.49
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12	34.81
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12	46.02
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12	50.81
MCV821-20	2"	Slip x Slip	1/2 lb.	12	54.14
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12	58.41
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12	59.13
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12	63.47
MCV823-10	1"	Union x Union	1/2 lb.	12	46.02
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12	50.81
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12	56.71
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12	64.90
MCV823-20	2"	Union x Union	1/2 lb.	12	72.11
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12	81.96
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12	82.87
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12	87.64
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12	88.77
MCV850-20	2"	Check/Slice Combo Union x Slip		12	113.94



SUMP CHECK



1500 Series



SPCV Series



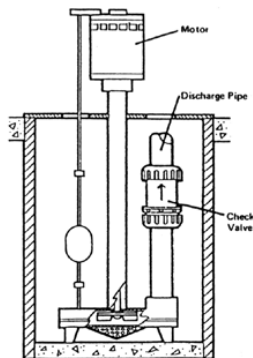
SC Series



SC SRS



SC125/150DRS



Typical Installation

Sump Check Features:

- Valve fits 1-1/4" or 1-1/2" IPS size PVC, ABS & Galvanized.
- 4 gaskets furnished with each valve (2)1- 1/4" and (2)1- 1/2".
- Easy installation, no hose clamps, cementing or threading.
- Long lasting EPDM weighted flapper.
- Body length 5 1/4"



1500 Series Features:

- Compression PVC Swing Check Valve.
- For IPS plastic or steel pipe.
- Body length is 7 1/2" for 1 1/4" and 1 1/2"; 9 3/4" for 2"



SPCV Series Features:

- Swing Check Valve, rubber boot x rubber boot
- ABS body, Buna-N flapper, rubber boot w/stainless steel clamps.
- Available in 1-1/4", 1-1/2" and 2".



SC Series Features:

- Full flow - positive sealing flapper swing check design.
- Durable sonic welded thermoplastic body.
- Available in 1-1/4" & 1-1/2" and combo 1-1/4"-1-1/2".
- Stainless steel clamps provided on the RS models.
- Single (S) or Double (D) reducing rubber sleeves for flexibility.

Part Number	Inlet	Outlet	Ctn Qty	List Price
SUMP CHECK	1 1/4" or 1 1/2" IPS	1 1/4" or 1 1/2" IPS	12	\$ 53.27
1500-12	1 1/4" ips comp	1 1/4" ips comp	12	79.24
1500-15	1 1/2" ips comp	1 1/2" ips comp	12	83.69
1500-20	2" ips comp	2" ips comp	12	117.73
1500-30	3" ips comp	3" ips comp	2	319.00
SPCV125	1 1/4" rubber boot	1 1/4" rubber boot	10	20.07
SPCV150	1 1/2" rubber boot	1 1/2" rubber boot	10	20.49
SPCV200	2" rubber boot	2" rubber boot	12	34.67
SC125B	1 1/4" mpt	1 1/4" barb or 1 1/2" slip	20	7.96
SC150B	1 1/2" mpt	1 1/4" barb or 1 1/2" slip	20	8.16
SC125	1 1/4" mpt	1 1/4" or 1 1/2" slip	20	6.71
SC125SRS	1 1/4" mpt	1 1/4" or 1 1/2" rubber boot	10	16.67
SC150SRS	1 1/2" mpt	1 1/4" or 1 1/2" rubber boot	10	15.57
SC125/150DRS	1 1/4" or 1 1/2" rub boot	1 1/4" or 1 1/2" rubber boot	10	22.13

SS&E Check Valves



SPCV SL Series

SPCV Silent Series Check Valve Features:

- Double flapper design eliminates typical hammering of sump check valve after pump cycles.
- Nested flapper design allows for proper seating and eliminates stress at the hinge point.
- ABS body, Buna-N flapper, rubber boot w/stainless steel clamps.
- Available in 1-1/2" and 2", white or clear body.
- Made in USA.
- Pressure tested.



Part Number		Inlet	Outlet	Ctn Qty	List Price
SPCV150SL	White	1 1/2" RUBBER BOOT	1 1/2" RUBBER BOOT	16	\$ 54.94
SPCV200SL	White	2" RUBBER BOOT	2" RUBBER BOOT	12	69.93
SPCV150SLC	Clear	1 1/2" RUBBER BOOT	1 1/2" RUBBER BOOT	16	65.22
SPCV200SLC	Clear	2" RUBBER BOOT	2" RUBBER BOOT	12	82.75


HSB Series

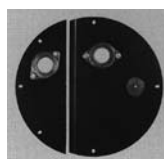
HSB Series Sump & Sewage Basin Features:

- Includes applicable cover, hardware and adapt-a-flex hub.
- Designed to accommodate most any pump on the market.
- Corrosion and impact resistant polyethylene.
- Easy installation with adapt-a-flex weather and gas tight fittings on ejector basins.
- A variety of steel and poly covers and hubs available to fit most any installations.
- Covers in stock have 2" vents, Covers with 3" & 4" vents available by special order.
- Use NH suffix for no hole in basin.

Sizes	Description	Ctn Qty	List Price
Sump Basin			
HSB1822	With 1 piece slotted poly cover, 22 gal	1	\$ 169.95
HSB18221SC	With 1 piece steel cover, 22 gal	1	275.55
HSB1822LC	Basin less cover, 22 gal	1	105.07

Sewage Basin

HSB1830	With 1 piece steel cover, hub, 2" vent, 30 gal	1	324.83
HSB18302SC	With 2 piece steel cover, hub, 2" vent, 30 gal	1	360.38
HSB1830NH	With 1 piece steel cover, no hole in basin, 30 gal	1	308.85
HSB2424	With S2410SC steel cover, hub, 2" vent, 48 gal	1	706.15
HSB2436	With S2410SC steel cover, hub, 2" vent, 71 gal	1	800.71
HSB2436NH	With S2410SC steel cover, no hole in basin, 71 gal	1	690.86
HSB3036D	With D3008C duplex steel cover, hub, 2" vent, 110 gal	1	2119.23


2SC

1PC

Sump and Sewage Basin Covers, Hubs and Kits

Part Number	Description	Ctn Qty	List Price
1SC	1 pc steel cover 18" dia w/ 2 2" holes & hardware	1	\$ 170.68
2SC	2 pc steel cover 18" dia w/ 2 2" holes & hardware	1	208.92
1PC	1 pc plastic cover 18" dia slotted w/ hardware	1	64.13
4-HUB	Cast iron 4" Hub	1	190.20
4AF-HUB	Adapt-a-flex 4" Hub	1	39.77
HSB1830KIT	Tape, nuts, bolts	1	50.79


HSBB2300STL

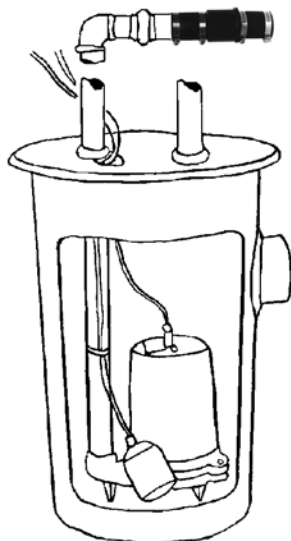
HSBC23RSL

HSBB Series Sump & Sewage Basin Features:

- Tapered Corrugated Sump Basin and locking cover
- Made of durable, corrosion resistant polyethylene resin.
- Radon sump lid has gasket kit to seal openings.

Sizes	Description	List Price
HSBB2300STL	18" x 24" basin only, 18 gal. capacity	\$ 86.98
HSBB2300STL30	18" x 30" basin only, 26 gal. capacity	111.63
HSBC23STL	Slotted Locking Cover only	37.80
HSBC23RSL	18" Radon Sump Lid only	176.03

Sump & Sewage Package Systems



Piping not included

HPA500S Sewage Package Includes:

- SP93501 Sewage pump with 2" FNPT discharge.
- HSB1830 18" x 30" Basin with 1 piece steel cover w/2" discharge.
- Adapt-a-flex hub.
- SPCV200 2" Check valve.
- Cast iron hub available.
- 2 piece cover available.
- 2" compression check valve 1500-20 available at additional cost.

Pricing & Performance Table [USGPM]

Model No.	HP	Pumping Height for SP93501					Min		List Price
		0'	5'	10'	15'	20'	Volts	Amps	
HPA500S	1/2	80	68	60	44	13	120	7.6	\$1106.33

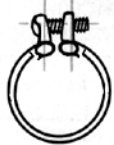


Laundry Tray Systems LTS Package Features:

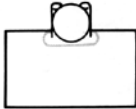
- 1/3 HP SP92341 Sump Pump, 120v, 1 1/2" discharge, vertical float switch.
- 11 x 17 x 14 basin with cover.
- SPCV125 Check Valve.
- Includes 1 1/4 x 18 PVC nipple and Sch 80 PVC 1 1/2" x 1 1/4" bushing
- Above the floor sump that accepts most any submersible pump.
- Rotationally molded from polyethylene with no seams.
- Bolt down cover allows easy access for installation or removal of sump pump.
- 1-1/2" threaded inlet connection.

Pricing & Performance Table [USGPM]

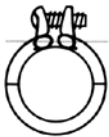
Model No.	Pumping Height for SP92341					Volts	Min		List Price
	0'	5'	10'	15'	20'		Amps		
LTS33	40	34	28	22	12	120			\$ 871.70
LTSB	Laundry Tray basin only								267.08



Straight through bolt pull on lugs gives more uniform pressure on the band, more pressure on pipe with less torque on nut.



Oval lug opening in band won't tear - no corners to rip out as with square hole.



Lugs above pipe level don't pull into pipe. Gives more tension on band - more sealing power yet won't crush pipe.



Band covers lead edge of lug. Equal pressure across entire band. No friction - no cutting into pipe surface by raw edge of band opening.

Repair Clamp Features:

- Pipe repair clamps eliminate the need for costly pipe replacement for simple leaks.
- Non-corrosive clamp band is made of annealed stainless steel.
- Nuts and bolts are cadmium plated with a chromate finish; heavy duty hex nut with washer.
- Lugs are made of annealed, malleable iron for maximum strength and permanence; iron phosphate finish.
- Neoprene gasket with maximum rated service temperature of 212° F (100°C).
- Imported

Part Number	Nominal Pipe Size	IPS Pipe O.D.	CTS Tube O.D.	Ctn Qty	List Price
3" Wide, 1 Bolt					
HRC3-3/8	3/8"	.675	.625	6/72	\$ 7.40
HRC3-1/2	1/2"	.840	.875	6/72	9.70
HRC3-3/4	3/4"	1.050	1.125	6/72	9.75
HRC3-1	1"	1.315	1.375	6/72	9.80
HRC3-1 1/4	1 1/4"	1.660	1.625	6/72	9.85
HRC3-1 1/2	1 1/2"	1.900		6/72	10.87
HRC3-2	2"	2.375		6/72	12.61
HRC3-2 1/2	2 1/2"	2.875		6/48	12.95
HRC3-3	3"	3.50		6/48	13.11
HRC3-4	4"	4.50		6/24	14.67

6" Wide, 2 Bolts

HRC6-1/2	1/2"	.840	.875	6/56	17.15
HRC6-3/4	3/4"	1.050	1.125	6/56	19.09
HRC6-1	1"	1.315	1.375	6/56	20.42
HRC6-1 1/4	1 1/4"	1.660	1.625	6/56	20.81
HRC6-1 1/2	1 1/2"	1.900		6/56	24.25
HRC6-2	2"	2.375		6/56	24.59
HRC6-2 1/2	2 1/2"	2.875		6/24	25.57
HRC6-3	3"	3.50		6/24	26.44
HRC6-4	4"	4.50		6/24	27.90



Coupling, Cap Features:

- Flexible couplings for joining all types of sewer pipe, including transitions from one type to another.
- NO-HUB couplings for joining cast iron pipe sections
- End Caps for capping cast iron, steel, PVC and ABS pipe.
- 300 Series stainless steel clamps
- Meets IAPMO File #0317, BOCA ESI RR#90-68, SBCCI PST&ESI Report #9483B
- CSA Approved



C Series



MR Series



MRTC Series



07 Series

Part Number	Size	Connection	Ctn Qty	List Price
NO HUB COUPLINGS				
C150C	1 1/2 X 1 1/2	CI X CI	100	\$ 18.93
C200C	2 X 2	CI X CI	100	18.93
C300C	3 X 3	CI X CI	100	22.72
C400C	4 X 4	CI X CI	100	26.80

FLEXIBLE COUPLINGS

MR0244	4 X 4	CLAY X CI/PL	18	32.21
MR56125	1 1/2" Tubing, Copper or 1 1/4" PL to Same		24	16.58
MR5615	1 1/2 x 1 1/2	CI/PL X CI/PL	24	17.71
MR5622/125	2 x 1 1/4	CI/PL x CI/PL	24	19.91
MR56215	2 X 1 1/2	CI/PL X CI/PL	24	20.13
MR5622	2 X 2	CI/PL X CI/PL	24	19.05
MR56315	3 x 1 1/2	CI/PL x CI/PL	24	33.51
MR5632	3 X 2	CI/PL X CI/PL	24	23.78
MR5633	3 X 3	CI/PL X CI/PL	18	25.73
MR5642	4 x 2	CI/PL x CI/PL	18	44.89
MR5643	4 X 3	CI/PL X CI/PL	18	34.68
MR5644	4 X 4	CI/PL X CI/PL	24	32.21
MR5655	5 X 5	CI/PL X CI/PL	14	54.48
MR5664	6 x 4	CI/PL x CI/PL	10	85.98
MR5666	6 X 6	CI/PL X CI/PL	12	76.97

DRAIN PIPING TO TUBULAR TRAP *

MRTC150	1 1/4" x 1 1/2"	24	11.22
MRDTC150	1 1/4" or 1 1/2" x 1 1/4" or 1 1/2"	24	13.70
MRDTC215	2" x 1 1/4" or 1 1/2"	24	18.60

* Any combination of 1 1/4" or 1 1/2" tubular drain (plastic, tubular or copper)

END CAPS

0701-011	1 1/2"	24	8.27
0702-019	2"	24	9.67
0703-017	3"	24	12.25
0704-015	4"	24	15.71
0705-020	5"	20	15.35
0706-028	6"	12	15.76

Tubing - Polyethylene



Polyethylene Tubing Features:

- Conforms to FDA, NSF and USDA Standards.
- Temperature Range -100° F to +140° F
- Economical.
- Extremely Flexible.
- Translucent.
- Resists Corrosion.
- **NOT FOR USE WITH HOT WATER**



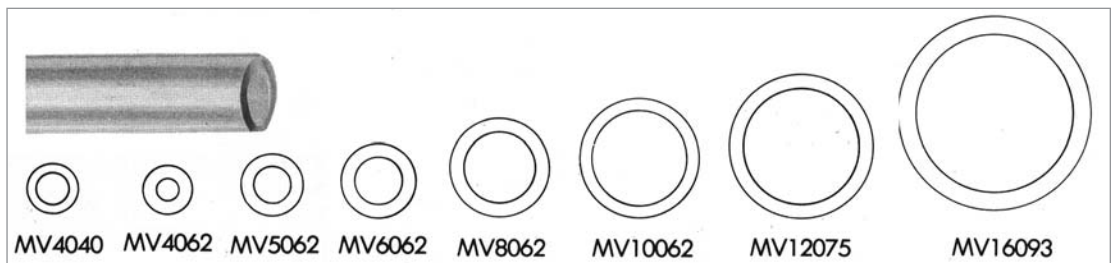
- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
Ex: For 500' of MV4040-5 order Qty 1 MV4040-5

Part Number Bulk Boxed	Part Number Dispenser Box	OD	ID	Wall Thickness	Max PSI @ 70°F	Coil Length	List Price Per Coil
MV4040-1BLACK		1/4"	.17"	0.04"	135	100'	\$ 33.17
MV4040-1		1/4"	.17"	0.04"	135	100'	40.30
MV4040-5		1/4"	.17"	0.04"	135	500'	201.57
MV4040M		1/4"	.17"	0.04"	135	1000'	403.14
MV4062-1		1/4"	1/8"(.125)	1/16"(.062)	180	100'	45.79
MV4062-5		1/4"	1/8"(.125)	1/16"(.062)	180	500'	229.00
MV4062M		1/4"	1/8"(.125)	1/16"(.062)	180	1000'	458.00
MV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	140	100'	60.37
MV5062-5		5/16"	3/16"(.1875)	1/16"(.062)	140	500'	301.81
MV5062M		5/16"	3/16"(.1875)	1/16"(.062)	140	1000'	603.65
MV6062-1		3/8"	1/4"(.250)	1/16"(.062)	120	100'	75.16
MV6062-5		3/8"	1/4"(.250)	1/16"(.062)	120	500'	385.53
MV6062-5BLACK		3/8"	1/4"(.250)	1/16"(.062)	120	500'	376.79
MV6062M		3/8"	1/4"(.250)	1/16"(.062)	120	1000'	766.84
MV8062-1		1/2"	3/8"(.375)	1/16"(.062)	90	100'	108.57
MV8062-5		1/2"	3/8"(.375)	1/16"(.062)	90	500'	542.86
MV10062-1		5/8"	1/2"(.500)	1/16"(.062)	70	100'	133.86
MV10062-5		5/8"	1/2"(.500)	1/16"(.062)	70	500'	669.45
MV12075-1		3/4"	.6	.075	60	100'	183.18
MV16093-1		1"	.814	3/32"(.094)	55	100'	299.14



TP309	5/16"	3/16"(.1875)	1/16"(.062)	100'	75.57
TP310	3/8"	1/4"(.250)	1/16"(.062)	100'	91.63
TP311	1/2"	3/8"(.375)	1/16"(.062)	100'	128.09

POLYETHYLENE TUBING SIZING GUIDE



Tubing - Clear Vinyl



Vinyl Tubing Features:

- Temperature Range -20° F to +150° F
- Flexible.
- Transparent.
- Tasteless.
- Non-Toxic.
- **NOT FOR USE WITH HOT WATER**



Applications:

- Pool slides
- RV use cold water
- Water softeners
- Ice maker
- Livestock
- Food & Beverage

• SOLD IN COIL LENGTHS ONLY.

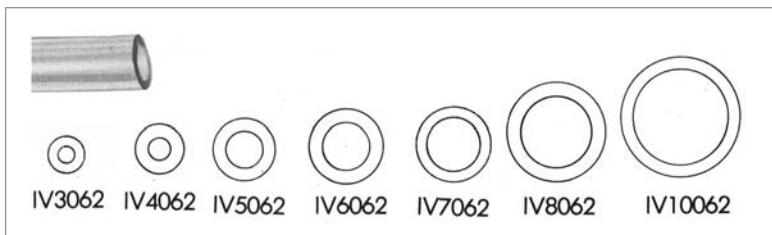
• ORDER BY THE NUMBER COIL LENGTHS REQUIRED.

Ex: For 500' of IV7062-5 order Qty 1 IV7062-5

Part Number Bulk Box	Dispenser Box	OD	ID	Wall Thickness	Length	List Price Per Coil
IV4062-1		1/4"	1/8"(.125)	1/16"(.062)	100'	\$ 73.33
IV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	100'	93.37
IV6062-1		3/8"	1/4"(.250)	1/16"(.062)	100'	115.72
IV7062-1		7/16"	5/16"(.3125)	1/16"(.062)	100'	117.23
IV8062-1		1/2"	3/8"(.375)	1/16"(.062)	100'	148.49
IV10062-1		5/8"	1/2"(.500)	1/16"(.062)	100'	197.90
	TV309	5/16"	3/16"(.1875)	1/16"(.062)	100'	63.17
	TV310	3/8"	1/4"(.250)	1/16"(.062)	100'	81.74
	TV311	1/2"	3/8"(.375)	1/16"(.062)	100'	107.65
	TV3125	5/8"	1/2"(.500)	1/16"(.062)	100'	138.86
	TV313-1	7/8"	5/8"	1/8"	100'	330.60
	TV315	1 1/4"	1"	1/8"	50'	256.04



VINYL TUBING SIZING GUIDE



Fittings for Plastic Tubing - NL Brass



Barb Fitting Features:

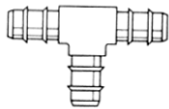
- Superior NO LEAD brass fittings for soft plastic tubing for oil, water, air, vacuum, gas and liquid low pressure lines.
- Exclusive self-clinching double barbs actually tighten under strain.

Compression Fitting Features:

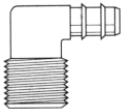
- NO LEAD Brass compression fittings designed for plastic tubing.
- Built-in tube support prevents tube collapse and allows easy assembly.



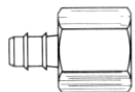
VT22



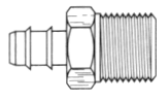
VT224



VT229



VT26



VT28

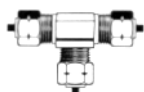
Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Coupling (Ins x Ins)					
VT22-4-4NL	3/8"	1/4"		Bulk	\$ 6.24
VT22-6-6NL	1/2"	3/8"		Bulk	7.69
Tee (Ins x Ins x Ins)					
VT224-6NL	1/2"	3/8"		Bulk	19.41
Elbow (Ins x MIP)					
VT229-4-4NL	3/8"	1/4"	1/4" mip	Bulk	17.73
VT229-6-4NL	1/2"	3/8"	1/4" mip	Bulk	15.60
Female Adapter (Ins x FIP)					
VT26-6-4NL	1/2"	3/8"	1/4" fip	Bulk	10.14
Male Adapter (Ins x MIP)					
VT28-4-2NL	3/8"	1/4"	1/8" mip	Bulk	5.84
VT28-4-4NL	3/8"	1/4"	1/4" mip	Bulk	8.31
VT28-6-4NL	1/2"	3/8"	1/4" mip	Bulk	9.52

Fittings for Plastic Tubing - NL Brass



VT62

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty	List Price
Union w/ inserts (Comp x Comp)					
VT62-4NL	1/4" x 1/4"	.17"		Bulk	\$ 12.41



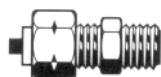
VT64

Tee w/ inserts (Comp x Comp x Comp)					
VT64-4NL	1/4" x 1/4" x 1/4"	.17"		Bulk	21.36



VT69

Male Elbow w/ inserts (Com x MIP)					
VT69-4-4NL	1/4"	.17"	1/4" mip	Bulk	19.87



VT68

Male Connector w/ inserts (Comp x MIP)					
VT68-4-4NL	1/4"	.17"	1/4" mip	Bulk	10.45
VT68-6-4NL	3/8"	1/4"	1/4" mip	Bulk	12.09



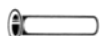
VT60

Delrin Sleeve					
VT60-4	1/4"			Bulk	0.63
VT60-6	3/8"			Bulk	1.04



VT61

Nut					
VT61-4NL	1/4"			Bulk	2.09
VT61-5NL	5/16"			Bulk	2.71
VT61-6NL	3/8"			Bulk	3.02



VT63

Tube Support					
VT63-4NL	1/4"	.17"		Bulk	0.77
VT63-6NL	3/8"	1/4"		Bulk	1.43



Sure-Grip® Test Plug Features:

- Polypropylene construction.
- Fits all types of pipe at nominal sizes.
- Permanent or temporary use.

Part Number	Description	Size	Pipe ID	Ctn Qty	List Price
271158	Sure-Grip® plug	1- 1 1/2"	1.48" - 1.63"	50	\$ 19.71
271208	Sure-Grip® plug	2"	1.89" - 2.09"	50	22.21
271308	Sure-Grip® plug	3"	2.89" - 3.09"	30	14.07
271408	Sure-Grip® plug	4"	3.87" - 4.09"	30	21.86



Techno-Cap Features:

- Heavy duty, PVC, high pressure.
- Easily solvent cemented over end of CWV pipe.
- Will not clog or go down in pipe.

Part Number	Description	Size	Ctn Qty	List Price
33468	Tests 1 1/2" DWV Pipe	1-1/2"	100	\$ 0.90
33470	Tests 2" DWV Pipe	2"	100	1.22
33472	Tests 3" DWV Pipe	3"	50	1.81
33474	Tests 4" DWV Pipe	4"	25	1.97



Knock-Out™ Test Cap Features:

- Solvent cements to Sch 40 ABS and PVC DWV pipe.
- Deeper design provides stronger leak-free connections.
- "Tab" feature keeps hands free of solvent cement.
- Will withstand 10 PSI or 30' head pressure.

Part Number	Description	Size	Ctn Qty	List Price
39100	Knock-Out test cap	1-1/2"	50	\$ 1.17
39101	Knock-Out test cap	2"	50	1.09
39102	Knock-Out test cap	3"	50	1.88



Tub Box

Tub Box Features:

- Provides a quick, economical & clean way to install tub waste & drain.
- Made of a semi-flexible, very durable plastic polymer.
- Built in cut-out for up to 2" Sch 40 drain.

Part Number	Size	Ctn Qty	List Price
34080	13" x 13" x 6 1/2"	12	\$ 33.48



Shower Pan Liner 41597

Shower Pan Liner Features:

- Gray PVC shower pan liner is 40 mil – One roll per case.
- Liner marked in 6" increments for ease of measuring.
- Meets ASTM D-4551.

Part Number	Size	Ctn Qty	List Price
41597	5' x 40' 40 mil	1	\$ 885.59



Water Heater Pan

Plastic Water Heater Pan Features:

- Recommended for electric water heater protection.
- Pre-drilled to accept 1" or 1 1/2" fittings.
- Manufactured from semi-flexible, tough and durable 0.0625" plastic polymer.

Part Number	Size	Ctn Qty	List Price
34061	20"	12	\$ 28.77
34062	22"	12	31.20
34063	24"	12	32.84
34064	26"	12	36.65
34065	30"	12	46.26



Water Heater Stand

Gas Water Heater Stand Features:

- Allows the placement of the water heater tanks 18" above the ground as required by National Fuel Gas Code.
- Constructed of 18 gauge spangled galvanized sheet metal, holds up to 50 gallon water heaters.

Part Number	Size	Ctn Qty	List Price
34057	21" x 21" x 18" high	4	\$ 167.93

Roof Flashings



Thermoplastic Self-Seal Roof Flashing Features:

- Non fading and non cracking rigid black thermoplastic base.
- Slides over pipe - for pitch to 40 degrees.
- 3" self-seal flashing can be used on 3" plastic, copper, steel or cast iron.
- Matte finish blends in better with roof surfaces.

Uni-Seal Flex Self-Seal Flexible Roof Flashing Features:

- Flexible base conforms to most flat or contoured roof surfaces including clay tile.
- No caulking needed.
- Slides over pipe - for pitch to 40 degrees.
- Unique dual bead configuration that seizes the vent pipe with a locking grip preventing leaking entirely.

Approvals:



Report #93126



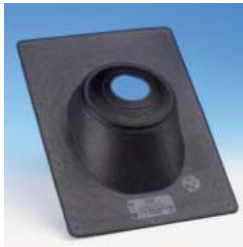
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Aluminum Self-Seal Roof Flashing Features:

- Rustproof 0.032 stamped aluminum standard base. Non fading sealing collar.
- Slides over pipe - for pitch to 40 degrees.

Galvanized Base Roof Flashing Features:

- Rustproof, stamped galvanized, 24 to 28 gauge. Non fading sealing collar.
- Slides over pipe - for pitch to 40 degrees.



New Part No	Old Part No.	Description	Size	Ctn Qty	List Price
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Thermoplastic Self-Seal Roof Flashings

11908	14101	Thermoplastic Flashing	1-1/4", 1-1/2"	12	\$ 15.07
11909	14102	Thermoplastic Flashing	2"	12	15.40
11910	14103	Thermoplastic Flashing	3"	12	14.61
11919	14185	Thermoplastic Flashing	1 1/2, 2, 3"	12	12.90
11911	14104	Thermoplastic Flashing	4"	12	15.76

Aluminum Self-Seal Roof Flashings

12920	12101	Aluminum Flashing	1-1/4", 1-1/2"	12	30.71
12933	12102	Aluminum Flashing	2"	12	31.75
12946	12103	Aluminum Flashing	3"	12	32.91

Galvanized Self-Seal Roof Flashings

11840	12201	Galvanized Flashing	1 1/4", 1 1/2"	20	24.89
11853	12202	Galvanized Flashing	2"	20	24.57
11866	12203	Galvanized Flashing	3"	20	28.31
11871	12209	Galvanized Flashing	1 1/4, 1 1/2, 2, 3"	20	23.90
11879	12204	Galvanized Flashing	4"	20	28.59

Solder Preparation Accessories

Economy Fitting Brush Features:

- Galvanized stem wire with stainless steel bristles.

Standard Fitting Brush Features:

- High carbon crimped steel bristles.
- Two-wire galvanized stem with plastic hanging hole.



FB-E Series



FB Series

Part Number	Description	Ctn Qty	List Price
FB50E	1/2" Economy Fitting Brush	12	\$ 3.96
FB75E	3/4" Economy Fitting Brush	12	4.02
FB100E	1" Economy Fitting Brush	12	4.43
FB125E	1-1/4" Economy Fitting Brush	8	6.04
FB150E	1-1/2" Economy Fitting Brush	6	6.61
FB200E	2" Economy Fitting Brush	6	7.18
FB50	1/2" Standard Fitting Brush	12	5.19
FB75	3/4" Standard Fitting Brush	12	5.52
FB100	1" Standard Fitting Brush	12	5.90
FB125	1-1/4" Standard Fitting Brush	8	7.06
FB150	1-1/2" Standard Fitting Brush	6	7.84
FB200	2" Standard Fitting Brush	6	8.29



AC310

Plumber's Abrasive Cloth Features:

- 120 grit.
- Water resistant abrasive cloth.
- Specially processed for cleaning copper tubing and fittings.
- As a utility cloth, plumbers find many uses on metal and wood.

Part Number	Description	Size	Ctn Qty	List Price
AC310	120 grit abrasive	11/2" x 10 yards	24 rolls	\$ 12.56
OM5	Open Mesh cloth	1 1/2" x 5 yards	24 rolls	18.32
OM10	Open Mesh cloth	1 1/2" x 10 yards	24 rolls	29.47

PEX Accessories:

- Approved for use with ASTM F876/F877 SDR-9 PEX plumbing and hydronic radiant heating systems incorporating ASTM F-1807 insert fittings.
- Copper crimp rings manufactured from UNS C10200 or UNS C12200 copper alloy and are annealed to 35-45 Rockwell 15T scale for ease of crimping.



**STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.**

CB PRODUCT CODE #7.
Crimp Rings



Crimp Rings



Crimp Sleeves

Part Number	Size Description	Bag/Ctn Qty	List Price
COPPER CRIMP RINGS			
CBXCR2	Copper Crimp Ring for 3/8" PEX Tubing	100/2000	\$ 0.54
CBXCR3	Copper Crimp Ring for 1/2" PEX Tubing	100/4000	0.56
CBXCR58-B	Copper Crimp Ring Black for 5/8" PEX Tubing	100	0.95
CBXCR4	Copper Crimp Ring for 3/4" PEX Tubing	100/2000	0.76
CBXCR5	Copper Crimp Ring for 1" PEX Tubing	50/500	0.98
CBXCR6	Copper Crimp Ring for 1 1/4" PEX Tubing	100/400	2.95

STAINLESS STEEL CRIMP SLEEVES

CBXSS3	Stainless Steel Crimp Sleeve 1/2" PEX	50/5000	0.91
CBXSS4	Stainless Steel Crimp Sleeve 3/4" PEX	50/3200	1.30
CBXSS5	Stainless Steel Crimp Sleeve 1" PEX	25/1600	1.93

**STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.**

CB PRODUCT CODE #3.
Tools



HCM
HADSSI



HAD

Part Number	Size Description	Bag/Ctn Qty	List Price
CRIMP TOOLS * Made in USA			
HCM2	3/8" Single Hand Copper Ring Crimper	1	\$ 221.16
HCM3	1/2" Single Hand Copper Ring Crimper	1	221.16
HCM4	3/4" Single Hand Copper Ring Crimper	1	221.16
HCM5	1" Single Hand Copper Ring Crimper	1	303.06
NEW IHCM3	1/2" Single Hand Copper Ring Crimper IMPORT	1/20	129.47
NEW IHCM4	3/4" Single Hand Copper Ring Crimper IMPORT	1/20	129.47
HAD3	1/2" Copper Ring Crimp Tool PEX	1	238.54
HAD4	3/4" Copper Ring Crimp Tool PEX	1	268.39
HAD34	1/2 X 3/4" Copper Ring Crimp Tool PEX	1	238.54
HAD5	1" Copper Ring Crimp Tool PEX	1	298.25
NEW IHAD5	1" LONG HANDLE Copper Crimp Tool PEX IMPORT	1	172.28
HADSS3I	1/2" PEX SS SLEEVE Crimper Tool	1	136.85
HADSS4I	3/4" PEX SS SLEEVE Crimper Tool	1	173.29
HADSS5I	1" PEX SS SLEEVE Crimper Tool	1	194.73

* AGI warranty does not apply to PEX Crimp Tools. Refer to manufacturers warranty.

PEX Tubing Installation Accessories



PEXGrip® Series Pinch Clamp Features:

- Patented PEXGrip® Technology.
- Preset to grip tube.
- Prevents clamp from sliding for easier crimping.
- Provides a 360 leak-free seal.
- Narrow band for concentrated seal compression.
- Requires only one installation tool for all clamp sizes.
- Tamper-evident design.
- Stepless® Ear Clamps 167 for PEX.
- ASTM F2098 for use with ASTM F1807 and F2159 insert fittings, ASTM F876 PEX tubing and ASTM F877 PEX systems.



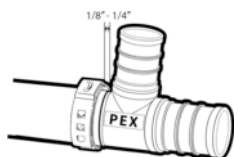
NEW



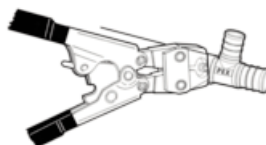
Standard PEX clamp
vs. PEXGrip® Clamp

Installation:

For proper Installation of clamps, use calibrated, genuine Oetiker installation tools.



1. Slip clamp over tubing.
The recommended distance
(dimension) between the
clamp and end of the tube
is 1/8" - 1/4"



2. Close clamp ear with tool.
Tool will not release until
clamp is fully closed.



3. IMPORTANT: For proper
installation of Oetiker PEX
clamps, full ear closure is
required. Visually inspect clamp
for correct closed ear form.

**STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.**

CB PRODUCT CODE #7.
Crimp Rings

Part Number	Description	PEX Tube	Bag/Case Qty	List Price
OETIKER PEXGrip® STAINLESS STEEL PINCH CLAMPS				
CBXSSPG2	PEXGrip SS Pinch Clamps	3/8"	100/2000	\$ 0.77
CBXSSPG3	PEXGrip SS Pinch Clamps	1/2"	100/2000	1.00
CBXSSPG58	PEXGrip SS Pinch Clamps	5/8"	50/2500	1.59
CBXSSPG4	PEXGrip SS Pinch Clamps	3/4"	50/2000	1.24
CBXSSPG5	PEXGrip SS Pinch Clamps	1"	50/1000	1.71

NEW

Tapes - PTFE Thread Seal



HTST Series



Imported PTFE 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.
- Not for use on oxygen lines.



WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Width	Length	Color	Ctn/Case Qty	List Price
HTST260-1/2	1/2"	260 inches	White	144/576	\$ 1.75
HTST260-3/4	3/4"	260 inches	White	144/576	2.51
HTST520-1/2	1/2"	520 inches	White	144/576	2.57
HTST520-3/4	3/4"	520 inches	White	144/576	3.16
HTST520-1	1"	520 inches	White	144/576	3.94



HTST SS Series



HARVARD® Master Contractor™

Imported PTFE Thread Seal Tape

For Stainless Steel Threads Features:

- High density thread seal tape for stainless steel threads.
- Silver color. 4 mil thick.
- Impregnated with nickel for smooth thread connections.
- Prevents galling and seizing during assembly.
- No need for additional thread seal paste.
- Meets ASTM D-3308. Mil. Spec. T-27730A.
- Not for use on oxygen lines.



Part Number	Width	Length	Color	Ctn/Case Qty	List Price
HTST60-1/2SS	1/2"	60 inches	Silver	144/576	\$ 1.79
HTST260-1/2SS	1/2"	260 inches	Silver	144/576	5.98



HTST XHD Series



HARVARD® Master Contractor™

Imported Extra High Density PTFE Thread Seal Tape

Features:

- Professional grade density.
- Thickness 3.5 mil, density 0.8g/cm³
- Same as Blue Monster™ and Hercules® Megatape.
- Use on steel, stainless steel, brass, aluminum, copper and all plastics.
- No need for additional thread seal paste.
- White color.
- Mil. Spec. T-27730A. Meets ASTM D-3308. UL Listed.
- Counter display packed.
- Not for use on oxygen lines.



Blue Monster™ is a trademark of The Mill Rose Company.
Hercules® is a registered trademark of Oatey.



Part Number	Width	Length	Color	Display Ctn/Case Qty	List Price
HTST260-1/2XHD	1/2"	260"	White	150/900	\$ 1.91
HTST520-1/2XHD	1/2"	520"	White	100/600	2.72
HTST1429-1/2XHD	1/2"	1429"	White	45/270	7.44
HTST260-3/4XHD	3/4"	260"	White	100/600	2.07
HTST520-3/4XHD	3/4"	520"	White	100/600	3.55
HTST1429-3/4XHD	3/4"	1429"	White	27/162	7.36

Tapes - PTFE Thread Seal



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	\$ 3.67
HTT520	1/2"	520 in	White	144	5.16
HTT520-3/4	3/4"	520 in	White	144	7.01
HTT520-1	1"	520 in	White	144	8.25
HTT260-1/2OXY	1/2"	260 in	Green	144	8.12
HTT260-1/2PP	1/2"	260 in	Pink	144	8.12
HTT260-1/2XHD	1/2"	260 in	White	144	8.12
HTT260-1/2SS	1/2"	260 in	Light Gray	144	8.12
HTT260-1/2GAS	1/2"	260 in	Yellow	144	8.12



PLB 90 Series



Dow Corning® General Purpose Silicone Sealant

Features:

- Cures to 100% silicone rubber.
- One part, ready to use. Fast cure, high strength.
- Resistant to sunlight & weather extremes.
- Remains flexible; will not become brittle, crack or tear.
- Removable, reusable, resealable nozzle.
- Meets the requirements of FDA Regulation No. 21CFR177.2600.

Dow Corning General Purpose Silicone Sealant is a one-part acetoxy cure silicone sealant for general purpose applications. Provides a flexible bond and will not harden or crack. Trademate General Purpose Silicone Sealant is a high performance sealant, with +/- 25% movement capability when properly applied.

It can be used as a bedding material, formed-in-place gaskets and bumpers. Adhere trim, name plates, signs. Seal around sinks, faucets, showers, tubs, toilets and vents. It can be used for most marine applications. Seal between hull and deck, most boat decks, windows, port lights, windshields and hatches.

Product Properties:

Tooling Time *	5-10 minutes
Tack Free Time *	15-20 minutes
Complete Set-up time *	24 hours (1/8")
Cure System	Acetoxy
Application Temperature Range	-20°F to 122°F
	-29°C to 50°C
As Cured (after 7 days)	
Durometer hardness Shore A	27 points
Tensile Strength	350 psi
Elongation	600 %
Temperature Range - continuous	-40°F to 350°F
	-40°C to 176°C
Movement capability	+/- 25%
* At 77°F (25°C) and 50% relative humidity	

Approval/Specifications:

- ASTM C920 Type S, Grade NS, Class 25, Use NT, G and A.
- Federal Specification TT-S-001543A, Type non-sag, Class A,
- Federal Specification TT-S-00230C, Type II, Class A



9" Ratchet Style Caulking Gun

Storage:

- Store below 90° F (32°C) in a dry place.
- To store short term, replace cap.
- To store long term, unscrew nozzle, screw cap in cartridge and store nozzle in cap.

Limitations:

- Not for structural glazing
- Not paintable
- Not suited for prolonged submersion in water or below-grade applications.
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluoroethylene.
- Not suitable for surfaces that might bleed oils, plasticizers or solvents or porous surfaces such as cement-like materials, stone or surfaces prone to attack by weak acids.
- May not cure properly if used in spaces confined from atmospheric moisture.
- May cause corrosion on some brass, copper, zinc or zinc-alloy containing fixtures (galvanized).
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
- Not for use where abrasion and physical abuse are encountered.

Part Number	Size	Color	Ctn Qty	List Price
PLB90C	10.3 oz. cartridge	Clear	12	\$ 25.58
CG9	9" Ratchet	Blue	20	10.18

DOW CORNING

Dow Corning® Tub, Tile & Ceramic Silicone Sealant Features:

- Cures to 100% silicone rubber.
- One part, ready to use. Fast cure, high strength.
- **Cured silicone is mildew resistant**
- Remains flexible; will not become brittle, crack or tear.
- Removable, reusable, resealable nozzle.
- Clear & almond colors meet the requirements of FDA Regulation No. 21CFR177.2600.

Dow Corning Tub, Tile & Ceramic Silicone Sealant is a one-part acetoxy cure silicone sealant for non-porous surface applications requiring a **mildew-resistant** sealant. This versatile material can be used as an adhesive, sealant, or grout for repairing or replacing ceramic tiles as well as in many other plumbing applications. It can be used for tub and shower enclosures.

It can be used to form watertight seals around bathtubs, shower enclosures, sink vanities, countertops, lavatories, faucets, saunas, hot tubs, plumbing fixtures, drains, piping, shower doors and floor seams.


PLB 100 Series

PLB 103 Series


Product Properties:

Tooling Time *	5-10 minutes
Tack Free Time *	15-20 minutes
Complete Set-up time *	24 hours (1/8")
Cure System	Acetoxy
Application Temperature Range	-20°F to 122°F -29°C to 50°C
As Cured (after 7 days)	
Durometer hardness Shore A	27 points
Tensile Strength	325 psi
Elongation	600 %
Temperature Range - continuous	-40°F to 350°F -40°C to 176°C
Movement capability	+/- 25%
* At 77°F (25°C) and 50% relative humidity	

Approval/Specifications:

- ASTM C920 Type S, Grade NS, Class 25, Use NT, G and A.
- Federal Specification TT-S-001543A, Type non-sag, Class A,
- Federal Specification TT-S-00230C, Type II, Class A

Storage:

- Store below 90° F (32°C) in a dry place.
- To store short term, replace cap.
- To store long term, unscrew nozzle, screw cap in cartridge and store nozzle in cap.

Limitations:

- Not for structural glazing
- Not paintable
- Not suited for prolonged submersion in water or below-grade applications. Not for aquarium use as product contains a fungicide.
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluoroethylene.
- Not suitable for surfaces that might bleed oils, plasticizers or solvents or porous surfaces such as cement-like materials, stone or surfaces prone to attack by weak acids.
- May not cure properly if used in spaces confined from atmospheric moisture.
- May cause corrosion on some brass, copper, zinc or zinc-alloy, containing fixtures (galvanized).
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
- Not for use where abrasion and physical abuse are encountered.


9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
PLB103C	3 oz tube	Clear	12	\$ 16.18
PLB103W	3 oz tube	White	12	16.18
PLB100C	10.3 oz cartridge	Clear	12	25.40
PLB100W	10.3 oz cartridge	White	12	25.40
CG9	9" Ratchet	Blue	20	10.18

www.americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299



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 out lasts 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	\$ 216.01



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty	List Price
CG9	9" Ratchet	Blue	20	\$ 10.18



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.



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

31040

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	\$ 23.67
31110 (20029)	11 oz. aerosol	12	27.14
51600 (24575)	32 oz. non-aerosol trigger spray	12	55.91



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	\$ 27.98



51010SL



51040

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	\$ 11.56
51040 (82334)	1 gallon	4	216.19


72350
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	\$ 10.01
21030 (82325)	3 oz. tube	12	16.91
72350 (41150)	400 g cartridge	12	36.83
41160 (82329)	400 g jar	12	37.61
41050 (82330)	5 lb. pail	4	193.76
41030 (82331)	30 lb. pail	1	1091.80

**Super
Lube®**


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	\$ 14.10
12016	16 oz. bottle	12	31.00

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	\$ 25.28
85010	1 gallon	4	207.23



Counter Display



Super Lube Grease w/ PTFE Counter display NSF

- 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 NSF

- 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	\$ 345.76
51013	Counter display w/ Oiler	48	509.51





Permatex and Devcon Industrial Products

We offer a full line of Permatex and Devcon industrial products from ITW. Threadlockers, threadsealants, gasketing products, lubricants, Fast Orange hand cleaners, putty and epoxies. Our stock offering is shown below. Contact Customer Service for price and availability of additional items.

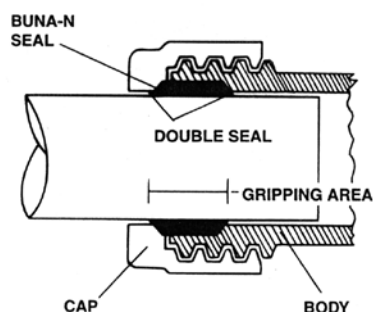


Part No.	Product Description	Case Qty	List Price
09128	PERMATEX® Copper Anti-Seize Lubricant - 8 oz. brush top bottle	6	\$ 105.35
23218	PERMATEX® FAST ORANGE® Hand Cleaner (Smooth Lotion) - 1 gal. plastic bottle pump	4	197.07
24010	PERMATEX® Medium Strength Threadlocker Blue GEL - 10 gm GEL TWIST™ tube carded	6	103.76
24105	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 13 oz. cartridge	12	177.34
24210	PERMATEX® Medium Strength Threadlocker Blue - 10 ml bottle, carded	6	95.51
24225	PERMATEX® Medium Strength Threadlocker Blue - 250 ml bottle	2	914.40
24250	PERMATEX® Medium Strength Threadlocker Blue - 50 ml bottle	6	271.44
24350	PERMATEX® Surface Insensitive Threadlocker Blue - 50 ml bottle	6	289.54
25219	PERMATEX® FAST ORANGE® Hand Cleaner (Pumice Lotion) - 1 gal. plastic bottle pump	4	191.53
25224	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 7 oz net wt. pressurized can	6	197.10
26210	PERMATEX® Permanent Strength Threadlocker Red - 10 ml bottle, carded	6	95.51
26225	PERMATEX® Permanent Strength Threadlocker Red - 250 ml bottle	2	914.40
26250	PERMATEX® Permanent Strength Threadlocker Red - 50 ml bottle	6	271.44
27010	PERMATEX® High Strength Threadlocker Red GEL - 10 gm GEL TWIST™ tube, carded	6	103.65
27110	PERMATEX® High Strength Threadlocker Red - 10 ml bottle, carded	6	95.51
27125	PERMATEX® High Strength Threadlocker Red - 250 ml bottle	2	914.40
27150	PERMATEX® High Strength Threadlocker Red - 50 ml bottle	6	271.44
27250	PERMATEX® High Temperature Threadlocker Red - 50 ml bottle	6	278.63
27725	PERMATEX® Large Diameter Threadlocker Red - 250 ml bottle	2	955.70
29050	PERMATEX® Penetrating Grade Threadlocker Green - 50 ml bottle	6	265.25
31163	PERMATEX® Copper Anti-Seize Lubricant - 1 lb. bottle	12	177.74
33694	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 10.1 fl. oz. cartridge	6	243.64
51531	PERMATEX® Anaerobic Flange Sealant - 50 ml tube	10	123.98
51813	PERMATEX® Anaerobic Gasket Maker - 50 ml tube, carded	6	123.98
54550	PERMATEX® Pneumatic / Hydraulic Sealant - 50 ml bottle	6	265.30
56521	PERMATEX® High Performance Thread Sealant - 50 ml tube, carded	6	121.10
56750	PERMATEX® Maximum Temperature Thread Sealant - 50 ml tube, carded	6	121.10
59235	PERMATEX® High Temperature Thread Sealant - 50 ml tube, carded	6	121.10
60950	PERMATEX® Bearing Mount for Close Fits - 50 ml bottle	6	275.67
68050	PERMATEX® Bearing Mount for Relaxed Fits - 50 ml bottle	6	289.54
70144	PERMATEX® ZipGrip® GPE 3 Wicking - 14 gm bottle	12	130.32
70213	PERMATEX® ZipGrip® GPE 15 Rubber Bonder - 1/3 oz. bottle	12	147.45
70350	PERMATEX® ZipGrip® GPE 30 All Purpose - 1 oz. bottle	10	144.20
70450	PERMATEX® ZipGrip® GPE 100 All Purpose MV - 1 oz. bottle	10	147.51
77124	PERMATEX® #771 Nickel Anti-Seize (Maximum Temperature) - 8 oz. brush top bottle	12	164.08
77164	PERMATEX® #771 Nickel Anti-Seize (Maximum Temperature) - 1 lb. brush top bottle	10	307.40
80003	PERMATEX® FORM-A-GASKET® #1 Sealant - 11 oz. tube, boxed	12	74.46
80011	PERMATEX® FORM-A-GASKET® #2 Sealant - 11 oz. tube, boxed	12	70.92
80015	PERMATEX® FORM-A-GASKET® #2 Sealant - 1.5 oz. tube, carded	12	28.46
80016	PERMATEX® FORM-A-GASKET® #2 Sealant - 3 oz. tube, carded	12	34.85

Part No.	Product Description	Case Qty	List Price
80017	PERMATEX® Aviation FORM-A-GASKET® #3 Sealant - 16 fl. oz. bottle	12	96.08
80022	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 3 oz. tube, carded	12	40.23
80045	PERMATEX® #51 Pipe Joint Compound (N/A in California) - 16 oz. bottle	12	71.96
80050	PERMATEX® #66 Clear Silicone Adhesive Sealant - 3 oz. tube, carded	12	40.36
80071	PERMATEX® #133 Anti-Seize Lubricant - 4 oz. brush top bottle	12	56.39
80078	PERMATEX® #133 Anti-Seize Lubricant - 8 oz. brush top bottle	12	99.79
80208	PERMATEX® #767 Anti-Seize Lubricant - 1 lb. brush top bottle	12	168.62
80628	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 12.9 oz. cartridge	12	130.17
80632	PERMATEX® #14 Thread Sealant with TEFLON® - 4 oz. bottle	12	52.76
80633	PERMATEX® #14 Thread Sealant with TEFLON® - 16 oz. bottle	12	120.72
80855	PERMATEX® #66 Clear Silicone Adhesive Sealant - 11 oz. cartridge	12	124.02
81160	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 3 oz. tube, carded	12	50.83
81173	PERMATEX® #16 Black LO Silicone Adhesive Sealant - 12.9 oz. cartridge	12	125.34
81409	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 11 oz. cartridge	12	141.72
81724	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 3.35 oz. tube, carded	12	56.47
81725	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 13 oz. cartridge	12	169.52
81860	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 7.25 oz. net wt. pressure can	6	129.12
81878	PERMATEX® #101 ULTRA COPPER® Maximum Temp Gasket Maker - 3 oz. tube, carded	12	54.62
81913	PERMATEX® #66 Clear Silicone Adhesive Sealant - 7.25 oz. net wt. pressurized can	12	126.24
81915	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 7.25 oz. net wt. pressurized can	12	136.86
82080	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 8.75 oz. net wt. pressurized can	6	179.77
82180	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 3.35 oz. tube, carded	12	58.38
82194	PERMATEX® #599 ULTRA GREY® Rigid Assembly Gasket Maker - 3.5 oz. tube, carded	12	60.92
82751	PERMATEX® #101 ULTRA COPPER® Maximum Temp Gasket Maker - 300 ml cartridge 59713	6	179.52
85080	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 9.5 oz net wt. PowerBead™ can	6	202.59
85224	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 7.5 oz net wt. PowerBead™ can	6	222.84
85519	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 9.5 oz net wt. PowerBead™ can	6	191.97
85913	PERMATEX® #66 Clear Silicone Adhesive Sealant - 7.25 oz net wt. PowerBead™ can	6	136.25
85915	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 7.25 oz net wt. PowerBead™ can	6	149.89
10110	DEVCON® Plastic Steel® Putty (A) - 1 lb	6	276.48
10210	DEVCON® Plastic Steel® Liquid (B) - 1 lb	6	312.48
10610	DEVCON® Aluminum Putty (F) - 1 lb	6	399.85
10710	DEVCON® Aluminum Liquid (F-2) - 1 lb	6	388.06
10760	DEVCON® Titanium Putty - 1 lb	6	717.12
11490	DEVCON® Wear Guard™ High Load - 30 lb	1	2492.12
11760	DEVCON® Brushable Ceramic red - 2 lb	6	1160.12
13100	DEVCON® Floor Patch™ - 10 lb	1	654.01
14200	DEVCON® 5 Minute® Epoxy (1-1) - 15 oz	6	293.34
14210	DEVCON® 5 Minute® Epoxy (1-1) - 2.5 oz	24	60.47
14240	DEVCON® 5 Minute® Epoxy Gel opaque (1-1) - 25ml Dev-Tube™	24	46.69
14250	DEVCON® 5 Minute® Epoxy (1-1) - 25ml Dev-Tube™	24	34.38
14251	DEVCON® 10 Minute™ Epoxy clear (1-1) - 50ml	12	91.36
14255	DEVCON® 10 Minute™ Epoxy Black (1-1) - 50ml	12	89.64
14280	DEVCON® Mark V™ Gun (1-1 and 10-1 ratio) - use with 50ml - Applicator Gun	1	345.71
14285	DEVCON® Mark V™ 1-1 Mix Nozzle for 50ml - Mix Nozzle	12	9.48
14300	PLEXUS® MA300™ straw [1-1] - 25ml Dev-Tube™	24	61.89
14310	DEVCON® 2 Ton® Epoxy (1-1) - 25ml Dev-Tube™	24	39.77
14320	PLEXUS® MA300 - 50ml 1:1 Ratio Twin Cartridge- Cream 30500	12	87.91
15250	DEVCON® Flexane® 94 Liquid - 1 lb	6	355.06
19510	DEVCON® Cleaner Blend 300 - 1 pt	6	221.74
DA291	DEVCON® Plastic Welder™ white (1-1) - 47ml	12	92.33

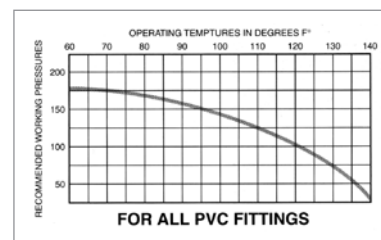


STANDARD COMPRESSION



PVC Compression Fitting Features:

- Iron pipe size
- For use with cold water only.
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F



CPC Series IPS

NSF/ANSI
61+372

UPC

NEW

Part Number

OLD

Part Number

IPS Size

Body Length

Ctn Qty

List Price

PVC IPS Compression Couplings, comp x comp

CPC0500	110-05	1/2"	4"	28	\$ 10.78
CPC0750	110-07	3/4"	4-1/4"	24	14.10
CPC1000	110-10	1"	4-1/2"	15	18.32
CPC1250	110-12	1-1/4"	5"	10	28.14
CPC1500	110-15	1-1/2"	5-1/2"	16	29.05
CPC2000	110-20	2"	6"	12	37.79
CPC2500	110-25	2-1/2"	8"	3	71.06
CPC3000	110-30	3"	9"	3	93.02
CPC4000	110-40	4"	10"	3	153.00
CPC6000	110-60	6"	10"	1	355.39



CPT-T Series IPS

NSF/ANSI
61+372

PVC IPS Threaded Tee, comp x comp x fipt

CPT0500T	120-05	1/2"	4"	24	13.22
CPT0750T	120-07	3/4"	4-1/4"	20	20.21
CPT1000T	120-10	1"	4-1/2"	15	26.73
CPT1250T	120-12	1-1/4"	5"	15	35.65
CPT1500T	120-15	1-1/2"	5-1/2"	12	40.91
CPT2000T	120-20	2"	6"	10	58.31



CPT-S Series IPS

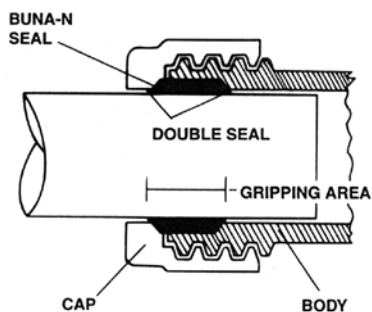
NSF/ANSI
61+372

PVC IPS Slip Tees, comp x comp x slip

CPT0750S	121-07	3/4"	4-1/4"	20	21.32
CPT1000S	121-10	1"	4-1/2"	15	28.17
CPT1250S	121-12	1-1/4"	5"	15	35.65
CPT1500S	121-15	1-1/2"	5-1/2"	12	40.91
CPT2000S	121-20	2"	6"	10	58.31

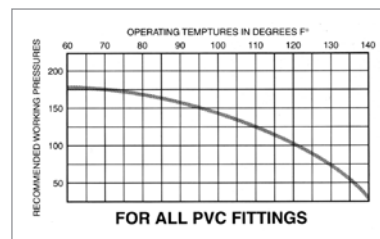
PVC Compression Fittings - IPS, CTS

STANDARD COMPRESSION



PVC Compression Fitting Features:

- Iron pipe size
- For use with cold water only.
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F



CPA Series IPS

NSF/ANSI
61+372

UPC

NEW Part Number	Previous Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC IPS Male Adapter, comp x mipt					
CPA0750	130-07	3/4"	2 7/8"	20	\$ 11.38
CPA1000	130-10	1"	3 1/8"	30	13.26
CPA1250	130-12	1-1/4"	3 5/16"	20	16.45
CPA1500	130-15	1-1/2"	3 1/2"	16	19.56
CPA2000	130-20	2"	3 3/4"	12	25.88



CCC Series CTS

NSF/ANSI
61+372

UPC

NEW Part Number	Previous Part Number	CTS Size	Body Length	Ctn Qty	List Price
PVC CTS Compression Coupling, comp x comp					
CCC0500	210-05	1/2"	4"	25	\$ 20.97
CCC0750	210-07	3/4"	4"	28	24.78
CCC1000	210-10	1"	4-1/4"	24	26.07



CCT Series CTS

NSF/ANSI
61+372

PVC CTS Threaded Tee, comp x comp x fipt					
CCT0750	220-07	3/4"	4"	24	25.75
CCT1000	220-10	1"	4-1/4"	18	28.17
CCT2000	220-20	2"	6"	10	42.76

TECHNICAL DATA FOR ALL FLO CONTROL FITTINGS & VALVES

1. PVC MATERIAL SPECIFICATION: PVC Type I, Grade I, Cell class 12454-B meeting requirements of ASTM D-1784-75 is used in the manufacturing of all fittings recommended for use of potable cold water (see temperature vs. pressure chart). Not recommended for use on systems exceeding 100 psi @ 120°F.

2. CPVC MATERIAL SPECIFICATION: CPVC Type IV, Grade I, cell Class 23447-B meeting requirements of ASTM D-1784-75 is used in the manufacturing of all fittings recommended for use on potable hot water systems in accordance with ASTM D-2846-73. Not recommended for use on systems that will exceed 100 psi @ 180°F.

3. BUNA-N SEALS: The gasket seal material is made of high quality Buna-N elastomeric compound which meets the requirements of ASTM D-2000. It is generally resistant to many hydrocarbons, fats, oils, greases, hydraulic fluids and chemicals. It is generally attacked by Ozone, Ketones, Esters, Aldehydes, chlorinated and nitro hydrocarbons. Reference chemical resistance under NBR (Nitrile) elastomers for specific listings.

4. EPDM O-RINGS: The o-ring material is made of high quality EPDM (Ethylene Propylene Copolymer) which meets the requirements of ASTM D-2000. EPDM has exceptionally good weather aging and ozone resistance, excellent water and chemical resistance and excellent aging resistance for most applications. EPDM is a polymer where oil and solvent resistance is poor. However, it is fairly good in ketones and alcohols. Reference chemical

resistance under EPDM, EPT or EPR Elastomers for specific listings.

5. DOUBLE SEAL of standard compression fittings. A compressive action is created as the cap is tightened squeezing the Buna-N seals into the tapered recessed areas of the cap and body. This process creates a highly concentrated pressure at the two "double seal" points, thus providing positive protection against leakage.

6. COMPRESSION CONNECTIONS: Compression cap should be drawn up hand tight to insure proper alignment and seating of gasket, then tighten 3/4 to 1 turn with a Flo Spanner Wrench or strap wrench. Average torque should be approximately 25 foot pounds on 1/2" through 2" IPS and 35 foot pounds on 2 1/2" and larger. Compression fittings are not recommended for use on compressed air lines or natural gas lines.

7. THREAD CONNECTIONS: Use PTFE thread seal tape on all IPS thread connections. IPS thread connections should be made hand tight plus 1/2 to 3/4 turn with a wrench.

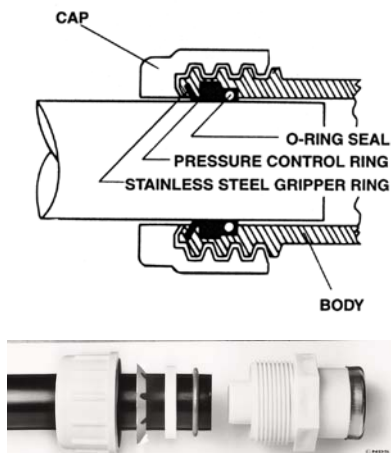
8. THRUST BLOCKING: When installing the standard compression seal fittings the pipe line must be restrained from lateral movement by thorough soil compaction on straight runs and thrust blocking at change of direction or reduction in size. Not recommended for use on pipe lines suspended on hangers.

9. FLO LOCK COMPRESSION ADAPTERS: Recommended for use on PVC pipe with wall thickness of SDR-26, Class 160 or greater and copper tubing. Not recommended for use on galvanized pipe unless surface is sanded smooth. The gripper ring is made of stainless steel.

10. ALL SPRINGS made of Series 300 stainless steel.

Flo-Lock Fittings - PVC & CPVC

FLO-LOCK COMPRESSION



PVC/CPVC Flo-Lock Fitting Features:

- Iron pipe and copper tube size
- For cold (PVC) or hot (CPVC) water use.
- Built in stiffener to insure grip.
- EPDM o-ring seal
- PVC ring for controlling o-ring pressure.
- Stainless steel gripping ring prevents pull-out.
- Rated at 160 psi static pressure @ 72°F.



Part Number	IPS Size	IPS Connection	Ctn Qty	List Price
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PVC IPS Male Adapter with Flo-Lock, flo lock x mipt

135-05	1/2"	1/2" mipt	25	\$ 20.02
135-07	3/4"	3/4" mipt	20	25.16
135-10	1"	1" mipt	30	29.97
135-12	1-1/4"	1-1/4" mipt	20	40.34
135-15	1-1/2"	1-1/2" mipt	16	48.50
135-20	2"	2" mipt	12	62.90



135 Series IPS

NSF/ANSI
61+372

UPC

PVC IPS Female Adapter with Flo-Lock, flo lock x fipt

136-05	1/2"	1/2" fipt	25	24.70
136-07	3/4"	3/4" fipt	20	30.17
136-10	1"	1" fipt	14	35.11



136 Series IPS

NSF/ANSI
61+372

Part Number	CTS Size	IPS Connection	Ctn Qty	List Price
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PVC CTS Male Adapter with Flo-Lock, flo lock x mipt

235-05	1/2"	1/2" mipt	50	\$ 24.14
235-10	1"	1" mipt	18	26.18
235-12	1-1/4"	1-1/4" mipt	24	35.47
235-20 *	2"	2" mipt	12	54.40

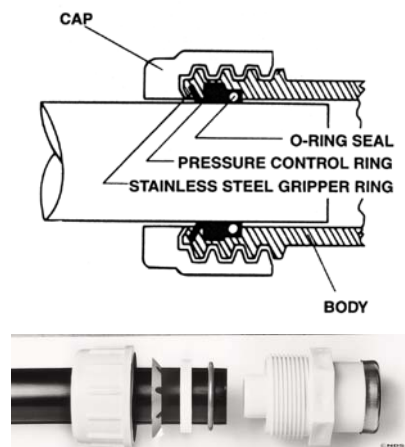


235 Series CTS

NSF/ANSI
61+372

UPC
* No UPC

FLO-LOCK COMPRESSION



NSF LISTED SE-14: ALL
Compression fittings are listed
by the National Sanitation
Foundation as acceptable for
use with potable water.

PVC Flo-Lock Series 700 Features:

- For water service line installations.
- Use on polyethylene pipe - tube size SDR-9, ASTM 2737.
- Reliable connections for polyethylene or copper tube.
- PVC type I material - 160 psi at 72°F.
- Dry pull test exceeds 400 psi.
- Quick burst test exceeds 600 psi.
- Stainless steel band to reinforce female thread.
- Not for use with compressed air or natural gas lines.



IAPMO LISTED: Listed by the
International Association of Plumbing and
Mechanical Officials Research Committee as
meeting the requirements set forth by the
Uniform Plumbing Code for potable water
systems. * Female threaded fittings are no
longer IAPMO approved.

Series 700 Fittings for:
Polyethylene tubing SDR-9 CTS - OD -
ASTM-2666 & ASTM-2737 dimensions.

Tubing Size	Nominal OD	Nominal ID	Pressure Rating - PSI
3/4"	0.875	0.675	160
1"	1.125	0.865	160
1 1/4"	1.375	1.059	160
1 1/2"	1.625	1.253	160
2"	2.125	1.629	160

Part Number	Tube Size	Description	Length	Ctn Qty	List Price
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710 Series

NSF/ANSI
61+372

UPC

PVC Couplings, ts x ts

710-07	3/4"	3/4" x 3/4"	4"	35	\$ 47.40
710-10	1"	1" x 1"	4"	24	56.41
710-17	1"	SDR9 x 3/4" SDR11	4"	36	69.41
710-12	1 1/4"	1 1/4" x 1 1/4"	4 1/2"	15	88.73
710-15 ☺	1 1/2"	1 1/2" x 1 1/2"	5"	15	101.01
710-20 ☺	2"	2" x 2"	5"	12	135.54



730 Series

NSF/ANSI
61+372

UPC

PVC Male Adapters, mipt x ts

730-07	3/4"	3/4" x 3/4"	2 5/8"	25	29.97
730-10	1"	1" x 1"	2 7/8"	18	36.62
730-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18	66.95
730-20 ☺	2"	2" x 2"	3 1/2"	12	108.28
730-71	3/4" x 1"	3/4" x 1"	2 7/8"	18	36.97



731 Series

NSF/ANSI
61+372

PVC Female Adapters, fipt x ts

731-07	3/4"	3/4" x 3/4"	2 5/8"	25	33.30
731-10	1"	1" x 1"	2 7/8"	15	50.10
731-12	1 1/4"	1 1/4" x 1 1/4"	2 7/8"	12	65.71
731-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18	76.86
731-20 ☺	2"	2" x 2"	4"	12	113.57
731-71	3/4" x 1"	3/4" x 1"	2 7/8"	15	48.14



733 Series

NSF/ANSI
61+372

UPC

PVC Spigot Adapters, ips spigot x ts, (For use with Sch 40 PVC tees, ells)

733-07	3/4"	3/4" x 3/4"	2 7/8"	18	28.69
733-10	1"	1" x 1"	2 7/8"	18	29.97
733-12	1 1/4"	1 1/4" x 1 1/4"	2 7/8"	12	55.24
733-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18	63.92
733-20 ☺	2"	2" x 2"	3 1/2"	12	102.36
733-71	3/4" x 1"	3/4" x 1"	3 1/2"	18	28.69

☺Insert stiffener supplied
must be used with this fitting



118 Series



NSF/ANSI
14

Pro-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
- 118 Series does not have union end.

NEW

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Flo-Span Expansion Couplings - NO UNION S x SPG				
118-05	1/2"	7 1/2"	28	\$ 12.57
118-07	3/4"	7 3/4"	24	13.91
118-10	1"	9 1/2"	15	16.12
118-12	1-1/4"	10 3/4"	10	30.33
118-15	1-1/2"	12 3/4"	16	33.26
118-20	2"	13 1/2"	12	50.84
118-25	2-1/2"	18 3/4"	3	79.00
118-30	3"	21"	3	98.68
118-40	4"	22 3/4"	3	172.54
QF-6000	6" S x S	26 1/4"	1	642.01



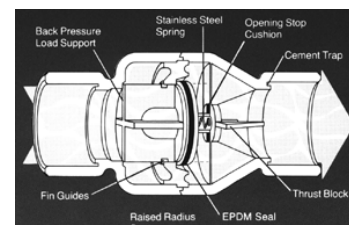
SW Series

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
Adjustable Strap Wrench			
SW400	1/2" through 4"	60	\$ 27.74
SW600	1/2" through 6"	60	41.89



PVC Spring Check Valve Features:

- To stop backflow and syphoning.
- All water applications.
- Maintenance free operation.
- Tapered valve body design & enlarged valve chamber reduces chatter & turbulence.
- Raised radius valve seat, EPDM Seal for positive seal.
- Stainless steel spring load of 1/2 lb. or 2 lb.
- Solvent weld or male and female thread connections.
- 200 P.S.I. static pressure rating @ 72° F.
- Excess solvent cement trap - Designed to help prevent excess cement or softened material from entering into the body and sealing area during installation.
- NSF/ANSI 61+372.



1001, 1011, 1012
Series

NSF/ANSI
61+372

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Spring Check Valves (fip x fip)				Spring Tension 1/2 lb
1001-05	1/2"	4-1/8"	20	\$ 35.71
1001-07	3/4"	4-1/8"	20	37.07
1001-10	1"	5-1/4"	20	53.08
1001-12	1-1/4"	6-3/16"	15	71.62
1001-15	1-1/2"	6-3/16"	15	76.35
1001-20	2"	7"	10	109.91



1011C Series

NSF/ANSI
61+372

PVC Spring Check Valves (slip x slip)				Spring Tension 1/2 lb
1011-05	1/2"	4-1/8"	20	35.82
1011-07	3/4"	4-1/8"	20	39.27
1011-10	1"	5-1/4"	20	54.20
1011-12	1-1/4"	6-3/16"	15	71.62
1011-15	1-1/2"	6-3/16"	15	76.35
1011-20	2"	7"	10	109.83
1011-30	3"		8	197.76
Clear				
1011C-15	1-1/2"	6-3/16"	10	84.64
1011C-20	2"	7"	10	128.19

PVC Spring Check Valve, (slip x slip)				Spring Tension 2 lbs.
1012-10	1"		20	55.08
1012-12	1-1/4"		15	73.96
1012-15	1-1/2"		15	78.82
1012-20	2"		10	113.44

NSF/ANSI
61+372



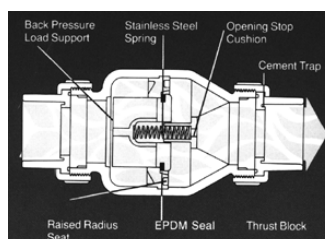
1800 Series (hex and round)

Foot Valve Screen (polyethylene, 100 mesh)				
1800-07	3/4" hex style	2-2/5"	1	6.17
1800-10	1" round style	2-4/5"	1	7.61
1800-12	1-1/4" hex style	3"	1	11.08
1800-15	1-1/2" round style	3-2/5"	1	13.16
1800-20	2" round style	3-4/5"	1	14.40

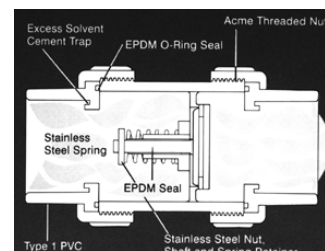


PVC True Union Spring Check Valve Features:

- Designed for easy body removal.
- Tail pieces remain in place.
- 1/2 lb. psi spring tension. 2 lb. spring tension available by special order.
- EPDM seal and o-rings.
- 200 P.S.I. static pressure rating @ 72° F.
- Stainless steel spring.
- Excess solvent cement trap.
- NSF/ANSI 61+372.



1700 Series



1790 Series



1700 Series

NSF/ANSI
61+372

Part Number	Description	Body Length	Ctn Qty	List Price
True Union Spring Check Valves – WHITE				1/2# Spring Tension
1700-15	1 1/2" spring check	8.345"	12	\$ 90.26
1700-20	2" spring check	9.735"	12	126.61



1700C Series

NSF/ANSI
61+372

True Union Spring Check Valves – CLEAR				1/2# Spring Tension
1700C-15	1 1/2" spring check	8.345"	12	110.05
1700C-20	2" spring check	9.735"	12	150.66



1790 Series

NSF/ANSI
61+372

Compact True Union Spring Check Valves - WHITE				1/2# Spring Tension
1790-15	1 1/2" compact valve	6.54"	15	89.11
1790-20	2" compact valve	7.35"	10	112.5



1790C Series

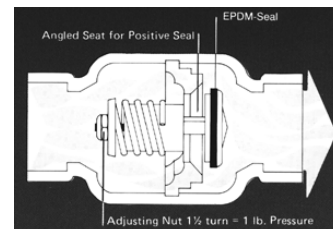
NSF/ANSI
61+372

Compact True Union Spring Check Valves - CLEAR				1/2# Spring Tension
1790C-15	1 1/2" compact valve	6.54"	15	97.02
1790C-20	2" compact valve	7.35"	10	132.09



PVC Adjustable Spring Check Valve Features:

- Use to restrain pressure in elevated pipelines.
- Ideal for preventing syphoning.
- Male or female threaded connection.
- 200 psi static pressure rating @ 72°F.
- Adjustable from 5 lb to 15 lb spring tension to retain a column of water 12 to 36 foot head.
- EPDM seal.
- NSF/ANSI 61+372.



1205 Series

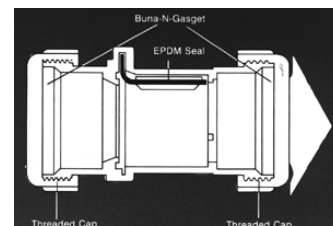
NSF/ANSI
61+372

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Adjustable Spring Check Valves (fip x fip)				
				Spring Tension 5 lb*
1205-05	1/2"	4-1/8"	20	\$ 41.18
1205-07	3/4"	4-1/8"	20	43.73
1205-10	1"	5-1/4"	20	57.12
1205-12	1-1/4"	6-3/16"	15	62.79
1205-15	1-1/2"	6-3/16"	15	77.90

* 1 1/2 turn = 1 lb. force

PVC SUMP CHECK Valve Features:

- Positive seal with long lasting EPDM weighted flapper and Buna-N gaskets.
- Easy installation and removal with compression seal connections. No hose clamps, cementing or threading necessary
- Allows 1 3/4" vertical movement of discharge pipe for easy removal of pump.
- Unitized body construction using spin welded process with permanent interlock of Buna-N flapper.
- Valve fits either 1 1/4" or 1 1/2" IPS size. Gaskets for both provided with each valve.
- Sump pumps with larger volume output use 1500 or 1520 series swing check. (see next page)
- Rated at 125 psi @ 72°F.

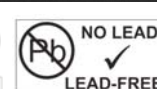
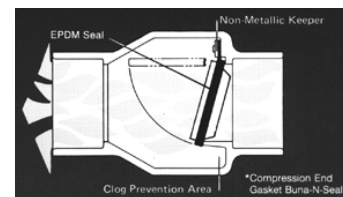


SUMP CHECK

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Sump Check Valve				
BUNA-N gaskets are included for both the 1 1/4" and 1 1/2" applications				
SUMP CHECK	1-1/4"-1-1/2"	5 1/4"	12	\$ 53.27

PVC Swing Check Valve Features:

- No metallic parts, corrosion resistant..
- Full flow design.
- Angle seat and weighted flapper designed for low pressure seal.
- PVC weighted and shielded flapper will retain backpressure up to 125 psi.
- Iron pipe sized 1/2" - 4".
- Compression style for IPS sized plastic or metal pipe 1 1/4" - 3"
- Ideal for close working areas, easy pipe alignment.
- Compression ends can be used as union connections.
- Designed for both horizontal and vertical use.
- Pressure rated 125 psi @ 72°F.
- NSF/ANSI 61+372.



1500 Series

NSF/ANSI
61+372

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Swing Check Valve - WHITE comp x comp				
1500-12	1-1/4"	7-1/2"	12	\$ 79.24
1500-15	1-1/2"	7-1/2"	12	83.69
1500-20	2"	9-3/4"	12	117.73
1500-30	3"	14"	2	319.00

PVC Swing Check Valve - CLEAR comp x comp

1500C-15	1-1/2"	7-1/2"	5	103.25
1500C-20	2"	9-3/4"	8	153.04



1520 Series

NSF/ANSI
61+372

PVC Swing Check Valve - WHITE slip x slip				
1520-05	1/2"	4-1/2"	25	51.10
1520-07	3/4"	4-1/2"	25	52.03
1520-10	1"	5-1/8"	25	53.90
1520-12	1-1/4"	5-1/4"	12	57.33
1520-15	1-1/2"	5-3/4"	12	59.13
1520-20	2"	6"	12	90.37
1520-30	3"	9"	4	162.63
1520-40	4"	9-1/2"	4	227.66

PVC Swing Check Valve - CLEAR slip x slip

1520C-10	1"	5-1/8"	1	74.20
1520C-12	1-1/4"	5 1/4"	1	78.93
1520C-15	1-1/2"	5 3/4"	12	84.78
1520C-20	2"	6"	12	122.24



1720 Series

NSF/ANSI
61+372

True Union Swing Check Valves - WHITE slip x slip				
1720-15	1 1/2"		12	64.73
1720-20	2"		12	94.57



1720C Series

NSF/ANSI
61+372

True Union Swing Check Valves - CLEAR BODY, WHITE NUTS/TAILS slip x slip				
1720C-10	1"		20	73.41
1720C-15	1 1/2"		12	93.21
1720C-20	2"		12	127.02
1720C-30	3"		20	251.92

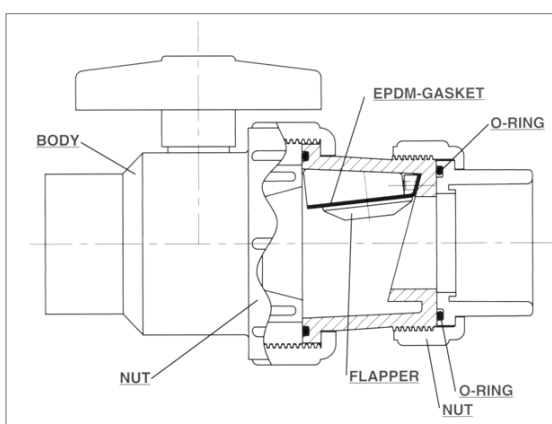


2200 Series



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.
- May be installed in vertical or horizontal position.
- Made of PVC type 1 grade 1 material meeting ASTM-D1784.
- Rated at 125 PSI static pressure @ 72°F



Part Number	Description	Ctn Qty	List
Price			
2200-15	1 1/2" Union x Slip	12	\$ 102.90
2200-20	2" Union x Slip	12	164.22
2200-15TU	1 1/2" Union x Union	12	136.36
2200-20TU	2" Union x Union	12	183.57
2200-15UC	1 1/2" Compression x Compression	12	131.20
2200-20UC	2" Compression x Compression	12	166.41

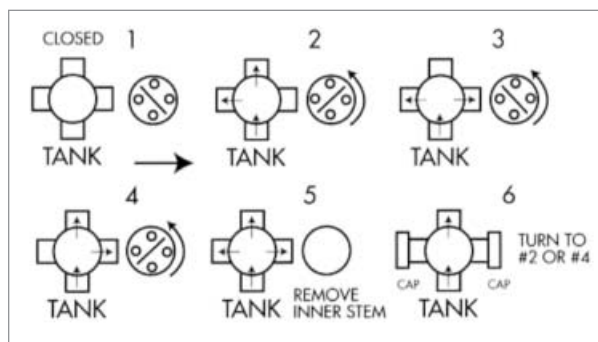
Diverter Valves, Sch 40 White Unions



575 Series

Diverter Valve Features:

- For septic tank leach fields.
- Made of tough molded plastic that will not shatter, bend, rust or corrode.
- Light in weight, easier to handle and less expensive to ship.
- Stem flow may be controlled to individual or up to 3 fields in any combination. With a 3-way stem, flow may be diverted to any two outlets. To allow flow through all outlets, the valve stem may be removed from the assembly.
- ABS is IAPMO listed.



Part Number	Description	Ctn Qty	List Price
575	4" ABS Diverter Valve, Black	4	\$ 420.00
575P	4" PVC Diverter Valve, White	4	415.49



1600 Series



Part Number	IPS Size	Ctn Qty	List Price
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SCHEDULE 40 - MADE IN USA

SLIP X SLIP

1600-15	1 1/2" Socket both ends, 2" spigot one end	24	\$ 36.19
1600-20	2" Socket both ends, 2 1/2" spigot one end	20	50.04



Valves - PVC Single Union, 3-way CPVC

PVC Single Union Ball Valve Features:

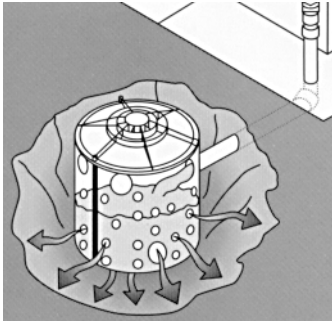


1350 Series



- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **Buna "N" O-Ring seal; HDPE seats.**
- 1-1/4 deep sockets on both ends for extra cementing surface area.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72°F.
- Threaded or socket.

Part Number	Threaded/Socket	Size	Ctn Qty	List Price
1350-15	Socket	1-1/2"	12	\$ 65.51



Flo-Well Storm Water Leaching System

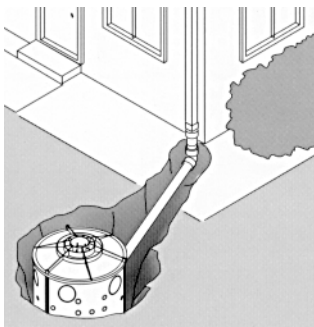
- Discharge water into the subsoil rapidly and easily.
- No need for piping systems to transport stormwater to a far-off point, large heavy equipment, considerable excavation of current landscape areas or large labor costs that those systems incur.

Materials:

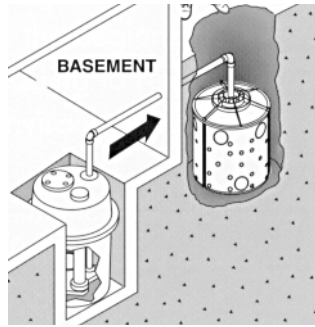
- Structural foam polyolefin with UV inhibitors.

Applications:

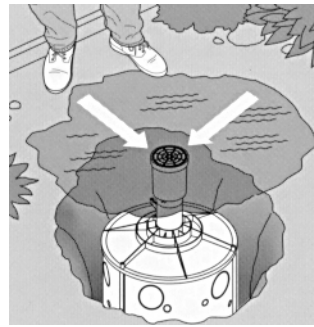
Flo-Well systems should be placed at least 10 feet from a structure or foundation.



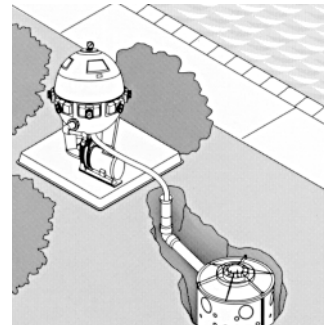
For gutters & downspouts



For sump pumps

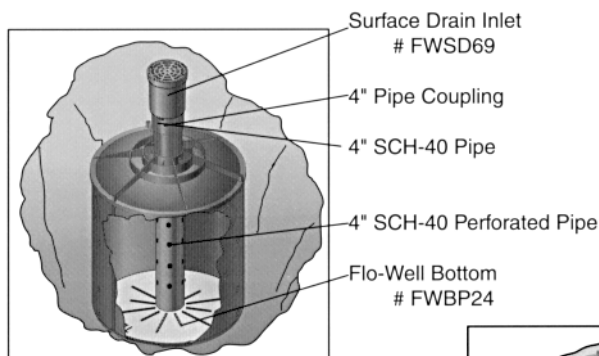


For low grade areas

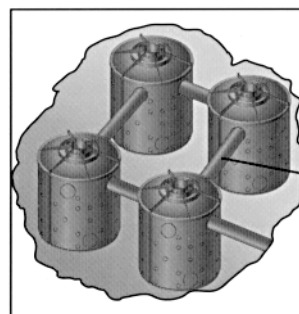


For pool backwash tanks

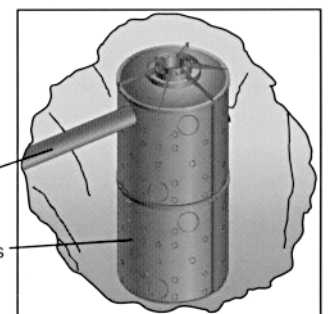
Options



For additional support

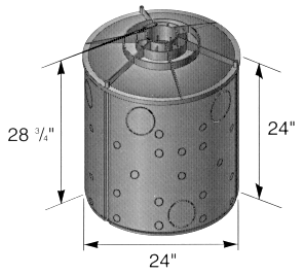


Can be connected



Can be stacked

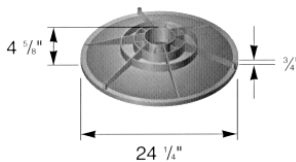
Flo-Well® Storm Water Leaching System



Flo-Well Storm water leaching system

- Includes 3 side panels, 1 top component
- 18 - 1 1/2" knockout leaching ports and 3 - 4 1/2" knockout inlet/outlet ports per panel.
- 49 gal capacity
- Fits 4" Sch 40 pipe and 4" DWV pipe

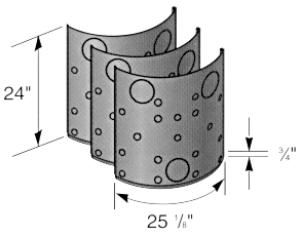
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWAS24	24 x 28 3/4" round system	Black	25.15	1	\$ 358.83



Flo-Well Cover

- Fits FWAS24 and FWSPS3

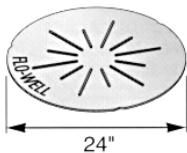
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWAS24C	24" dia cover	Black	8.0	2	197.00



Flo-Well Side Panels/ Extension Only

- Includes 3 side panels, 24" high, with 3/4" lip for stacking.
- Fits FWAS24
- 18 - 1 1/2" knockout leaching ports and 3 - 4 1/2" knockout inlet/outlet ports per panel.

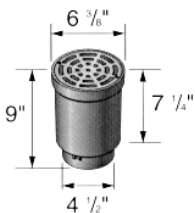
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWSPS3	side panels	Black	5.0	1	443.66



Flo-Well Bottom

- Six 1 1/2" leaching ports
- Fits FWAS24

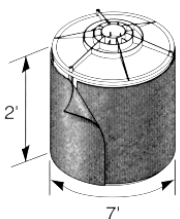
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWBP24	24" dia bottom	Black	3.5	5	141.65



Flo-Well Surface Drain Inlet with Grate

- 6" grate with 4" inlet.
- Fits FWAS24 and FWFAS24C, PVC Sch 40 fittings

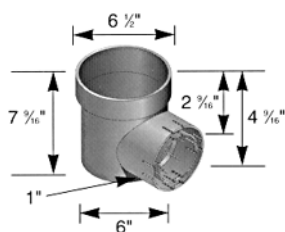
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWSD69	4" Sch 40 Inlet	Black	1.85	8	150.55



Porus Filter Fabric Wrap for FloWell

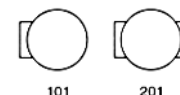
- 7' long x 2' wide to surround drywell system
- Non woven fabric
- Weight 1 oz. Mullen burst 175 psi, 200 gpm flow through.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
FWFF67	7' x 2' Porus Filter Fabric Wrap	Black	0.35	20	38.88

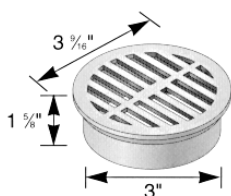


6" Spee-D Basin with 3" and 4" Locking Outlet

- Locking outlet snaps on to most 3" and 4" corrugated pipe.
- Outlets fit 3" or 4" sewer & drain pipe, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
101	1 - 3" and 4" locking outlet	Black	1.60	10	\$ 45.34
201	2 - 3" and 4" locking outlets	Black	1.90	10	45.34

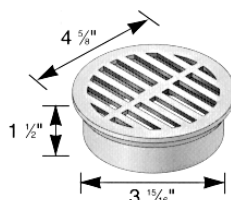


3" Round Grate

- 3" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 2.6 sq. in.. 3.41 gpm
- 3/16" grate opening.
- Fits 3" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
14	3" round grate	Black	0.15	40	\$ 9.09
15	3" round grate	Gray	0.15	40	9.09
16	3" round grate	Green	0.15	40	9.09

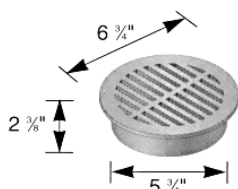


4" Round Grate

- 4" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 3.85 sq. in.. 5.04 gpm
- 1/4" grate opening.
- Fits 4" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
11	4" round grate	Black	0.20	25	\$ 9.56
12	4" round grate	Gray	0.20	25	9.56
13	4" round grate	Green	0.20	25	9.56



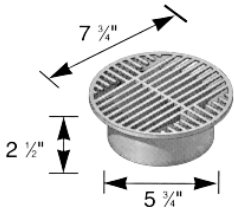
6" Round Grate

- 6" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 9.10 sq. in.. 11.92 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
40	6" round grate	Black	0.80	10	\$ 26.21
50	6" round grate	Green	0.80	10	26.21
60	6" round grate	Gray	0.80	10	26.21

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

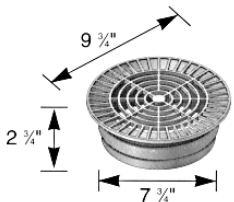


8" Round Grate

- 8" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 11.50 sq. in.. 15.07 gpm
- 5/16" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
10	8" round grate	Black	0.80	10	\$ 32.80
20	8" round grate	Green	0.80	10	33.46
30	8" round grate	Gray	0.80	10	34.77

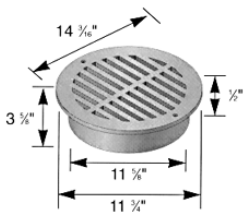


10" Round Grate

- 10" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 17.46 sq. in.. 22.87 gpm
- 5/16" grate opening.
- Fits 8" sewer and drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1040	10" round grate	Black	1.50	10	\$ 55.45
1050	10" round grate	Green	1.50	10	55.97

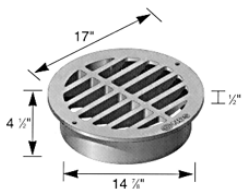


12" Round Grate

- 12" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 46.00 sq. in.. 60.26 gpm
- 9/16" grate opening.
- Fits 12" sewer and drain pipe, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1240	12" round grate	Black	3.35	6	\$ 173.28
1250	12" round grate	Green	3.35	6	173.28



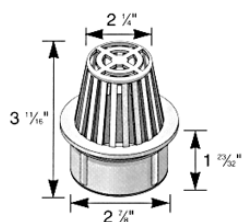
15" Round Grate

- 15" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 85.60 sq. in.. 112.14 gpm
- 1 1/4" grate opening.
- Fits 15" sewer and drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1511	15" round grate	Black	6.15	1	\$ 334.20
1512	15" round grate	Green	6.15	1	334.20

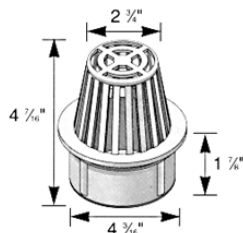
AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.



3" Atrium Grate

- 3" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 9.5 sq. in.. 12.45 gpm
- 1/4" grate opening.
- Fits 3" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

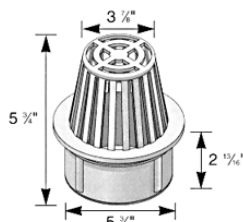
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
72 ☺	3" atrium grate	Gray	0.25	20	21.07
74	3" atrium grate	Black	0.25	20	21.07



4" Atrium Grate

- 4" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 14.5 sq. in.. 19.0 gpm
- 1/4" grate opening.
- Fits 4" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
75	4" atrium grate	Green	0.30	20	\$ 29.96
76 ☺	4" atrium grate	Gray	0.30	20	31.76
78	4" atrium grate	Black	0.30	20	29.96



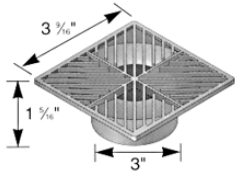
6" Atrium Grate

- 6" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 25.5 sq. in.. 33.41 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
80	6" atrium grate	Green	0.70	10	\$ 40.14
81 ☺	6" atrium grate	Gray	0.70	10	42.55
90	6" atrium grate	Black	0.70	10	42.55

☺ Non-stock item, available on a special order basis.

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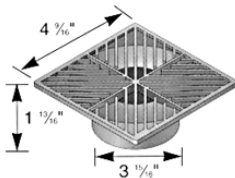


4" Square Grate

- 4" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 3.45 sq. in.. 4.52 gpm
- 3/16" grate opening.
- Fits 3" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
01	4" square grate	Green	0.11	40	\$ 12.56
02	4" square grate	Black	0.11	40	12.56

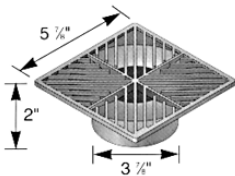


5" Square Grate

- 5" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 4.25 sq. in.. 5.57 gpm
- 3/16" grate opening.
- Fits 4" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
07	5" square grate	Green	0.20	25	\$ 13.83
08	5" square grate	Black	0.20	25	13.05

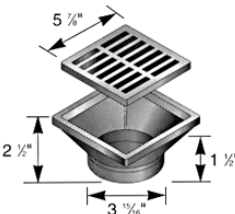


6" Square Grate

- 6" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 10.40 sq. in.. 13.62 gpm
- 1/4" grate opening.
- Fits 3" or 4" sewer & drain pipe, corrugated pipe and triple wall pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
04	6" square grate	Black	0.40	10	\$ 19.54
05	6" square grate	Green	0.40	10	18.43



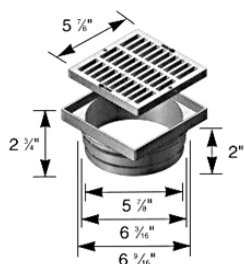
6" x 6" x 4" Square Grate and Adapter

- 6" x 6" low profile adapter and structural foam polyolefin removable grate with UV inhibitor & stainless steel screws.
- Open surface area 13.61 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits 3" or 4" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
640	6" x 6" x 4" square grate & adapter	Black	0.88	8	\$ 62.60
641	6" x 6" x 4" square grate & adapter	Green	0.88	8	66.36

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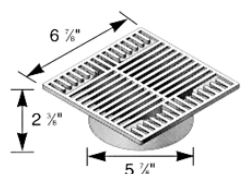


6" x 6" x 6" Square Grate and Adapter

- 6" x 6" low profile adapter and structural foam polyolefin removable grate with UV inhibitor & stainless steel screws.
- Open surface area 13.61 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
637	6" x 6" x 6" square grate & adapter	Black	0.88	8	\$ 62.60
639	6" x 6" x 6" square grate & adapter	Gray	0.88	8	62.60

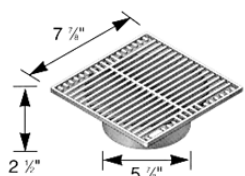


7" Square Grate

- 7" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 13.60 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
771	7" square grate	Black	0.70	10	\$ 31.80
772	7" square grate	Green	0.70	10	33.80
773	7" square grate	Gray	0.70	10	31.80

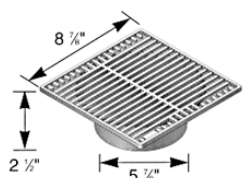


8" Square Grate

- 8" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 17.16 sq. in.. 22.48 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
881	8" square grate	Black	0.80	10	\$ 33.23
882	8" square grate	Green	0.80	10	33.23



9" Square Grate

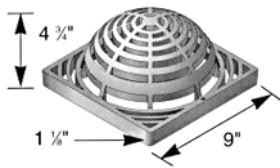
- 9" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 28.40 sq. in.. 37.20 gpm
- 5/16" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
950	9" square grate	Green	1.90	10	\$ 47.61
960	9" square grate	Gray	1.90	10	50.47

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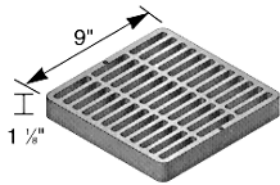
9" Catch Basin Series



9" Catch Basin Atrium Grate

- 9" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 30.28 sq in.. 39.67 gpm.
- 3/8" grate opening.
- Use with 9" x 9" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
981	9" x 9" atrium grate	Black	0.87	6	\$ 103.81
991	9" x 9" atrium grate	Green	0.87	6	103.80

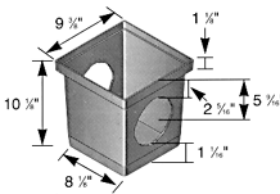


9" Catch Basin Square Grate

- 9" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 39.50 sq in.. 51.75 gpm.
- 7/16" grate opening.
- Use with 9" x 9" catch basin series.



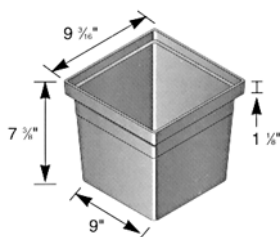
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
980	9" x 9" square grate	Black	1.50	8	\$ 71.93
990	9" x 9" square grate	Green	1.50	8	76.25
999	9" x 9" square grate	Gray	1.50	8	84.63



9" x 9" Tapered Catch Basin

- Requires universal outlet (1206, 1242, 1243, 1245, 1266 or 1889) for each opening.
- 900BLKIT includes 2 opening basin and black grate in a kit.

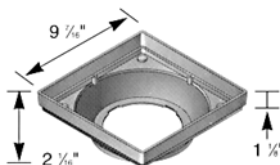
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
900	9" x 9" catch basin 2-opening	Black	3.00	4	\$ 58.96
900-4	9" x 9" catch basin 4-opening	Black	2.00	4	78.92
900BLKIT	9" x 9" catch basin with black grate	Black	4.25	4	180.68



6" Riser for 9" x 9" Catch Basin

- Bottomless
- Use with 9" x 9" catch basin series

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
916	9" x 9" catch basin riser	Black	1.75	4	\$ 66.31



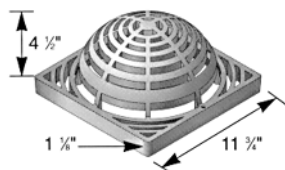
9" x 9" Low Profile Adapter

- Bayonet bottom outlet.
- Requires universal outlet (1243, 1245, 1266, 1889).
- Fits corrugated, sewer and drain pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
930	9" x 9" low profile adapter	Black	0.75	8	\$ 61.28

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

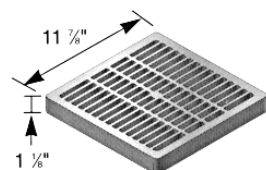
12" Catch Basin Series



12" x 12" Atrium Grate

- 12" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 60.00 sq. in.. 78.60 gpm.
- 3/8" grate opening.
- Use with 12" x 12" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1280	12" x 12" atrium grate	Green	2.00	8	\$ 149.16
1290	12" x 12" atrium grate	Black	2.00	8	149.16

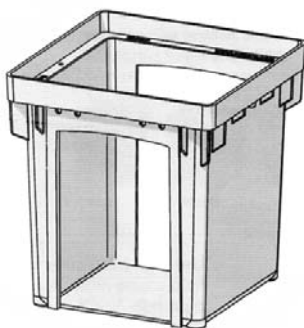


12" x 12" Square Grate

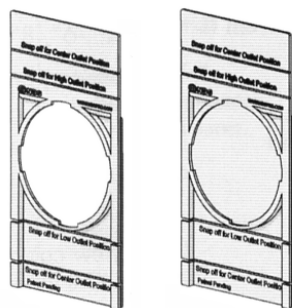
- 12" square structural foam polyolefin grate with UV inhibitor or heavy duty cast iron.
- Open surface area 50.76 sq. in.. 66.50 gpm.
- Cast Iron open surface area 59.5 sq. in.. 77.95 gpm.
- 3/8" grate opening.
- Use with 12" x 12" catch basin series.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1210	12" x 12" square grate	Gray	2.00	8	\$ 119.11
1211	12" x 12" square grate	Black	2.00	8	106.71
1212	12" x 12" square grate	Green	2.00	8	106.71
1213	12" x 12" Cast Iron square grate	Black	7.00	1	372.86



1200NGB

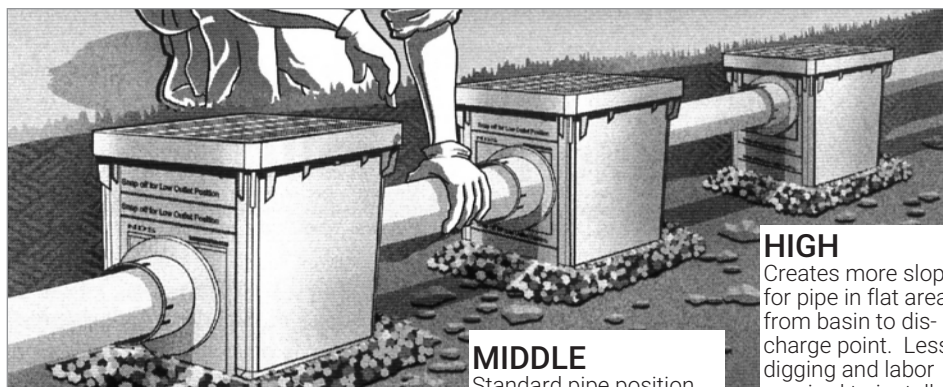


1207

1208

Next Generation Catch Basin

- Adjustable height inlet and outlets; just snap off slide tabs.
- Kit includes catch basin with 2 open slides.
- Faster and easier to install.



LOW

Reduces standing water in the bottom of the basin, especially in clay soils where water won't drain out of the bottom.

MIDDLE

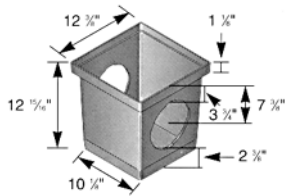
Standard pipe position. Pipe inlet/outlet connects to the middle of the basin.

HIGH

Creates more slope for pipe in flat areas from basin to discharge point. Less digging and labor required to install pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1200NGBKIT	12" catch basin kit w/ 2 slides	Black	4.65	4	\$ 136.39
1200NGB	12" catch basin	Black	3.45	4	112.31
1208	Plug Slide for 1200NGB	Black	.76	8	11.95

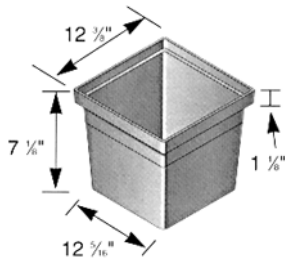
12" Catch Basin Series



12" x 12" Tapered Catch Basin

- Requires universal outlet (1206, 1242, 1243, 1245, 1266, or 1889) for each opening.
- Use bottom cutout for additional outlet.
- 1200BLKIT includes 2 opening basin and black grate in a kit.

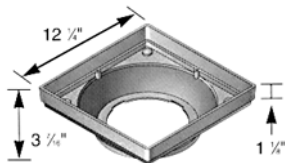
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1200	12" x 12" catch basin 2-opening	Black	4.25	4	\$ 100.74
1203	12" x 12" catch basin 3-opening	Black	3.75	4	149.59
1204	12" x 12" catch basin 4-opening	Black	3.75	4	157.66
1200BLKIT	12" x 12" catch basin with black grate	Black	8.00	4	231.74



6" Riser for 12" x 12" Catch Basin

- Bottomless
- Use with 12" x 12" catch basin series

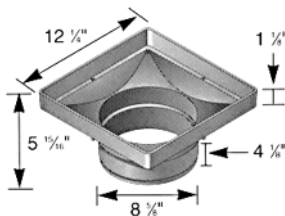
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1216	12" x 12" catch basin riser	Black	2.75	8	\$ 68.02



12" x 12" Low Profile Adapter

- Bayonet bottom outlet
- Requires universal outlet for connection to 3", 4" or 6" sewer/drain or corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1230	12" x 12" low profile adapter	Black	1.25	5	\$ 81.91



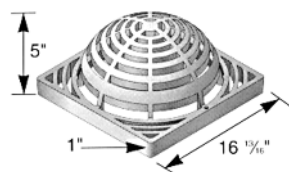
12" x 12" Square Low Profile Adapter

- Fits 8" sewer and drain pipe
- Use with #1222 spigot adapter to adapt to 8" corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1221	12" x 12" low profile adapter	Black	1.92	12	\$ 111.32
1222	12" x 12" low profile spigot adapter	Black	1.92	12	111.32

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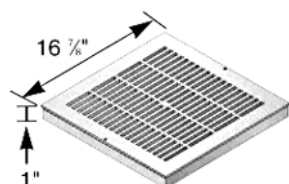
18" Catch Basin Series



18" x 18" Atrium Grate

- 18" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 64.51 sq. in.. 84.51 gpm.
- 1/2" grate opening.
- Use with 18" x 18" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1881	18" x 18" atrium grate	Black	3.50	4	\$ 301.56
1891	18" x 18" atrium grate	Green	3.50	4	301.56

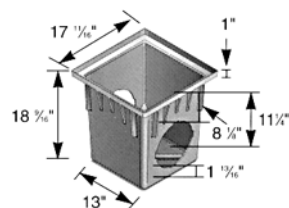


18" x 18" Square Grate

- 18" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 104.00 sq. in.. 136.24 gpm.
- 7/16" grate opening.
- Use with 18" x 18" catch basin series.



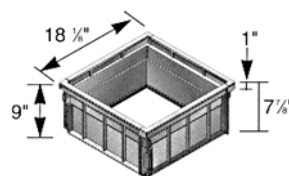
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1810	18" x 18" square grate	Gray	5.50	4	\$ 420.75
1811	18" x 18" square grate	Black	5.50	4	390.42
1812	18" x 18" square grate	Green	5.50	4	390.42



18" x 18" One Piece Tapered Catch Basin

- Requires universal outlet for each opening.
- Includes 2 or 4 #1890 reducing rings.

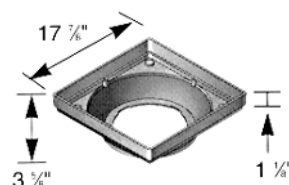
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1882	18" 1 piece catch basin 2-openings	Black	10.00	4	\$ 571.40
1884	18" 1 piece catch basin 4-openings	Black	9.50	4	617.79



8" Riser for 18" x 18" Catch Basin

- Use with 18" one piece or expandable catch basins.
- 7 7/8" nesting height.
- Assembly required. Includes 4 riser sides.
- **NOTE: Use roof tar or silicone to seal joints.**

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1816	8" catch basin riser	Black	6.00	1	\$ 288.18



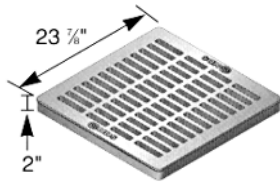
18" x 18" Low Profile Adapter

- Bayonet bottom outlet.
- Includes #1890 reducer ring.
- Requires universal outlet (1243, 1245, 1266, or 1888).
- Fits corrugated pipe and sewer and drain pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1830	18" x 18" low profile adapter	Black	4.75	4	\$ 252.32

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

24" Catch Basin Series

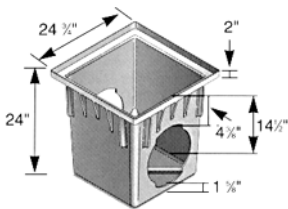


24" x 24" Square Grate

- 24" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 231.69 sq. in.. 303.51 gpm.
- 7/8" grate opening.
- Use with 24" x 24" catch basin series.



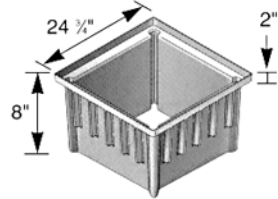
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2411	24" x 24" square grate	Black	9.00	4	\$ 1019.68
2412	24" x 24" square grate	Green	9.00	4	1019.68



24" x 24" One Piece Tapered Catch Basin

- Requires 2 or 4 #2410 universal outlets.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2400	24" 1 piece catch basin 2-opening	Black	18.00	4	\$ 1046.62
2404	24" 1 piece catch basin 4-opening	Black	15.00	4	1241.46

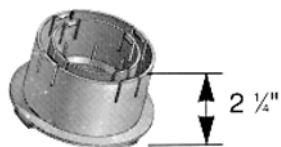


8" Extension for 24" x 24" Catch Basin

- Bottomless
- Use with 24" x 24" catch basin series

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2418	24"x 24" catch basin extension	Black	14.00	10	\$ 692.58

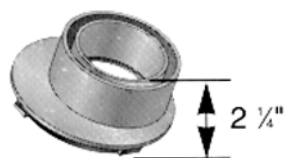
AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.



3" and 4" Universal Locking Outlet

- New locking outlet snaps on to most 3" and 4" corrugated pipe.
- Fits 3" & 4" corrugated pipe and sewer & drain pipe and triple wall pipe, 4" sch 40 pipe.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series and adapters.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1243	3" & 4" universal locking outlet	Black	0.70	20	\$ 15.39



3" and 4" Offset Universal Outlet

- Fits 3" & 4" corrugated pipe and sewer & drain pipe, 4" sch 40 pipe and triple wall pipe.
- Allows for adjustable inlet height.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series.

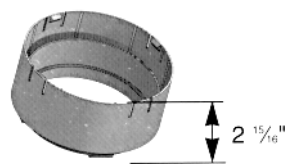
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1245	3" & 4" offset universal outlet	Black	0.55	20	\$ 17.92



3" and 4" Universal Adapter w/ 4" spigot

- Fits 3" & 4" corrugated pipe, sewer & drain pipe, triple wall pipe and 4" sch 40 pipe.
- Use with 3" and 4" sewer and drain fittings.

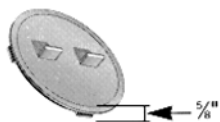
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1241	3" & 4" adapter NEW tab style	Black	0.70	20	\$ 17.43
1241AG	3" & 4" adapter OLD style	Black	0.70	20	\$ 17.43



6" Universal Locking Outlet

- New locking outlet snaps on to most 3" and 4" corrugated pipe.
- Fits 6" corrugated pipe and sewer & drain pipe.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series and adapters.

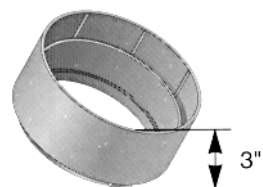
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1266	6" universal locking outlet	Black	0.75	20	\$ 20.69



6" Universal Plug Adapter

- Use with 9", 12", 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1206	6" universal plug adapter	Black	0.35	20	\$ 12.34



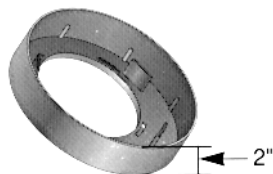
8" Universal Outlet

- Fits 8" corrugated pipe and sewer & drain pipe.
- Use with 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1888	8" universal outlet	Black	1.25	8	\$ 43.01

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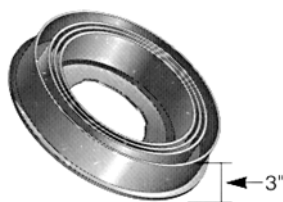
Catch Basin Universal Outlets



8" Offset Universal Adapter

- Fits 8" corrugated pipe and sewer & drain pipe.
- Use with 12" catch basin series.
- Use with #1890 reducer ring for 18" catch basin series.
- Reducer ring required on #1821 basin side, 18" catch basin series to adapt to universal outlets (#1206, 1243, 1245, 1266 or 1889.)

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
1889	8" offset universal outlet	Black	0.80	10	\$ 52.37
1890	Universal outlet reducer ring	Black	0.50	8	24.06



10" and 12" Universal Adapter

- Includes universal outlet reducer ring (#1890).
- Fits 10" and 12" corrugated pipe and sewer & drain pipe.
- Fits 3", 4", 6" and 8" corrugated, sewer & drain pipe, 4" Sch. 40 pipe by using corresponding adapter.
- Use with 24" catch basins.

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2410	10" and 12" universal adapter	Black	5.50	2	\$ 113.14



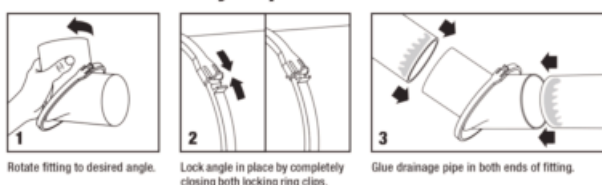
4PVAF



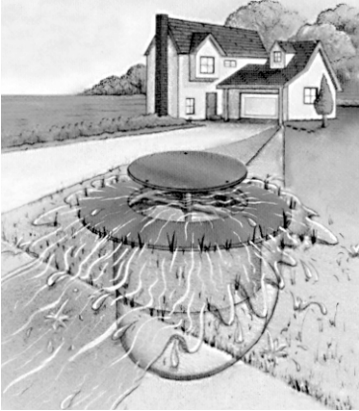
Swivel Fit® Variable Angle Fitting

- Multiple fittings in one. Can be set and locked in place to any angle from 0° to 90°.
- Convenient for misaligned pipes and routing around corners and obstacles.
- Patent pending design.
- Installs in 3 easy steps.
- Fits 4" drain pipe SDR-35, Triple wall and ASTM-D2729.
- Not for sewer use.

Installation in 3 easy steps.



Part Number	Description	Ctn Qty	List Price
4PVAF	Swivel Fit Fitting	12	\$ 165.23



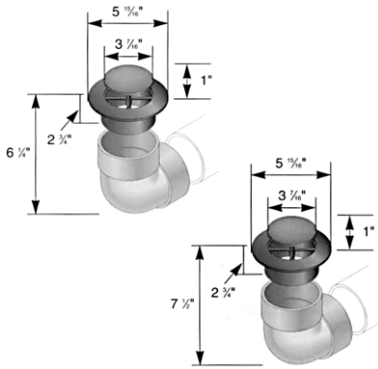
The Pop-Up Drainage Emitter is an easy, safe & efficient solution.

It allows water to be diverted and released to water-safe areas away from structures, erosion-prone landscapes and poor drainage areas.

- It allows water captured by grates, catch basins, channel drains, downspouts and roof gutter systems to flow through the drainage pipe and away from structural foundations to safe or useful areas. For example, water can be routed from a low area next to a foundation to a water safe area such as a curbside drainage system.
- It is opened by the hydrostatic pressure of water flowing through the drain pipe. As flow diminishes the emitter closes again. The special patented design allows the emitter to open with a negligible amount of pressure. Since the emitter is closed during dry weather, debris and rodents cannot enter the drain pipes.
- It does not rise high enough to interfere with mowers.
- It blends into the surrounding landscapes.

3" and 4" Emitter

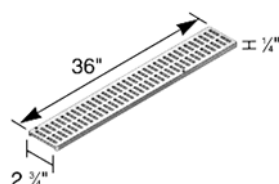
- 3" and 4" PVC pop-up drainage emitter.
- Center drive pop-up with UV inhibitor.
- PVC 90° elbow with 1/4" drain hole.



Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
321	3" emitter with elbow	Green	0.60	25	\$ 55.90
421	4" emitter with elbow	Green	0.85	20	65.28

Mini Channel™ Drain Features:

- Patented
- Low-cost alternative to Spee-D Channel.
- Excellent for light duty applications including residential pools, patios, spas and tennis courts.

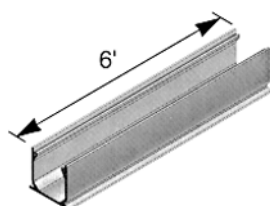


3' Channel Grate

- Structural foam polyolefin channel grate with UV inhibitors.
- Open surface area 11.3 sq. in.. 14.8 gpm per foot.
- 1/4" x 5/16" grate opening.
- Requires 4 screws per grate.

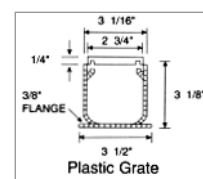


Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
541	3' channel grate	Gray	0.688	48 ft	\$ 50.38
542	3' channel grate	Green	0.688	48 ft	50.38
543	3' channel grate	Black	0.688	48 ft	50.38
544	3' channel grate	Sand	0.688	48 ft	50.38
551	3' channel grate	Brick Red	0.688	48 ft	50.38



6' Mini Channel Drain

- 6' PVC Mini channel drain with inverse flying buttress design, bottom flange, patented honeycomb reinforced walls and UV inhibitor.
- **Grates should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**



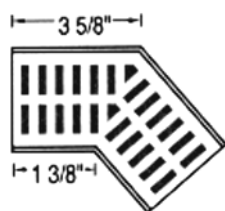
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
500-6	6' Mini Channel Drain	Gray	4.00	48 ft	\$ 152.71

Mini Channel™ Drain Accessories:



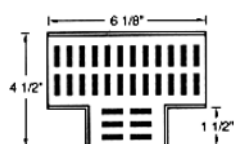
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
529	Stainless Steel Screws type FH-#4 x 3/8"	Steel	0.10	64	\$ 1.02
230	6" channel installation stake	Gray	0.40	24	3.88
532	2" Sch 40 hub to 3" S&D spigot adapter	White	0.20	20	96.58
533	2" Sch 40 hub to 4" S&D spigot adapter	White	0.35	20	88.01
546	Spigot end outlet for 2" Sch. 40 pipe	Gray	0.30	10	28.73
547	3" Channel end cap	Gray	0.15	20	21.56
548	3" Channel Coupling	Gray	0.20	20	22.50
550	3' channel w/ 2" Sch 40 spg bottom outlet	Gray	2.17	6	102.75

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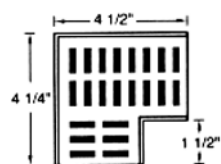
Fabricated 45° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
5300	Fabricated 45° elbow w/ grate	Gray	0.40	1	\$ 96.88
5301 ☺	Fabricated 45° elbow w/ grate	Green	0.40	1	96.88
5302 ☺	Fabricated 45° elbow w/ grate	Black	0.40	1	96.88
5303 ☺	Fabricated 45° elbow w/ grate	Sand	0.40	1	96.88
5304 ☺	Fabricated 45° elbow w/ grate	Brick Red	0.40	1	96.88



Fabricated Tee with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
5370	Fabricated tee w/ grate	Gray	0.50	1	\$ 94.12
5371 ☺	Fabricated tee w/ grate	Green	0.50	1	94.12
5372 ☺	Fabricated tee w/ grate	Black	0.50	1	94.12
5374 ☺	Fabricated tee w/ grate	Brick Red	0.50	1	94.12



Fabricated 90° Elbow with Grate

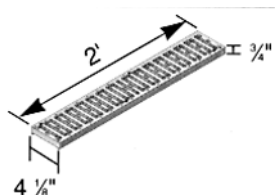
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
5380	Fabricated 90° elbow w/ grate	Gray	0.40	1	\$ 89.39
5383 ☺	Fabricated 90° elbow w/ grate	Sand	0.40	1	100.16

☺ Non-stock item, available on a special order basis.

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

Spee-D Channel™ Drain Features:

- Patented.
- Ideal for commercial as well as residential applications.
- Effective in everything from patios to light vehicular traffic areas.

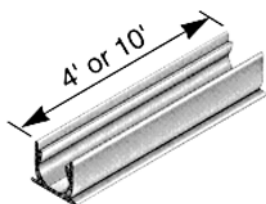


2' Channel Grate

- 2' Structural foam polyolefin secured channel grate with UV inhibitors.
- Open surface area 19.3 sq. in..
- 3/8" x 3 1/4" grate opening.
- Requires 4 screws per grate.

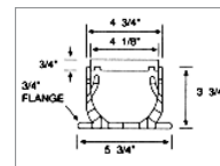


Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
241	2' channel grate	Gray	1.42	24 ft	\$ 67.98
242	2' channel grate	Green	1.42	24 ft	67.98
243	2' channel grate	Black	1.42	24 ft	67.98
244	2' channel grate	Sand	1.42	24 ft	67.98
251	2' channel grate	Brick Red	1.42	24 ft	73.27



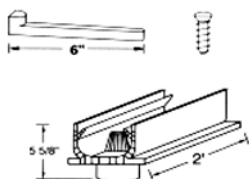
4' Channel Drain

- 4' PVC Spee-D channel drain with inverse flying buttress design, bottom flange, patented honeycomb reinforced walls & UV inhibitor.
- **Grate should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**
- 10' Length ships via truck only.



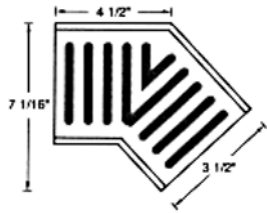
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
400	4' Channel Drain	Gray	4.83	24 ft	\$ 87.69
400-10	10' Channel Drain *	Gray	1.10	60 ft	235.04

Spee-D Channel™ Drain Accessories:



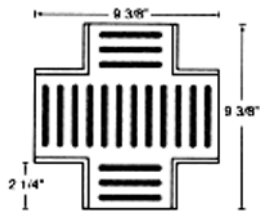
Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
229	Stainless Steel Screws	Steel	0.06	48	\$ 1.39
230	6" channel installation stake	Gray	0.40	24	3.88
234	2' fabricated 3" & 4" spigot bottom outlet w/ strainer. Fits 3" or 4" S&D ftg. Grate not included	Gray	2.67	1	111.51
245	Channel strainer coupling	Gray	0.35	20	29.62
246	2" Sch. 40 spigot end outlet	Gray	0.40	10	27.89
247	Channel end cap	Gray	0.40	10	19.11
248	Channel Coupling	Gray	0.40	20	19.32
249	3" & 4" offset end outlet Connects to 3" S&D pipe, 4" S&D fittings	Gray	0.50	10	22.60

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.



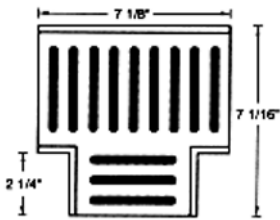
Fabricated 45° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2301	Fabricated 45° elbow w/ grate	Gray	2.0	1	\$ 186.51
2302 ☺	Fabricated 45° elbow w/ grate	Green	2.0	1	186.51
2303 ☺	Fabricated 45° elbow w/ grate	Black	2.0	1	186.51
2305 ☺	Fabricated 45° elbow w/ grate	Brick Red	2.0	1	186.51



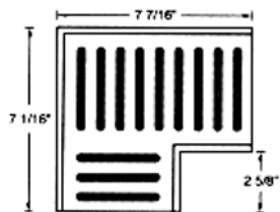
Fabricated Cross with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2361	Fabricated cross w/ grate	Gray	3.0	1	\$ 266.25
2362 ☺	Fabricated cross w/ grate	Green	3.0	1	266.25
2364 ☺	Fabricated cross w/ grate	Sand	3.0	1	266.25
2365 ☺	Fabricated cross w/ grate	Brick Red	3.0	1	266.25



Fabricated Tee with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2371	Fabricated tee w/ grate	Gray	3.0	1	\$ 197.28
2372 ☺	Fabricated tee w/ grate	Green	3.0	1	197.28



Fabricated 90° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty	List Price
2381	Fabricated 90° elbow w/ grate	Gray	3.0	1	\$ 137.74
2382 ☺	Fabricated 90° elbow w/ grate	Green	3.0	1	137.74
2385 ☺	Fabricated 90° elbow w/ grate	Brick Red	3.0	1	137.74

☺ Non-stock item, available on a special order basis.

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.



RPS75

RPS75™ Rotor

The RPS75™ gear drive is designed for basic residential and light commercial applications and is a direct replacement for Hunter® PGP® rotors. The reversing mechanism, a K-Rain patented feature, is the same mechanism used in the Hunter PGP (K-Rain currently licenses this patent to Hunter.) With K-Rain's wide selection of standard and low angle nozzles, the RPS75 provides even water distribution.

Features:

- Direct Replacement for Hunter® PGP®.
- Right Position Start - Rotor rotates counterclockwise from fixed right start position.
- Riser Fits in Existing Hunter PGP Cans - Simply unscrew the existing riser from the PGP can and replace with the RPS75 riser.
- Top Adjustment - No training necessary, the RPS75 has the same adjustment procedure as the Hunter PGP.
- Full and Part Circle Rotation - Provides a full range of adjustment from 40° to 360°
- Non-Flushing Wiper Seal - Reduces leaks caused by debris trapped under seal.
- 3/4" Inlet - Replaces all standard rotors.
- Ideal for Low Flow Applications.
- Universal Adjustment Tool - Compatible with existing Hunter products.
- Rubber Cover - Seals out dirt and increases product durability.
- Wide Selection of Nozzles - Including standard and low angle, provides flexibility in system design.
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



Find performance data on following page.



ARC selection 40°- 360°.
Adjusts from RIGHT start.

Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 0.75 - 8.2 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.12 to 1.16 inches/hour
- Overall height popped down : 7 3/8"
- Recommended spacing: 25' to 45'
- Radius: 22' to 51'
- Nozzle trajectory: 25°standard or 11°low angle
- 8 standard and 4 low angle nozzles included
- Riser Height: 4"

Part Number	Description	Ctn Qty	List Price
RPS75	RPS Standard Rotor	20	\$ 24.86

RPS75™ Rotor Performance Data



STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.75	30	29	0.7
	40	30	0.8
	50	30	0.9
	60	31	1.0
#1	30	30	0.9
	40	31	1.0
	50	31	1.2
	60	32	1.3
#1.5	30	32	1.2
	40	33	1.4
	50	34	1.6
	60	34	1.8
#2	30	34	1.6
	40	36	1.8
	50	38	2.0
	60	38	2.2
#3	30	36	2.0
	preinstalled 40	38	2.4
	50	40	2.7
	60	40	2.9
#4	30	36	2.6
	40	40	3.0
	50	42	3.4
	60	42	3.7
#6	30	38	4.2
	40	43	4.9
	50	46	5.5
	60	47	6.0
#8	40	45	6.0
	50	48	6.8
	60	49	7.6
	70	51	8.2

LOW ANGLE

#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6

Data represents test results in zero wind.

Adjust for local conditions.

Radius may be reduced with nozzle retention screw.



RPS SELECT

RPS® SELECT Rotor

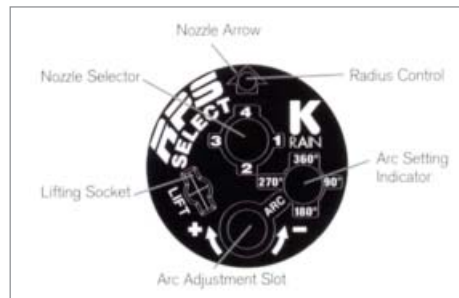
The RPS® SELECT rotary sprinkler is gear-driven for basic residential and light commercial applications. With 4 selectable built-in nozzles, matched precipitation is fast and easy without the need to change nozzles in the field.

Features:

- Four built-in selectable nozzles to match arc settings 90° to 360°
- Adjustable Arc (40° to 360°) made from the top with no special tools needed.
- Matched precipitation rate when nozzle setting matched to arc.
- 3/4" Inlet - Replaces all standard rotors.
- Low pressure operation.
- Standard Rubber Cover
- Proven gear-drive design common to the popular RPS75® series.
- Riser assembly interchanges with Hunter® PGP® rotors
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 1.3 - 6.8 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.23 to 0.71 inches/hour
- Overall height popped down: 7 3/8"
- Recommended spacing: 31' to 44'
- Radius: 33' to 46'



Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1 90°	30	33	1.3
	35	34	1.4
	40	37	1.5
	45	37	1.6
	50	37	1.8
#2 180°	30	37	2.6
	35	38	2.8
	40	39	3.0
	45	40	3.2
	50	40	3.6
#3 270°	30	37	3.8
	35	40	4.1
	40	41	4.5
	45	41	4.7
	50	43	4.9
#4 360°	30	38	5.2
	35	40	5.7
	40	44	6.0
	45	45	6.4
	50	46	6.8

Part Number	Description	Ctn Qty	List Price
RPS SELECT	RPS Select Rotor	20	\$ 30.48





13003

MiniPro™ Rotor

Perfect for small lawn and landscape areas and for replacing fixed sprays.
Direct replacement for the Toro Mini8.

Features:

- Gear driven, rotary type sprinkler capable of covering an area of 17' to 30'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- Adjustable rotation provides a full range of adjustments from 40° to 360°. Patented arc set degree markings clearly indicate current watering pattern and simplifies adjustment
- Adjustable in all phases of installation - before, after while static or while in operation.
- Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 5 numerically coded interchangeable nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals out dirt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



Find performance data on following page.



ARC selection 40° - 360°.
Adjusts from LEFT start.

Specifications:

- Inlet 1/2" NPT
- Arc adjustment range 40° to 360°
- Flow range: 0.75 - 3.3 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.22 to 0.41 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 6"
- Recommended spacing: 17' to 28'
- Radius: 17' to 30'
- Nozzle trajectory: 26°
- Riser Height: 4", 6" or 12".

Part Number	Description	Ctn Qty	List Price
13003	MiniPro short range rotor 4"	25	\$ 25.20
13006	MiniPro short range rotor 6"	20	37.52
13012	MiniPro short range rotor 12"	12	62.55

MiniPro™ Rotor Performance Data

STANDARD ANGLE

Red Nozzle

Performance Data:

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.75	30	17'	.75
	40	17'	.8
	50	18'	.9
#1	30	20'	.9
	40	21'	1.2
	50	21'	1.3
#1.5 preinstalled	30	23'	1.4
	40	24'	1.7
	50	24'	1.9
#2	30	25'	1.8
	40	27'	2.1
	50	27'	2.4
#3	30	28'	2.7
	40	30'	3.0
	50	30'	3.3



11003

ProPlus™ 11003 Rotor

Appropriate for medium to large landscape areas with high level risers and shrubs.

Direct replacement for the Toro Super800.

Features:

- Gear driven, rotary type sprinkler capable of covering an area of 22' to 50'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to a full 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals our dirt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



ARC selection 40° to continuous 360°.
Adjusts from LEFT start.

Find performance data on following page.

Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.06 to 0.50 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
17" for High pop
- Recommended spacing: 28' to 44'
- Radius: 22' to 50'
- Nozzle trajectory: 26° standard or 12° low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty	List Price
11003	ProPlus mid-range rotor	20	\$ 30.48

ProPlus™ 11003 Rotor Performance Data

STANDARD ANGLE

Red Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.5	30	28	0.5
	40	29	0.6
	50	29	0.7
	60	30	0.8
#0.75	30	29	0.7
	40	30	0.8
	50	31	0.9
	60	32	1.0
#1	30	32	1.3
	40	33	1.5
	50	34	1.6
	60	35	1.8
#2	30	37	2.4
	40	40	2.5
	50	42	3.0
	60	43	3.3
#2.5	30	38	2.5
	40	39	2.8
	50	40	3.2
	60	41	3.5
#3	30	38	3.6
	40	39	4.2
	50	41	4.6
	60	42	5.0
#4	30	43	4.4
	40	44	5.1
	50	46	5.6
	60	49	5.9
#6	40	45	5.9
	50	46	6.0
	60	48	6.3
	70	49	6.7
#8	40	42	8.0
	50	45	8.5
	60	49	9.5
	70	50	10.0

LOW ANGLE

Green Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6



10003

SuperPro™ 10003 Rotor

With flow control, appropriate for residential or light commercial.
Direct replacement for the Toro Super 800.

Features:

- Riser fits in existing Toro Super800 cans.
- Gear driven, rotary type sprinkler capable of covering an area of 26' to 49'.
- Patented flow control valve inside the rotor allows individual head to be turned off or be partially closed to reduce the distance by up to 75%. Additionally it simultaneously reduces the flow rate creating an added water savings.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to continuous 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles.
- Heavy duty rubber cover seals out dirt and increases durability.
- 5 year limited warranty.



Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.05 to 0.74 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
- Recommended spacing: 28' to 44'
- Radius: 26' to 49'
- Nozzle trajectory: 26° standard or 12° low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty	List Price
10003	SuperPro rotor	20	\$ 32.42



ARC selection 40° to continuous 360°. Adjusts from LEFT start.

Find performance data on following page.

SuperPro™ 10003 Rotor Performance Data

STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.5	30	30	0.45
	40	29	0.5
	50	26	0.6
	60	26	0.7
#0.75	30	32	0.7
	40	32	0.8
	50	33	0.9
	60	33	1.0
#1	30	30	1.1
	40	32	1.3
	50	33	1.5
	60	33	1.6
#2	30	38	2.3
	40	38	2.5
	50	40	2.7
	60	42	3.0
#2.5 preinstalled	30	35	2.5
	40	36	2.8
	50	37	3.2
	60	38	3.6
#3	30	35	3.4
	40	36	3.8
	50	38	4.2
	60	39	4.8
#4	30	42	4.1
	40	44	4.6
	50	45	5.1
	60	46	5.7
#6	40	46	5.8
	50	48	6.4
	60	49	7.0
	70	49	7.5
#8	40	42	7.5
	50	45	8.2
	60	48	9.0
	70	48	9.5

LOW ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	26	1.3
	40	27	1.5
	50	27	1.7
	60	28	1.9
#3	30	29	2.9
	40	30	3.3
	50	31	3.4
	60	33	4.0
#4	30	28	4.0
	40	31	4.7
	50	34	5.0
	60	36	6.0
#6	40	30	6.0
	50	34	7.0
	60	37	7.8
	70	38	8.2



K Spray Series

K-Spray Series Spray Bodies

Ideal for watering smaller areas, ground cover and shrub areas.



Features:

- Available in 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts MALE threaded nozzles.**
- Stainless steel retraction spring provides reliable retraction of the riser in all soil conditions.
- Ratchet riser allows for easy pattern alignment by turning the riser.
- Heavy duty wiper seal ensures leak free, full pop-up operation even under low pressure situations.

Specifications:

- Inlet 1/2" NPT female thread
- Flow range: 0.5 - 4.6 GPM
- Pressure Rating: 20-50 PSI
- Precipitation Rate: 0.4 to 1.91 inches/hour

Part Number	Description	Ctn Qty	List Price
73001	3" Pop-up Spray body (less nozzles)	100	\$ 5.17
74001	4" Pop-up Spray body (less nozzles)	50	5.08
76001	6" Pop-up Spray body (less nozzles)	50	10.15
71201	12" Pop-up Spray body (less nozzles)	25	28.30

Pro-S Pop-Up Sprays

A rugged, contractor friendly spray line designed to be compatible with ALL standard female threaded nozzles.

Direct replacement for RainBird® 1800 Series sprays.

Features:

- Available in 2", 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts FEMALE threaded nozzles.**
- Co-Molded wiper seal ensures a leak free, full pop up operation under low pressure situations. Cartridge design allows for easy removal and cleaning. Treated with UV inhibitors for long life. Seal is microbe resistant to reduce degradation and stick ups.
- Ratcheting riser allows for easy pattern alignment by turning the riser.
- Heavy duty retraction spring for positive retraction in all soil conditions.
- Side and bottom inlet on 6" and 12" models.
- Pre-installed flush cap.
- 5 year Limited Warranty.



Specifications:

- Inlet 1/2" NPT Female Thread
- Flo range: 0 @ 8 psi, 0.10 gpm
- Pressure Rating: 20-70 psi
- Precipitation Rate: 0.4-4 inches/hour
- Overall Body Height: 2" pop up - 4"
3" pop up - 4 7/8"
4" pop up - 6"
6" pop up - 9 3/8"
12" pop up - 16"



PRO-S Spray



Co-molded wiper seal

Part Number	Description	Ctn Qty	List Price
78002	2" Pop up spray	50	\$ 5.30
78003	3" Pop up spray	50	5.30
78004	4" Pop up spray	50	4.38
78006	6" Pop up spray	50	10.86
78012	12" Pop up spray	25	21.97



KV Nozzles

KV Variable Arc Nozzles

KV adjustable nozzles have a MALE thread configuration to fit K-Spray bodies.

Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.



Find performance data on following page.

Part Number	Description	Color	Ctn Qty	List Price
KV8	8' Variable arc nozzle male thread	Green	25	\$ 2.23
KV10	10' Variable arc nozzle male thread	Blue	25	2.20
KV12	12' Variable arc nozzle male thread	Brown	25	2.20
KV15	15' Variable arc nozzle male thread	Black	25	2.20
KV17	17' Variable arc nozzle male thread	Gray	25	2.20



KVF Nozzles

KVF Variable Arc Nozzles

KVF adjustable nozzles have a FEMALE thread configuration to fit RPS and PRO-S spray bodies.

Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Find performance data on following page.

Part Number	Description	Color	Ctn Qty	List Price
KVF8	8' Variable arc nozzle female thread	Green	25	\$ 2.23
KVF10	10' Variable arc nozzle female thread	Blue	25	2.23
KVF12	12' Variable arc nozzle female thread	Brown	25	2.23
KVF15	15' Variable arc nozzle female thread	Black	25	2.23

VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KV NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.7	12	0.7	12	1.1	15	1.3	18	1.7
	30	9	1.1	12	1.1	13	1.3	17	1.6	18	1.8
	40	10	1.4	13	1.4	14	1.5	18	1.8	19	2.0
	50	11	1.5	14	1.5	15	1.7	19	2.0	20	2.2
180°	20	8	1.4	11	1.4	11	1.6	14	1.8	17	1.9
	30	8	1.6	11	1.6	12	1.8	15	2.3	18	2.4
	40	9	1.8	12	1.8	13	2.2	16	2.6	19	2.6
	50	10	2.0	13	2.0	14	2.4	18	2.8	19	2.6
270°	20	8	1.7	10	1.7	11	1.9	14	2.7	16	2.9
	30	8	2.0	10	2.0	12	2.4	15	3.2	17	3.4
	40	8	2.3	11	2.3	12	2.6	16	3.6	18	4.0
	50	9	2.6	12	2.6	13	3.0	16	4.0	18	4.0
360°	20	8	2.2	10	2.2	11	2.8	13	3.4	15	3.5
	30	8	2.7	10	2.7	12	3.1	15	4.2	17	4.4
	40	8	3.0	11	3.0	12	3.5	15	4.7	17	4.9
	50	8	3.5	12	3.5	13	3.9	16	5.3	18	5.4

VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KVF NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.40	9	0.40	10	0.45	13	0.55	17	0.80
	25	9	0.42	9	0.42	11	0.52	14	0.63	18	0.94
	30	10	0.45	10	0.45	12	0.55	15	0.70	19	1.05
	40	10	0.50	10	0.50	12	0.60	16	0.80	19	1.30
180°	20	9	1.00	9	1.00	9	1.10	13	1.30	17	1.70
	25	9	1.10	9	1.10	10	1.21	14	1.49	17	1.92
	30	10	1.20	10	1.20	10	1.35	15	1.65	19	2.15
	40	10	1.25	10	1.25	11	1.53	16	2.00	19	2.50
270°	20	9	1.40	9	1.40	9	1.60	13	1.90	16	2.40
	25	10	1.59	10	1.59	10	1.74	15	2.15	16	2.82
	30	10	1.75	10	1.75	10	1.95	15	2.35	17	3.00
	40	10	2.05	10	2.05	11	2.05	16	2.70	18	3.50
360°	20	9	2.30	9	2.30	9	2.40	13	2.80	16	2.90
	25	10	2.51	10	2.51	10	2.61	14	3.26	17	3.40
	30	10	2.65	10	2.65	11	2.78	15	3.60	17	3.80
	40	11	2.75	11	2.75	12	3.03	15	4.10	17	4.40



Fixed Nozzles

Fixed Pattern Female Nozzles

Matched precipitation female nozzles are compatible with ALL available male threaded bodies.

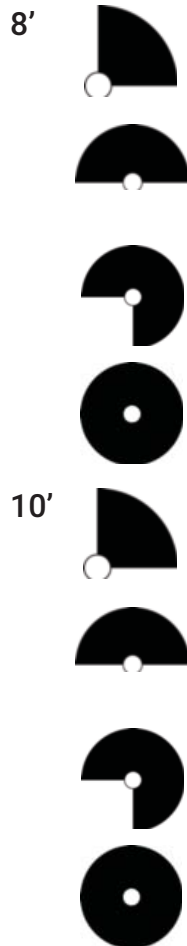
Features:

- Color coded for easy identification.
- Four distances plus eight fixed patterns provides an array of configurations.
- Matched precipitation allows for even water distribution.

Series Number	Description	Color	Ctn Qty	List Price
FN8 *	8' Fixed pattern female nozzle	Green	25	\$ 2.29
FN10 *	10' Fixed pattern female nozzle	Blue	25	2.29
FN12 *	12' Fixed pattern female nozzle	Brown	25	2.29
FN15 *	15' Fixed pattern female nozzle	Black	25	2.29

* Add nozzle pattern reference letter to complete part number.

Fixed Pattern FEMALE THREADED Nozzles Performance & Pricing



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	Part Number	List Price
Q	90°	15	5	0.18	25	FN8Q	\$ 2.29
		20	6	0.21			
		25	7	0.24			
		30	8	0.26			
H	180°	15	5	0.37	25	FN8H	2.29
		20	6	0.41			
		25	7	0.47			
		30	8	0.52			
TQ	270°	15	5	0.55	25	FN8TQ	2.29
		20	6	0.63			
		25	7	0.71			
		30	8	0.78			
F	360°	15	5	0.74	25	FN8F	2.29
		20	6	0.86			
		25	7	0.95			
		30	8	1.05			
Q	90°	15	7	0.29	25	FN10Q	2.29
		20	8	0.33			
		25	9	0.36			
		30	10	0.39			
H	180°	15	7	0.58	25	FN10H	2.29
		20	8	0.65			
		25	9	0.72			
		30	10	0.79			
TQ	270°	15	7	0.87	25	FN10TQ	2.29
		20	8	0.98			
		25	9	1.08			
		30	10	1.18			
F	360°	15	7	1.16	25	FN10F	2.29
		20	8	1.30			
		25	9	1.44			
		30	10	1.58			

Fixed Pattern THREADED Nozzles Performance & Pricing

MALE (P)

FEMALE (FN)

12'



15'



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	MALE/FEMALE Part No	List Price
Q	90°	20	11	0.5	15	9	0.45	25	P12Q	\$ 2.29
		25	12	0.7	20	10	0.53		FN12Q	2.29
		40	13	0.8	25	11	0.60			
		50	14	0.9	30	12	0.65			
H	180°	20	11	0.9	15	9	0.90	25	P12H	2.29
		25	12	1.1	20	10	1.05		FN12H	2.29
		40	13	1.4	25	11	1.20			
		50	14	1.5	30	12	1.30			
TQ	270°	20	12	1.2	15	9	1.35	25	P12TQ	2.29
		25	12	1.4	20	10	1.58		FN12TQ	2.29
		40	14	1.7	25	11	1.80			
		50	15	2.0	30	12	1.95			
F	360°	20	10	1.6	15	9	1.80	25	P12F	2.29
		25	12	1.8	20	10	2.10		FN12F	2.29
		40	13	2.1	25	11	2.40			
		50	14	2.4	30	12	2.60			
Q	90°	20	15	0.7	15	11	0.65	25	P15Q	2.29
		30	16	0.9	20	12	0.75		FN15Q	2.29
		40	17	1.1	25	14	0.82			
		50	18	1.2	30	15	0.92			
H	180°	20	14	1.4	15	11	1.30	25	P15H	2.29
		30	15	1.7	20	12	1.50		FN15H	2.29
		40	16	2.0	25	14	1.65			
		50	17	2.2	30	15	1.85			
TQ	270°	20	13	2.0	15	11	1.95	25	P15TQ	2.29
		30	15	2.5	20	12	2.25		FN15TQ	2.29
		40	16	2.9	25	14	2.48			
		50	16	3.2	30	15	2.78			
F	360°	20	13	2.9	15	11	2.60	25	P15F	2.29
		30	15	3.6	20	12	3.00		FN15F	2.29
		40	16	4.1	25	14	3.30			
		50	17	4.6	30	15	3.70			

Part Number	Description	Ctn Qty	List Price
PFM	Filter for Fixed Nozzle	25	\$ 1.00

Special Pattern Nozzles Performance & Pricing



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	MALE Part No	FEMALE Part No.	List Price
CS	CENTER	20	4' X 24'	0.8	25	P15CS		\$ 2.29
	STRIP	30	4' X 30'	1.0			FN15CS	2.29
ES	END	20	4' X 12'	0.4	25	P15ES		2.29
	STRIP	30	4' X 15'	0.5			FN15ES	2.29
SS	SIDE	20	4' X 28'	1.1	25	P15SS		2.29
	STRIP	30	4' X 32'	1.3			FN15SS	2.29
HL	HIGH	20	H 14' X L4'X28'	2.5	25	P15HL		2.29
	LOW	30	H 15' X L5'X32'	3.0			FN15HL	2.29



7001 Series



7001-NFC Series



7001-MXB Series

Designed for polyethylene piping systems, requires fewer fittings and can be installed quickly.



Flow Through

Self Cleaning
Screen

Pro Series 100 Solenoid Valves

A contemporary tilt diaphragm makes this the perfect choice for residential, light commercial and dirty water applications.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- Combination 1" and 1 1/4" connections provide the option to increase the pipe size to the valve increasing the flow rate.
- Tilted diaphragm/piston assembly allows for a straight flow path of the water increasing the flow rate while reducing the friction loss.
- Debris tolerant design provides flexibility for use in potable or dirty water applications.
- Manual external bleed through bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Flow control with removable handle allows for precise flow adjustment, manual shut-off and allows you to remove the handle to prevent tampering.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Self cleaning metering screen is in the turbulent flow of water allowing self cleaning action during operation.
- 5 year Limited Warranty.

Specifications:

- Dimensions: 4" H x 3" W x 5 1/4" L
- Flow range: 0.75-35 GPM
- Pressure Rating: 20-150 PSI
- Pressure Loss @ 30 gpm - 5 psi
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.43 Amps
- Holding Current: 0.25 Amps

Part Number	Description	Ctn Qty	List Price
7001	1" Female thread or 1 1/4" Male slip	12	\$ 43.56
7001-SL	1" Female slip or 1 1/4" Male slip	12	44.01
7001-NFC	1" Female th or 1 1/4" Male sl NO FLOW CONTROL	12	42.74
7001-SL-NFC	1" Female sl or 1 1/4" Male sl NO FLOW CONTROL	12	43.16
7001-MXB	1" Male x Barb	12	44.39
7001-MXB-NFC	1" Male x Barb NO FLOW CONTROL	12	43.16



7101 and 7101-J Series



No tools needed with Jar Top



Manual External Bleed Screw

Pro Series 150 1" Solenoid Valves

Offer the professional a wide array of features and benefits.
Use for residential, light commercial, dirty water applications.



Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- **Threaded jar top** allows for quick removal of the cap for easy servicing. The glass filled nylon screw cap increases durability.
- **7101-J Series is direct replacement for Irritrol 2400.**
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- 5 year Limited Warranty.

Specifications:

- Dimensions: 5 1/4" H x 3 1/8" W x 5" 5 1/4" H x 3" W x 4 3/8" Jar Top
- Flow range: 0.25-30 GPM
- Pressure Rating: 10-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

Performance Data:

GPM	5	10	15	20	30
ProSeries 150 1" valve					
PSI LOSS	2.9	2.1	1.8	3.0	5.0
ProSeries 150 1" valve with jar top					
PSI LOSS	3.3	3.9	2.9	3.2	6.1

Part Number	Description	Ctn Qty	List Price
7101	1" Female thread NPT	12	\$ 41.03
7101-SL	1" Female Slip	12	42.27
7101-J	1" Female Thread Jar Top, NPT	12	41.04
7101-J-SL	1" Female Slip Jar Top	12	41.87



7102 and 7115 Series

Pro Series 150 1 1/2" and 2" Solenoid Valves

Feature a removable inlet cap to easily modify the configuration from globe to angle style.

Alternate to Irritrol 216b and 217b.



Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Removable inlet cap allows for easy conversion from globe to angle style valve.
- Flow control allows for precise flow adjustment and manual shutoff.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Heavy duty santoprene diaphragm design improves durability.
- 5 year Limited Warranty.



System Flexibility

Specifications:

- Dimensions: 1 1/2" valve: 8" H x 4 1/4" W x 5 1/2" L
2" valve: 8 7/8" H x 4 7/8" W x 6 1/3" L
- Flow range: 5-120 GPM
- Pressure Rating: 20-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

Performance Data:

GPM		20	30	40	50	60	80	100	120
ProSeries 150 1 1/2" valve									
PSI LOSS	globe	3.0	2.6	2.3	2.9	4.1	5.5		
	angle	2.7	2.2	1.9	2.2	3.0	4.4		
ProSeries 150 2" valve									
PSI LOSS	globe	2.0	1.9	1.7	1.5	1.6	2.9	4.8	6.2
	angle	1.9	1.9	1.7	1.5	1.5	2.1	3.2	4.6

Part Number	Description	Ctn Qty	List Price
7115	1 1/2" Female Thread, NPT	6	\$ 146.28
7102	2" Female Thread, NPT	6	195.43





RPS46 Series



RPS46 Controller

Designed for residential applications the RPS46 has four individual programs to allow for efficient watering on separate programs.

Features:

- 4 and 6 station models for residential lawns.
- 4 fully independent programs allowing up to 4 starts per program, maximum of 16 starts per day.
- Indoor models with external transformer and plug.
- Seasonal adjustment allows adjustment of watering durations from 25% to 150%.
- Rain sensor ready - accepts rain sensor signal and is controlled by a bypass switch.
- Flexible manual operations to run a program, station or test.
- Battery back-up holds programs during power outages.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 5.7" H x 4.5" W x 1.7" D
- Station run times: 1 min - 12 hours 59 min.
- Programs: 4
- Start Times: 4 per program
- Water Schedules:
 - 7 day calendar w/ individual day selection
 - Odd/Even day or interval watering.
- Rain sensor ready inhibits automatic watering when wet conditions are detected by a rain sensor.
- Master valve / pump start signal.
- Automatic, semi-automatic and single station manual operation.

Electrical Specifications:

- Electrical Power Supply: 110-120 VAC/ 60 Hz/ 230 VAC 50 Hz.
- Electrical Outputs: 24 Volt AC, 0.85 amp.
- To Solenoid Valves: 24 VAC 50/60 Hz 0.5 amp max.
- Total output load must not be exceeded by the valves and pump requirements.
- Overload protection: Standard 20mm 1 amp fuse.
- Power failure: 9 volt standard alkaline battery maintains clock and programs for up to 2 weeks.
- Wiring: The output circuits should be installed and protected in accordance with wiring rules.

Part Number	Description	Ctn Qty	List Price
3504	4 station, 110 volt external transformer	1	\$ 165.98
3506	6 station, 110 volt external transformer	1	170.42

K-Rain® Controllers



PRO LC Series

PRO LC Modular Controller
For residential and light commercial applications. Now wifi ready.



The Pro LC is available in fixed 4, 8, or 12 station outdoor models. Compact controllers offer an array of user-friendly features including easy to follow programming, full program screen display, large LCD display, rain/freeze sensor compatibility, seasonal adjust, buried valve locator and more.

Specifications:

- Dimensions: 7" H x 7" W x 3.5" D
- Station run times: 1 sec - 6 hours for all stations
- Programs: 3
- Automatic Start Times: 4 per program
- Program Water Schedule:
 Custom (day of the week)
 Odd or Even (calendar days)

Electrical Specifications:

- Power Input: 110 V AC +/- 10% 60 Hz
- Power Output: 24 V AC, 1.0 amp.
- Power Backup: Lithium coin-cell battery maintains time and date during primary power outages.
- Multi-Valve Operation: Up to 4 24V AC, 7VA solenoid valves.

Features:

- Patented Full Program Display with one screen shows watering days, start times, stations and special programming.
- Now comes wi-fi ready. Wifi requires the BRIDGE module, sold separately.
- Short Circuit protection identifies and isolates stations with short circuits while programs continue.
- Station delay/overlap programming permits additional time between stations or dual operation for maintenance issues.
- AM/PM or 24 hour clock settings.
- System Test allows a full system check for valve operation.
- Manual Start allows manual program operation.
- Permanent Memory saves programs during power outages.
- Location feature aids in locating buried valves.
- Sensor bypass switch for global override.
- Master valve/pump start relay permits individual station programming.
- Dedicated Sensor enables direct sensor installation for maximum watering control.
- Default programming saves and recalls programs.
- Permanent day off watering feature.
- Seasonal adjust of watering times from 10-200% conserves water.

Part Number	Description	Ctn Qty	List Price
3104W	4 Station 110V AC internal transformer	1	\$ 271.34
3108W	8 Station 110V AC internal transformer	1	333.53
3112W	12 Station 110V AC internal transformer	1	469.17
3100-BRIDGE	ProLC WIFI bridge	1	261.86



2000 Series

2000 Series Single Station Controller

Single station controllers stay safe with rain-tight enclosures.



Features:

- 24 hour programmable time dial with multiple start times and a wide variety of timing periods including skip-a-day 14 day program.
- UL approved components.
- Perfect for nursery or mist applications.
- 2200 models have 10 minute programmable dial with a wide variety of timing periods in multiples of 1.5, 3 and 6 seconds and multiple start times.
- 2500 models are prewired for easy connection of a rainswitch and allows manual override of rainswitch from controller face.
- 2520 model allows operation of 24 volt rainswitch and 2 hp 220 volt pump with same controller.
- 2 year Limited Warranty.

Part Number	Voltage Input	Voltage Output	Rating	Ctn Qty	List Price
2100 Single Station Controllers					
2110	110 VAC, 60 Hz	110 VAC, 60 Hz	Single Pole, up to 1 HP	6	\$ 250.06
2112	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6	289.86
2114	110 VAC, 60 Hz	24 VAC, 30 VA	Built in Transformer	6	284.13
2120	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6	289.86

2200 Short Duration Single Station Controllers

2210	110 VAC, 60 Hz	110 VAC, 60 Hz	up to 1 HP	6	327.19
2214	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6	334.30

2500 Rainswitch Ready Controllers

2510	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6	326.48
2514	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6	436.18
2520	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6	376.77



K-Rain® Pump Start Relays



1500 Series

1500 Series Pump Start Relays

Features:

- Industrial, rain tight, secure, rustproof industrial grade enclosure ensures long product life and deters tampering. UV resistant and shockproof.
- UL approved components.
- Large easy access enclosure provides easy accessibility during wiring.
- Enclosure has 8 recessed knock-outs to provide easy connections from any direction.
- 24 or 110 VAC coils for applications up to 10 hp.
- 4 plastic inset cover screws provide extra system security reduces liability and deters tampering.
- 2 year Limited Warranty.



Specifications:

- Dimensions: 7" H x 5" W x 4 5/8" D
- 24 VAC, 60 Hz or 110 VAC, 60 Hz
- Double pole, single throw

	Model #1522	Model #1521	Model #1552	Model #1551
• Inrush:	35 VA	42 VA	60 VA	77 VA
• Sealed:	7.0 VA, 3 watts	8.5 VA, 3.6 watts	7 VA, 2.3 watts	10 VA, 4 watts
• Resistance ($\pm 10\%$):	11 ohms	210 ohms	5.61 ohms	89.5 ohms
• Inductive:	20 amp	20 amp	40 amp	40 amp
• Resistive:	30 amp	30 amp	50 amp	50 amp
• Input 120 V:	up to 3 hp	up to 3 hp	up to 3 hp	up to 3 hp
• Input 240 V:	up to 3 hp	up to 3 hp	up to 5 hp	up to 5 hp



Part Number	Description	Volts	Ctn Qty	List Price
1522	3 hp pump start relay	24 VAC	8	\$ 188.09
1521	3 hp pump start relay	110 VAC	8	249.53
1552	5 hp pump start relay	24 VAC	8	266.75
1551	5 hp pump start relay	110 VAC	8	242.60

K-Rain® Rain Sensor



3208

3208 Rain Sensor Features:

- Turns irrigation controllers into water managers by suspending watering during rain and/or freeze periods.
- Weather resistant. Made of UV resistant polymer for outdoor exposure.
- Maintenance free. No batteries to replace.
- 2 in 1 mounting provides flexible installation with standard flat and gutter mounting.
- HRFS includes a freeze sensor that prevents the system from starting when temperatures drop to 37° F or below.



Part Number	Description	List Price
3208-HRS	Hardwired Rain Sensor	\$ 73.05
3208-HRFS	Hardwired Rain/Freeze Sensor	109.48



4000 Series



4000 Series Indexing Valves

Features:

- Automates multiple zoned residential and small commercial irrigations systems.
- Ideally suited for both city water and pump applications.
- ABS Polymer body construction is high strength, non-corrosive for long product life.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at low 10 gpm at pressures of 25-75 psi.
- Simplicity of design and few moving parts ensures easy maintenance and long life.
- 2 year Limited Warranty.

Specifications:

- ABS polymer construction
- Dimensions: 5 3/4" H x 5 3/4" W
- Flow Range: 10-40 gpm
- Pressure rating: 25-75 psi
- Pressure Loss

4 outlet valve	Flow gpm	10	20	30	40
	PSI loss	2.0	3.0	4.5	6.4
6 outlet valve	Flow gpm	10	20	30	
	PSI loss	2.5	4.5	7.5	

Part Number	Description	Zones	Ctn Qty	List Price
4400	4 outlet index valve	NO cam	8	\$ 141.44
4402	4 outlet index valve	2 zones	8	158.71
4403	4 outlet index valve	3 zones	8	183.66
4404	4 outlet index valve	4 zones	8	183.66
P6107042	2 zone cam only		5	24.42
P6107043	3 zone cam only		5	24.42
P6107044	4 zone cam only		5	24.42
4600	6 outlet index valve	NO cam	8	141.44
4602	6 outlet index valve	2 zones	8	183.65
4603	6 outlet index valve	3 zones	8	183.65
4604	6 outlet index valve	4 zones	8	183.65
4605	6 outlet index valve	5 zones	8	183.65
4606	6 outlet index valve	6 zones	8	183.65
P6107063	3 zone cam only		5	24.42
P6107064	4 zone cam only		5	24.42
P6107065	5 zone cam only		5	24.42
P6107066	6 zone cam only		5	24.42
P6200400	Cam screws - set of 2 per bag		5	3.44

K-Rain® Indexing Valves



KR6000 Series

KR6000 Series Indexing Valves

Features:

- Automates multiple zoned residential and small commercial irrigations systems with high pressure.
- Recommended for pump fed or high-flow city water systems.
- Metal die-cast body is durable, long lasting and capable of high pressure applications.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at 15 gpm at pressures of 25-150 psi.
- Built-in atmospheric vacuum breaker releases any vacuum created between the pump and valve on shut down.
- 2 year Limited Warranty.



Specifications:

- Die-cast metal valve top/housing, ABS polymer outlets.
- Dimensions: 7" H x 8" W
- Inlet: 1 1/2" threaded NPT connection
- Outlet: Slip and glue connections to 1 1/2" PVC pipe
- Flow Range: 15-150 gpm
- Pressure rating: 25-150 psi
- Pressure Loss

4 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	2.5	3.5	5.0	7.5	10.0
6 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	3.0	4.0	6.0	9.0	11.0

Part Number	Description	Zones	Ctn Qty	List Price
KR6402	4 outlet index valve	2 zones	4	\$ 374.37
KR6403	4 outlet index valve	3 zones	4	374.37
KR6404	4 outlet index valve	4 zones	4	374.75
KR6605	6 outlet index valve	5 zones	4	374.75
KR6606	6 outlet index valve	6 zones	4	374.75

Saddle Tees - PVC for Rigid Plastic Pipe



Clamp-It™ PVC Saddle Tees for Rigid Pipe Features:

- Use for turf and irrigation systems, golf courses, athletic fields.
- Use for water service lines, mines, landfills.
- Provides full and equal support around the entire circumference of the pipe.
- Easy to install hinge and clamping wedge eliminates need for metal screws.
- Made of high impact type II PVC.
- EPDM O-ring seal.
- Rated at 200 PSI at 72°F.
- For use on cold water lines only, 2" - 8" PVC.



Clamp-It™ PVC Saddle Tee



1. Place saddle on desired location and mark. Drill hole according to Drill Chart and deburr.



2. Place saddle over hole and attach easy clamping hinge around pipe.



3. Apply wedge half way by hand and finish off with a slight tap of a rubber mallet. Ideal for new installations or additions.



4. Saddle should be pressure tested prior to burial to assure system integrity. Long lasting EPDM o-ring seal assures a leak free installation. Note: wedge does not need to be flush with saddle body to seal.

Saddle Drill Sizes:

Outlet size over 2 1/2" pipe	Drill Size
3/4" IPS Slip & Fipt	3/4"
1" IPS Slip & Fipt	1"
1 1/4" IPS Slip & Fipt	1 1/4"
1 1/2" IPS Slip & Fipt	1 3/8"

* For 2 1/2" IPS saddle with a 2" outlet - Drill size must be 1 3/4" due to pipe restriction.

Part Number	IPS Pipe Size	Tap Size	Ctn Qty	List Price
Clamp-It™ PVC Saddle Tees				
421507	1 1/2	3/4 fipt	5	\$ 85.81
421510	1 1/2	1 fpt	5	85.81
422007	2	3/4 fipt	5	99.37
422010	2	1 fipt	5	102.63
422012	2	1-1/4 fipt	5	102.63
422015	2	1-1/2 fipt	5	102.63
432010	2	1 slip	5	92.71
432012	2	1-1/4 slip	5	91.83
432015	2	1-1/2 slip	5	91.83
422507	2-1/2	3/4 fipt	5	111.82
422515	2-1/2	1-1/2 fipt	5	111.82
422520	2-1/2	2 fipt	5	111.82
432510	2-1/2	1 slip	5	124.49
432515	2-1/2	1-1/2 slip	5	124.49
432520	2-1/2	2 slip	5	124.49

See next page for 3" - 8" CLAMP IT Saddle Tees.

Saddle Tees - PVC for Rigid Plastic Pipe

Part Number	IPS Pipe Size	Tap Size	Ctn Qty	List Price
453007	3	3/4 slip	5	\$ 124.49
453010	3	1 slip	5	124.49
453012	3	1-1/4 slip	5	124.49
453015	3	1-1/2 slip	5	124.49
453020	3	2 slip	5	124.49
443007	3	3/4 fipt	5	140.29
443010	3	1 fipt	5	140.29
443012	3	1-1/4 fipt	5	140.29
443015	3	1-1/2 fipt	5	140.29
443020	3	2 fipt	5	140.29
454007	4	3/4 slip	5	159.53
454010	4	1 slip	5	159.53
454015	4	1-1/2 slip	5	159.53
454020	4	2 slip	5	159.53
444007	4	3/4 fipt	5	171.14
444010	4	1 fipt	5	176.67
444012	4	1-1/4 fipt	5	176.67
444015	4	1-1/2 fipt	5	176.67
444020	4	2 fipt	5	176.67
456007	6	3/4 slip	5	258.30
456010	6	1 slip	5	258.30
456015	6	1-1/2 slip	5	258.30
456020	6	2 slip	5	258.30
446007	6	3/4 fipt	5	257.49
446010	6	1 fipt	5	257.49
446012	6	1-1/4 fipt	5	257.49
446015	6	1-1/2 fipt	5	257.49
446020	6	2 fipt	5	248.54
458015	8	1-1/2 slip	5	312.50
458020	8	2 slip	5	302.78
448007	8	3/4 fipt	5	297.62
448010	8	1 fipt	5	312.50
448020	8	2 fipt	5	302.78



Clamp-It™ PVC
Saddle Tee



Replacement O-rings available for all size PVC Saddle Tees.
Contact your customer service representative for sizing and pricing.

Funny Pipe, MARLEX™ Fittings



Swing Riser Fittings for Funny Pipe

- For use with Funny Pipe and other thick walled 1/2" ID tubing.
- Use in drip irrigation, home sprinkler systems & other residential irr. applications.
- Spiral barb design allows quicker twist-on installation.
- Made of Celcon® plastic resin providing long term durability.

Part Number	Size	Connections	Ctn Qty	List Price
90° Elbow				
SRE1/2	1/2" x 1/2"	MIPT x funny pipe barb (FPB)	100/1500	\$ 0.43
SRE3/4	3/4" x 1/2"	MIPT x FPB	50/1000	0.43
Male Adapter				
SRMA1/2	1/2" x 1/2"	MIPT x FPB	100/500	0.43
SRMA3/4	3/4" x 1/2"	MIPT x FPB	50/500	0.43
Coupling				
SRC1/2	1/2" x 1/2"	FPB x FPB	50/500	0.38
Tee				
SRT1/2	1/2" x 1/2"	FPB x FPB x FPB	50/250	0.85

LASCO Swing Riser Fittings for Funny Pipe with Double Helix design

Part Number	Size	Connections	Ctn Qty	List Price
90° Elbow				
3300-005	1/2" x 1/2"	MIPT x funny pipe barb	500	\$ 1.41
3300-007	3/4" x 1/2"	MIPT x funny pipe barb	500	1.41
Male Adapter				
3400-005	1/2" x 1/2"	MIPT x funny pipe barb	100	1.50
3400-007	3/4" x 1/2"	MIPT x funny pipe barb	100	1.50



TRANSITION FITTINGS MARLEX™ STREET ELBOWS

- Ideal for use in swing joints.
- More than 27% heavier than other elbows, providing added strength & durability.

Part Number	Size	Connection	Ctn Qty	List Price
MSE1/2	1/2" x 1/2"	mipt x fipt	50/500	\$ 0.40
MSE3/4	3/4" x 3/4"	mipt x fipt	25/350	0.67
MSE1	1" x 1"	mipt x fipt	25/100	1.04



LASCO Double Helix
SW Series

Transition Fittings for Irrigation Applications

- Save money on material and labor cost.
- Faster, easier installation.
- Retaining spikes to prevent movement on Dawn fittings.
- Double helix design on LASCO fittings.

LASCO®
Fittings, Inc.

LASCO Double Helix / KWIKADAPT SW Series Fitting Features:

- One piece design to go from Poly to swing/funny pipe.
- Use instead of a combo insert tee and a swing elbow.
- Available in 3/4" and 1".
- LASCO double helix fitting pipe connection.

Part Number	Description	Ctn Qty	List Price
LASCO - Poly to Swing/Funny Pipe Double Helix Design			
1429-099	3/4" Insert x Swing /Funny Pipe Coupling	10	\$ 3.55
1429-129	1" Insert x Swing /Funny Pipe Coupling	10	3.70
1401-099	3/4" Insert x Swing/Funny Pipe Tee	10	4.04
1401-129	1" Insert x Swing/Funny Pipe Tee	10	4.15

Swing Joint Assemblies, Poly Swing Pipe



SWING JOINT ASSEMBLIES

- Fully assembled swing assemblies with funny pipe.
- Includes marlex elbow.
- Available in additional lengths or without marlex elbow by special order.

Part Number	Size x Length	Connection	Ctn Qty	List Price
SA125050	1/2" x 1/2" x 12"	mipt x mipt (marlex ell)	50	\$ 2.43
SA125075	1/2" x 3/4" x 12"	mipt x mipt (marlex ell)	50	2.52
SA127575	3/4" x 3/4" x 12"	mipt x mipt (marlex ell)	50	2.48



POLY SWING PIPE

- Highly flexible.
- Use with swing riser fittings for a flexible swing joint assembly.
- LLDPE for increased flexibility.
- Up to 100 psi working pressure at 72°F.
- Shrink wrapped coils.

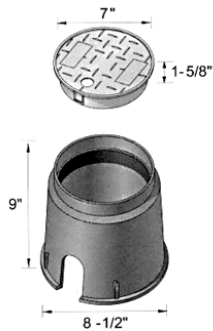


Part Number	Size	Ctn Qty	List Price
PSP50-100	1/2" x 100' roll	1	\$ 114.71



Valve Box Features:

- Bodies made from structural polyolefin.
- Covers made with UV inhibitors to prevent discoloration and deterioration.
- Nestable for easy storage.
- 10" round and all rectangular boxes include brass insert so bolts may be added for easy lock down.
- ICV cover design, green covers for water applications.



**6" Round
Economy**

Part Number	Description	Pallet Qty	List Price
6" Round Economy Box with overlapping lip snap-on green cover			
D109-G	Box w/ cover	600	\$ 11.18
D109GL	Cover only	1	5.71



6" Round

6" Round Box with overlapping lip snap-on green cover

107BCH	Box w/ cover	250	12.68
107CH	Cover only	1	6.68
107BCS	Box w/ sewer cover	250	14.73
107BC	ICV Box w/ cover	250	11.85
107C	ICV cover only	800	5.19

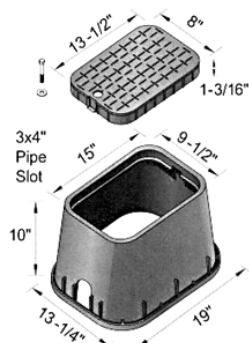


10" Round Box

10" Round Box with bayonet twist-on overlapping lip green cover

111BC	Box w/ cover	180	31.10
111C	Cover Only	1	15.17
111BCS	Box w/ sewer cover	180	39.95

Valve Boxes

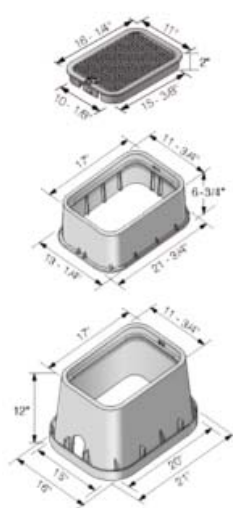


**10" Standard Rectangular
Box**

10" x 15" Standard Rectangular Valve Box

- Standard drop-in green cover

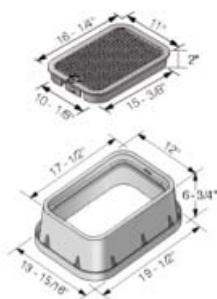
Part Number	Description	Pallet Qty	List Price
10" x 15" Rectangular Valve Box			
D1000-SG	10" x 15" x 10" Box w/ drop in cover	96	\$ 54.61
D1000-SGL	Cover Only	1	20.75



14" x 19" Standard Rectangular Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty	List Price
14" x 19" Standard Rectangular Valve Box			
113BC	14" x 19" Box w/ overlapping cover	78	\$ 67.01
113C	Overlapping Cover Only	1	41.63
113-6	Extension - no cover	49	48.91

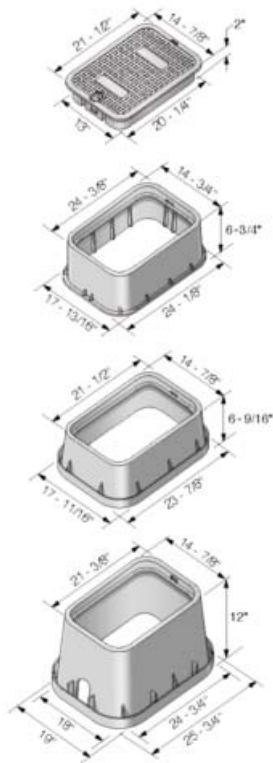


14" x 19" x 6" Tapered Low Profile Rectangular Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty	List Price
14" x 19" x 6" Tapered (Low Profile) Rectangular Box			
115TBC	14" x 19" x 6" Tapered Box w/ cover	96	\$ 65.11
115	14" x 19" x 6" Tapered Extension w/ cover	49	62.78

Valve Boxes



13" x 20" Jumbo Rectangular Valve Box

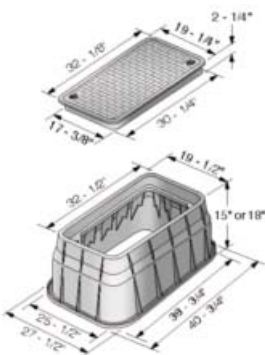
- Overlapping lip snap-on green cover
- "Water Meter" labeled cover available.

Part Number	Description	Pallet Qty	List Price
13" x 20" Jumbo Rectangular Valve Box			
117BC	13" x 20" Jumbo Box w/ cover	56	\$ 128.57
117C	Jumbo cover only	1	80.33
117CW	Jumbo Black "WATER METER" cover only	1	104.51
117B	13" x 20" Jumbo Box only	56	113.05
117-6	Jumbo Extension - no cover	32	98.12

13" x 20" x 6" Tapered Low Profile Jumbo Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty	List Price
13" x 20" x 6" Tapered Low Profile Jumbo Valve Box			
119TBC	13" x 20" x 6" Tapered Jumbo Box w/ cover	56	\$ 112.47
119	13" x 20" x 6" Tapered Jumbo Extension w/ cover	32	168.85



17" x 30" x 18" Pro-Spec Jumbo Rectangular Valve Box

- HDPE green body, green cover.
- Includes stainless steel bolts.
- LID dimensions: 32 1/8" x 19 1/4" outer rim.
- BOX dimensions: 32 1/2" x 19 1/2" top, 18" high, 40 3/8" x 27 1/2" base

Part Number	Description	Pallet Qty	List Price
17" x 30" x 18" Jumbo Rectangular Box			
326BCB	17" x 30" x 18" Jumbo Box w/ cover	10	\$ 894.27





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
- 118 Series does not have union end.

NEW

Part Number	IPS Size	Body Length	Ctn Qty	List Price
PVC Flo-Span Expansion Couplings - NO UNION S x SPG				
118-05	1/2"	7 1/2"	28	\$ 12.57
118-07	3/4"	7 3/4"	24	13.91
118-10	1"	9 1/2"	15	16.12
118-12	1-1/4"	10 3/4"	10	30.33
118-15	1-1/2"	12 3/4"	16	33.26
118-20	2"	13 1/2"	12	50.84
118-25	2-1/2"	18 3/4"	3	79.00
118-30	3"	21"	3	98.68
118-40	4"	22 3/4"	3	172.54
QF-6000	6" S x S	26 1/4"	1	642.01



PSC Series



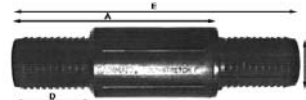
Poly-Stretch Repair Coupling Features:

- 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	\$ 15.50
PSC10	1" Poly-stretch coupling	50	16.50
PSC12	1 1/4" Poly-stretch coupling	25	25.88
PSC15	1 1/2" Poly-stretch coupling	25	28.80
PSC20	2" Poly-stretch coupling	20	43.23

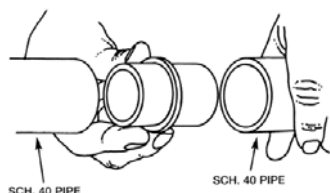
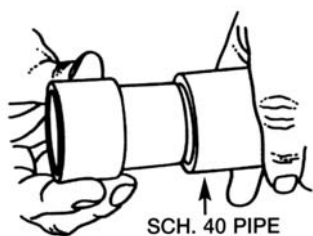
Repair Fittings for Sch 40 Pipe



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
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Pipe Extender Repair Fitting

PEX50	Pipe Extender	1/2"	48	\$ 3.32
PEX75	Pipe Extender	3/4"	48	4.32
PEX100	Pipe Extender	1"	48	5.49
PEX125	Pipe Extender	1 1/4"	48	6.42
PEX150	Pipe Extender	1 1/2"	48	7.57
PEX200	Pipe Extender	2"	48	8.57
PEX250	Pipe Extender	2 1/2"	96	11.63
PEX300	Pipe Extender	3"	96	16.81
PEX400	Pipe Extender	4"	48	19.64

Inside Connector Repair Fitting

PIC100	Inside Connector	1"	48	5.49
PIC150	Inside Connector	1 1/2"	48	7.57
PIC200	Inside Connector	2"	48	8.57



T Series

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter

Features:

- Heavy duty, glass reinforced nylon handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Handle "bridge" support structure designed to eliminate deflection, bending or breaking while cutting for straighter, truer cut every time.
- "100" and "135" available in black or yellow. "200" available in black.
- Available with either PTFE coated hardened tool steel or polished high-carbon stainless steel blades specially honed to maintain their edge longer than competitive blades.
- Cutter blades individually laser etched with "100", "135" or "200" for easy identification. Replacement blades are blister packed with knock out pin.
- All Harvard Plastic Pipe and Hose cutters are blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing (except when cutting 2" or larger hose with the SS200).



Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
T100	Black	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	\$ 27.74
YT100	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	27.74
T100SS	Black	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	28.96
YT100SS	Yellow	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50	28.96
T135	Black	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	31.12
YT135	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	31.12
T135SS	Black	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	32.33
YT135SS	Yellow	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50	32.33
SS200	Black	Stainless Steel	Rubber hose through 2" PE through 1 1/2" & Class PVC through 1 1/4"	50	34.29

HARVARD CONTRACTOR Replacement Blades (includes 1 knock out pin) DP DOUBLE PACK

BT100	PTFE Coated Hardened Steel Blade	T100, YT100	100	11.97
BT100SS	Stainless Steel Blade	T100SS, YT100SS	100	10.81
BT135	PTFE Coated Hardened Steel Blade	T135, YT135	100	13.67
BT135DP	PTFE Coated Hardened Steel Blades (2)	T135, YT135	100	24.93
BT135SS	Stainless Steel Blade	T135SS, YT135SS	100	12.56
BT135DPSS	Stainless Steel Blades (2)	T135SS, YT135SS	100	26.58
SSB200	Stainless Steel Blade	SS200	50	12.63

Pipe & Hose, PVC - Ratchet Pipe Cutters



APC100SS



HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter with Spring Action Features:

- Heavy duty, cast metal handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Spring action for easy use.
- Latch handle for carrying in closed position.
- **Reversible**, replaceable polished high carbon stainless steel blades honed to maintain thin edge longer than competitive blades.
- Cuts PE, Rubber hose & PVC (Class & Sch 40) through 1" ID (max diameter 1 3/8")
- Blister packed with an attractive hang-up card.



The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing.



Part Number	Color	Blade Material	Cuts	Ctn Qty	List Price
HARVARD CONTRACTOR Pipe & Hose Cutters					
APC100SS	Red	Stainless Steel	PE, Rubber hose & PVC through 1" ID	50	\$ 22.27
HARVARD CONTRACTOR Replacement, Reversible Blade					
APC100SSB		Stainless Steel reversible blade		1	11.16

PVC Ratchet Pipe Cutter Features:

- For use on plastic pipes up to 1", 1 1/4", 1 3/8", 1 1/2" or 2" diameter.
- **Blade and ratchet teeth made of molybdenum vanadium stainless steel. Stays sharp longer than plated steel or lower grade stainless blades.**
- All metal construction insures long life; locking clip provides safe storage.
- Holds pipe as it cuts, creating smooth, even ends.
- One hand operation (except on HL50).



HS25



HM42



HL48



HL50

Part Number	Description	Ctn Qty	List Price
Cutters - With molybdenum vanadium stainless steel blades			
HS25	PVC Pipe Cutter, 1"	60	\$ 69.19
HM42	PVC Pipe Cutter, 1-1/4"	60	70.14
HL42A	PVC Pipe Cutter, 1 3/8"	60	97.35
HL48	PVC Pipe Cutter, 1 1/2"	40	143.83
HL50	PVC Pipe Cutter, 2"	20	280.53
Replacement Blades - Molybdenum vanadium stainless steel			
HS25B	Blade for HS25	1	32.70
HM42B	Blade for HM42	1	38.12
HL42AB	Blade for HL42A	1	38.06
HL48B	Blade for HL48	1	75.64
HL50B	Blade for HL50	1	141.21
Replacement Spring Sets			
HS25SP	Spring Set for HS25	1	4.91
HM42SP	Spring Set for HM42	1	6.69
HL42ASP	Spring Set for HL42A	1	6.88
HL48SP	Spring Set for HL48	1	11.08
HL50SP	Spring Set for HL50	1	7.43



WCS1022

HARVARD CONTRACTOR'S

WCS1022 Wire Cutter/Strippers Features:

- Combination wire cutter and stripper.
- Strips wire sizes 22-10 AWG.
- Heavy duty scissor opening spring.
- Cushioned plastic grips.
- Easy locking thumb lock.



Part Number	Description	Ctn Qty	List Price
WCS1022	Wire Cutter/Stripper	100	\$ 23.19



SW Series

Adjustable Strap Wrench:

Part Number	For Use with Coupling Sizes	Ctn Qty	List Price
SW400	1/2" through 4"	60	\$ 27.74
SW600	1/2" through 6"	60	41.89



SW500C

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.

Part Number	Description	Ctn Qty	List Price
SW500C	Stub Wrench	25	11.54


HK400

HW500

HR

HP400

HI

HAS300

HPO400

HS500

HK50

HK400 4-Way Key Features:

- For use on square stem 1/4", 9/32", 5/16", 11/32".

HW500 Tub and Shower Valve Socket Wrench Set Features:

- Set includes sockets, handle and wire.

HR Radiator Spud Wrench Features:

- For use when spud wrench or key is required.
- Plated.

HP400 4 Way Countersunk Plug Wrench Features:

- Steel construction.

HI Internal Pipe Wrench Features:

- Available in sizes 3/8", 1/2", 3/4" and 1".

HAS300 Adjustable Strainer and Spud Wrench Features:

- Use for Basket Strainers and Closet Spud.
- Minimum 1" to Maximum 3".
- Plated.

HPO 400 4-Way P.O. Plug Wrench Features:

- Plated.
- Use when installing or removing tub drains, P.O. plugs & basket strainers.

HS500 Spanner and Strainer Wrench Features:

- Plated, malleable iron.
- For use on basket strainer jam nuts.

Part Number	Description	Ctn Qty	List Price
HK400	Four way key	6	\$ 9.11
HW500	Complete wrench set	1	18.56
HR	Radiator spud wrench	5	31.29
HP400	4 way plug wrench	1	25.86
HI380	3/8" internal pipe wrench	5	4.40
HI500	1/2" internal pipe wrench	5	5.48
HI750	3/4" internal pipe wrench	5	13.50
HI100	1" internal pipe wrench	5	10.50
HAS300	Adjustable strainer wrench	10	18.00
HPO400	4-Way plug wrench	10	7.04
HS500	Spanner/strainer wrench	10	8.47
HK50	Utility knife w/extra blade	12	12.09

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.**



N401 Series



N406 Series



N413 Series

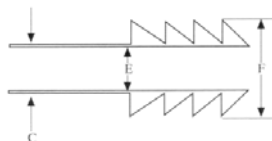


N429 Series



N436 Series

Insert Diameter Dimensions



MAXIMUM DIAMETERS			
SIZE	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.

Part Number	Description	Inner/Master Ctn Qty	List Price
N401-005	NYLON INS X INS TEE 1/2"	10/180	\$ 2.94
N401-007	NYLON INS X INS TEE 3/4"	10/100	3.47
N401-010	NYLON INS X INS TEE 1"	10/60	5.58
N401-012	NYLON INS X INS TEE 1 1/4"	5/40	9.53
N401-015	NYLON INS X INS TEE 1 1/2"	5/30	13.44
N401-020	NYLON INS X INS TEE 2"	5/15	18.19
N406-005	NYLON INS X INS 90 ELBOW 1/2"	10/300	2.52
N406-007	NYLON INS X INS 90 ELBOW 3/4"	10/180	2.89
N406-010	NYLON INS X INS 90 ELBOW 1"	10/100	3.47
N406-012	NYLON INS X INS 90 ELBOW 1 1/4"	5/60	5.90
N406-015	NYLON INS X INS 90 ELBOW 1 1/2"	5/40	8.94
N406-020	NYLON INS X INS 90 ELBOW 2"	5/25	11.96
N413-005	NYLON INS X MIPT 90 ELL 1/2"	10/300	4.39
N413-007	NYLON INS X MIPT 90 ELL 3/4"	10/200	6.12
N413-010	NYLON INS X MIPT 90 ELL 1"	10/100	8.58
N413-012	NYLON INS X MIPT 90 ELL 1 1/4"	5/60	11.33
N413-015	NYLON INS X MIPT 90 ELL 1 1/2"	5/50	16.82
N429-005	NYLON INS X INS COUPLING 1/2"	10/400	1.51
N429-007	NYLON INS X INS COUPLING 3/4"	10/250	1.76
N429-010	NYLON INS X INS COUPLING 1"	10/160	2.36
N429-012	NYLON INS X INS COUPLING 1 1/4"	10/80	4.24
N429-015	NYLON INS X INS COUPLING 1 1/2"	5/60	5.74
N429-020	NYLON INS X INS COUPLING 2"	5/40	7.26
N436-005	NYLON INS X MIPT M/A 1/2"	10/400	1.51
N436-007	NYLON INS X MIPT M/A 3/4"	10/250	1.87
N436-010	NYLON INS X MIPT M/A 1"	10/160	2.36
N436-012	NYLON INS X MIPT M/A 1 1/4"	10/80	3.79
N436-015	NYLON INS X MIPT M/A 1 1/2"	5/60	5.44
N436-020	NYLON INS X MIPT M/A 2"	5/40	8.52

Insert Fittings - Economy NO LEAD Cast Bronze

Features:

- **Light pattern, NO LEAD** cast bronze insert fittings for use with flexible plastic pipe.
- "E" Series **light pattern, NO LEAD** fittings compete with Merrill.
- **Third party certified to NSF/ANSI 372.**



ERBMANL



EXLRBMANL



ERBCNL



ERBTNL



ERBENL

Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
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NO LEAD Cast Bronze Male Insert Adapters (INS x MIP) (Merrill CRBMANL Series)

ERBMA1/2NL	1/2" x 1/2"	Hex	6	10/200	\$ 9.41
ERBMA3/4NL	3/4" x 3/4"	Hex	6	10/100	12.90
ERBMA1NL	1" x 1"	Hex	7	10/100	19.98
ERBMA1X3/4NL	1" x 3/4"	Hex	5	10/100	13.75
ERBMA11/4NL	1 1/4" x 1 1/4"	Hex	6	10/100	25.68
ERBMA11/4X1NL	1 1/4" x 1"	Hex	7	10/100	23.94
ERBMA1X11/4NL	1" x 1 1/4"	Hex	6	10/100	24.04
ERBMA11/2NL	1 1/2" x 1 1/2"	Hex	6	5/50	32.32
ERBMA2NL	2" x 2"	Hex	7	5/50	44.11

NO LEAD Cast Bronze Extra Long Male Adapters (INS x MIP) (Merrill RBMANLXL Series)

EXLRBMA1NL	1" x 1"	Hex	13	10/100	35.01
EXLRBMA11/4NL	1 1/4" x 1 1/4"	Hex	13	10/100	45.14

NO LEAD Cast Bronze Couplings (INS x INS) (Merrill RBCPNL Series)

ERBC1/2NL	1/2" x 1/2"	Hex	4	10/200	11.96
ERBC3/4NL	3/4" x 3/4"	Hex	4	10/200	13.50
ERBC1NL	1" x 1"	Hex	5	12/120	20.23
ERBC11/4NL	1 1/4" x 1 1/4"	Hex	6	12/72	30.14
ERBC11/2NL	1 1/2" x 1 1/2"	Hex	4	5/50	29.60
ERBC2NL	2" x 2"	Hex	4	5050	42.42

NO LEAD Cast Bronze Tees (INS x INS) (Merrill RBHTNL Series)

ERBT3/4NL	3/4" x 3/4"		5	10/100	27.96
ERBT1NL	1" x 1"		5	10/100	30.56
ERBT11/4NL	1 1/4" x 1 1/4"		6	5/50	62.49

NO LEAD Cast Bronze Elbows (INS x INS) (Merrill RBHENL Series)

ERBE3/4NL	3/4" x 3/4"		5	10/100	21.72
ERBE1NL	1" x 1"		5	10/100	28.24
ERBE11/4NL	1 1/4" x 1 1/4"		6	10/50	47.10

Insert Fittings - NO LEAD Cast Bronze

- For use with flexible plastic pipe
- Heavy Pattern, contractor grade NO LEAD cast bronze.
- 20% to 30% heavier fittings than some competitors.
- Third party certified NSF/ANSI 372.

☺ Limited Quantities Available



NLRBMA



NLRRBMA



NLXLRBMA



NLLRBMA



NLRBRA



NLRBMUA



NLRBFA



NLRBC

Part Number	Size	Style	Number of Barbs	Ctn/Case Qty	List Price
No Lead Cast Bronze Male Insert Adapters (INS x MIP)					
NLRBMA1/2	1/2" x 1/2"	Hex	5	10/200	\$ 10.54
NLRBMA3/4	3/4" x 3/4"	Hex	5	10/200	13.79
NLRBMA3/4X1	3/4" x 1"	Hex	6	10/100	17.64
NLRBMA1	1" x 1"	Hex	7	10/100	22.32
NLRRBMA1	1" x 1"	Round	6	10/100	22.21
NLRBMA1X3/4	1" x 3/4"	Hex	5	10/100	17.31
NLRBMA1X11/4	1" x 1 1/4"	Hex	6	10/100	27.11
NLRBMA11/4	1 1/4" x 1 1/4"	Hex	6	10/100	29.61
NLRBMA11/4X1	1 1/4" x 1"	Hex	7	10/100	29.11
NLRBMA11/2	1 1/2" x 1 1/2"	Hex	6	5/50	36.00
NLRBMA11/2X11/4	1 1/2" x 1 1/4"	Hex	6	10/100	50.08
NLRBMA2	2" x 2"	Hex	7	5/50	65.14

No Lead Cast Bronze Long Male Adapters (INS x MIP)

NLLRBMA1 ☺	1" x 1"	Hex	9	10/100	24.46
NLLRBMA1x11/4 ☺	1" x 1 1/4"	Hex	9	10/100	26.71

No Lead Cast Bronze Extra Long Male Adapters (INS x MIP)

NLXLRBMA1	1" x 1"	Hex	12	10/100	32.54
NLXLRBMA1x11/4	1" x 1 1/4"	Hex	12	10/100	34.84
NLXLRBMA11/4	1 1/4" x 1 1/4"	Hex	12	10/100	43.14
NLXLRBMA2	2" x 2"	Hex	12	5/50	76.79

No Lead Cast Bronze Male Union Adapters (INS x MIP)

NLRBMUA1	1" x 1"	Hex	6	10/80	49.82
NLRBMUA11/4	1 1/4" x 1 1/4"	Hex	6	10/40	54.64

No Lead Cast Bronze Rope Adapter (INS x MIP)

NLRBRA1	1" x 1"	Round w/ rope eye	7	10/100	28.39
NLRBRA1X11/4	1" x 1 1/4"	Round w/ rope eye	6	10/100	33.23
NLRBRA11/4	1 1/4" x 1 1/4"	Round w/ rope eye	6	10/100	36.02

No Lead Cast Bronze Female Adapters (INS x FIP)

NLRBFA1/2	1/2" x 1/2"	Round	5	10/200	15.89
NLRBFA3/4	3/4" x 3/4"	Round	5	10/100	17.50
NLRBFA1	1" x 1"	Round	5	10/100	27.82
NLRBFA11/4	1 1/4" x 1 1/4"	Round	7	10/100	34.61
NLRBFA11/2	1 1/2" x 1 1/2"	Round	6	5/50	41.25
NLRBFA2	2" x 2"	Round	7	5/50	63.39

No Lead Cast Bronze Couplings (INS x INS)

NLRBC1/2	1/2" x 1/2"	Hex	6	10/200	11.25
NLRBC3/4	3/4" x 3/4"	Hex	6	10/200	17.14
NLRBC3/4X1	3/4" x 1"	Hex	5 x 6	10/100	22.32
NLRBC1	1" x 1"	Hex	5	10/100	21.43
NLRBC1X11/4	1" x 1 1/4"	Hex	6	10/100	34.46
NLRBC11/4	1 1/4" x 1 1/4"	Hex	6	10/100	31.96
NLRBC11/2	1 1/2" x 1 1/2"	Hex	6	5/50	37.29
NLRBC2	2" x 2"	Hex	6	5/50	56.25

Insert Fittings - NO LEAD Cast Bronze

- For use with flexible plastic pipe
- Heavy Pattern, contractor grade NO LEAD cast bronze.
- Third party certified to NSF/ANSI 372.



NLXLRBC



NLRBHE



NLRBFE



NLRBE



NLRBHT



NLRBT



NLRBFT



Part Number	Size	Number of Barbs	Ctn/Case Qty	List Price
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No Lead Cast Bronze Extra Long Couplings (INS x INS)

NLXLRBC1	1" x 1" Hex	12	10/100	\$ 38.75
NLXLRBC11/4	1 1/4" x 1 1/4" Hex	12	5/50	56.71
NLXLRBC2	2" x 2" Hex	12	5/25	93.81

No Lead Cast Bronze Hydrant Elbow (INS x MIP)

NLRBHE3/4	3/4" x 3/4"	5	10/100	19.82
NLRBHE1x3/4	1" x 3/4"	5	10/100	22.68
NLRBHE1	1" x 1"	5	10/100	25.68
NLRBHE11/4X1	1 1/4" x 1"	6	5/50	46.71
NLRBHE11/4	1 1/4" x 1 1/4"	6	5/50	45.18

No Lead Cast Bronze Extra Long Hydrant Elbows (INS x MIP)

NLXLRBHE1	1" x 1"	8	10/100	33.24
NLXLRBHE1X3/4	1" x 3/4"	10	10/100	32.19

No Lead Cast Bronze Combination Elbows (INS x FIP)

NLRBFE1	1" x 1"	8	5/50	38.89
NLRBFE1x11/4	1" x 1 1/4"	8	5/50	42.10
NLRBFE11/4	1 1/4" x 1 1/4"	6	5/50	44.46

No Lead Cast Bronze Elbows (INS x INS)

NLRBE3/4	3/4" x 3/4"	5	10/200	18.71
NLRBE1	1" x 1"	6	10/100	29.32
NLRBE1X11/4	1" x 1 1/4"	6	10/50	49.13
NLRBE11/4	1 1/4" x 1 1/4"	6	10/50	47.32

No Lead Cast Bronze Hydrant Tees (INS x MIP)

NLRBHT3/4	3/4" x 3/4"	6	10/100	29.82
NLRBHT1X3/4	1" x 3/4"	6	10/100	33.25
NLRBHT1	1" x 1"	6	10/100	38.91

No Lead Cast Bronze Tees (INS x INS)

NLRBT3/4	3/4" x 3/4"	5	10/100	29.38
NLRBT1	1" x 1"	5	10/100	28.54
NLRBT11/4	1 1/4" x 1 1/4"	6	5/50	57.68

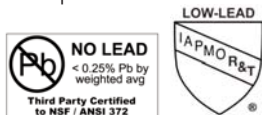
No Lead Cast Brass Combination Tees (INS x FPT)

NLRBFT3/4	3/4" x 3/4"	6	10/100	39.07
NLRBFT1	1" x 1"	6	6/60	46.56
NLRBFT1X1X3/4	1" x 1" x 3/4"	6	6/60	45.10
NLRBFT11/4	1 1/4" x 1 1/4"	6	4/40	79.03

Insert Fittings - Steel, Zinc Plated

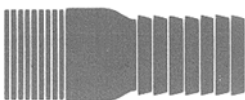
☺ Limited Quantities Available

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

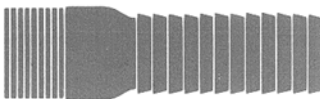


S12 Series

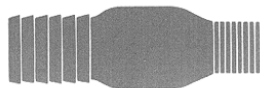
* NO wrench-grip shoulder



IMAS Series



XS12, IMAS--XL



S74, IMAS



S86

Part Number	Size	Ctn/Case Qty	List Price
Male Adapter, mipt x ins			
S12-1/2	1/2"	25	\$ 8.39
S12-3/4	3/4"	25	8.43
S12-1	1"	20	10.44
S12-1 1/4	1-1/4"	20	13.80
S12-1 1/2	1-1/2"	10	15.30
S12-2	2"	10	22.10
S12-2 1/2 *	2-1/2"	BULK	59.43
S12-3 *	3"	BULK	77.19
S12-4 *	4"	BULK	126.36

Male Adapter, mipt x ins IMPORTED

IMAS50	1/2"	50/300	2.91
IMAS75	3/4"	50/200	4.15
IMAS100	1"	25/200	5.18
IMAS125	1 1/4"	12/108	6.93
IMAS150	1 1/2"	6/90	9.22
IMAS200	2"	5/60	13.59
IMAS250	2 1/2"	2/10	35.63
IMAS300	3"	2/10	49.41
IMAS400	4"	2/10	78.92

Extra Long Male Adapter, mipt x ins

XS12-1	1"	25	20.85
XS12-1 1/4	1-1/4"	25	30.49

Extra Long Male Adapter, mipt x ins IMPORTED

IMAS100XL	1"	10/120	7.18
IMAS125XL	1 1/4"	10/80	12.23

Reducing Male Adapter, ins x mipt

S74-1X3/4	1" x 3/4"	25	22.45
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Reducing Male Adapter, ins x mipt IMPORTED

IMAS7550	3/4" x 1/2"	250	5.59
IMAS1075	1" x 3/4"	250	6.07

Venturi Adapter, mipt x ins

S86-3/4X12	3/4 x 12"	25	36.09
S86-1X6	1" x 6"	25	24.24
S86-1X8	1" x 8"	25	28.68

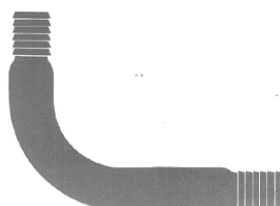
Insert Fittings - Steel, Zinc Plated

- 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.

☺ Limited Quantities Available



ISVMA



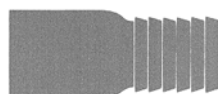
ISWSE



S10, ICS



ICS-XL



IFAS

Part Number	Size	Ctn/Case Qty	List Price
Venturi Adapter, mipt x ins IMPORTED			
ISVMA1X6	1" x 6"	60	\$ 9.46
ISVMA1X8	1" x 8"	50	10.68
ISVMA1X10	1" x 10"	40	13.01
ISVMA11/4X6	1-1/4" x 6"	50	13.18
ISVMA11/4X8	1-1/4" x 8"	40	14.48
ISVMA11/4X10	1-1/4" x 10"	30	15.64

Well Seal Elbow, ins x ins IMPORTED			
ISWSE100	1"	BULK	31.96
ISWSE125	1-1/4"	BULK	34.70

Coupling, ins x ins			
S10-3/4	3/4"	25	9.26
S10-1	1"	20	12.33
S10-11/4	1-1/4"	20	16.98
S10-11/2	1-1/2"	10	19.44
S10-2	2"	10	35.29

Coupling, ins x ins IMPORTED			
ICS50	1/2"	50/300	2.54
ICS75	3/4"	50/200	3.69
ICS100	1"	25/200	4.69
ICS125	1 1/4"	20/120	6.94
ICS150	1 1/2"	10/60	10.89
ICS200	2"	10/60	14.61
ICS250	2 1/2"	2/10	27.48
ICS300	3"	2/10	41.64
ICS400	4"	2/10	40.43

Extra Long Coupling, ins x ins IMPORTED			
ICS100XL	1"	10/120	4.91
ICS125XL	1-1/4"	10/80	9.66

Female Adapter, fipt x ins IMPORTED			
IFAS100	1"	125	6.65
IFAS125	1 1/4"	100	13.88

Insert Fittings - Cast Stainless Steel

Stainless Steel Insert Fittings Features:

- Cast from Grade 304 Stainless Steel.
- For use with flexible poly pipe.



Part Number	Size	Style	# Barbs	Ctn/CaseQty	List Price
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Cast 304 Stainless Steel Male Insert Adapters (MIP x INS)

SSMA1/2	1/2"	Hex	7	10/100	\$ 13.67
SSMA3/4	3/4"	Hex	7	10/200	14.41
SSMA3/4X1	3/4" X 1"	Hex	6	10/200	19.58
SSMA1	1"	Hex	7	10/100	21.25
SSMA11/4	1 1/4"	Hex	7	10/100	24.93
SSMA11/4X1	1 1/4" x 1"	Hex	7	10/100	24.46
SSMA11/2	1 1/2"	Hex	7	5/80	36.25
SSMA2	2"	Hex	7	5/40	51.56

Cast 304 Stainless Steel Heavy Pattern Extra Long Male Adapters (MIPxINS)

XLSSMA1	1" x 1"	Hex	13	10/100	31.89
XLSSMA11/4X1	1 1/4" x 1"	Hex	13	5/50	42.59
XLSSMA11/4	1 1/4" x 11/4"	Hex	13	5/50	43.04

Cast 304 Stainless Steel Coupling (INS x INS)

SSC1/2	1/2" x 1/2"	Hex	6	10/200	15.21
SSC3/4	3/4" x 3/4"	Hex	6	10/200	17.10
SSC1	1" x 1"	Hex	5	10/100	21.24
SSC11/4	1 1/4" x 11/4"	Hex	5	10/100	36.71
SSC11/2	1 1/2" x 11/2"	Hex	8	10/50	36.40
SSC2	2" x 2"	Hex	8	5/50	49.03

Cast 304 Stainless Steel Tee (INS x INS x INS)

SST3/4	3/4" x 3/4"		5	5/50	22.68
SST1	1" x 1"		5	10/100	26.25
SST1x3/4	1" x 3/4"		6	10/100	26.75
SST11/4	1 1/4" x 1 1/4"		5	10/100	54.54

Cast 304 Stainless Steel Elbow (INSxINS)

SSE3/4	3/4" x 3/4"		5	10/100	16.03
SSE1	1" x 1"		6	10/100	26.04
SSE1X11/4	1" X 1 1/4"		6	10/50	28.50
SSE11/4	1 1/4" x 1 1/4"		7	5/50	41.28

Cast 304 Stainless Steel Hydrant Elbow (INSxMIP)

SSHE3/4	3/4"x 3/4"		5	10/100	19.14
SSHE1X3/4	1" x 3/4"		5	10/100	23.82
SSHE1	1" x 1"		5	10/100	24.82
SSHE11/4	1 1/4" x 1 1/4"		6	10/50	49.34

Cast 304 Stainless Steel Hydrant Tee (INS x MIP)

SSHT3/4	3/4" x 3/4"		4	10/100	24.32
SSHT1x3/4	1" x 3/4"		6	10/100	30.41
SSHT1	1" x 1"		4	10/100	38.39

Insert Fittings - Swaged Stainless Steel

Swaged Stainless Steel Insert Fittings

Features:

- For use with flexible poly pipe.
- Third party certified to NSF/ANSI 372



☺ Limited Quantities Available



IMASS



SS12

* NO wrench-grip shoulder



SS38 Series



ISSVMA

NEW

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Male Adapter (MIP x INS)					
IMASS50	1/2"	Round	6	25/200	\$ 8.44
IMASS75	3/4"	Round	6	25/150	10.04
IMASS100	1"	Round	7	20/120	16.33
IMASS125	1 1/4"	Round	7	20/80	20.46
IMASS125100	1 1/4 X 1"	Round	7	20/80	24.11
IMASS150	1 1/2"	Round	9	10/60	27.58
IMASS200	2"	Round	9	10/40	38.75

Swaged 316 Stainless Steel Male Insert Adapters (MIPxINS) Made in USA

SS12-1/2*	1/2"	Round	6	25/300	\$ 14.08
SS12-3/4	3/4"	Hex	7	25/200	14.84
SS12-1	1"	Hex	7	20/160	30.54
SS12-11/4	1-1/4"	Hex	6	20/120	36.91
SS12-11/2	1-1/2"	Hex	6	10/60	41.68

Swaged 316 Stainless Steel Male Reducing Adapter (MIP x INS) Made in USA

SS38-11/4x1	1-1/4 x 1"	Round	7	25/100	36.55
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Swaged 316 Stainless Steel Extra Long Male Adapter (MIP x INS) Made in USA

XSS12-1	1"	Round	14	25	37.95
XSS12-11/4	1 1/4"	Round	14	25	50.85

Swaged 304 Stainless Steel Venturi Adapter, mipt x ins IMPORTED

ISSVMA1X6	1" x 6"	Round	7	50	30.11
ISSVMA11/4X6	1 1/4" x 6"	Round	7	50	32.38

Part Number	Size	Style	# Barbs	Ctn/Case Qty	List Price
Swaged 304 Stainless Steel Coupling (INS x INS)					
ICSS50	1/2"	Round	6	25/200	\$ 6.83
ICSS75	3/4"	Round	6	25/150	9.25
ICSS100	1"	Round	7	20/120	15.14
ICSS125	1 1/4"	Round	7	20/80	19.32
ICSS150	1 1/2"	Round	9	10/60	26.56
ICSS200	2"	Round	9	10/40	38.16

Swaged 316 Stainless Steel Coupling (INS x INS) Made in USA

SS10-1	1"	Round	7	20	25.21
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Swaged 316 Stainless Steel Extra Long Coupling (INS x INS) Made in USA

XSS10-1	1"	Round	14	25	70.14
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ICSS Series



SS10 Series

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.



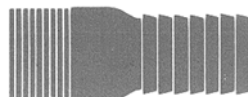
ANSI/NSF Standard 61
Drinking Water System
Components



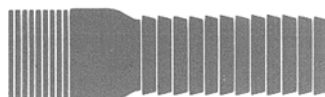
☺ Limited Quantities Available



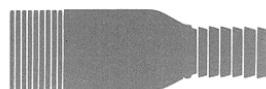
B12



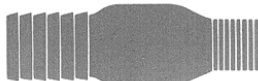
IMAB



XB12, IMAB---XL



B38



B74



B86



Complies to
ANSI/NSF 61

Male Adapter, mipt x ins

B12-1/2	1/2"	25/300	\$ 16.22
B12-3/4	3/4"	25/200	20.48
B12-1	1"	20/160	26.44
B12-11/4	1-1/4"	20/120	47.11
B12-11/2	1-1/2"	10/60	56.33
B12-2	2"	10/40	75.29

Male Adapter, mipt x ins IMPORTED

IMAB50	1/2"	50/300	14.76
IMAB75	3/4"	50/200	21.09
IMAB100	1"	25/100	19.05
IMAB125	1 1/4"	20/80	51.55
IMAB150	1 1/2"	10/60	71.95
IMAB200	2"	10/60	89.62
IMAB250	2 1/2"	2/10	160.78
IMAB300	3"	2/10	282.63
IMAB400	4"	2/10	539.46



Complies to
ANSI/NSF 61

Extra Long Adapter, mipt x ins

XB12-1	1"	25/100	52.65
XB12-11/4	1-1/4"	25/50	76.62

Extra Long Adapter, mipt x ins IMPORTED

IMAB100XL	1"	10/120	45.98
IMAB125XL	1-1/4"	10/80	54.40



Complies to
ANSI/NSF 61

Reducing Male Adapter, mipt x ins

B38-11/4X1	1-1/4" x 1"	25/100	98.11
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Complies to
ANSI/NSF 61

Reducing Male Adapter, ins x red. mipt

B74-1X3/4	1" x 3/4"	25/200	42.15
B74-11/4X1	1-1/4" x 1"	25/100	56.32



Complies to
ANSI/NSF 61

Venturi Adapter, ins x mipt

B86-1X6	1" x 6"	25/100	60.11
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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



☺ Limited Quantities Available



B10, ICB



Coupling, ins x ins

Part Number	Size	Ctn/Case Qty	List Price
B10-1/2	1/2"	25/300	21.05
B10-3/4	3/4"	25/300	30.48
B10-1	1"	20/160	40.73
B10-1 1/4	1-1/4"	20/120	69.49
B10-1 1/2	1-1/2"	10/60	65.44
B10-2	2"	10/40	103.08

Coupling, ins x ins IMPORTED

ICB50	1/2"	50/300	8.08
ICB75	3/4"	50/200	18.24
ICB100	1"	25/100	29.58
ICB125	1 1/4"	20/80	49.47
ICB150	1 1/2"	10/60	60.39
ICB200	2"	10/60	86.45
ICB300	3"	2/10	160.56
ICB400	4"	2/10	180.14

Extra Long Coupling, ins x ins

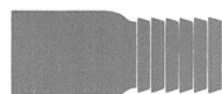
XB10-1	1"	25/100	67.74
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Extra Long Coupling, ins x ins IMPORTED

ICB100XL	1"	10/120	41.80
ICB125XL	1-1/4"	10/80	60.85



XB10, ICB-XL



B90



Female Adapter, fip x ins

B90-3/4	3/4"	25/200	56.95
B90-1	1"	20/160	76.30
B90-1 1/4	1-1/4"	20/120	84.46



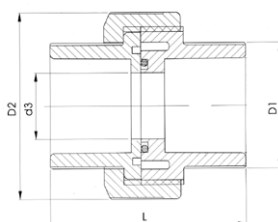
PV79, PV69 Series

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.

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

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 SXS	PV798 TXT	PV799 SXT
SLIP X SLIP	FIPT X FIPT	SLIP X FIPT				
PV797-1/2	PV798-1/2		1/2"	36	\$ 4.06	\$ 4.25
PV797-3/4	PV798-3/4		3/4"	24/144	5.35	5.55
PV797-1	PV798-1		1"	12/96	6.87	7.35
PV797-1 1/4	PV798-1 1/4		1 1/4"	12/96	12.23	12.88
PV797-1 1/2	PV798-1 1/2	PV799-1 1/2	1 1/2"	8/64	15.45	16.07
PV797-2	PV798-2	PV799-2	2"	4/48	21.50	22.61
						22.47
SCHEDULE 80 - GRAY				PV697 SxS	PV698 TXT	
slip x slip	FIPT x FIPT					
PV697-1/2	PV698-1/2		1/2"	36/288	\$ 4.06	\$ 4.28
PV697-3/4	PV698-3/4		3/4"	24/144	5.36	5.66
PV697-1	PV698-1		1"	12/96	6.87	7.49
PV697-1 1/4	PV698-1 1/4		1 1/4"	12/96	12.23	12.71
PV697-1 1/2	PV698-1 1/2		1 1/2"	8/64	15.45	16.38
PV697-2	PV698-2		2"	4/48	21.91	23.03
PV697-3	PV698-3		3"	2/12	44.34	45.85
PV697-4			4"	1/4	98.42	

Replacement O-Ring for PV797, PV798, PV799, PV697, PV698

PV796-1/2	1/2"	1	\$ 0.39
PV796-3/4	3/4"	1	0.39
PV796-1	1"	1	0.47
PV796-1 1/4	1 1/4"	1	0.47
PV796-1 1/2	1 1/2"	1	0.78
PV796-2	2"	1	0.78

Union, PVC Sch 40



1600 Series



SNR Series

Part Number	IPS Size	Ctn Qty	List Price
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SCHEDULE 40 - MADE IN USA

SLIP X SLIP

1600-15	1 1/2" Socket both ends, 2" spigot one end	24	\$ 36.19
1600-20	2" Socket both ends, 2 1/2" spigot one end	20	50.04

Part Number	Description	Ctn Qty	List Price
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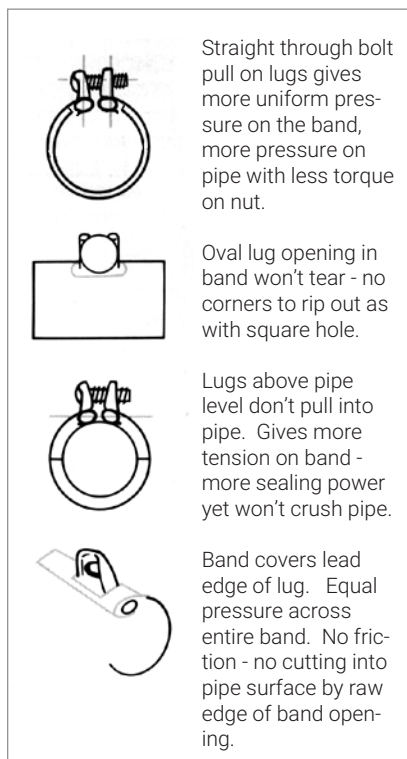
UNION REPAIR SPLIT NUT

SNR150	1 1/2" FBT Repair Split Nut w/ Screw	125	\$ 7.60
SNR200	2" FBT REpair Split Nut w/ Screw	100	8.37



Repair Clamp Features:

- Pipe repair clamps eliminate the need for costly pipe replacement for simple leaks.
- Non-corrosive clamp band is made of annealed stainless steel.
- Nuts and bolts are cadmium plated with a chromate finish; heavy duty hex nut with washer.
- Lugs are made of annealed, malleable iron for maximum strength and permanence; iron phosphate finish.
- Neoprene gasket with maximum rated service temperature of 212° F (100°C).
- Imported



Part Number	Nominal Pipe Size	IPS Pipe O.D.	CTS Tube O.D.	Ctn Qty	List Price
3" Wide, 1 Bolt					
HRC3-3/8	3/8"	.675	.625	6/72	\$ 7.40
HRC3-1/2	1/2"	.840	.875	6/72	9.70
HRC3-3/4	3/4"	1.050	1.125	6/72	9.75
HRC3-1	1"	1.315	1.375	6/72	9.80
HRC3-1 1/4	1 1/4"	1.660	1.625	6/72	9.85
HRC3-1 1/2	1 1/2"	1.900		6/72	10.87
HRC3-2	2"	2.375		6/72	12.61
HRC3-2 1/2	2 1/2"	2.875		6/48	12.95
HRC3-3	3"	3.50		6/48	13.11
HRC3-4	4"	4.50		6/24	14.67

6" Wide, 2 Bolts					
HRC6-1/2	1/2"	.840	.875	6/56	17.15
HRC6-3/4	3/4"	1.050	1.125	6/56	19.09
HRC6-1	1"	1.315	1.375	6/56	20.42
HRC6-1 1/4	1 1/4"	1.660	1.625	6/56	20.81
HRC6-1 1/2	1 1/2"	1.900		6/56	24.25
HRC6-2	2"	2.375		6/56	24.59
HRC6-2 1/2	2 1/2"	2.875		6/24	25.57
HRC6-3	3"	3.50		6/24	26.44
HRC6-4	4"	4.50		6/24	27.90



Coupling, Cap Features:

- Flexible couplings for joining all types of sewer pipe, including transitions from one type to another.
- NO-HUB couplings for joining cast iron pipe sections
- End Caps for capping cast iron, steel, PVC and ABS pipe.
- 300 Series stainless steel clamps
- Meets IAPMO File #0317, BOCA ESI RR#90-68, SBCCI PST&ESI Report #9483B
- CSA Approved



C Series



MR Series



MRTC Series



07 Series

Part Number	Size	Connection	Ctn Qty	List Price
NO HUB COUPLINGS				
C150C	1 1/2 X 1 1/2	CI X CI	100	\$ 18.93
C200C	2 X 2	CI X CI	100	18.93
C300C	3 X 3	CI X CI	100	22.72
C400C	4 X 4	CI X CI	100	26.80

FLEXIBLE COUPLINGS

MR0244	4 X 4	CLAY X CI/PL	18	32.21
MR56125	1 1/2" Tubing, Copper or 1 1/4" PL to Same		24	16.58
MR5615	1 1/2 x 1 1/2	CI/PL X CI/PL	24	17.71
MR5622/125	2 x 1 1/4	CI/PL x CI/PL	24	19.91
MR56215	2 X 1 1/2	CI/PL X CI/PL	24	20.13
MR5622	2 X 2	CI/PL X CI/PL	24	19.05
MR56315	3 x 1 1/2	CI/PL x CI/PL	24	33.51
MR5632	3 X 2	CI/PL X CI/PL	24	23.78
MR5633	3 X 3	CI/PL X CI/PL	18	25.73
MR5642	4 x 2	CI/PL x CI/PL	18	44.89
MR5643	4 X 3	CI/PL X CI/PL	18	34.68
MR5644	4 X 4	CI/PL X CI/PL	24	32.21
MR5655	5 X 5	CI/PL X CI/PL	14	54.48
MR5664	6 x 4	CI/PL x CI/PL	10	85.98
MR5666	6 X 6	CI/PL X CI/PL	12	76.97

DRAIN PIPING TO TUBULAR TRAP *

MRTC150	1 1/4" x 1 1/2"	24	11.22
MRDTC150	1 1/4" or 1 1/2" x 1 1/4" or 1 1/2"	24	13.70
MRDTC215	2" x 1 1/4" or 1 1/2"	24	18.60

* Any combination of 1 1/4" or 1 1/2" tubular drain (plastic, tubular or copper)

END CAPS

0701-011	1 1/2"	24	8.27
0702-019	2"	24	9.67
0703-017	3"	24	12.25
0704-015	4"	24	15.71
0705-020	5"	20	15.35
0706-028	6"	12	15.76

Malleable Iron Fittings - Domestic

Domestic Malleable Iron Fitting Features:

- Class 150 malleable iron pipe fittings
- Suitable for water, steam, air, gas and oil
- All fittings are air pressure tested
- Working pressure:
Max: 300 psi @ -20°F to 150°F.
Min 150 psi @ 366°F
- Made in USA
- **Galvanized: Third party certified to NSF/ANSI 372.**

Malleable Iron Fitting Specifications:

Material: ASTM A197
Dimensions: ANSI/ASME B16.3
ANSI/ASME B1.20.1
Pressure ratings: ANSI/ASME B16.3
Coatings: ASTM A153, A165

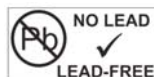


BM90L/GM90L Series



**BM90L/GM90L
Reducer Series**

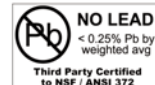
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Size	Ctn Qty	List Price
90° ELBOW fipxtxfipt		
BM90L1/8	35/210	\$ 13.47
BM90L1/4	30/180	13.15
BM90L3/8	30/180	13.15
BM90L1/2	50/200	9.12
BM90L3/4	35/140	10.99
BM90L1	20/80	19.11
BM90L11/4	20/40	31.51
BM90L11/2	8/32	41.43
BM90L2	8/16	71.45
BM90L21/2	12	159.16
BM90L3	5	232.93
BM90L4	4	500.30

90° ELBOW REDUCER fipxtxfipt		
BM90L3/8 x 1/4	25/150	18.51
BM90L1/2 x 1/4	30/180	17.86
BM90L1/2 x 3/8	50/200	17.35
BM90L3/4 x 3/8	30/180	25.05
BM90L3/4 x 1/2	30/120	17.86
BM90L1 x 1/2	25/100	24.77
BM90L1 x 3/4	20/80	22.97
BM90L11/4 x 3/4	15/60	43.02
BM90L11/4 x 1	10/40	38.58
BM90L11/2 x 1/2	12/48	59.89
BM90L11/2 x 3/4	12/48	62.27
BM90L11/2 x 1	10/40	54.43
BM90L11/2 x 11/4	15/30	54.43
BM90L2 x 1/2	10/40	75.27
BM90L2 x 3/4	15/30	95.00
BM90L2 x 1	12/24	89.59
BM90L2 x 11/4	10/20	89.59
BM90L2 x 11/2	10/20	78.83
BM90L21/2 x 11/2	12	229.11

GALVANIZED



Size	Ctn Qty	List Price
90° ELBOW fipxtxfipt		
GM90L1/8	35/210	\$ 20.88
GM90L1/4	30/180	19.07
GM90L3/8	30/180	19.07
GM90L1/2	50/200	12.27
GM90L3/4	35/140	15.05
GM90L1	20/80	27.88
GM90L11/4	20/40	44.09
GM90L11/2	8/32	57.57
GM90L2	8/16	94.27
GM90L21/2	12	246.68
GM90L3	5	406.73
GM90L4	4	717.32

90° ELBOW REDUCER fipxtxfipt		
GM90L3/8 x 1/4	25/150	30.46
GM90L1/2 x 1/4	30/180	26.51
GM90L1/2 x 3/8	50/200	22.55
GM90L3/4 x 3/8	30/180	36.11
GM90L3/4 x 1/2	30/120	26.20
GM90L1 x 1/2	25/100	35.66
GM90L1 x 3/4	20/80	33.61
GM90L11/4 x 3/4	15/60	67.74
GM90L11/4 x 1	10/40	56.38
GM90L11/2 x 1/2	12/48	77.85
GM90L11/2 x 3/4	12/48	90.11
GM90L11/2 x 1	10/40	90.11
GM90L11/2 x 11/4	15/30	90.11
GM90L2 x 1/2	10/40	100.76
GM90L2 x 3/4	15/30	127.73
GM90L2 x 1	12/24	125.21
GM90L2 x 11/4	10/20	120.67
GM90L2 x 11/2	10/20	105.25
GM90L21/2 x 11/2	12	397.53
GM90L3 x 2	8	563.25

Case quantities required please for fittings through 2"

Malleable Iron Fittings - Domestic

BLACK



Size Ctn Qty List Price

45° ELBOW fiptxfipt

BM45L1/4	35/210	\$ 19.82
BM45L3/8	40/240	19.82
BM45L1/2	50/200	15.03
BM45L3/4	40/160	18.60
BM45L1	25/100	23.42
BM45L11/4	10/40	41.45
BM45L11/2	10/40	51.29
BM45L2	8/16	77.60
BM45L21/2	15	224.48
BM45L3	8	291.53
BM45L4	4	571.66



**BM45L/GM45L
Series**

90° STREET ELBOW fiptxmpt

BM90SL1/8	40/240	19.42
BM90SL1/4	30/180	19.42
BM90SL3/8	30/180	19.42
BM90SL1/2	50/200	18.85
BM90SL3/4	35/140	18.85
BM90SL1	20/80	26.68
BM90SL11/4	15/30	41.45
BM90SL11/2	12/24	55.49
BM90SL11/2 x 11/4	16/32	100.76
BM90SL2	8/16	90.15
BM90SL21/2	8	228.53
BM90SL3	8	348.84



**BM90SL/GM90SL
Series**

45° STREET ELBOW fiptxmpt

BM45SL1/8	30/180	30.58
BM45SL3/8	30/180	25.75
BM45SL1/2	50/200	21.02
BM45SL3/4	40/160	31.76
BM45SL1	25/100	36.99
BM45SL11/4	25/50	63.96
BM45SL11/2	15/30	82.48
BM45SL2	10/20	138.74



**BM45SL/GM45SL
Series**

TEE fiptxfiptxfipt

BMT1/8	35/210	20.30
BMT1/4	35/210	19.11
BMT3/8	30/180	19.11
BMT1/2	30/120	12.20
BMT3/4	20/80	17.50
BMT1	12/48	29.93
BMT11/4	15/30	48.49
BMT11/2	10/20	60.32
BMT2	15	102.78
BMT21/2	8	221.63
BMT3	6	326.49
BMT4	3	789.08



BMT/GMT Series

GALVANIZED



Size Ctn Qty List Price

45° ELBOW fiptxfipt

GM45L1/4	35/210	\$ 25.98
GM45L3/8	40/240	29.02
GM45L1/2	50/200	19.41
GM45L3/4	40/160	27.88
GM45L1	25/100	31.51
GM45L11/4	10/40	58.86
GM45L11/2	10/40	69.15
GM45L2	8/16	102.30
GM45L21/2	15	355.93
GM45L3	8	517.64
GM45L4	4	867.83

90° STREET ELBOW fiptxmpt

GM90SL1/8	40/240	27.24
GM90SL1/4	30/180	26.38
GM90SL3/8	30/180	26.38
GM90SL1/2	50/200	26.95
GM90SL3/4	35/140	26.95
GM90SL1	20/80	36.05
GM90SL11/4	15/30	60.53
GM90SL11/2	12/24	75.99
GM90SL11/2 x 11/4	16/32	123.67
GM90SL2	8/16	128.13
GM90SL21/2	8	370.64
GM90SL3	8	539.40

45° STREET ELBOW fiptxmpt

GM45SL1/8	30/180	39.70
GM45SL3/8	30/180	39.11
GM45SL1/2	50/200	29.65
GM45SL3/4	40/160	47.04
GM45SL1	25/100	60.30
GM45SL11/4	25/50	90.45
GM45SL11/2	15/30	109.55
GM45SL2	10/20	180.41

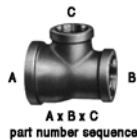
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GMT1/8	35/210	29.52
GMT1/4	35/210	24.84
GMT3/8	30/180	24.84
GMT1/2	30/120	15.90
GMT3/4	20/80	26.20
GMT1	12/48	42.34
GMT11/4	15/30	67.24
GMT11/2	10/20	83.58
GMT2	15	135.82
GMT21/2	8	382.36
GMT3	6	468.55
GMT4	3	1060.72

Malleable Iron Fittings - Domestic

BLACK


**BMT/GMT
Reducer Series**



Size	Ctn Qty	List Price
TEE Reducing fipxfipxfipt		
BMT1/2 x 1/2 x 1/4	25/100	\$ 20.73
BMT1/2 x 1/2 x 3/4	30/120	31.24
BMT3/4 x 1/2 x 1/2	30/120	27.78
BMT3/4 x 3/4 x 1/4	30/120	30.08
BMT3/4 x 3/4 x 3/8	30/120	33.22
BMT3/4 x 3/4 x 1/2	25/100	27.07
BMT3/4 x 1/2 x 3/4	20/80	31.24
BMT3/4 x 3/4 x 1	15/60	41.20
BMT1 x 1/2 x 1/2	20/80	38.88
BMT1 x 1/2 x 3/4	20/80	46.37
BMT1 x 1/2 x 1	15/60	38.88
BMT1 x 3/4 x 1/2	20/40	39.09
BMT1 x 3/4 x 3/4	20/40	36.11
BMT1 x 3/4 x 1	20/40	39.64
BMT1 x 1 x 1/4	20/80	43.23
BMT1 x 1 x 1/2	15/60	34.13
BMT1 x 1 x 3/4	25/50	34.13
BMT1 x 1 x 11/4	15/30	75.58
BMT11/4 x 1/2 x 11/4	10/40	72.47
BMT11/4 x 3/4 x 3/4	10/40	72.47
BMT11/4 x 3/4 x 1	10/40	67.10
BMT11/4 x 3/4 x 11/4	15/30	65.67
BMT11/4 x 1 x 1	15/30	63.70
BMT11/4 x 11/4 x 1/2	15/30	62.24
BMT11/4 x 11/4 x 3/4	12/24	54.55
BMT11/4 x 11/4 x 1	14/28	59.12
BMT11/4 x 1 x 11/4	15/30	76.49
BMT11/2 x 1/2 x 11/2	10/20	86.60
BMT11/2 x 3/4 x 3/4	10/40	145.13
BMT11/2 x 3/4 x 11/2	10/20	86.60
BMT11/2 x 1 x 11/2	10/20	86.60
BMT11/2 x 11/4 x 3/4	10/20	86.60
BMT11/2 x 11/4 x 1	8/16	74.35
BMT11/2 x 11/4 x 11/4	10/20	116.15
BMT11/2 x 11/4 x 11/2	10/20	130.55
BMT11/2 x 11/2 x 1/2	8/32	72.90
BMT11/2 x 11/2 x 3/4	10/20	68.87
BMT11/2 x 11/2 x 1	10/20	68.87
BMT11/2 x 11/2 x 11/4	8/40	85.15
BMT2 x 1/2 x 2	8/16	134.99
BMT2 x 3/4 x 2	8/16	132.65
BMT2 x 1 x 2	8/16	134.99
BMT2 x 2 x 1/2	10/20	109.95
BMT2 x 2 x 3/4	10/20	107.91
BMT2 x 2 x 1	10/20	107.91
BMT2 x 2 x 11/4	8/16	116.15
BMT2 x 2 x 11/2	8/16	116.15
BMT2 x 11/4 x 11/4	8/16	134.99
BMT2 x 11/2 x 11/4	8/16	135.25
BMT2 x 11/2 x 11/2	8/16	138.64
BMT21/2 x 21/2 x 2	12	288.36

GALVANIZED


Size	Ctn Qty	List Price
TEE Reducing fipxfipxfipt		
GMT1/2 x 1/2 x 3/8	35/140	\$ 36.95
GMT3/4 x 1/2 x 1/2	30/120	43.53
GMT3/4 x 3/4 x 1/4	30/120	38.90
GMT3/4 x 3/4 x 1/2	25/100	36.42
GMT3/4 x 1/2 x 3/4	20/80	41.59
GMT3/4 x 3/4 x 1	15/60	62.68
GMT1 x 1/4 x 1	15/80	66.21
GMT1 x 1/2 x 1/2	20/80	63.89
GMT1 x 1/2 x 1	15/60	63.89
GMT1 x 3/4 x 1/2	20/40	63.89
GMT1 x 3/4 x 3/4	20/40	61.63
GMT1 x 3/4 x 1	20/40	63.89
GMT1 x 1 x 1/2	15/60	51.14
GMT1 x 1 x 3/4	25/50	51.14
GMT1 x 1 x 11/4	15/30	103.38
GMT11/4 x 1/2 x 11/4	10/40	100.54
GMT11/4 x 3/4 x 3/4	10/40	109.39
GMT11/4 x 3/4 x 1	10/40	103.99
GMT11/4 x 3/4 x 11/4	15/30	94.29
GMT11/4 x 1 x 1	15/30	96.24
GMT11/4 x 11/4 x 1/2	15/30	83.85
GMT11/4 x 11/4 x 3/4	12/24	79.34
GMT11/4 x 11/4 x 1	14/28	79.34
GMT11/4 x 1 x 11/4	15/30	101.80
GMT11/2 x 1/2 x 11/2	10/20	138.26
GMT11/2 x 3/4 x 3/4	10/40	184.02
GMT11/2 x 3/4 x 11/2	10/20	126.08
GMT11/2 x 1 x 11/2	10/20	126.08
GMT11/2 x 11/4 x 3/4	10/20	126.08
GMT11/2 x 11/4 x 1	8/16	119.11
GMT11/2 x 11/4 x 11/4	10/20	174.76
GMT11/2 x 11/4 x 11/2	10/20	174.76
GMT11/2 x 11/2 x 1/2	8/32	103.59
GMT11/2 x 11/2 x 3/4	10/20	98.00
GMT11/2 x 11/2 x 1	10/20	98.00
GMT11/2 x 11/2 x 11/4	8/40	122.71
GMT2 x 1/2 x 2	8/16	178.22
GMT2 x 3/4 x 2	8/16	174.80
GMT2 x 1 x 2	8/16	178.22
GMT2 x 2 x 1/2	10/20	159.45
GMT2 x 2 x 3/4	10/20	143.07
GMT2 x 2 x 1	10/20	140.39
GMT2 x 2 x 11/4	8/16	168.45
GMT2 x 2 x 11/2	8/16	168.45
GMT2 x 11/4 x 11/4	8/16	178.22
GMT2 x 11/2 x 11/4	8/16	178.22
GMT21/2 x 21/2 x 2	12	473.61

Malleable Iron Fittings - Domestic

BLACK

GALVANIZED


**BMT/GMT
Reducer Series**



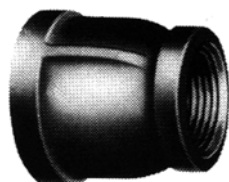
BMST/GSMT Series



BMCR/GMCR Series



**BMRHC/GMRHC
Series**



**BMRHC/GMRHC
Reducer Series**

☺ Steel

Size Ctn Qty List Price

TEE Reducing, Cont. fipxtxfipxt

BMT3 x 3 x 3/4	8	\$ 392.62
BMT3 x 3 x 1	8	386.96
BMT3 x 3 x 1 1/4	8	407.70
BMT3 x 3 x 1 1/2	8	400.37
BMT3 x 3 x 2	8	385.11
BMT3 x 3 x 2 1/2	8	457.47

STREET TEE fipxtxmipxtfipxt

BMST3/4	20/80	44.54
BMST1	12/24	58.90
BMST1 1/4	10/20	99.28

CROSS fipxt

BMCR1/2	30/120	46.07
BMCR3/4	15/60	55.75
BMCR1	15/30	68.71
BMCR1 1/4	12/24	111.50
BMCR1 1/2	8/16	138.18
BMCR2	8	227.20

Right Hand Coupling fipxtxfipxt

BMRHC1/4	35/210	16.34
BMRHC3/8	40/240	16.34
BMRHC1/2	40/240	12.61
BMRHC3/4	40/160	14.74
BMRHC1	25/100	22.12
BMRHC1 1/4	15/60	28.62
BMRHC1 1/2	10/40	38.71
BMRHC2	8/32	57.30
BMRHC2 1/2	8	158.16
BMRHC3	8	213.82
BMRHC4	4	430.61

REDUCING COUPLING fipxtxfipxt

BMRC1/4 x 1/8 ☺	25/150	17.24
BMRC3/8 x 1/4	25/150	17.24
BMRC1/2 x 1/4	25/150	15.64
BMRC1/2 x 3/8	30/180	14.80
BMRC3/4 x 1/4	35/210	19.74
BMRC3/4 x 3/8	35/210	19.74
BMRC3/4 x 1/2	50/200	16.54
BMRC1 x 3/8	30/120	32.48
BMRC1 x 1/2	30/120	26.38
BMRC1 x 3/4	25/100	25.75
BMRC1 1/4 x 1/2	15/60	38.88
BMRC1 1/4 x 3/4	15/60	33.15
BMRC1 1/4 x 1	15/60	33.15

Size Ctn Qty List Price

TEE Reducing, Cont. fipxtxfipxtfipxt

GMT3 x 3 x 3/4	8	\$ 864.61
GMT3 x 3 x 1	8	619.72
GMT3 x 3 x 1 1/4	8	655.42
GMT3 x 3 x 1 1/2	8	642.91
GMT3 x 3 x 2	8	619.72
GMT3 x 3 x 2 1/2	8	721.83

STREET TEE fipxtxmipxtfipxt

GMST3/4	20/80	57.01
GMST1	12/24	90.13
GMST1 1/4	10/20	150.33

CROSS fipxt

GMCR1/2	30/120	65.39
GMCR3/4	15/60	79.68
GMCR1	15/30	109.93
GMCR1 1/4	12/24	165.30
GMCR1 1/2	8/16	193.38
GMCR2	8	366.27

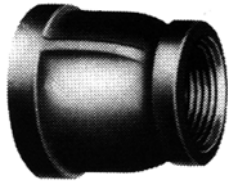
Right Hand Coupling fipxtxfipxt

GMRHC1/4	35/210	22.75
GMRHC3/8	40/240	23.54
GMRHC1/2	40/240	17.96
GMRHC3/4	40/160	20.68
GMRHC1	25/100	33.93
GMRHC1 1/4	15/60	47.87
GMRHC1 1/2	10/40	54.39
GMRHC2	8/32	79.51
GMRHC2 1/2	8	243.38
GMRHC3	8	325.30
GMRHC4	4	690.92

REDUCING COUPLING fipxtxfipxt

GMRC1/4 x 1/8 ☺	25/150	23.30
GMRC3/8 x 1/4	25/150	23.30
GMRC1/2 x 1/4	25/150	20.96
GMRC1/2 x 3/8	30/180	21.79
GMRC3/4 x 1/4	35/210	26.48
GMRC3/4 x 3/8	35/210	26.48
GMRC3/4 x 1/2	50/200	23.29
GMRC1 x 3/8	30/120	50.47
GMRC1 x 1/2	30/120	38.83
GMRC1 x 3/4	25/100	36.05
GMRC1 1/4 x 1/2	15/60	64.46
GMRC1 1/4 x 3/4	15/60	50.22
GMRC1 1/4 x 1	15/60	49.26

Malleable Iron Fittings - Domestic

BLACK


BMRHC/GMRHC
Reducer Series

Size	Ctn Qty	List Price
REDUCING COUPLING - con't fipxtfip		
BMRC11/2 x 1/2	15/60	\$ 49.46
BMRC11/2 x 3/4	10/40	55.75
BMRC11/2 x 1	10/40	48.61
BMRC11/2 x 1 1/4	10/40	41.91
BMRC2 x 1/2	8/32	80.53
BMRC2 x 3/4	8/32	69.53
BMRC2 x 1	15/30	65.72
BMRC2 x 1 1/4	10/20	69.53
BMRC2 x 1 1/2	10/20	60.73
BMRC2 1/2 x 1 1/2	10	165.62
BMRC2 1/2 x 2	10	139.60
BMRC3 x 1	8	222.23
BMRC3 x 1 1/4	8	226.35
BMRC3 x 1 1/2	8	218.20
BMRC3 x 2	8	180.68
BMRC3 x 2 1/2	8	210.99
BMRC4 x 2	4	437.37
BMRC4 x 3	4	437.37

GALVANIZED


Size	Ctn Qty	List Price
REDUCING COUPLING - con't fipxtfip		
GMRC11/2 x 1/2	15/60	\$ 75.99
GMRC11/2 x 3/4	10/40	64.74
GMRC11/2 x 1	10/40	64.75
GMRC11/2 x 1 1/4	10/40	61.14
GMRC2 x 1/2	8/32	109.71
GMRC2 x 3/4	8/32	105.78
GMRC2 x 1	15/30	88.34
GMRC2 x 1 1/4	10/20	93.40
GMRC2 x 1 1/2	10/20	88.34
GMRC2 1/2 x 1 1/2	10	260.58
GMRC2 1/2 x 2	10	246.47
GMRC3 x 1	8	346.24
GMRC3 x 1 1/4	8	346.24
GMRC3 x 1 1/2	8	327.53
GMRC3 x 2	8	309.58
GMRC3 x 2 1/2	8	316.12
GMRC4 x 2	4	708.70
GMRC4 x 3	4	708.70



BMHB/GMHB Series

HEX BUSHING miptxfip		
BMHB1/4 x 1/8 ☺	25/150	11.95
BMHB3/8 x 1/8 ☺	25/150	11.95
BMHB3/8 x 1/4 ☺	25/150	11.95
BMHB1/2 x 1/8 ☺	25/150	11.95
BMHB1/2 x 1/4 ☺	25/150	11.95
BMHB1/2 x 3/8 ☺	25/150	11.95
BMHB3/4 x 1/8	25/150	16.89
BMHB3/4 x 1/4	25/150	16.01
BMHB3/4 x 3/8	25/150	16.47
BMHB3/4 x 1/2	25/150	14.80
BMHB1 x 1/8	25/150	24.03
BMHB1 x 1/4	25/150	20.73
BMHB1 x 3/8	25/150	21.30
BMHB1 x 1/2	25/150	15.76
BMHB1 x 3/4	25/150	15.57
BMHB1 1/4 x 1/8	25/150	28.91
BMHB1 1/4 x 1/4	25/150	29.82
BMHB1 1/4 x 1/2	25/150	23.08
BMHB1 1/4 x 3/4	25/150	20.30
BMHB1 1/4 x 1	25/150	20.30
BMHB1 1/2 x 1/4	15/150	34.75
BMHB1 1/2 x 1/2	30/120	26.41
BMHB1 1/2 x 3/4	30/120	26.41
BMHB1 1/2 x 1	30/120	23.17
BMHB1 1/2 x 1 1/4	30/120	25.75
BMHB2 x 1/4	20/80	37.61
BMHB2 x 1/2	20/80	41.93
BMHB2 x 3/4	20/80	33.17
BMHB2 x 1	20/80	31.70
BMHB2 x 1 1/4	20/80	31.70
BMHB2 x 1 1/2	20/80	32.47

HEX BUSHING miptxfip		
GMHB1/4 x 1/8 ☺	25/150	19.06
GMHB3/8 x 1/8 ☺	25/150	19.06
GMHB3/8 x 1/4 ☺	25/150	19.06
GMHB1/2 x 1/8 ☺	25/150	19.06
GMHB1/2 x 1/4 ☺	25/150	19.06
GMHB1/2 x 3/8 ☺	25/150	19.06
GMHB3/4 x 1/8	25/150	29.65
GMHB3/4 x 1/4	25/150	28.85
GMHB3/4 x 3/8	25/150	32.24
GMHB3/4 x 1/2	25/150	24.70
GMHB1 x 1/8	25/150	39.66
GMHB1 x 1/4	25/150	33.71
GMHB1 x 3/8	25/150	33.86
GMHB1 x 1/2	25/150	30.46
GMHB1 x 3/4	25/150	28.37
GMHB1 1/4 x 1/8	25/150	49.60
GMHB1 1/4 x 1/4	25/150	50.80
GMHB1 1/4 x 3/8	25/150	50.80
GMHB1 1/4 x 1/2	25/150	43.30
GMHB1 1/4 x 3/4	25/150	38.21
GMHB1 1/4 x 1	25/150	38.21
GMHB1 1/2 x 1/4	15/120	68.46
GMHB1 1/2 x 1/2	30/120	53.21
GMHB1 1/2 x 3/4	30/120	53.21
GMHB1 1/2 x 1	30/120	48.10
GMHB1 1/2 x 1 1/4	30/120	46.07
GMHB2 x 1/4	20/80	77.57
GMHB2 x 1/2	20/80	66.70
GMHB2 x 3/4	20/80	62.01
GMHB2 x 1	20/80	62.01
GMHB2 x 1 1/4	20/80	62.01
GMHB2 x 1 1/2	20/80	53.47

☺ Steel

Malleable Iron Fittings - Domestic

BLACK



BMHB/GMHB Series

Size Ctn Qty List Price

HEX BUSHING CONT. miptxfipt

BMHB21/2 x 3/4	20	\$ 58.32
BMHB21/2 x 1	20	58.32
BMHB21/2 x 11/4	20	58.32
BMHB21/2 x 11/2	20	50.77
BMHB21/2 x 2	20	50.00
BMHB3 x 1/2	10/20	91.74
BMHB3 x 3/4	10/20	85.70
BMHB3 x 1	10/20	78.87
BMHB3 x 11/4	10/20	78.87
BMHB3 x 11/2	10/20	78.87
BMHB3 x 2	10/20	58.90
BMHB3 x 21/2	10	68.28
BMHB4 x 1	10	178.74
BMHB4 x 11/4	10	179.25
BMHB4 x 11/2	10	164.59
BMHB4 x 2	10	132.85
BMHB4 x 21/2	10	160.75
BMHB4 x 3	10	132.85

FLUSH BUSHING

BMFB1 x 3/4	25/150	41.03
BMFB11/4 x 1	25/150	44.41

DOUBLE TAP BUSHING

BMDTB2X11/4	20	65.55
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CAP fipt

BMCA1/4 ☺	40	8.47
BMCA3/8 ☺	40	7.12
BMCA1/2	50/300	9.20
BMCA3/4	40/240	12.48
BMCA1	25/150	15.11
BMCA11/4	25/100	19.90
BMCA11/2	20/80	27.34
BMCA2	10/40	39.88
BMCA21/2	6/12	90.85
BMCA3	6/12	134.99
BMCA4	5/10	231.48

☺ Steel

GALVANIZED



Size Ctn Qty List Price

HEX BUSHING CONT. miptxfipt

GMHB21/2 x 3/4	20	\$ 112.91
GMHB21/2 x 1	20	112.91
GMHB21/2 x 11/4	20	112.91
GMHB21/2 x 11/2	20	101.63
GMHB21/2 x 2	20	88.98
GMHB3x1/2	10/20	155.63
GMHB3 x 3/4	10/20	148.96
GMHB3 x 1	10/20	148.96
GMHB3 x 11/4	10/20	145.49
GMHB3 x 11/2	10/20	134.05
GMHB3 x 2	10/20	115.83
GMHB3 x 21/2	10	124.33
GMHB4 x 1	10	312.14
GMHB4 x 11/4	10	312.14
GMHB4 x 11/2	10	312.14
GMHB4 x 2	10	243.18
GMHB4 x 21/2	10	312.14
GMHB4 x 3	10	243.18

FLUSH BUSHING

GMFB1 x 3/4	25/150	69.20
GMFB11/4 x 1	25/150	85.66

DOUBLE TAP BUSHING

GMDTB2X1X1	20	109.26
GMDTB2X11/4X11/4	20	109.26

CAP fipt

GMCA1/4 ☺	40	11.51
GMCA3/8 ☺	40	11.51
GMCA1/2	50/300	13.60
GMCA3/4	40/240	18.82
GMCA1	25/150	23.30
GMCA11/4	25/100	30.70
GMCA11/2	20/80	39.35
GMCA2	10/40	55.11
GMCA21/2	6/12	160.05
GMCA3	6/12	193.95
GMCA4	5/10	428.52



BMCA/GMCA Series

Malleable Iron Fittings - Domestic

BLACK



BMLN/GMLN Series

Size	Ctn Qty	List Price
LOCK NUT		
BMLN1/8 ☺	100/600	\$ 7.59
BMLN1/4 ☺	100/600	6.98
BMLN3/8	50/300	15.20
BMLN1/2	50/300	13.15
BMLN3/4	50/300	14.28
BMLN1	40/160	27.23
BMLN11/4	40/160	22.68
BMLN11/2	40/160	31.43
BMLN2	25/100	52.17

Square Head Plug mipt

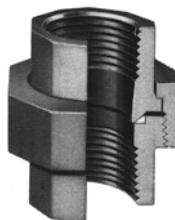
BMP1/8 ☺	100	\$ 1.02
BMP1/4 ☺	100	1.05
BMP3/8 ☺	100	1.36
BMP1/2 ☺	100	1.40
BMP3/4 ☺	100	1.47
BMP1	40/240	8.49
BMP11/4	40/160	13.55
BMP11/2	40/80	19.18
BMP2	25/50	22.42
BMP21/2	20/40	54.59
BMP3	10/20	63.23
BMP4 (BAR HEAD)	5/10	130.25
BMP5 (BAR HEAD)	5/5	244.85



BMP/GMP Series

Unions, 150 lbs UL Listed

BMU150-1/8	25/150	73.71
BMU150-1/4	35/210	68.23
BMU150-3/8	35/210	46.98
BMU150-1/2	40/160	42.59
BMU150-3/4	30/60	48.92
BMU150-1	25/50	63.77
BMU150-11/4	15/30	91.46
BMU150-11/2	12/24	114.02
BMU150-2	8/16	132.58
BMU150-21/2	8	395.04
BMU150-3	8	475.53
BMU150-4	1	1173.78



BMU/GMU Series

FLOOR FLANGE (diameter)

BMFF1/4	2 3/8"	25/150	42.50
BMFF3/8	2 15/16"	25/150	42.50
BMFF1/2	3"	30/120	42.50
BMFF3/4	3 1/4"	30/120	42.50
BMFF1	3 7/8"	30/60	53.42
BMFF11/4	3 7/8"	30/60	53.42
BMFF11/2	4 1/2"	10/40	68.71
BMFF2	5 1/2"	15/30	82.65
BMFF21/2	5 13/16"	10	90.70
BMFF3	6 3/8"	10	114.50



BMFF/GMFF Series

☺ Steel

GALVANIZED



Size	Ctn Qty	List Price
LOCK NUT		
GMLN1/8 ☺	100/600	\$ 12.51
GMLN1/4 ☺	100/600	10.14
GMLN3/8	50/300	19.23
GMLN1/2	50/300	15.40
GMLN3/4	50/300	18.05
GMLN1	40/160	32.83
GMLN11/4	40/160	31.51
GMLN11/2	40/160	40.89
GMLN2	25/100	72.01

Square Head Plug mipt

GMP1/8 ☺	100	\$ 1.10
GMP1/4 ☺	100	1.22
GMP3/8 ☺	100	1.81
GMP1/2 ☺	100	1.89
GMP3/4 ☺	100	2.06
GMP1	40/240	18.23
GMP11/4	40/160	30.38
GMP11/2	40/80	41.01
GMP2	40/50	50.93
GMP21/2	20/40	107.63
GMP3	10/20	137.83
GMP4 (BAR HEAD)	5/10	267.29
GMP5 (BAR HEAD)	5/5	531.43

Unions, 150 lbs UL Listed 8

GMU150-1/8	25/150	105.10
GMU150-1/4	35/210	92.54
GMU150-3/8	35/210	61.93
GMU150-1/2	40/160	56.48
GMU150-3/4	30/60	64.92
GMU150-1	25/50	85.05
GMU150-11/4	15/30	122.95
GMU150-11/2	12/24	148.96
GMU150-2	8/16	171.24
GMU150-21/2	8	594.84
GMU150-3	8	832.50
GMU150-4	1	1686.68

FLOOR FLANGE (diameter)

GMFF1/4	2 3/8"	25/150	82.71
GMFF3/8	2 15/16"	25/150	82.71
GMFF1/2	3"	30/120	106.23
GMFF3/4	3 1/4"	30/120	106.23
GMFF1	3 7/8"	30/60	96.97
GMFF11/4	3 7/8"	30/60	128.87
GMFF11/2	4 1/2"	10/40	165.10
GMFF2	5 1/2"	15/30	209.67
GMFF21/2	5 13/16"	10	254.90
GMFF3	6 3/8"	10	248.79

