

## **Scope of Work and Request for Quotes** **Liberty State Park**

**Work:** The replacement and repair of damaged irrigation system infrastructure for the Empty Sky 911 Memorial. (Job # 39990490) Damage occurred due to 5 feet of flooding caused by Superstorm Sandy. Attached are plans for reference. Photos of existing conditions also attached for reference.

**Location:** Empty Sky 911 Memorial at Liberty State Park, 1 Audrey Zapp Drive, Jersey City, NJ 07305. (Eastern terminus of Audrey Zapp Drive (cobble stone road), adjacent to the historic CRRNJ Terminal building.) Specific work area will be identified during a scheduled pre-bid meeting with park staff.

**Requirements:** Contractor will have to submit State of New Jersey vendor paperwork as well as be properly licensed and insured. Vendor paperwork attached. Contractor cannot be on the federal debarment list. Contractor must adhere to all applicable federal, State, and municipal laws, rules, regulations, and written policies.

### **Project Scope:**

Task 1: Repair/replace in-kind all damaged components of the irrigation system infrastructure; provide detailed quote for parts and labor for items described below:

- Control box (including any electrical; must follow UCC)
- Backflow preventer, including connecting piping and valves
- Wire connectors
- Booster pump including connecting piping and valves
- Ground valves

Task 2: Repair/replace in-kind all damaged sprinkler heads and below-ground lines

It is also required of the contractor to provide the following:

- Upon completion of work indicated in Tasks 1 and 2, inspect and demonstrate all components and operations with park representative
- Manufacturer product and maintenance manuals
- A one-year warranty on all parts and labor

**Duration:** All work to be completed by September 9, 2016

**Pre-Bid Meeting:** Thursday, August 11, 2016 at 10 AM at the location

An itemized quote must be submitted on the attached (PB-120) form. Task 1 should be bid as a lump sum and Task 2 in time and materials format. The total project cost cannot exceed \$40,000. Completed quote sheets should be emailed to [LSPrepair@gmail.com](mailto:LSPrepair@gmail.com) and/or faxed to 201-915-3408 by 5PM on Thursday, August 18, 2016.

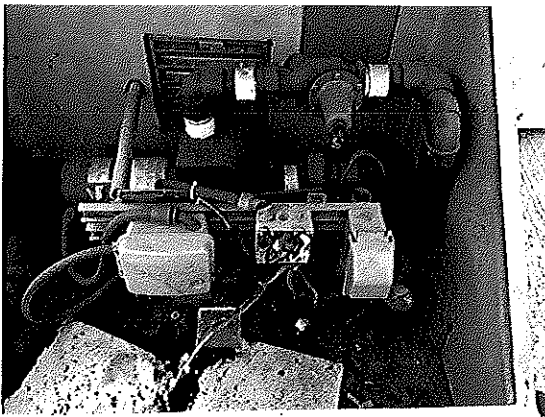
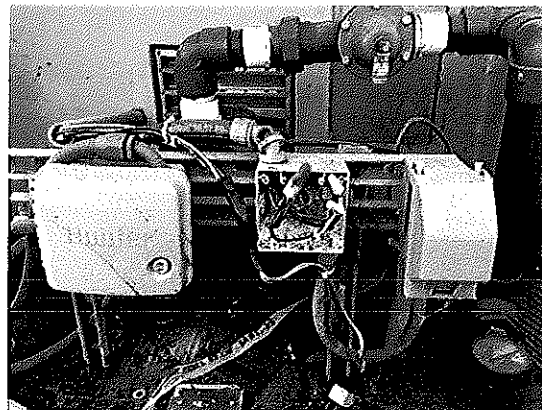
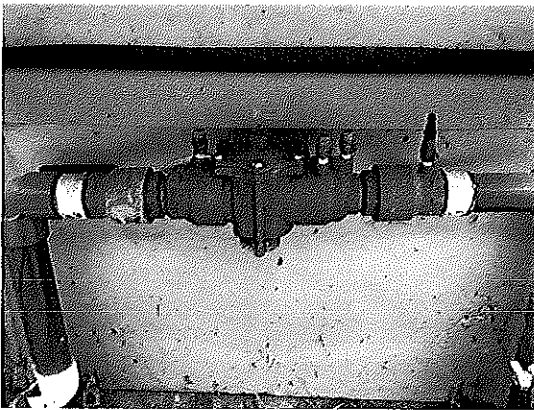
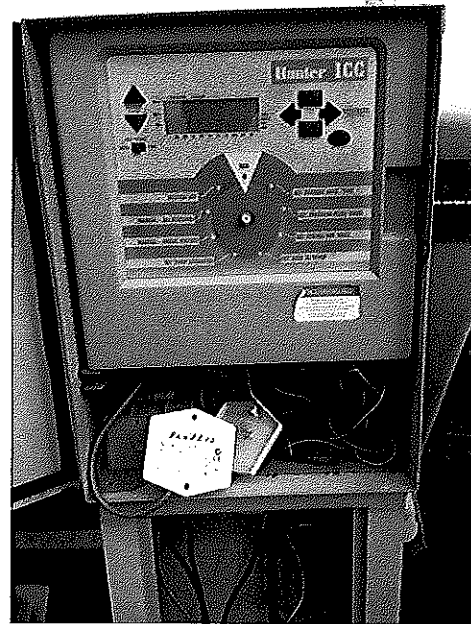
Any questions please contact: Greg Wentzel, Project Manager, Liberty State Park, 609-462-0218, [LSPrepair@gmail.com](mailto:LSPrepair@gmail.com).

STATE OF NEW JERSEY  
DEPARTMENT OF THE TREASURY  
**AGENCY REQUEST FOR PROPOSAL**

VENDOR NAME AND ADDRESS:		RETURN THIS PROPOSAL TO:		DELIVER TO:	
SBE CATEGORY:		FAX NO:			
NOTE: This proposal must be received by the opening date/time: at the place named above.		AGENCY PERSON TO CONTACT:			
FISCAL YEAR	ACCOUNT NUMBER	AGENCY REFERENCE NO.		COMMODITY CODE NO:	
ITEM NO.	QUANTITY	UNIT	DESCRIPTION <small>(ALL ITEMS MUST BE DELIVERED F.O.B. DESTINATION)</small>	UNIT PRICE	AMOUNT
PRICES ARE FIRM UNTIL THE FOLLOWING DATE:				TOTAL	
CASH DISCOUNT	DATE OF DELIVERY	VENDOR'S FEDERAL I.D. NUMBER		VENDOR'S TELEPHONE NO.	
VENDOR'S SIGNATURE (Must be Signed):	PRINT OR TYPE NAME BELOW:		DATE:		

9/11 Memorial Irrigation System  
Liberty State Park, 1 Audrey Zapp Drive, Jersey City, NJ 07305

Photos of Existing Conditions as of 7/15/2016



# CONTRACT PLANS



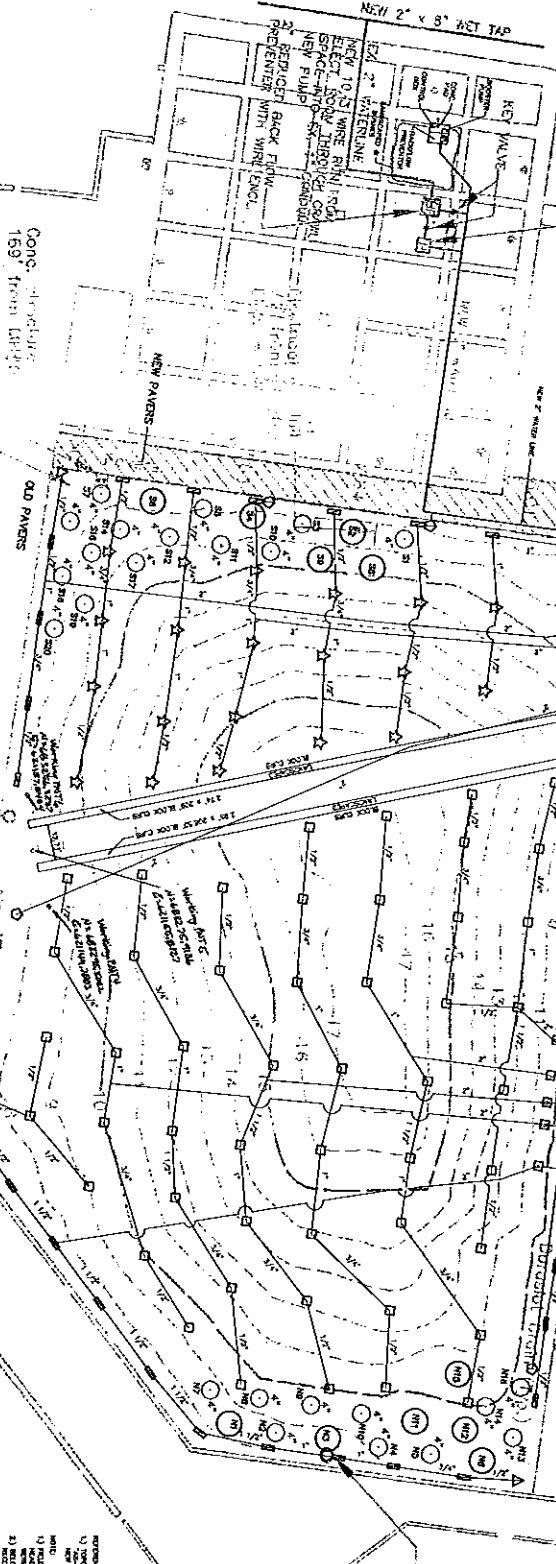
Sheet 1 of 10  
 Date: 10/1/00  
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 Checked by: J. J. [illegible]

Concrete structure  
 23' long x 4' deep  
 Proposed to be 5W/

BOOSTER PUMP MODEL 1000-10  
 BY STA-RITE 2.5 HP  
 115/230 V. 600-720-1816

M.H. #3  
 Rim = 6.30  
 Inv. in (N) = 5.20  
 Inv. in (S) = 5.24  
 Inv. out = 4.24

M.H. #1  
 Rim = 8.00  
 Inv. in (N) = 5.20  
 Inv. in (SW) = 2.79  
 Inv. in (SE) = 3.00  
 Inv. in (E) = 4.50  
 Inv. out = 2.79



Sheeting  
 175' from 10/1/00

GRAPHIC SCALE  
 1 inch = 20 feet



M.H. #10  
 Rim = 6.00  
 Inv. in (N) = 4.05  
 Inv. out = 4.20

M.H. #7  
 Rim = 6.70  
 Inv. in (N) = 5.80  
 Inv. in (S) = 4.11  
 Inv. out = 4.10

2-2" ELECTRICAL CONDUIT FOR  
 LIGHTING AND STEEL SHEETING  
 CONDUIT ELEV. 4.9

DATE	DESCRIPTION	DATE	BY

**AS-BUILT SURVEY**

**EMPTY SKY**  
 LIBERTY STATE PARK, NEW JERSEY

**ZI LAND SURVEYING, LLC**  
 20 LEBANON DRIVE, SUITE 200  
 NEW JERSEY 07033  
 908-709-1000  
 www.zilandsurveying.com

**ZORAVKO LUCIN - LS**  
 100 WEST 10TH STREET, SUITE 100  
 NEW JERSEY 07102  
 908-709-1000

**LEGEND**

1) TOPGRAPHIC INFORMATION SHOWN ON THIS MAP IS BASED ON THE DATA PROVIDED BY THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE DATA PROVIDED.

2) THE LOCATION OF ANY STRUCTURE OR OBJECT SHOWN ON THIS MAP IS BASED ON THE DATA PROVIDED BY THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE DATA PROVIDED.

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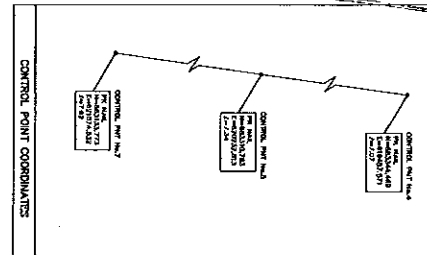
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Digitally signed by Stephen Lederach  
DN: cn=Stephen Lederach,  
c=US, o=Arnold Associates,  
email=hamold@aol.com  
Date: 2008.08.11 22:10:53  
+04'00'

**Stephen Lederach**

## KEY



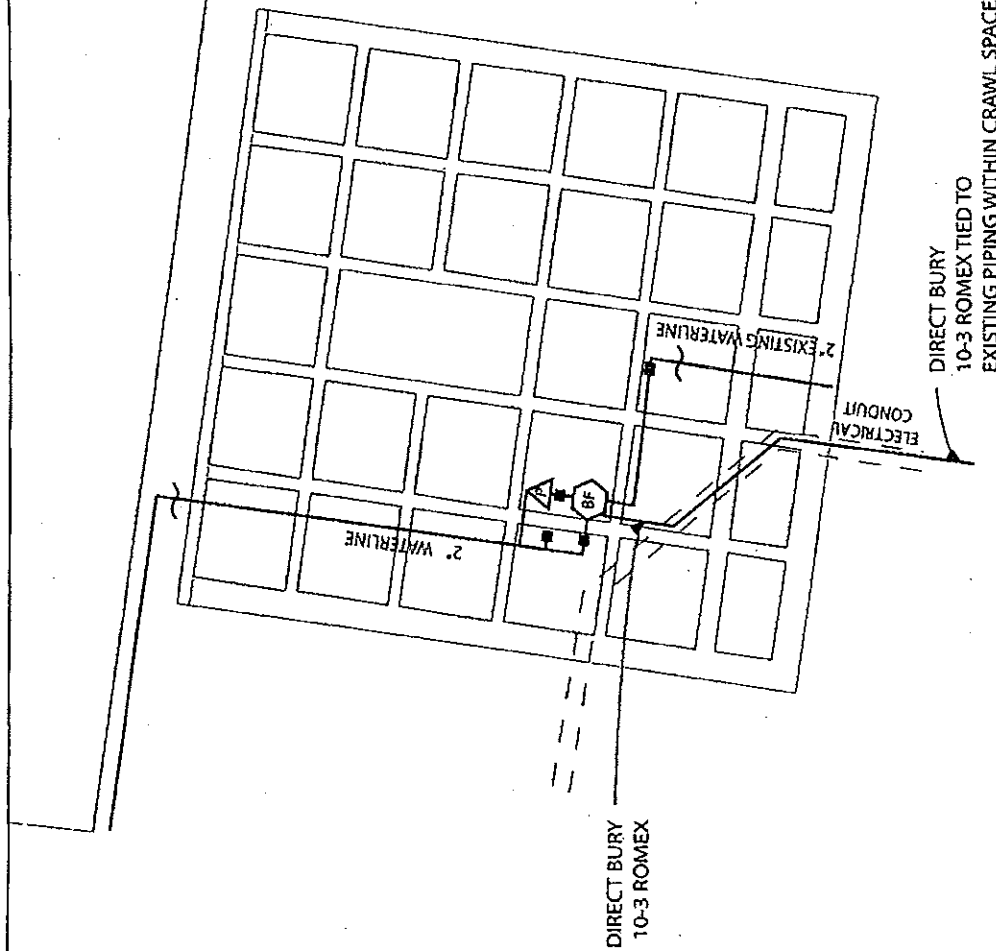
KEY VALVE



BOOSTER PUMP & ENCLOSURE



BACKFLOW PREVENTER



"EMPTY SKY" 9/11 MEMORIAL  
LIBERTY STATE PARK, JERSEY CITY, NJ

## BOOSTER PUMP SHOP DRAWING

J. A. ALEXANDER, INC.

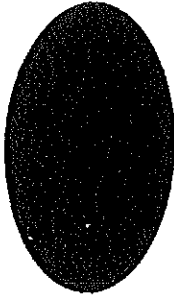
ADDRESS: 130 JOHN F. KENNEDY DR. N. FAX: (973) 680-0221  
BLOOMFIELD, NJ 07003

PHONE: (973) 680-0220

1

SHEET 1 OF 1

Present

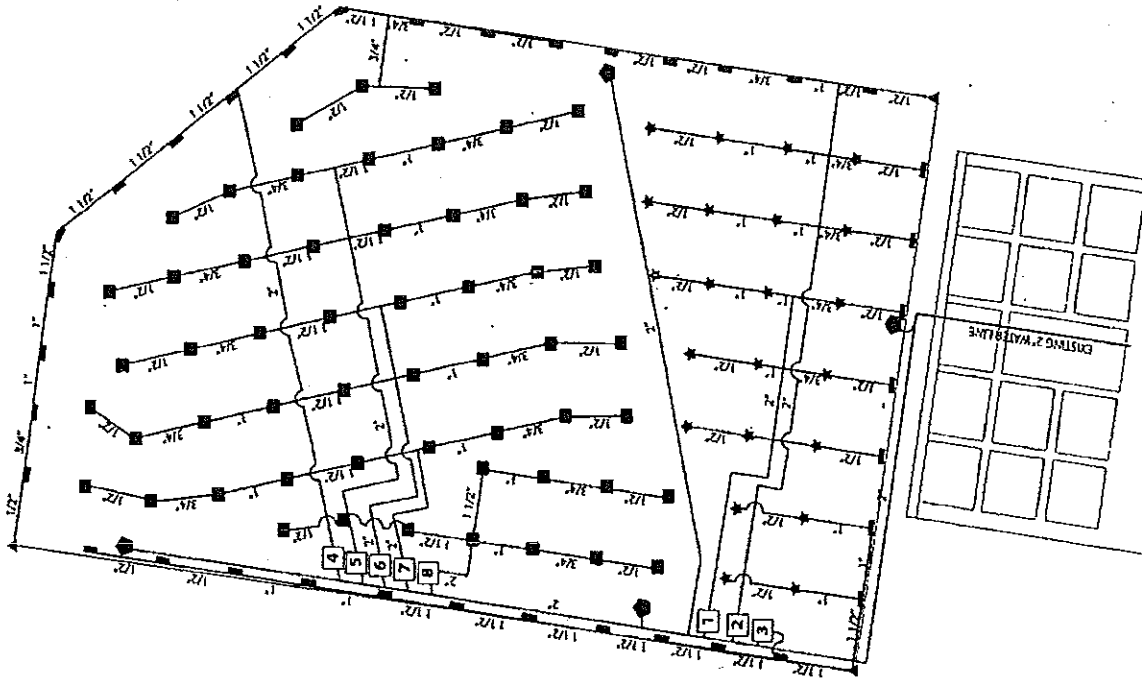


Anthony Siroch  
Lic.# 18943

Stephen Lederach  
Digitally signed by Stephen Lederach  
DN: cn=Stephen Lederach, o=US, ou=Arnold Associates, email=arnold@adl.com, Date: 2009.08.11 22:12:34 -0400

KEY

- ★ 360 ARC HEAD 4.4 GPM
- 360 ARC HEAD 3.3 GPM
- 180 ARC HEAD 3.3 GPM
- ▲ 90 ARC HEAD 1.9 GPM
- 1 REMOTE CONTROL ZONE VALVE
- ⊗ QUICK-COMPLUS VALVE
- SUPPLY LINE



"EMPTY SKY" 9/11 MEMORIAL  
LIBERTY STATE PARK, JERSEY CITY, NJ

IRRIGATION PLAN

JERSEY SHORE LAWN SPRINKLER COMPANY  
ADDRESS: 870 ROUTE 530  
WHITING, NJ 08759  
PHONE: (732) 270-0072  
FAX: (732) 505-6003

1

SHEET 1 OF 1



2" HDPE water Pipe tested from Building.

# ENDOT INDUSTRIES

## PIPE AND TUBING PRODUCTS

### ENDOPOLY PE 3408/PE 4710 High Density Polyethylene Pipe

Endot ENDOPOLY High Density Polyethylene Pipe and Tubing

- National Sanitation Foundation (NSF) Certified for use in potable water systems for the transport of drinking water
- made from the highest grade PE 3408/PE 4710 bimodal resins available
- available in three sizing standards:
  - ASTM D2239 Iron Pipe Size (IPS - ID Controlled)
  - ASTM D3035 Iron Pipe Size (IPS - OD Controlled)
  - ASTM D2737 Copper Tube Size (CTS - OD Controlled)

ENDOPOLY is produced in:

- sizes from 1/2" through 8"
- Pressure ratings of 80 PSI, 100 PSI, 125 PSI, 160 PSI, 200 PSI, 250 PSI and 333 PSI
- coils, straight lengths or on reels for extra long lengths

ENDOPOLY is ideal for:

- Submersible pump installation in deep wells (depths to 500 ft.)
- Municipal - AWWA C901 & C906 Compliant water service connections & mains
- sewage force mains
- Lawn sprinkler systems

ENDOPOLY is exceptionally durable and resistant to most chemicals, soil and water conditions without risk of rot, rust, corrosion or electrolysis.

ENDOPOLY is produced and backed by one of the oldest and largest producers of small diameter polyethylene tubing in the USA.

ENDOPOLY has a Lifetime Warranty including cost of replacement provisions. (See Warranty for details).

# ENDOPOLY

**ENDOT INDUSTRIES, INC.**

www.endot.com • e-mail: info@endot.com



CORPORATE HEADQUARTERS • 60 Green Pond Road, Rockaway, NJ 07866 • 800-443-8368 • FAX 973-625-4087  
OHIO OPERATIONS • 739 County Road 1, South Point, OH 45680 • 800-345-3990 • FAX 740-377-9844  
TENNESSEE OPERATIONS • 400 Bohannon Avenue, Greeneville, TN 37745 • 800-438-5851 • FAX 423-639-3722  
OKLAHOMA OPERATIONS • 2615 OK State Highway 69A, MidAmerica Industrial Park, Pryor Creek, OK 74361  
800-44ENDOT • FAX 973-625-4087



1-800-44-ENDOT(443-6368)

PIPE AND TUBING . DUCT AND INNERDUCT

2" HDPE Water Pipe for feed from Building to back flow device for irrigation system

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## ALL ENDOT POTABLE WATER PIPE NOW PRODUCED WITH PE 4710 - BI-MODAL HDPE RESIN

Endot is pleased to announce effective immediately all Endot potable water products including EndoPoly and EndoPure are produced with the newest high performance polyethylene resins available.

Endot is producing our entire line of NSF Certified (AWWA C901) pipe using DOW Chemicals Continuum™ bi-modal polyethylene resins. Continuum resins are classified as PE 4710 and are bi-modal, a technology that provides a longer lifetime of 100 years (2 x PE 3408), 25% higher pressure ratings, and 4 to 10 times the resistance to environmental stress cracking.

The chart below demonstrates the improvement you will see when using Endot pipe in your water system.



PHOTO GALLERY

Comparison of Pressure Ratings for PE 4710 & PE 3408			
ASTM PRODUCT	SDR	PRESSURE RATING PE4710	PRESSURE RATING PE 3408/3604
ASTM D2239	7	250 PSI	200 PSI
ASTM D2239	9	200 PSI	160 PSI
ASTM D2239	11.5	160 PSI	125 PSI
ASTM D2737	9	250 PSI	200 PSI
ASTM D3035	13.5	160 PSI	128 PSI

At this time, ASTM standard ASTM D3035 and F714 have been revised and D2737 and D2239 are being revised to incorporate the high performance properties of bi-modal resin technology. The process of revising these standards should be complete in a few months.

Endot has personnel available to meet with you and explain the new HDPE resins, the changes that are occurring in the ASTM standards that are used in the industry and how pipe and tubing made with PE 4710 bi-modal resins can improve your water system. Please contact us for more information.

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**CORPORATE HEADQUARTERS:** 60 Green Pond Road, Rockaway, NJ 07866 -  
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**OKLAHOMA OPERATIONS:** Mid America Industrial Park, Pryor Creek, OK 74361 –  
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**New PE Pipe Material Designation Codes**



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# ENDOT INDUSTRIES

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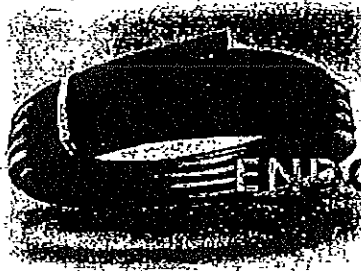
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Water pipe  
-Endopure  
-EndoPoly  
-Golden Jet/Super Golden Jet  
-Reclaimed Water Pipe  
-Endocore RWT  
-Endoflex Irrigation Pipe  
-Endopoly Geothermal Pipe

Endot ENDOPOLY, High Density Polyethylene Pipe and Tubing is made from PE 3408 resin, providing the highest strength pipe at the lightest weight.

PE 3408, ENDOPOLY is the first polyethylene pipe to achieve pressure ratings of up to 200 PSI which allows pump settings of over 500 feet.

ENDOPOLY is National sanitation Foundation (NSF) certified and is manufactured to meet ASTM Standard D2737 for Water Service Tubing and D2239 for Iron Pipe Sizes.

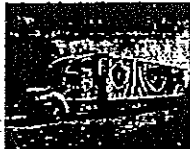


PHOTO GALLERY

ENDOPOLY is available in sizes from 1/2" through 3" and pressure ratings of 100 PSI to 200 PSI.

ENDOPOLY Pipe and Tubing is ideal for Deep Well installations, Lawn Sprinkler Systems and Water Service connections.

ENDOPOLY High Density Pipe and Tubing is exceptionally durable and resistant to most chemicals, soil and water conditions without risk of rot, rust or electrolysis.

ENDOPOLY PE3408 Pipe and Tubing is so dependable and strong that Endot Industries backs it with a **LIFETIME WARRANTY** including cost of replacement provisions. Endot Industries stocks all sizes and pressure ratings at our two plants and four warehouses for immediate delivery. Contact Endot Industries to place orders or for more details.

[Downloads/Printable versions for Endopoly](#)

[Click here for List Prices](#)

[Endopoly 200 PSI List Price Sheet 03-95](#)

[Endopoly Cover Sheet](#)

[Endopoly D2239 List Price 03-95](#)

[Endopoly D3035 List Price 06-07](#)

[Palletized/Streatch Wrapped Packaging](#)

All Endot potable water pipe is now produced with pe4710-bi-modal HDPE

# ENDOT INDUSTRIES

PIPE AND TUBING

## EndoPoly PE-3408/PE-4710 High Density Polyethylene

MEETS THE REQUIREMENTS OF ASTM D2239

Size	O.D.	I.D.	Min. Wall	Weight Per 100'	Standard Coil Size	Part Number	Price Per 100'
<b>"ENDOPOLY" 200 PSI @73.4°F (IPS) SIDR 7 DEEP WELL AND WATER SERVICE PIPE</b>							
3/4"	1.070	0.824	.118	15.0	400/100	PBJ07541010004	\$44.00
1"	1.359	1.049	.150	24.1	300/200/100	PBJ10041010004	\$70.65
1-1/4"	1.785	1.380	.197	41.5	300/100	PBJ12541010004	\$122.00
1-1/2"	2.086	1.610	.230	56.6	250/100	PBJ15041010004	\$175.00
2"	2.675	2.067	.295	93.3	200/100	PBJ20041010004	\$290.00
<b>"ENDOPOLY" 160 PSI @73.4°F (IPS) SIDR 9 DEEP WELL PIPE</b>							
1/2"	0.760	0.622	.069	6.6	400/100	PBJ05041010003	\$19.35
3/4"	1.018	0.824	.092	11.5	400/100	PBJ07541010003	\$33.75
1"	1.293	1.049	.117	18.4	500/300/200/100	PBJ10041010003	\$54.00
1-1/4"	1.697	1.380	.153	31.4	300/100	PBJ12541010003	\$92.00
1-1/2"	1.978	1.610	.179	42.7	250/100	PBJ15041010003	\$132.00
2"	2.537	2.067	.230	70.7	200/100	PBJ20041010003	\$220.00
3"	3.500	2.722	.389	158.2	100	PBJ30041010016	\$545.00
<b>"ENDOPOLY" 125 PSI @73.4°F (IPS) SIDR 11.5 WATER PIPE</b>							
1/2"	0.752	0.622	.080	5.7	400/100	PBJ05041010002	\$16.75
3/4"	0.988	0.824	.072	9.0	400/100	PBJ07541010002	\$26.40
1"	1.247	1.049	.091	14.2	300/100	PBJ10041010002	\$41.65
1-1/4"	1.638	1.380	.120	24.3	300/100	PBJ12541010002	\$75.00
3"	3.500	2.864	.318	140.5	100	PBJ30041010014	\$483.00
4"	4.500	3.682	.419	229	100	PBJ40041010014	\$788.00
<b>"ENDOPOLY" 100 PSI @73.4°F (IPS) SIDR 15 IRRIGATION AND WATER PIPE</b>							
3/4"	0.954	0.824	.060	7.5	400/100	PBJ07541010001	\$22.00
1"	1.207	1.049	.070	10.9	300/100	PBJ10041010001	\$32.00
1-1/4"	1.572	1.380	.092	18.5	300/100	PBJ12541010001	\$54.75
1-1/2"	1.838	1.610	.107	24.9	250/100	PBJ15041010001	\$75.00
2"	2.353	2.067	.138	40.9	200/100	PBJ20041010001	\$127.00
3"	3.068	2.638	.205	89.1	100	PBJ30041010001	\$300.00

### COLOR CODES

EndoPoly Pipe is color coded with permanent printing and footage tape.  
YELLOW = 200 PSI    RED = 160 PSI    GREEN = 125 PSI    BLUE = 100 PSI    WHITE = 80 PSI

### STANDARDS

ENDOT "EndoPoly" pipe meets the applicable standards of ASTM D3350 (cell classification 445574C), ASTM D2239, NSF-14 & 61 and BOCA.

**NOTE:** Use of pipe sealing compounds, pipe dope and detergent type lubricants voids all warranties.

Use insert fittings for all sizes and pressure ratings. Compression fittings for 160 PSI and 200 PSI IPS PIPE must be selected according to SIDR RATING NOT PRESSURE RATING.



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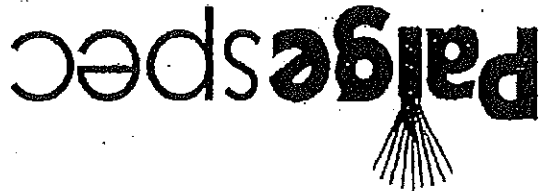
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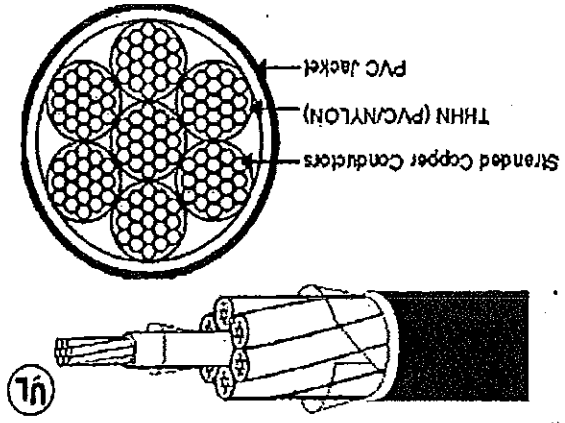
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P.O.Box 368, Union, NJ 07083-0368, 908-687-7810, 800-327-2443, Fax: 908-687-8860



P7266D-Rev 1

CONTROL OR INSTRUMENTATION CABLE  
INSULATION: HIGH DIELECTRIC PVC  
JACKET: PVC, SIZES: 18 - 10 AWG  
UL LISTED TYPE TC 600 VOLTS  
VW-1 RATED, 90°C DRY, 75° WET



1.0 SCOPE:

1.1 This specification covers multi-conductor cables having TFFN or VW-1 THHN/THWN (PVC/Nylon) conductors with an overall polyvinyl chloride (PVC) jacket, conforming to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1981 National Electrical Code, and Subject to the requirements of the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383 and shows reserve capabilities by also passing the 210,000 BTU flame test. Rated 600 volts, 90°C dry and 75°C wet.

1.2 Use:

UL listed and OSHA acceptable. Recognized for use in Class 1, Division 2 hazardous locations and for installation in trays, wireways, ladders, channels, ducts, and conduits. Specially approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required, designed for control, power, lighting, telemedicine, signals and relay or traffic control.

2.0 CONSTRUCTION:

2.1 Conductors:  
Bare, soft annealed copper per ASTM B-3 SIZES 18 AND 16 AWG (TFFN)  
Bunch stranded, class K (0.10" #30 strands) ASTM B-174 and UL-62 paragraph 8.1 SIZES 14, 12 AND 10 AWG (THHN/THWN)  
Concentric stranded, class C (19 strands) ASTM B-8 and UL-83 table 4.1.

2.2 Insulation:

HIGH DIELECTRIC POLYVINYL CHLORIDE  
UL-83 table 13.1 (THWN 75°C)  
UL-83 table 14.1 (THHN 90°C)  
UL-62 part 24 class 128 (TFFN 90°C)

3.0 COLOR CODE

3.1 ICEA method 1 using solid colors with spiral stripes in accordance with Table K-2

Cond. No.	1	2
Base color	Black	Red
Spiral stripe	-	-
Cond. No.	13	14
Base color	Blue	Orange
Spiral stripe	Red	Red
Cond. No.	25	26
Base color	Yellow	Brown
Spiral stripe	Orange	Orange

4.0 CONDUCTOR DATA

SIZE	18
Strands	16/010
NO./O.D.	.015
Insul.	.004
Nylon Armor	.004
Approx. O.D.	.091

2.6 Color Code:  
Dual color code ICEA Method 1 using solid colors with stripes in accordance with Table K-2 on one side and a modified ICEA Method 4 using alpha-numeric printing on the other side. (See color table below)

2.7 Markings:  
ink print on one side of jacket (size) AWG type TC 90°C dry 75°C wet Sunlight Resistant 600V (UL) Direct Burial, indent print on other side of jacket (number of conductors).

2.8 Construction Options:  
Consult factory for cable specifications with appropriate shields.

2.5 Overall Jacket:  
Polyvinyl chloride UL-62 part 22 class 12 thickness specified herein

2.6 Cable Assembly:  
Three or more conductors are assembled round with PVC fillers as needed. A tape binder is applied over the assembly. Two conductors are assembled for parallel (round, with PVC fillers as needed, is available upon request).

2.7 Insulation Armor:  
UL-83 table 5.2 for TFFN  
UL-83 table 21.5 for THHN/THWN THICKNESS  
NYLON  
UL-83 paragraph 35.1 for THHN/THWN and 64.2 for TFFN  
UL-62 paragraph 64.1 and 64.2 for TFFN  
UL-83 paragraph 21.5 for THHN/THWN THICKNESS  
UL-62 paragraph 21.5 for THHN/THWN  
UL-83 paragraph 68.4 for TFFN

P7266D-REV 1

Page 2 of 2

3	Blue	-	15	Yellow	Red	27	Black	Yellow
4	Orange	-	16	Brown	Red	28	Red	Yellow
5	Yellow	-	17	Black	Blue	29	Blue	Yellow
6	Brown	-	18	Red	Blue	30	Orange	Yellow
7	Red	Black	19	Orange	Blue	31	Brown	Yellow
8	Blue	Black	20	Yellow	Blue	32	Black	Brown
9	Orange	Black	21	Brown	Blue	33	Red	Brown
10	Yellow	Black	22	Black	Orange	34	Blue	Brown
11	Brown	Black	23	Red	Orange	35	Orange	Brown
12	Black	Red	24	Blue	Orange	36	Yellow	Brown

16	28/.010	.015	.004	.103
14	19/.0147	.015	.004	.119
12	19/.0185	.015	.004	.137
10	19/.0234	.020	.004	.171

4.01 PART NO.: TO SPECIFY A SPECIFIC PART NUMBER ADD AWG SIZE, PLUS THE NUMBER OF CONDUCTORS TO THE PART NUMBER, FOR EXAMPLE: 3 CONDUCTORS, 8 AWG IS (P7266D)-8/3

## 5.0

## CABLE DATA:

No. of cond	18 AWG			16 AWG			14 AWG			12 AWG			10 AWG		
	Overall jacket thickness (inch)	Approx outside diameter (inch)	Approx weight 1000FT (pound)	Overall jacket thickness (inch)	Approx outside diameter (inch)	Approx weight 1000FT (pound)	Overall jacket thickness (inch)	Approx outside diameter (inch)	Approx weight 1000FT (pound)	Overall jacket thickness (inch)	Approx outside diameter (inch)	Approx weight 1000FT (pound)	Overall jacket thickness (inch)	Approx outside diameter (inch)	Approx weight 1000FT (pound)
2 FL	.45	.20x.29	41	.45	.20x.31	49	.45	.22x.34	64	.45	.24x.37	83	.45	.27x.44	115
2 RO	.45	.29	46	.45	.31	54	.45	.34	71	.45	.37	93	.45	.45	127
3	.45	.30	50	.45	.32	66	.45	.35	87	.45	.39	113	.45	.47	167
4	.45	.32	60	.45	.35	79	.45	.39	107	.45	.43	145	.45	.52	212
5	.45	.35	71	.45	.38	94	.45	.42	129	.45	.47	175	.60	.60	269
6	.45	.38	85	.45	.41	109	.45	.46	147	.45	.51	199	.60	.65	317
7	.45	.38	89	.45	.41	118	.45	.46	162	.45	.51	223	.60	.65	352
8	.45	.40	99	.45	.44	133	.45	.49	184	.60	.58	268	.60	.70	399
9	.45	.43	112	.45	.47	147	.60	.56	221	.60	.62	304	.60	.75	445
10	.45	.45	121	.45	.49	162	.60	.58	237	.60	.65	327	.60	.78	490
11	.45	.46	130	.45	.51	176	.60	.60	257	.60	.67	357	.60	.81	527
12	.45	.47	156	.45	.52	202	.60	.61	281	.60	.68	388	.60	.83	578
13	.45	.49	158	.60	.57	217	.60	.63	293	.60	.71	413	.80	.90	657
14	.45	.50	160	.60	.59	230	.60	.65	316	.60	.73	442	.80	.93	706
15	.45	.52	169	.60	.60	243	.60	.67	340	.60	.75	466	.80	.95	750
16	.60	.56	192	.60	.62	258	.60	.69	356	.60	.77	500	.80	.98	795
17	.60	.57	203	.60	.63	274	.80	.71	376	.60	.80	530	.80	1.01	844
18	.60	.59	214	.60	.65	284	.60	.73	393	.60	.82	558	.80	1.03	893
19	.60	.59	220	.60	.65	296	.60	.73	408	.60	.82	581	.80	1.03	918
20	.60	.60	228	.60	.67	310	.60	.75	424	.80	.88	647	.80	1.056	975
21	.60	.62	239	.60	.68	327	.60	.76	450	.80	.90	680	.80	1.08	1011
22	.60	.63	251	.60	.70	340	.60	.78	469	.80	.92	711	.80	1.12	1058
23	.60	.64	259	.60	.71	353	.60	.80	488	.80	.94	738	.80	1.14	1104
24	.60	.65	268	.60	.72	367	.60	.81	508	.80	.95	768	.80	1.15	1151
25	.60	.66	279	.60	.73	379	.60	.82	526	.80	.97	796	.80	1.17	1204
26	.60	.67	287	.60	.74	391	.80	.88	582	.80	.98	822	.80	1.19	1238
27	.60	.67	298	.60	.75	405	.80	.89	601	.80	.99	850	.80	1.20	1273
28	.60	.69	306	.60	.76	418	.80	.90	621	.80	1.01	880	.80	1.23	1317
29	.60	.69	314	.60	.77	431	.80	.91	640	.80	1.02	907	.80	1.24	1360
30	.60	.71	325	.60	.79	458	.80	.93	666	.80	1.05	938	.80	1.27	1404
31	.60	.71	333	.60	.79	458	.80	.94	679	.80	1.05	964	The data listed above is approximate and subject to normal manufacturing tolerances. Specifications are subject to change without notice.		
32	.60	.72	343	.60	.81	507	.80	.95	698	.80	1.07	992			
33	.60	.74	353	.60	.82	522	.80	.97	718	.80	1.09	1022			
34	.60	.74	361	.60	.83	538	.80	.98	737	.80	1.110	1050			
35	.60	.75	371	.80	.88	549	.80	.99	756	.80	1.11	1077			
36	.60	.77	381	.80	.89	564	.80	1.01	780	.80	1.13	1106			
37	.60	.77	390	.80	.89	580	.80	1.01	794	.80	1.13	1134			

**Models****Suffix**

C&T	Cap and tether test cocks
PC	Internal polymer coating
QT	Quarter-turn ball valves
S	Bronze strainer
HW	Stainless steel check modules for hot and harsh water conditions
LF	Without shutoff valves
LH	Locking ball valve handles (open position)
HC	Inlet/outlet fire hydrant fitting (2" only)
<b>Prefix</b>	
C	Clean and check strainer - ¾" and 1" (20 and 25mm) only
U	Union - ¾" and 1" (20 and 25mm) only
F&E	Flanged adapter ends - 1½", 1¾", 2" (32, 40, 50mm) only

NOTE: The installation of a drain line is recommended. When installing a drain line, an air gap is necessary.

**Materials**

Body:	Bronze
Check Seats:	909 Celcon®
Relief Valve Seats:	Stainless steel 909HW
Test Cocks:	Bronze

Celcon® is a registered trademark of Celanese, Limited

**Connections**

¾" - 1" (19 - 25mm) 909-NPT Female threaded body connection  
1¼" - 2" (32 - 50mm) 909-M1-NPT Male threaded body connection

**Standards**

AWWA C-511-92  
FCCOHR of USC Manual Section 10  
IAPMO (UPC), SBCCI (Standard Plumbing code)

**Approvals**

Listed by IAPMO

Listed by SBCCI



\*Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Horizontal and vertical "flow-up" approval on ¾" (20mm) and 1" (25mm) sizes (models 909QT, 909PCQT, and U909QT).

**Pressure — Temperature**

Temperature Range: 33°F - 140°F (0.5°C - 60°C) continuous, 180°F (82°C) intermittent

Maximum Working Pressure: 175psi (12.1 bar)

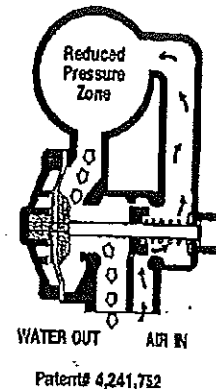
Series 909HW:

Temperature Range: 33°F - 210°F (0.5°C - 99°C)

Maximum Working Pressure: 175psi (12.1 bar)

**How it Operates**

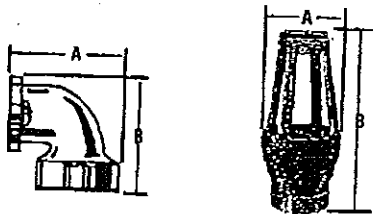
The unique relief valve construction incorporates two channels: one for air, one for water. When the relief valve opens, as in the accompanying air-in/water-out diagram, the right-hand channel admits air to the top of the reduced pressure zone, relieving the zone vacuum. The channel on the left then drains the zone to atmosphere. Therefore, if both check valves foul, and simultaneous negative supply and positive backpressure develop, the relief valve uses the air-in/water-out principle to stop potential backflow.



Patent# 4,241,752

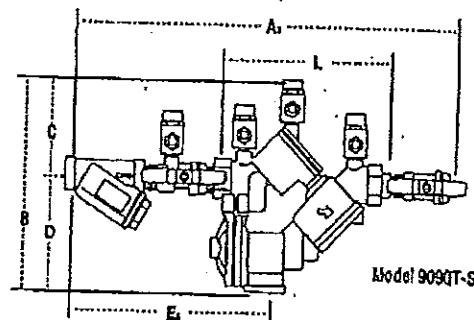
**Dimensions — Weights**

When installing a drain line use 909AG series Air Gaps on Series 909 backflow preventers. \*909EL series elbows are for air gaps on backflow preventers in vertical installations.

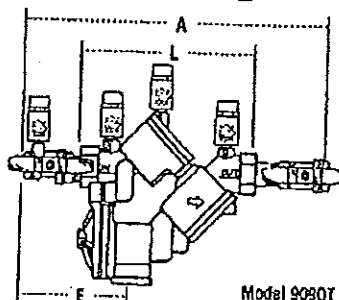


Series 909AG Air Gaps

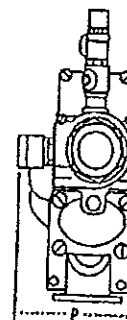
Iron Body No.	Desc.	909 DRAIN SIZES		OUTLET SIZES		DIMENSIONS				WEIGHTS	
		in.	mm	in.	mm	A in.	A mm	B in.	B mm	lbs.	kg.
909-AG-C	Air Gap	¾, 1	19, 25	1	25	3¼	83	4⅞	124	1½	.7
909-EL-C	Elbow*	¾, 1	19, 25	-	-	2⅞	60	2⅞	60	¾	.2
909-AG-F	Air Gap	1¼, 2	32, 50	2	50	4⅞	111	6¾	171	3¼	1.5
909-EL-F	Elbow*	1¼, 2	32, 50	-	-	3⅞	92	3⅞	92	2	.9



Model 909QT-S



Model 909QT







### CONNECTOR KINGS TECHNICAL INFORMATION/SPECIFICATIONS

MODEL:	SA101
TEMPERATURE RATING:	195° F
SEALANT TEMPERATURE RANGE:	-50° TO 480° F
MAXIMUM VOLTAGE:	30V
WIRE NUT & CRIMP	UL APPROVED
SIZE:	2.5" X .5"
WIRE COMBINATIONS:	CU/CU
MINIMUM:	(9) #20
MAXIMUM:	(2) #14 W/ (2) #18
COLOR:	BLACK - UV RESISTANT

### SA101 CONNECTOR CROSS-REFERENCE REPLACEMENT:

KING MODELS:	KING1, KING2, KING3, KING4, KING5
3M MODELS:	DBY, DBR, 314, 316 IR



## CONNECTOR KINGS

### SA102 DIRECT BURIAL CONNECTOR - Technical Information

(800) 822-8608

The waterproof SA102 wire splice kit is uniquely designed to keep moisture out and electricity in. Our green XR compound is specially formulated to resist moisture without breaking down under high temperatures or freezing conditions. The XR compound has less than 1/2 of 1 percent voltage leakage which is the lowest in the industry. Small enough to fit into valve boxes while big enough to hold up to three 10-gauge wires.

The SA102 connector is a big time saver when installing irrigation/sprinkler systems, landscape lighting and other underground projects of 30 volts or less.

- \* Meets industry standards
  - \* Compact polypropylene insulator tube designed to allow the waterproof XR compound gel to seal the insertion path of the connection
  - \* Insulating compound already contained in tube
  - \* When closed, tube cover provides strain relief
  - \* Tube cover locks cable in tube
  - \* Long term electrical properties reduce service call-backs
  - \* Protects against corrosion failure
  - \* Wire range: #10 AWG through 18 AWG solid or stranded copper wire
  - \* Application Temperature Range:  
32 to 150 degrees F
  - \* Made for use with copper crimps or various sized wire nuts
- Packaging: 50 splices per bag

#### Important Notice To Purchasers:

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for the intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

MADE IN USA

9308 Douglas Dr. • Riverside, CA 92503

## COMPARISON OF DIRECT BURIAL CONNECTORS

## 3M DBY

Common AWG Cu to Cu  
Wire Combinations  
Solid or Stranded  
(Cross-Section Capacity)

Product	Copper Only	Volts
DBY	2-5 #18 Sol or Str	30
	2-3 #16 Sol or Str	
	2-3 #14 Sol or Str	
	2 #12 Sol or Str	
	1 #14 to 1 #12 Sol or Str	
	1 #18 to 1 or 2 #14 Sol or Str	
	1 #18 to 1 or 2 #12 Sol or Str	
	1 #16 to 1 or 2 #14 Sol or Str	
	1 #16 to 1 or 2 #12 Sol or Str	

Length 4" Width 5/8"

Casing—Clear White, Non U.V. Stable

Do Not Store Above 120° F

Sealant Temperature Range: ?

Warranty—90 Days

## Connector Kings SA101

Common AWG Cu to Cu  
Wire Combinations  
Solid or Stranded  
(Cross-Section Capacity)

Product	Copper Only	Volts
SA101	2-12 #18 Sol or Str Multi-Cond.	30
	2-4 #18 Sol or Str	
	2-3 #16 Sol or Str	
	2 #14 Sol or Str	
	1 #14 to 1 #12 Sol or Str	
	2 #18 to 1 #14 Sol or Str	
	1 #16 to 1 #14 Sol or Str	

Choice of UL &amp; CSA approved wire nuts

Length 2 1/2" Width 1/2"

Casing—Black (UV Resistant)

Temperature rating: 195°

Sealant Temperature Range: -50° to 480° F

Do Not Store Above 200° F

Warranty—Lifetime of the system.

## 3M DBR

Common AWG Cu to Cu  
Wire Combinations  
Solid or Stranded  
(Cross-Section Capacity)

Product	Copper Only	Volts
DBR	2-3 #10 Sol or Str	30
	2-4 #12 Sol or Str	
	3-4 #14 Sol or Str	
	4-6 #16 Sol or Str	
	1 #10 to 1 #12 Sol or Str	
	1 #10 to 1 or 2 #14 Sol or Str	
	1 #12 to 1 to 3 #14 Sol or Str	
	1 #14 to 2 or 3 #16 Sol or Str	

Length 4 1/2" Width 1/2"

Casing—Clear White, Non U.V. Stable

Do Not Store Above 120° F

Sealant Temperature Range: ?

Warranty—90 Days

## Connector Kings SA102

Common AWG Cu to Cu  
Wire Combinations  
Solid or Stranded  
(Cross-Section Capacity)

Product	Copper Only	Volts
SA102	2-3 #10 Sol or Str	30
	2-3 #12 Sol or Str	
	2-3 #14 Sol or Str	
	2-3 #16 Sol or Str	
	2-3 #18 Sol or Str	
	2-12 #18 Multi-Cond. Sol	

Choice of UL &amp; CSA approved wire nuts

Length 2 1/2" Width 1/2"

Casing—Black (UV Resistant)

Temperature rating: 195°

Sealant Temperature Range: -50° to 480° F

Do not store above 200° F

Warranty—Lifetime of the system.

**PGJ**

*All the features and benefits of the PGP,  
scaled down to fit typical spray applications.*

**A** rack of easy-to-install-and-change, water-efficient nozzles...just like PGP. Easy adjustment from the top of the sprinkler...just like PGP. The safety and durability of a rubber cover...just like PGP. The PGJ is a chip off the ol' block, in essence a PGP "junior." Hunter has scaled down the world's top-selling sprinkler exclusively for use in applications that typically call for a spray but where it's now possible to have all the benefits of a rotor. The PGJ is capable of working in tandem with larger rotors to combine big and small areas in a single zone, offering a convenience and efficiency that sprays do not. With PGJ, fewer heads perform more efficient work for a more economical price.



*The "scaled down" rotor and spray alternative designed for mid-range areas at residential and commercial sites.*

## FEATURES & BENEFITS

### Radius adjustment screw

Allows fine tuning of spray, ensures positive nozzle retention, can't be lost

### Protective rubber cover

Keeps debris out

### 40°-360° adjustable arc

Easily adjustable from top of sprinkler, up, down, wet or dry

### Water-lubricated gear drive

Time proven, reliable rotation, year after year

### Variable stator

Keeps rotation speed consistent regardless of nozzle size or pressure

### Extra large filter screen

Traps more debris without clogging

### Optional factory-installed drain check valve

Prevents wet spots caused by low head drainage

## MODELS

PGJ-00 - Shrub

PGJ-04 - 4" Pop-up (10 cm)

PGJ-06 - 6" Pop-up (15 cm)

PGJ-12 - 12" Pop-up (30 cm)

## DIMENSIONS

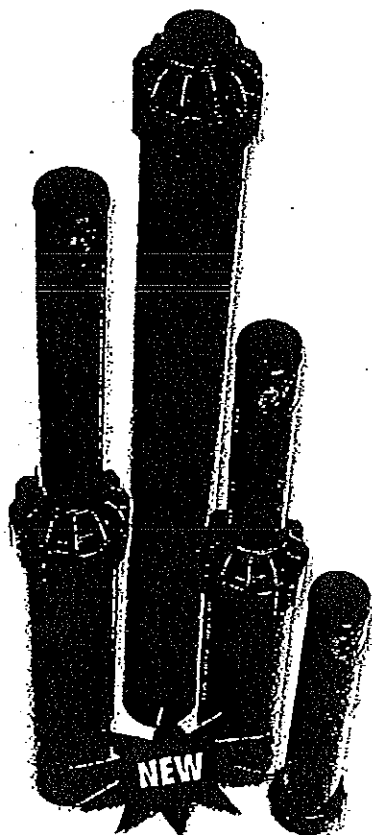
- Overall height:  
PGJ-00 - 7" (18 cm)  
PGJ-04 - 7 1/4" (18 cm)  
PGJ-06 - 9 1/4" (23 cm)  
PGJ-12 - 16 1/4" (41 cm)
- 1/2" female inlet NPT
- Exposed diameter: 1 1/4" (3 cm)

## OPERATING SPECIFICATIONS

- Discharge rate: .64 to 5.3 GPM (0.15 to 1.2 m<sup>3</sup>/hr; 2.4 to 20.1 l/min)
- Radius: 15' to 37' (4.6 to 11.3 m)
- Recommended pressure range: 30 to 50 PSI (2.1 to 3.4 bars; 206 to 344 kPa)
- Precipitation rates: approximately 0.60" (16 mm) per hour at 40 PSI (2.8 bars; 275 kPa) for spacings from 16' to 37' (4.6 to 11.3 m)
- Nozzle trajectory: approximately 14°

## OPTIONS AVAILABLE

- Drain check valve (Pop-up models only) for up to 7' (2.1 m) elevation change
- Reclaimed water cover



**NEW**



## CONNECTOR KINGS

(800) 822-6608

### SA101 DIRECT BURIAL CONNECTOR - Technical Information

The waterproof SA101 wire splice kit is uniquely designed to keep moisture out and electricity in. Our green XR compound is specially formulated to resist moisture without breaking down under high temperatures or freezing conditions. The XR compound has less than 1/2 of 1 percent voltage leakage which is the lowest in the industry. Small enough to fit into valve boxes while big enough to hold up to nine 18-gauge wires.

The SA101 connector is a big time saver when installing irrigation/sprinkler systems, landscape lighting and other underground projects of 30 volts or less.

- \* Meets industry standards
- \* Compact polypropylene insulator tube designed to allow the waterproof XR compound gel to seal the insertion path of the connection
- \* Insulating compound already contained in tube
- \* When closed, tube cover provides strain relief
- \* Tube cover locks cable in tube
- \* Long term electrical properties reduce service call-backs
- \* Protects against corrosion failure
- \* Wire range: #14 AWG through 20 AWG solid or stranded copper wire
- \* Application Temperature Range:  
32 to 150 degrees F
- \* Made for use with copper crimps or various sized wire nuts

#### Important Notice To Purchaser:

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for the intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

MADE IN USA



## CONNECTOR KINGS TECHNICAL INFORMATION/SPECIFICATIONS

MODEL:	SA102
TEMPERATURE RATING:	195° F
SEALANT TEMPERATURE RANGE:	-50° TO 480° F
MAXIMUM VOLTAGE:	30V
WIRE NUT & CRIMP	UL APPROVED
SIZE:	2.5" X .75"
WIRE COMBINATIONS:	CU/CU
MINIMUM:	(9) #20
MAXIMUM:	(3) #10
COLOR:	BLACK - UV RESISTANT

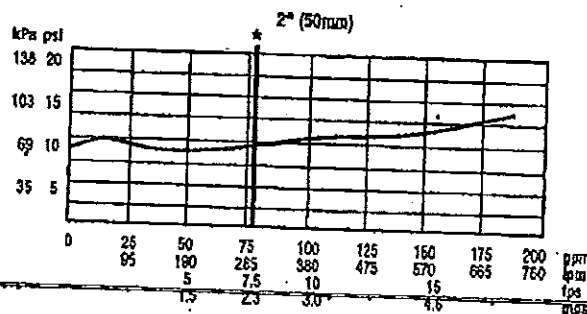
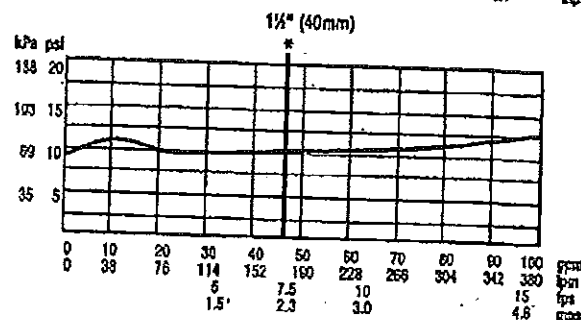
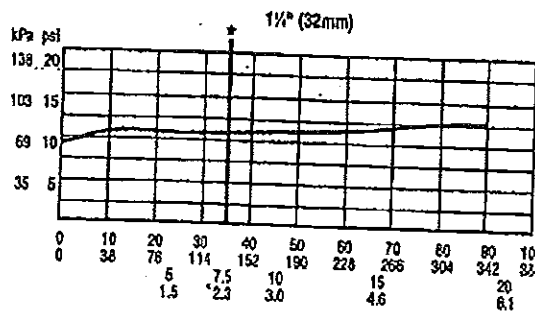
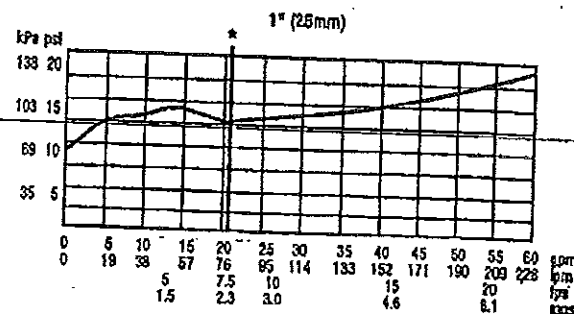
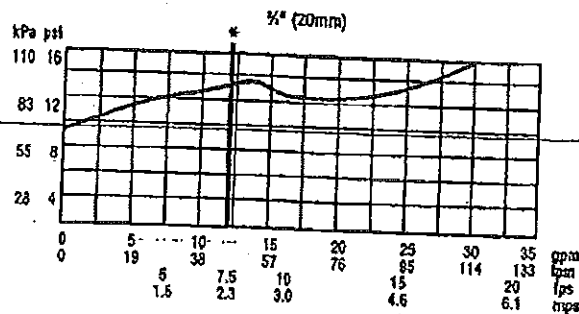
## SA102 CONNECTOR CROSS-REFERENCE REPLACEMENT:

KING MODELS:	KING1, KING2, KING3, KING4, KING5, KING6, KING7, KING8
3M MODELS:	DBY, DBR, 314, 316 IR, SCOTCHLOK 3570 RESIN PACK

ALL DRY-SPLICE TYPE CONNECTORS, SPEARS, RAINBIRD, IMPERIAL DRY OR PRE-FILLED SPLICE KITS.

## Capacity

As compiled from documented Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California lab tests.  
 \*Typical maximum system flow rate (7.5 feet/sec.)



Suffix HC - Fire Hydrant Fittings dimension "A" = 2 3/4" (603mm)

SIZE (DN)	DIMENSIONS										WEIGHT											
	A		As		B		C		D		E		Es		L		P		QT		QT-S	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
*909QT, 909QT-S Dimensions																						
1/2"	14%	365	18%	459	8%	222	4	102	4%	121	6%	171	10%	259	7%	188	3%	98	14	6.4	15.6	7.1
1"	15%	391	19%	498	8%	222	4	102	4%	121	7	178	11	279	7%	188	3%	98	15	6.8	17.5	7.9
1 1/2" M1	18%	470	23%	595	11%	295	5%	140	6%	165	7	191	12%	310	10%	264	5%	133	40	18.1	42.8	19.4
1 1/2" M1	19	483	24%	619	11%	295	5%	140	6%	165	7%	191	12%	321	10%	264	5%	133	40	18.1	44.0	20.0
2" M1	19%	495	25%	659	11%	295	5%	140	6%	165	7%	197	13%	354	10%	264	5%	133	40	18.1	47.4	21.5
*U909QT Dimensions - with integral body unions (Prefix "U")																						
1/2"	14%	371	19%	484	8%	222	4	102	4%	121	6%	171	10%	259	7%	188	3%	98	14	6.4	15.6	7.1
1"	15%	397	20%	532	8%	222	4	102	4%	121	7	178	11	279	7%	188	3%	98	15	6.8	17.5	7.9
*FAE909QT - Dimensions with flanged adapter ends (Prefix "FAE")																						
1 1/2"	19	483	24%	622	11%	295	5%	140	6%	165	7%	191	12%	310	10%	264	5%	133	40	18.1	42.8	19.4
1"	19%	502	26%	664	11%	295	5%	140	6%	165	7%	191	12%	321	10%	264	5%	133	40	18.1	44.0	20.0
2"	21	533	28%	721	11%	295	5%	140	6%	165	7%	197	13%	354	10%	264	5%	133	40	18.1	47.4	21.5

Subscript 'S' = strainer model

**For Health Hazard Applications**

ES-909S

Job Name Liberty State ParkJob Location Jersey City, NJ

Engineer \_\_\_\_\_

Approval \_\_\_\_\_

Contractor Jersey Shore Lawn Sprinkler Inc.

Approval \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Representative Anthony A. Sincich

## Series 909

### Reduced Pressure Zone Assemblies

909 Sizes: ¾", 1" (20, 25mm)

909M1 Sizes: 1¼", 1½", 2" (32, 40, 50mm)

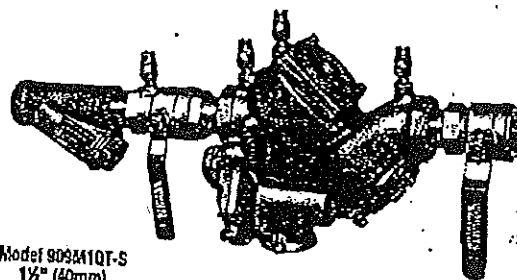
Series 909 Reduced Pressure Zone Assemblies are designed to provide superior cross-connection control protection of the potable water supply in accordance with national plumbing codes and containment control for water authority requirements. This series can be utilized in a variety of installations, including health hazard cross-connections in plumbing systems or for containment at the service line entrance. With its exclusive, design incorporating the patented "air-in/water-out" principle it provides maximum relief valve discharge during the emergency conditions of combined backsiphonage and backpressure with both checks fouled. Model 909QT, standardly furnished with full port, resilient seated and bronze ball valve shutoffs. Sizes ¾" and 1" (20 and 25mm) shutoffs have tee handles.

### Features

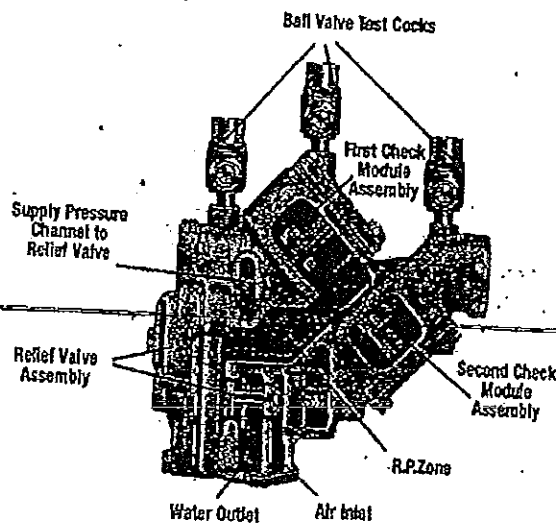
- Modular design
- Replaceable seats
- Compact for installation ease
- Horizontal or vertical (up or down) installation
- No special tools required for servicing

### Specifications

A Reduced Pressure Zone Assembly shall be installed at each cross-connection to prevent backsiphonage and backpressure of hazardous materials into the potable water supply. The assembly shall consist of a pressure differential relief valve located in a zone between two positive seating check valves. Backsiphonage protection shall include provision to admit air directly into the reduced pressure zone via a separate channel from the water discharge channel, or directly into the supply pipe via a separate vent. The assembly shall include two tightly closing shutoff valves before and after the assembly, test cocks and a protective strainer upstream of the No. 1 shutoff valve. The assembly (specify Model 909 for temperatures up to 140°F (60°C) or Model 909HW for temperatures up to 210°F (99°C)) shall meet the requirements of ASSE Std. 1013; AWWA Std. C-511-92 CSA B64.4; FCCCHR of USC Manual Section 10. Listed by IAPMO (UPC), SBCCI (Standard Plumbing code). The assembly shall be a Watts Regulator Company Series 909QTS or 909QTS HW.



Model 909M1QT-S  
1½" (40mm)



Now Available

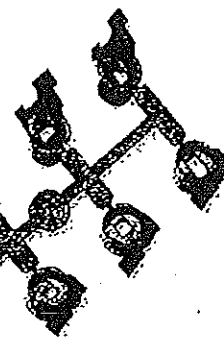
WattsBox Insulated Enclosures

For more information, send for literature ES-WB

# WATTS®

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

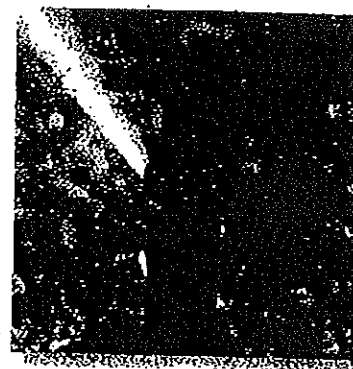




ROTORS

### SPRAYS? OR TIME-SAVING, MONEY-SAVING, WATER-SAVING ROTORS?

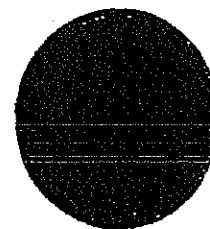
When your landscape has mid-range zones that are long and narrow, the obvious choice would be to install sprays. Yet, the intelligent choice would be a rotor specifically designed to fit this kind of landscape. With the scaled-down-in-size PGJ, two rows of rotors can do the same job as three rows of spray heads. Because PGJ rotors can run on the same zone as other rotary sprinklers, they require fewer valves and stations, and, in turn, less trenching, piping and labor. It all adds up to less installation time and lower installation costs (as well as lower watering costs).



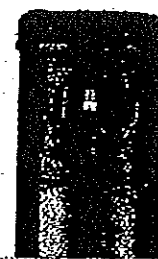
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precep in/hr
.75	30	15'	0.64	0.63
	40	16'	0.75	0.65
	50	17'	0.85	0.65
1.0	30	18'	0.85	0.58
	40	19'	1.0	0.63
	50	19'	1.1	0.59
1.5	30	21'	1.3	0.57
	40	22'	1.5	0.60
	50	22'	1.7	0.68
2.0	30	24'	1.7	0.57
	40	26'	2.0	0.62
	50	25'	2.3	0.71
2.5	30	27'	2.2	0.58
	40	28'	2.6	0.61
	50	28'	2.8	0.69
3.0	30	30'	2.5	0.53
	40	31'	3.0	0.60
	50	31'	3.4	0.68
4.0	30	33'	3.7	0.65
	40	34'	4.0	0.67
	50	34'	4.3	0.72
5.0	30	38'	4.7	0.70
	40	37'	5.0	0.70
	50	37'	5.3	0.75

Nozzle	Pressure Bars	Radius m	Flow l/min	Precep mm/hr
.75	2.1	205	4.6	0.15
	2.8	275	4.9	0.17
	3.4	344	5.2	0.19
1.0	2.1	209	5.5	0.19
	2.8	275	5.8	0.23
	3.4	344	5.9	0.25
1.5	2.1	208	8.4	0.30
	2.8	275	8.7	0.34
	3.4	344	8.7	0.39
2.0	2.1	206	7.3	0.38
	2.8	275	7.8	0.45
	3.4	344	7.8	0.52
2.5	2.1	206	8.2	0.50
	2.8	275	8.5	0.57
	3.4	344	8.5	0.64
3.0	2.1	206	9.1	0.57
	2.8	275	9.4	0.68
	3.4	344	9.4	0.77
4.0	2.1	206	10.1	0.84
	2.8	275	10.4	0.91
	3.4	344	10.4	0.88
5.0	2.1	206	11.0	1.07
	2.8	275	11.3	1.14
	3.4	344	11.3	1.20

Note: All precipitation rates calculated for 180 degree operation.  
For the precipitation rate of a 280 degree operation, divide by 2.  
For more information on precipitation rates see page 106.



Heavy duty rubber cover keeps debris out of adjustment mechanism.



Large PGJ nozzles are easy to identify, as well as easy to install and remove.

### SPECIFICATION GUIDE

EXAMPLE PGJ-06-V

MODEL  
PGJ

POP-UP HEIGHT  
00 = 5" Pop-up  
04 = 4" Pop-up  
06 = 6" Pop-up  
12 = 12" Pop-up

OPTIONS

R = Restricted Water Modifier  
V = Factory-Installed Orifice Check Valve  
(Pop-up Models Only)

**Hunter** | 7

## MODELS

- PGV-100G - 1" plastic globe valve  
 PGV-101G - 1" plastic globe valve with flow control  
 PGV-100A - 1" plastic angle valve  
 PGV-101A - 1" plastic angle valve with flow control  
 PGV-100MB - 1" plastic globe valve, no flow control, male thread x barb  
 PGV-101MB - 1" plastic globe valve, with flow control, male thread x barb  
 PGV-100MM - 1" plastic globe valve, no flow control, male x male thread  
 PGV-101MM - 1" plastic globe valve, with flow control, male x male thread  
 PGV-151 - 1½" plastic angle/globe valve with flow control  
 PGV-201 - 2" plastic angle/globe valve with flow control

## DIMENSIONS

- 1" Globe and Male x Male:  
5" H x 4½" L x 2½" W  
(13 cm H x 11 cm L x 6 cm W)
- 1" Male x Barb:  
5" H x 5½" L x 2½" W  
(13 cm H x 14 cm L x 6 cm W)
- 1" Angle:  
5½" H x 3½" L x 2½" W  
(14 cm H x 9 cm L x 7 cm W)
- 1½" Globe/Angle:  
7½" H x 5½" L x 4½" W  
(19 cm H x 15 cm L x 11 cm W)
- 2" Globe/Angle:  
8" H x 6¾" L x 5½" W  
(20 cm H x 17 cm L x 13 cm W)

## OPERATING SPECIFICATIONS

- Flow: .2 to 120 GPM (0.04 to 27.2 m³/hr; 0.7 to 454.2 l/min)
- Pressure: 20 to 150 PSI (1.4 to 10.3 bars; 138 to 1034 kPa)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles

## OPTIONS AVAILABLE

- Accu-Set™ pressure regulator
- Reclaimed water identification handle  
PGV-101 models (part number 269205) for PGV-151/201 models (part number 412705)
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)

GPM	1" Globe	1" Angle	1½" Globe	1½" Angle	2" Globe	2" Angle
1	1.1	1.0				
5	1.9	1.0				
10	1.9	1.0				
15	1.6	1.0				
20	3.3	2.0	3.0	3.0	1.0	1.0
30	6.1	3.0	3.0	3.0	1.0	2.0
40			3.0	3.0	2.0	2.0
50			4.0	3.5	1.0	1.0
60			5.0	4.0	2.0	2.0
80			5.5	4.5	3.0	2.0
100					5.0	3.0
120					6.0	5.0

m³/hr	1" Globe	1" Angle	1½" Globe	1½" Angle	2" Globe	2" Angle
0.23	0.06	0.07				
1.14	0.13	0.07				
2.27	0.13	0.07				
3.41	0.11	0.07				
4.54	0.23	0.14	0.21	0.21	0.07	0.07
6.81	0.42	0.21	0.21	0.21	0.07	0.14
9.08			0.21	0.21	0.14	0.14
11.38			0.28	0.24	0.07	0.07
13.63			0.34	0.28	0.14	0.14
18.17			0.38	0.31	0.21	0.14
22.71					0.34	0.21
27.25					0.41	0.34

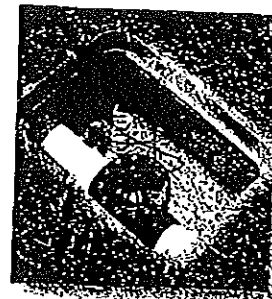
l/min	1" Globe	1" Angle	1½" Globe	1½" Angle	2" Globe	2" Angle
3.6	7.58	6.89				
18.9	13.10	6.89				
37.9	13.10	6.89				
56.8	11.03	6.89				
75.7	22.75	13.78	20.70	20.70	6.90	6.90
113.5	42.06	20.68	20.70	20.70	6.90	13.80
151.4			20.70	20.70	13.80	13.80
189.3			27.60	24.10	6.90	6.90
227.1			34.50	27.60	13.80	13.80
302.8			37.80	31.00	20.70	13.80
378.5					34.50	20.70
454.2					41.40	34.50

Charts based on full open flow control position.

## SPECIFICATION ALLOTT

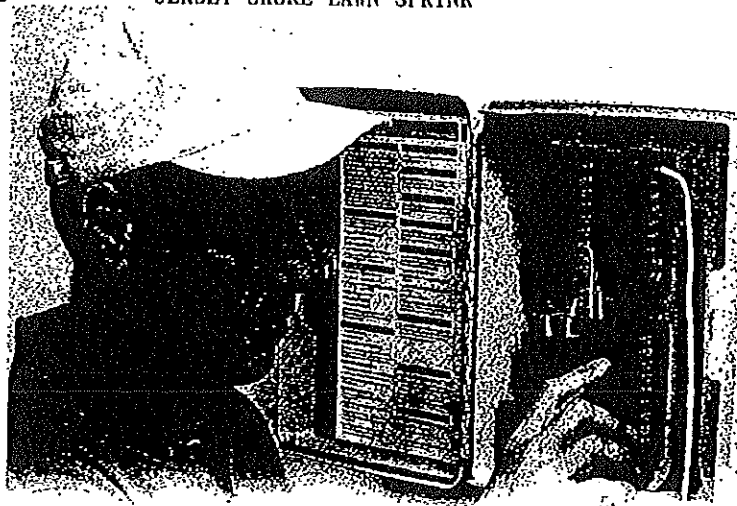
EXAMPLE: PGV - 100G - S - AS

MODEL	FEATURES	OPTIONS FACTORY INSTALLED	OPTIONS USER INSTALLED
PGV	100G = 1" Globe Valve, no Flow Control 101G = 1" Globe Valve, with Flow Control 100A = 1" Angle Valve, no Flow Control 101A = 1" Angle Valve, with Flow Control 100MB = 1" Globe Valve, no Flow Control, Male Thread x Barb 100MM = 1" Globe Valve, no Flow Control, Male x Male 101MM = 1" Globe Valve, with Flow Control, Male x Male 151 = 1½" Globe/Angle Valve, with Flow Control 201 = 2" Globe/Angle Valve, with Flow Control	S = Slip x Slip (1" Models Only) B = BSP Threads DC = DC Latching Solenoid	AS = Accu-Set™ Pressure Regulator (1½" and 2" Models Only) R = Reclaimed Water Identification Handle or Tag CC = Conduit Cover



All models of PGV valves feature internal manual bleed, ensuring a neat, dry valve box.

VALVES



CONTROLLERS

### MODELS

- ICC-800-PL - 8-station controller, plastic cabinet, 32-station capacity
- ICM-400 - 4-station module for use with any ICC
- ICM-800 - 8-station module for use with any ICC

### DIMENSIONS

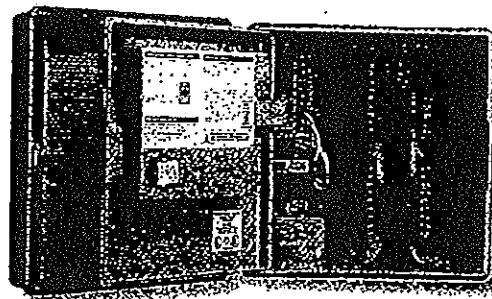
- Plastic Cabinet (NEMA 3R rated): 11" H x 13 1/4" W x 4 1/4" D (25.7 cm H x 33.7 cm W x 12.1 cm D)

### SPECIFICATIONS & FEATURES

- Transformer input: 120/240VAC, 50/60Hz
- Transformer output: 24VAC, 1.5A
- Station output: 24VAC, 0.56A (2 valves)
- Maximum total output: 24VAC, 1.4A (5 valves), includes master valve circuit
- Master valve output: 24VAC, 0.28A
- Rain sensor override compatible with most brands utilizing a normally closed micro switch
- Seasonal adjustment: 10 to 150%
- Program "D" can run simultaneously for drip
- Self-diagnostic circuit breaker: Skips shorted stations and continues watering
- Station run times: Programs A, B, and C, 2 hours; Program D, 12 hours
- Programmable delay between stations up to 10 hours
- Programmable rain delay up to 7 days
- UL listed
- 365 day calendar
- Hunter Quick Check™ helps troubleshoot field wiring problems
- Test program feature allows for quick system checks
- Central control compatible with Hunter IMMS™ system

### MODULES: "CUSTOMIZE" A CONTROLLER TO THE SIZE YOU NEED

It's an idea that makes so much sense...while saving you so many dollars. Using modules that consist of four or eight stations each to build a controller up to the total number of stations desired works for both the contractor and property owner. For the professionals who stock and carry controllers, modules make inventory control easy - there's no need to estimate how many of each size controller you need to keep on hand. Now you simply stock modules. And that means, for customers whose systems require a non-standard number of stations, with modules you can customize the controller to the exact needs of the project - even if those needs change as the project grows.



### ICC QUICK REFERENCE CHART

#### PLASTIC CABINET

Desired Station Configuration	Order Base Unit	Plus Number of modules	Specify as:
8 Zone	one ICC-800-PL	no module needed	ICC-800PL
12 Zone	one ICC-800-PL	one ICM-400	ICC-1200PL
16 Zone	one ICC-800-PL	one ICM-800	ICC-1600PL
20 Zone	one ICC-800-PL	one ICM-800 and one ICM-400	ICC-2000PL
24 Zones	one ICC-800-PL	two ICM-800	ICC-2400PL
28 Zone	one ICC-800-PL	two ICM-800 and one ICM-400	ICC-2800PL
32 Zone	one ICC-800-PL	three ICM-800	ICC-3200PL

#### EXAMPLE: ICC - 800-PL

MODEL	FEATURES
ICC	800-PL = 8-Station Base Unit Controller, Plastic Cabinet, Internal Transformer, Expands to 32 Stations
ICM	400 = 4-Station Plug-In Module for use with any ICC Controller Model 800 = 8-Station Plug-In Module for use with any ICC Controller Model

**PRESSURE RATINGS  
FOR CRESLINE - PVC PIPES  
AT 73.4° F**

SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8
SDR-26	-	-	-	180	180	180	180	160	160	180	160
SDR-21	315	200	200	200	200	200	200	200	200	200	200

**CONVERSION CHART FOR PRESSURE RATINGS  
AT VARIOUS TEMPERATURES FOR CRESLINE - PVC PIPES**

TEMPERATURE °F	73.4°	80°	90°	100°	110°	120°	130°	140°
CONVERSION FACTOR	1.00	.88	.76	.62	.50	.40	.30	.22

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY FOR A LONG TIME WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

**DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR.**

**PALLET QUANTITIES PVC PRESSURE PIPE**

PIPE SIZE	FEET PER PALLET	WT. PER PALLET	
		SDR-26	SDR-21
1/2	8400	-	824
3/4	6600	-	799
1	5400	-	873
1 1/4	4000	837	1024
1 1/2	3600	984	1200
2	2800	1191	1465
2 1/2	2240	1392	1714
3	1500	1392	1706
4	580	810	1115
6	400	1371	1881
8	280	-	1991

**PVC SDR-26, SDR-21, CAN BE USED ON  
JET OR SUBMERSIBLE PUMPS OF 1HP OR LESS**

MAXIMUM DEPTH SETTINGS TO WATER LEVEL IN FT @ 73.4° F			
CRESLINE PVC PRESSURE PIPE	MAX. TANK SHUT-OFF PRESSURE		
	40 PSI	50 PSI	60 PSI
ANY SIZE PVC SDR-26	276'	265'	230'
ANY SIZE PVC SDR-21	356'	345'	320'

**PPFA** MEMBER  
PLASTIC PIPE  
AND FITTINGS  
ASSOCIATION



POTABLE WATER

**CRESLINE PLASTIC PIPE CO., INC.**

800 Cross Pointe Blvd.  
264 Silver Spring Rd.  
2100 South 36th St.  
3801 East Hwy. 31

Evansville, IN 47715  
Mechanicsburg, PA 17050  
Council Bluffs, IA 51501  
Corrigan, TX 75109

812-428-9360  
717-788-2688  
712-322-2294  
903-872-8476

[www.cresline.com](http://www.cresline.com)

Fax 812-428-9363  
Fax 717-897-2371  
Fax 712-322-6573  
Fax 903-872-7732

**PRESSURE RATINGS  
FOR CRESLINE - PVC PIPES  
AT 73.4° F**

SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8
SDR-26	--	--	--	160	160	160	160	160	160	160	160
SDR-21	315	200	200	200	200	200	200	200	200	200	200

**CONVERSION CHART FOR PRESSURE RATINGS  
AT VARIOUS TEMPERATURES FOR CRESLINE - PVC PIPES**

TEMPERATURE °F	60°	70°	73.4°	80°	90°	100°	110°	120°	130°
CONVERSION FACTOR	1.15	1.04	1.00	.95	.90	.75	.65	.60	.50

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY FOR A LONG TIME WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

**DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR.**

**PALLET QUANTITIES PVC PRESSURE PIPE**

PIPE SIZE	FEET PER PALLET	WT. PER PALLET	
		SDR-26	SDR-21
1/2	8400	--	824
3/4	6600	--	799
1	5400	--	679
1 1/4	4000	837	1024
1 1/2	3600	984	1200
2	2800	1191	1465
2 1/2	2240	1392	1714
3	1500	1392	1706
4	580	910	1115
6	400	1371	1681
8	280	--	1991

PVC SDR-26, SDR-21, CAN BE USED ON  
JET OR SUBMERSIBLE PUMPS OF 1 HP OR LESS.

MAXIMUM DEPTH SETTINGS TO WATER LEVEL IN FT @ 73.4° F			
CRESLINE PVC PRESSURE PIPE	MAX. TANK SHUT-OFF PRESSURE		
	40 PSI	50 PSI	60 PSI
ANY SIZE PVC SDR-26	275'	255'	230'
ANY SIZE PVC SDR-21	365'	345'	320'

**PPFA** AMERICAN  
PLASTIC PIPE  
AND FITTINGS  
ASSOCIATION



POTABLE WATER

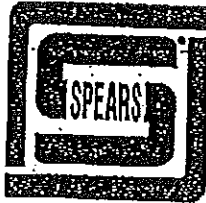
**CRESLINE PLASTIC PIPE CO., INC.**

955 Diamond Ave  
264 Silver Spring Rd.  
2100 South 35th St.  
3801 East Hwy. 31

Evansville, IN 47711  
Mechanicsburg, PA 17050  
Council Bluffs, IA 51501  
Corsicana, TX 75109

812-428-9350  
717-766-2566  
712-322-2294  
903-872-8475

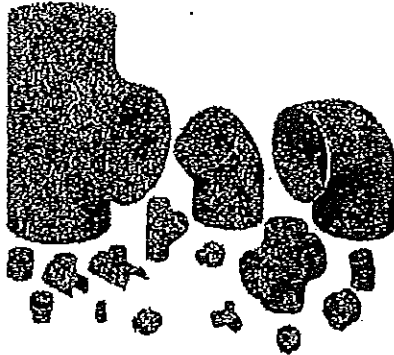
Fax 812-428-9353  
Fax 717-697-2371  
Fax 712-322-6673  
Fax 903-872-7732



## PVC SCHEDULE 40 FITTINGS

40-2-0604

### Performance Engineered & Tested



SPEARS® Schedule 40 PVC fitting designs combine years of proven experience with computer generated stress analysis to yield the optimum physical structure and performance for each fitting. Material reinforcement is uniformly placed in stress concentration areas for substantially improved pressure handling capability. Resulting products are subjected to numerous verification tests to assure the very best PVC fittings available.

#### Full 1/4" Through 12" Availability

Spears® comprehensive line of PVC fittings offers a variety of injection molded configurations in Schedule 40 sizes 1/4" through 12" conforming to ASTM D 2466.

#### Exceptional Chemical & Corrosion Resistance

Unlike metal, PVC fittings never rust, scale, or pit, and will provide many years of maintenance-free service and extended system life.

#### High Temperature Ratings

PVC thermoplastic can handle fluids at service temperatures up to 140°F (60°C), allowing a wide range of process applications, including corrosive fluids.

#### Lower Installation Costs

Substantially lower material costs than steel alloys or lined steel, combined with lighter weight and ease of installation, can reduce installation costs by as much as 60% over conventional metal systems.

#### Higher Flow Capacity

Smooth interior walls result in lower pressure loss and higher volume than conventional metal fittings.

#### Additional Fabricated Configurations through 36"

Extra large, hard-to-find, and custom configurations are fabricated from NSF Certified pipe. Fittings are engineered and tested to provide full pressure handling capabilities according to Spears® specifications.

#### PVC Valves

SPEARS® PVC Valve products are available for total system compatibility and uniformity; see SPEARS® THERMOPLASTIC VALVES PRODUCT GUIDE & ENGINEERING SPECIFICATIONS (V-4).

#### Advanced Design Specialty Fittings

Spears® wide range of innovative, improved products include numerous metal-to-plastic transition fittings and unions with Spears® patented special reinforced (SR) plastic threads.

#### Sample Engineering Specifications

All PVC Schedule 40 fittings shall be produced by Spears® Manufacturing Company from PVC Type I cell classification 12454, conforming to ASTM D 1784. All injection molded PVC Schedule 40 fittings shall be Certified for potable water service by NSF International and manufactured in strict compliance to ASTM D 2466. All fabricated fittings shall be produced in accordance with Spears® General Specifications for Fabricated Fittings.



**PROGRESSIVE PRODUCTS FROM SPEARS® INNOVATION & TECHNOLOGY**

Visit our web site: [www.spearsmfg.com](http://www.spearsmfg.com)

JSC 02819 June 117C

item 3

2 1/2 smaller

**SECTION 1** **MEDIUM CLEAR PVC CEMENT**

**IDENTITY OF MATERIAL**

Trade Name: OATEY MEDIUM CLEAR PVC CEMENT

Product Numbers: 31017, 31018, 31019, 31020, 31021

Formula: PVC Resin in Solvent Solution

Synonyms: PVC Plastic Pipe Cement

Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>

Oatey Phone Number: (216) 267-7100

Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300

**SECTION 2** **COMPOSITION**

**INGREDIENTS:**

	%	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA:	OTHER:
Acetone	0 - 1%	67-64-1	500 ppm	1000 ppm	
Cyclohexanone	5 - 10%	108-94-1	750 ppm STEL		
Tetrahydrofuran	30 - 40%	109-99-9	25 ppm (skin)	50 ppm	
			200 ppm	200 ppm	25 ppm (Mfg)
Methyl Ethyl Ketone	30 - 48%	78-93-3	750 ppm STEL		
PVC Resin	10 - 16%	9002-86-2	200 ppm	200 ppm	
(Non-Hazardous)			10 mg/m3	15 mg/m3	
Amorphous Fumed Silica	1 - 3%	112945-52-5	10 mg/m3	None	
(Non-hazardous)				Established	

**SECTION 3** **EMERGENCY OVERVIEW**

Clear liquid with an ether-like odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed.

NFPA Hazard Signal: Health: 2 Stability: 1 Flammability: 3 Special: None

HMIS Hazard Signal: Health: 3 Stability: 1 Flammability: 3 Special: None

OSHA Hazard Classification: Flammable, irritant, organ effects

Canadian WHIMS Classification: Class B, Division 1; Class D, Division 2, Subdivision B

**SECTION 4** **EMERGENCY AND FIRST AID PROCEDURES - CALL 1-303-623-5716 COLLECT**

**Skin:** Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with Oatey Plumber's Hand Cleaner or baby oil.

**Eyes:** If material gets into eyes or if fumes cause irritation, immediately flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

**Inhalation:** If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

MEDIUM CLEAR PVC CEMENT**SECTION 9****EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Ventilation:** Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.
- Respiratory Protection:** For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.
- Skin Protection:** Rubber gloves are suitable for normal use of the product. For long exposures product chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.
- Eye Protection:** Safety glasses with sideshields or safety goggles.
- Other:** Eye wash and safety shower should be available.

**SECTION 10****PHYSICAL AND CHEMICAL PROPERTIES**

- Boiling Point:** 151 Degrees F / 66 C
- Melting Point:** N/A
- Vapor Pressure:** 145 mmHg @ 20 Degrees C
- Vapor Density:** (Air = 1) 2.5
- Volatile Components:** 86-90%
- Solubility In Water:** Negligible
- pH:** N/A
- Specific Gravity:** 0.91 +/- 0.02
- Evaporation Rate:** (BUAC = 1) = 5.5 - 8.0
- Appearance:** Clear Liquid
- Odor:** Ether-Like
- Will Dissolve In:** Tetrahydrofuran
- Material Is:** Liquid

**SECTION 11****STABILITY AND REACTIVITY**

- Stability:** Stable.
- Conditions To Avoid:** Avoid heat, sparks, flames and other sources of ignition.
- Hazardous Decomposition Products:** Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.
- Incompatibility/ Materials To Avoid:** Oxidizing agents, alkalies, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, leather and rubber.
- Hazardous Polymerization:** Will not occur.

**SECTION 12****DISPOSAL INFORMATION**

- Waste Disposal:** Dispose in accordance with current local, state and federal regulations.



**MEDIUM CLEAR PVC CEMENT**

**SECTION 14 TRANSPORTATION INFORMATION**

<b>DOT</b>	<u>Less than 1 Liter (0.3 gal)</u>	<u>Greater than 1 Liter (0.3 gal)</u>
Proper Shipping Name:	Consumer Commodity	Adhesives
Hazard Class/Packing Group:	ORM-D	3, PGII
UN/NA Number:	None	UN1133
Hazard Labels:	None	Flammable-Liquid

**IMDG**

Proper Shipping Name:	Adhesives	Adhesives
Hazard Class/Packing Group:	3, II	3, II
UN Number:	UN1133	UN1133
Label:	None (Limited Quantities are excepted from labeling)	Class 3 (Flammable Liquid)

RCRA Hazardous Waste Number: U002, U057, U213  
 EPA Hazardous Waste ID Number: D001, D035, F001, F005  
 EPA Hazard Waste Class: Ignitable Waste, Toxic Waste (Methyl Ethyl Ketone content)

**SECTION 15 REGULATIONS**

Hazard Category for Section 311/312: Acute Health, Chronic Health, Flammable

Section 302 Extremely Hazardous Substances (TPQ): This product does not contain chemicals regulated under SARA Section 302.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

<u>Chemical</u>	<u>CAS #</u>	<u>%</u>
Methyl Ethyl Ketone	78-93-3	30-48%

CERCLA 103 Reportable Quantity:

Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Tetrahydrofuran (40% maximum) of 1,000 lbs, is 2,500 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65:

This product contains trace amounts of chemicals known to the State of California to cause cancer. Under normal use conditions, exposures to these chemicals at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely. Oatey strongly encourages the use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 9 to minimize exposure to these chemicals. All of the components of this product are listed on the TSCA Inventory.

TSCA Inventory:

**SECTION 16 DISCLAIMER**

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

**PURPLE PRIMER NSP****SECTION 5 FIRE FIGHTING MEASURES**

Flashpoint / Method: 0 - 5 Degrees F. / PMCC

Flammability: LEL = 1.8 % Volume, UEL = 11.5 % Volume

Extinguishing Media: Use dry chemical, CO<sub>2</sub>, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Special Fire Fighting Procedure: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored

Unusual Fire and Explosion Hazards: Extremely flammable liquid. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age. Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Hazardous Decomposition Products:

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See Section 12 for disposal information.

**SECTION 7 HANDLING AND STORAGE**Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. ~~Do not eat, drink or smoke in the work area.~~ Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.  
Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.  
Other: "Empty" containers retain product residue and can be hazardous. Follow all MSDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.**SECTION 8****ECOLOGICAL INFORMATION**

This product is not expected to be toxic to aquatic organisms.

Cyclohexanone: 96-hour LC50 values for fish is over 100 mg/L.

Tetrahydrofuran: 96-hour LC50 fathead minnow: 2160 mg/L.

Methyl Ethyl Ketone: 96-hour LC50 for fish is greater than 100 mg/L.

Acetone: 96-hour LC50 for fish is greater than 100 mg/L.

This product emits VOC's (volatile organic compounds) in its use.

Make sure that use of this product complies with local VOC emission regulations, where they exist.

850 g/l per SCQMD Test Method 316A.

VOC Information:

VOC Level:

## SECTION 13

## PURPLE PRIMER NSF

## Inhalation:

## TOXICOLOGICAL INFORMATION

Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness.

## Skin:

May cause kidney, liver and lung damage.

## Eye:

May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation. Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.

## Ingestion:

Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.

## Chronic

## Toxicity:

## Toxicity Data:

Prolonged or repeated overexposure cause dermatitis and damage to the kidney, liver, lungs and central nervous system.

Acetone:

Oral rat LD50: 5,800 mg/kg

Inhalation rat LC50: 50,100 mg/m<sup>3</sup>/8 hours

Cyclohexanone:

Oral rat LD50: 1,620 mg/kg

Inhalation rat LC50: 8,000 ppm/4 hours

Tetrahydrofuran:

Skin rabbit LD50: 1 mL/kg

Oral rat LD50: 1,650 mg/kg

Inhalation rat LC50: 21,000 ppm/3 hours

Methyl Ethyl Ketone:

Oral rat LD50: 2,737 mg/kg

Inhalation rat LC50: 23,500 mg/m<sup>3</sup>/8 hours

Skin rabbit LD50: 6,480 mg/kg

## Sensitization:

## Carcinogenicity:

None of the components are known to cause sensitization. None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA. The National Toxicology Program has reported that exposure of mice and rats to Tetrahydrofuran (THF) vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an increased incidence of kidney tumors in male rats and liver tumors in female mice. The significance of

## Mutagenicity:

these findings for human health are unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF. Acetone has been positive in a mammal cell cytogenic analysis but negative in many other assays. At most, acetone is weakly genotoxic. Cyclohexanone has been positive in bacterial and mammalian assays. Tetrahydrofuran was positive in a bacterial assay. Methyl ethyl ketone is not considered genotoxic based on laboratory studies.

## Reproductive

## Toxicity:

Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran have been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.

## Medical

## Conditions

## Aggravated By

## Exposure:

Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

PFT300

# Threaded Gate Valves



## Product Features

- Economy Brass Gate Valve
- Threaded ends
- Solid wedge disc
- Non-rising Stem
- Pressure Rating: 200 WOG
- Not steam rated

## Product Specifications

Model	Size	L	H	D	W
PFT300F	3/4	43.5	72	64	14.5
PFT300G	1	53	88	61	24
PFT300H	1-1/4	53	98	61	24
PFT300J	2	61	125	77	37.5
PFT300K	3	87	186	105	63
PFT300L	4	100.5	222	120	75

ID	PART	MATERIAL	SPEC. JIS	SPEC. ASTM
1	Flange Plate	Aluminum	A1100P	B209-T300
2	Gate	Brass	C3604B	B16-C36000
3	Stem	Brass	C3604B	B16-C36000
4	Wedge	Brass	C3604B	B16-C36000
5	Disc	Brass	C3604B	B16-C36000
6	Bracket	Cast Brass	YBSC3	8504-C85700
7	Disc	Cast Brass	YBSC3	8504-C85700
8	Disc	Cast Brass	YBSC3	8504-C85700

## Warranty and Codes

This PROFLO product carries a 1-year limited warranty.

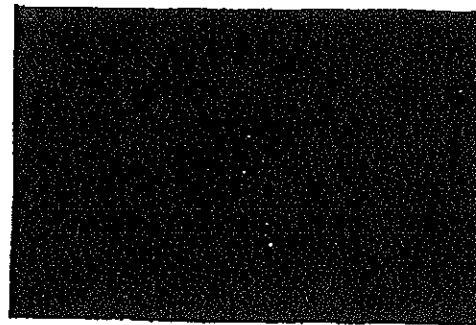


Compliant with NSF 61

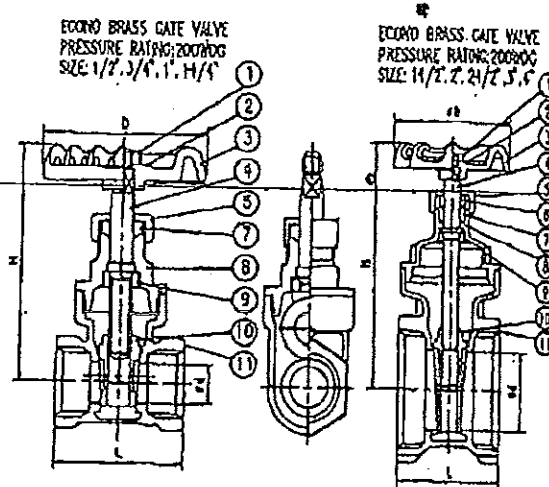
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0177 10/07



PFT300D



SPEC 02819

PARA

ITEM 1

Specification Grade

1220

6' Jumbo Extension

Carson Industries, LLC

1160 Nicole Court

Glendora, CA 91740

800-735-5566 • 909-592-6272

Fax: 909-592-7971

www.carsonind.com

RAW MATERIAL  
SPECIFICATIONS

HDPE Structural Foam

Material Property	ASTM Test Method	Typical Value <sup>1</sup>
Type, Class, Category	D 1248	III, A, 3
Density, g/cm <sup>3</sup>	D 1505	0.950 min., not to exceed 0.965
Tensile Strength, at break, psi	D 638	3,000 to 4,400
Elongation, at break, %	D 638	400
Tensile Impact, ft-lb/in <sup>2</sup>	D 1822	27
Flexural Modulus, psi	D 790	120,000 min., not to exceed 240,000
Low Temperature Brilleness, F50, at °C	D 746	<-76
Hardness, Shore D	D 2240	66
Deflection Temperature, at 66 psi	D 648	150° min., not to exceed 200°
Electrical Dielectric Strength, V/mil	D 149	400 min., not to exceed 600

Molded Product<sup>2</sup>

Chemical Resistance	D 543	Very Resistant
Water Absorption	D 570	Less than 1% weight change

<sup>1</sup>The values listed for physical property measurements are nominal values only. Certain physical property measurements are subject to variations consistent with the test methods and are within a generally accepted range for such values.

<sup>2</sup>Test reports available on request.

12/18/02

SHIPPING INFORMATION

Unit, 28 assemblies = 51.33 cu. ft.; 330.0 lbs.  
Unit, 32 extensions only = 210.0 lbs.

Weight

1220-3, -4, -5 Covers	4 lbs.
1220-6 Covers	6 lbs.
1220-6X Extension Body	6 lbs.

Shipping Configuration

Unit, 28 assemblies = 51.33 cu. ft.; 330.0 lbs.  
Unit, 32 extensions only = 210.0 lbs.

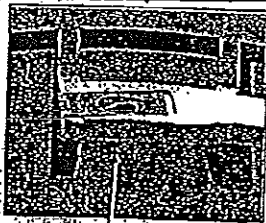
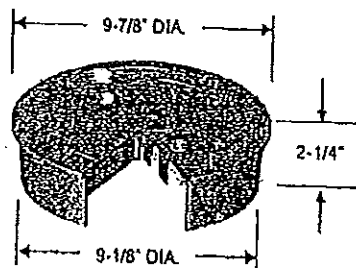
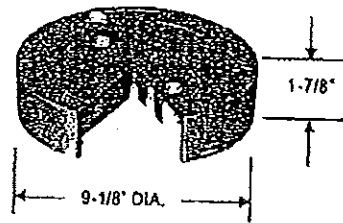
**CARSON**  
INDUSTRIES LLC  
SPECIFIED AND PREFERRED WORLDWIDE

1160 Nicole Court  
Glendora, CA 91740  
800-735-5566 • 909-592-6272  
Fax: 909-592-7971  
www.carsonind.com

Specification Grade

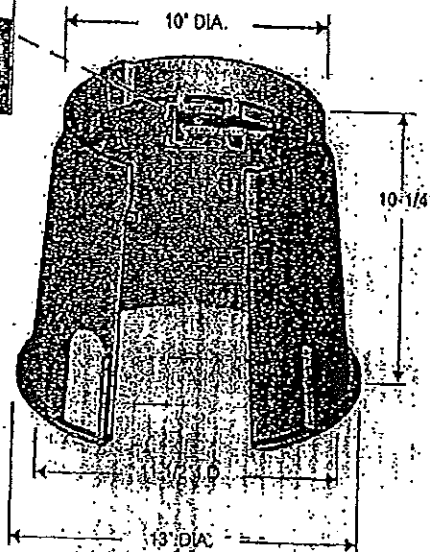
**910**

**10" Round**



**Bolt Down Loc-Kit™**  
(Patent Pending)

See options Page for details



**FLUSH COVER**  
Model

910

**T-COVER**  
Model

910

**10\"/>**

910

Colors: Brown, Gray, Black, Tan  
or Yellow/Orange

Note: This is a standard size and  
weight. Variations in size and  
weight are possible due to  
manufacturing tolerances and  
material variations.

Note: This is a standard size and  
weight. Variations in size and  
weight are possible due to  
manufacturing tolerances and  
material variations.





Specification Grade

**910****10" Round****RAW MATERIAL  
SPECIFICATIONS****HDPE Structural Foam**

Material Property	ASTM Test Method	Typical Value <sup>1</sup>
Type, Class, Category	D 1248	II, A, 3
Density, g/cm <sup>3</sup>	D 1505	0.950 min., not to exceed 0.965
Tensile Strength, at break, psi	D 638	3,000 to 4,400
Elongation, at break, %	D 638	400
Tensile Impact, ft-lb/in <sup>2</sup>	D 1822	27
Flexural Modulus, psi	D 790	120,000 min., not to exceed 240,000
Low Temperature Brittleness, F50, at°C	D 746	<-76
Hardness, Shore D	D 2240	66
Deflection Temperature, at 66 psi	D 648	150° min., not to exceed 200°
Electrical Dielectric Strength, V/mil	D 149	400 min., not to exceed 600

**Molded Product<sup>2</sup>**

Chemical Resistance	D 543	Very Resistant
Water Absorption	D 570	Less than 1% weight change

<sup>1</sup>The values listed for physical property measurements are nominal values only. Certain physical property measurements are subject to variations consistent with the test methods and are within a generally accepted range for such values.

<sup>2</sup>Test reports available on request.

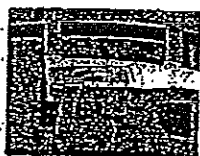
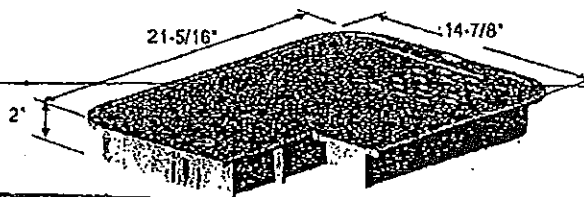
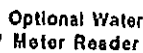
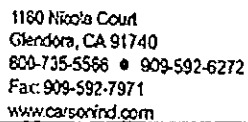
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**SHIPPING INFORMATION****Weight**

Body &amp; Cover 4.5 lbs.

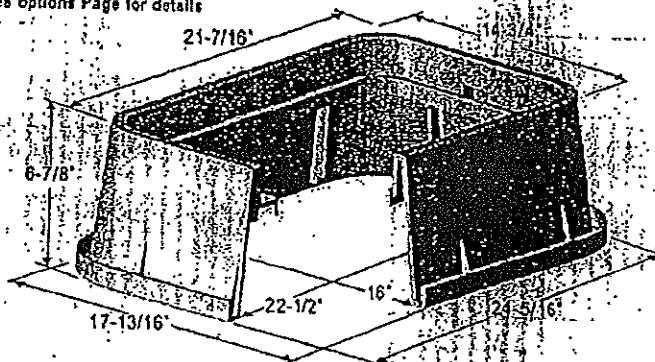
Unit, 99 assemblies = 42.25 cu. ft., 395.0 lbs.





**Bolt Down Lock-Kit™**  
(Patent Pending)

**See options Page for details**



1220

## 6" Jumbo Extension

**FLUSH COVER**  
Model 1415

1258

1220-559 With plastic Bead

2205 W. Northwest Iron Road

## HEADOVER Models

125425

# EXTENSION BODY

22

COLORS AVAILABLE: Gray, black, tan or white.

Note: For use in nonclinical research situations only. Use to rapidly estimate installation in concrete or asphalt slabs and dimensions may vary.

# Class 150 Bronze Gate Valves

Bolted Bonnet • Rising Stem • Solid Wedge

150 PSI/10.3 Bar Saturated Steam to 366° F/185° C  
300 PSI/20.7 Bar Non-Shock Cold Working Pressure

CONFORMS TO MSS SP-80

## MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	300 Series Stainless Steel
2. Identification Plate	Aluminum
3. Handwheel	Aluminum Commercial Alloy 380
4. Stem	Silicon Bronze ASTM B 371 Alloy C89400/C89430
5. Packing Nut	Bronze ASTM B 62 or ASTM B 584 Alloy C84400 or Brass ASTM B 16
6. Packing Gland	Bronze ASTM B 62 or ASTM B 584 Alloy C84400 or Brass ASTM B 16
7. Packing	Aramid Fibers with Graphite
8. Bonnet	Bronze ASTM B 62
9. Bonnet Bolt	Zinc Plated Steel
10. Bonnet Gasket	Aramid Fibers with Graphite
11. Wedge	Bronze ASTM B 62
12. Body	Bronze ASTM B 62

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						T-134		S-134		Master Ctn. Qty	
	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.		
4	100	6.44	164	20.81	529	2.58	90	45.69	20.72	43.99	18.94	1

SPEC 02819

PANA

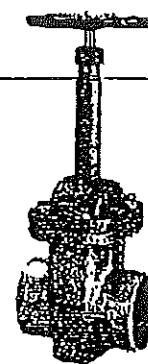
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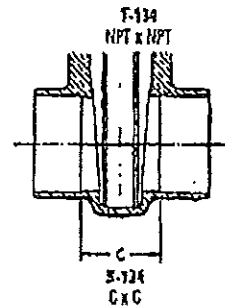
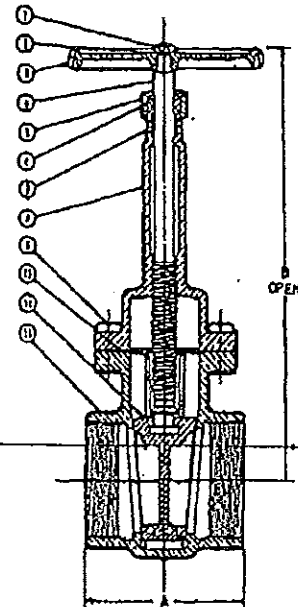
3' UNDER



T-134  
Threaded



S-134  
Solder



Prezing Weather Protection - Subsequent to testing a piping system, valves should be in an open position to allow complete drainage.

\* For detailed Operating Pressure, refer to Pressure Temperature Chart on page 110.

**PURPLE PRIMER NSF**  
**SECTION 14 TRANSPORTATION INFORMATION**  
 DOT Less than 1 Liter (0.3 gal) Greater than 1 Liter (0.3 gal)  
 Proper Shipping Name: Consumer Commodity Adhesives  
 Hazard Class/Packing Group: ORM-D 3, PGII  
 UN/NA Number: None UN1133  
 Hazard Labels: None Flammable Liquid

IMDG  
 Proper Shipping Name: Adhesives Adhesives  
 Hazard Class/Packing Group: 3, II 3, II  
 UN Number: UN1133 UN1133  
 Label: None (Limited Quantities are excepted from labeling) Class 3 (Flammable Liquid)

RCRA Hazardous Waste Number: U002, U057, U159, U213  
 EPA Hazardous Waste ID Number: D001, D035, F003, F005  
 EPA Hazard Waste Class: Ignitable Waste, Toxic Waste (Methyl Ethyl Ketone content)

**SECTION 15 REGULATIONS**  
 Hazard Category for Section 311/312: Acute Health, Chronic Health, Flammable  
 Section 302 Extremely Hazardous Substances (TPQ): This product does not contain chemicals regulated under SARA Section 302.  
 Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:  

Chemical	CAS #	%
Methyl Ethyl Ketone	78-93-3	70-80%

CERCLA 103 Reportable Quantity:

Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Methyl Ethyl Ketone (80% maximum) of 5,000 lbs, is 6,250 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65:

This product contains trace amounts of chemicals known to the State of California to cause cancer. Under normal use conditions, exposures to these chemicals at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely. Oatey strongly encourages the use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 9 to minimize exposure to these chemicals.  
 All of the components of this product are listed on the TSCA inventory.

TSCA Inventory:

**SECTION 16 DISCLAIMER**  
 The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

**PURPLE PRIMER NSF****SECTION 9 EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Ventilation:** Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.
- Respiratory Protection:** For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.
- Skin Protection:** Rubber gloves are suitable for normal use of the product. For long exposures product chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.
- Eye Protection:** Safety glasses with sideshields or safety goggles.
- Other:** Eye wash and safety shower should be available.

**SECTION 10 PHYSICAL AND CHEMICAL PROPERTIES**

- Boiling Point:** 174 Degrees F / 79 C
- Melting Point:** N/A
- Vapor Pressure:** 70 mmHg @ 20 Degrees C
- Vapor Density:** (Air = 1) 2.5
- Volatile Components:** 99.96%
- Solubility In Water:** Negligible
- pH:** N/A
- Specific Gravity:** 0.84 +/- 0.02
- Evaporation Rate:** (BUAC = 1) = 5.5 - 8.0
- Appearance:** Purple Liquid
- Odor:** Ether-Like
- Will Dissolve In:** Organic solvents
- Material Is:** Liquid

**SECTION 11 STABILITY AND REACTIVITY**

- Stability:** Stable.
- Conditions To Avoid:** Avoid heat, sparks, flames and other sources of ignition.
- Hazardous Decomposition Products:** Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.
- Incompatibility/ Materials To Avoid:** Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxide. May attack plastic, resins and rubber.
- Hazardous Polymerization:** Will not occur.

**SECTION 12 DISPOSAL INFORMATION**

- Waste Disposal:** Dispose in accordance with current local, state and federal regulations.

SPC 02479 Para 1.3c

Item 3

**SECTION 1** **PURPLE PRIMER NSF**  
**Trade Name:** OATEY PURPLE PRIMER NSF  
**Product Numbers:** 30755, 30756, 30757, 30758, 30759, 30927  
**Formula:** Organic Solvents  
**Synonyms:** Methyl Ethyl Ketone, Cyclohexanone, Acetone and Tetrahydrofuran  
**Firm Name & Address:** OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>  
**Oatey Phone Number:** (216) 267-7100  
**Emergency Phone Numbers:** For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300

2 1/2 x smaller

<b>SECTION 2</b>		<b>COMPOSITION</b>			
<b>INGREDIENTS:</b>		<b>%</b>	<b>CAS NUMBER:</b>	<b>ACGIH TLV TWA:</b>	<b>OSHA PEL TWA: OTHER:</b>
Acetone		0 - 1%	67-64-1	500 ppm	1000 ppm
Cyclohexanone		15 - 20%	108-94-1	750 ppm STEL	
Tetrahydrofuran		10 - 15%	109-99-9	25 ppm (skin)	50 ppm
Methyl Ethyl Ketone		70 - 80%	78-93-3	200 ppm	200 ppm
Violet Dye		0 - 1%	81-48-1	750 ppm STEL	25 ppm (Mfg)
(Non-hazardous)				200 ppm	200 ppm
Red Dye		0 - 1%	4477-79-6	None	None
(Non-hazardous)				Established	Established
				None	None
				Established	Established

**SECTION 3 EMERGENCY OVERVIEW**

Purple liquid with an ether-like odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed.

NFPA Hazard Signal: Health: 2 Stability: 1 Flammability: 3 Special: None  
 HMIS Hazard Signal: Health: 3 Stability: 1 Flammability: 3 Special: None  
 OSHA Hazard Classification: Flammable, irritant, organ effects  
 Canadian WHMIS Classification: Class B, Division 1; Class D, Division 2, Subdivision B

**SECTION 4****EMERGENCY AND FIRST AID PROCEDURES - CALL 1-303-623-5716 COLLECT**

**Skin:** Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with Oatey Plumber's Hand Cleaner or baby oil.

**Eyes:** If material gets into eyes or if fumes cause irritation, immediately flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

**Inhalation:** If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

MEDIUM CLEAR PVC CEMENT

SECTION 13	TOXICOLOGICAL INFORMATION
Inhalation:	Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.
Skin:	May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.
Eye:	Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.
Ingestion:	Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.
Chronic Toxicity:	Prolonged or repeated overexposure cause dermatitis and damage to the kidney, liver, lungs and central nervous system.
Toxicity Data:	Acetone: Oral rat LD50: 5,800 mg/kg Inhalation rat LC50: 50,100 mg/m <sup>3</sup> /8 hours Cyclohexanone: Oral rat LD50: 1,620 mg/kg Inhalation rat LC50: 8,000 ppm/4 hours Skin rabbit LD50: 1 mL/kg Tetrahydrofuran: Oral rat LD50: 1,650 mg/kg Inhalation rat LC50: 21,000 ppm/3 hours Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg Inhalation rat LC50: 23,500 mg/m <sup>3</sup> /8 hours Skin rabbit LD50: 6,480 mg/kg
Sensitization:	None of the components are known to cause sensitization.
Carcinogenicity:	None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA. The National Toxicology Program has reported that exposure of mice and rats to Tetrahydrofuran (THF) vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an increased incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health are unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF.
Mutagenicity:	Acetone has been positive in a mammal cell cytogenic analysis but negative in many other assays. At most, acetone is weakly genotoxic. Cyclohexanone has been positive in bacterial and mammalian assays. Tetrahydrofuran was positive in a bacterial assay. Methyl ethyl ketone is not considered genotoxic based on laboratory studies.
Reproductive Toxicity:	Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran have been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.
Medical Conditions Aggravated By Exposure:	Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

MEDIUM CLEAR PVC CEMENT**SECTION 5 FIRE FIGHTING MEASURES**

Flashpoint / Method: 0 - 5 Degrees F. / PMCC

Flammability: LEL = 1.8 % Volume, UEL = 11.8 % Volume

Extinguishing: Use dry chemical, CO<sub>2</sub>, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Media: exposed container with water. Water may be ineffective as an extinguishing agent.

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Special Fire Fighting Procedure: Unusual Fire and Explosion Hazards: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Extremely flammable liquid. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age. Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

---

Hazardous Decomposition Products:

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See Section 12 for disposal information.

**SECTION 7 HANDLING AND STORAGE**

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

---

Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

---

Other: "Empty" containers retain product residue and can be hazardous. Follow all MSDS precautions in handling empty containers. Do not cut, weld on or near empty or full containers.

**SECTION 8 ECOLOGICAL INFORMATION**

This product is not expected to be toxic to aquatic organisms.

Cyclohexanone: 96 hour LC50 values for fish is over 100 mg/L.

Tetrahydrofuran: 96 hour LC50 fathead minnow 2450 mg/L.

Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L.

Acetone: 96 hour LC50 for fish is greater than 100 mg/L.

VOC Information: This product emits VOC's (volatile organic compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.

VOC Level: 600 g/l per SCAQMD Test Method 316A.

## PVC Thermoplastic Pipe Temperature Pressure De-Rating

To determine the maximum internal pressure rating at an elevated temperature, simply multiply the pipe pressure rating at 73°F by the percentage specified for the desired temperature.

System Operating Temperature °F (°C)	73 (23)	80 (27)	90 (32)	100 (38)	110 (43)	120 (49)	130 (54)	140 (60)
PVC	100%	90%	75%	62%	50%	40%	30%	22%

NOTE: Valves, Unions and Specialty Products have different elevated temperature ratings than pipe.

### PVC Basic Physical Properties

Properties	ASTM Test Method	PVC
Mechanical Properties, 73°F		
Specific Gravity, g/cm³	D 792	1.41
Tensile Strength, psi	D 638	7,200
Modulus of Elasticity, psi	D 638	440,000
Compressive Strength, psi	D 695	9,000
Flexural Strength, psi	D 790	13,200
Izod Impact, notched, ft-lb/in	D 256	.65
Thermal Properties		
Heat Deflection Temperature, °F at 66 psi	D 848	165
Thermal Conductivity, BTU/in/sq ft/°F/in	C 177	1.2
Coefficient of Linear Expansion, in/in/°F	D 696	3.1 X 10⁵
Flammability		
Limiting Oxygen Index, %	D 2863	43
UL 94 rating	94V-0	
Other Properties		
Water Absorption, % 24 hr.	D 570	.05
Industry Standard Color	White / Dark Gray	
ASTM Cell Classification	D 1784	12454
NSF Potable Water Approved	Yes	

### PVC Chemical Resistance

PVC is generally inert to most mineral acids, bases, salts and paraffinic hydrocarbon solutions. For more information on PVC chemical resistance refer to the Chemical Resistance of Rigid Vinyls Based on Immersion Test, published by the GEON® Company.

### NOT FOR USE WITH COMPRESSED AIR OR GAS

Spears® Manufacturing Company DOES NOT RECOMMEND the use of thermoplastic piping products for systems to transport or store compressed air or gases, or the testing of thermoplastic piping systems with compressed air or gases in above and below ground locations. The use of our product in compressed air or gas systems automatically voids any warranty for such products, and its use against our recommendation is entirely the responsibility and liability of the installer.

**WARNING: DO NOT USE COMPRESSED AIR OR GAS TO TEST ANY PVC OR CPVC THERMOPLASTIC PIPING PRODUCT OR SYSTEM, AND DO NOT USE DEVICES PROPELLED BY COMPRESSED AIR OR GAS TO CLEAR SYSTEMS. THESE PRACTICES MAY RESULT IN EXPLOSIVE FRAGMENTATION OF SYSTEM PIPING COMPONENTS CAUSING SERIOUS OR FATAL BODILY INJURY.**



### SPEARS® MANUFACTURING COMPANY • CORPORATE OFFICE

15853 Olden St., Sylmar, CA 91342 • PO Box 9203, Sylmar, CA 91392  
(818) 364-1611 • www.spearsmfg.com



**PACIFIC SOUTHWEST**  
15850 Olden St.  
Sylmar (Los Angeles), CA 91342  
(818) 364-1611 • (800) 662-1189  
Fax (818) 367-3014

**ROCKY MOUNTAIN**  
4880 Florence St.  
Denver, CO 80238  
(303) 371-9130 • (800) 777-4154  
Fax (303) 375-9548

**UTAH**  
1641 South 700 West  
Salt Lake City, UT 84104  
(801) 972-0659  
Fax (801) 972-0668

**SOUTHEAST**  
4206 N. Highway 101, Suite 100  
Lawrenceville (Atlanta), GA 30043  
(678) 533-1263 • (800) 662-6326  
Fax (678) 685-6842

**MIDWEST**  
1 Gateway Ct., Suite A  
Bolingbrook (Chicago), IL 60440  
(630) 759-7529 • (800) 662-6330  
Fax (630) 759-7515

**NORTHWEST**  
4103 G St. NE Suite 200  
Bellevue (Seattle), WA 98002  
(206) 839-4430 • (800) 347-7377  
Fax (206) 839-7557

**SOUTH CENTRAL**  
4250 Patriot Dr., Suite 300  
Grapevine (Dallas), TX 76051-2317  
(972) 691-4003 • (800) 441-1437  
Fax (972) 691-4404

**NORTHEAST**  
590 Industrial Dr., Suite 100  
Levittown (Harrisburg), PA 17339-9532  
(717) 938-5814 • (800) 233-0275  
Fax (717) 938-6547

**FLORIDA**  
5553 Park South Court  
Orlando, FL 32817  
(407) 843-1960 • (800) 327-6350  
Fax (407) 425-3563

**INTERNATIONAL SALES**  
15853 Olden St.  
Sylmar (Los Angeles), CA 91342  
(818) 364-1611 • Fax (818) 696-3774  
E-mail: export@spearsmfg.com





# Dura Plastic Products, Inc.

# CERTIFICATE OF COMPLIANCE

**To Whom It May Concern:**

This is to certify that all Dura Plastic Products marked NSF meet or exceed applicable ASTM standards. This includes Clear Fittings, and we further certify that the material, from which our clear fittings are manufactured, has FDA approval.

We certify that where physical and/or chemical test requirements are part of the specification Dura Plastics has performed those tests to substantiate this certification.

PVC Schedule 40, 80, Inserts and molded pipe nipples are produced from Type I Grade I Cell Classification 12454-B material. Standards and approvals are as follows:

- ASTM D2609 -- PVC (Poly Vinyl Chloride) Insert Fittings
- ASTM D2464 -- PVC (Poly Vinyl Chloride) Schedule 80, Molded Pipe Nipples Thread Specification. Threads conform to ANSI/ASME B1.20.1 as per standard.
- ASTM D2466 -- PVC (Poly Vinyl Chloride) Schedule 40
- ASTM D3139 -- Specification for plastic pressure pipe using flexible elastomeric seals...IB.

Dan-Plastic Products is a California based manufacturing company. We certify that all PVC classifications listed above are manufactured in the United States of America.

Dura Plastic Products Inc. is listed for potable water service under file # 31300 with the National Sanitation Foundation (NSF) Ann Harbor, Michigan. (313) 769-8010

NSF is a non-profit organization established to Qualify - Inspect - Control all plastic fittings to ASTM (American Society for Testing and Materials) specifications.

Current Resin Producer: THE GEON COMPANY

Sincerely,

### Technical Services

## QUANTIFICATION

SPEC 02819 Para 1.3c 2 1/2" smaller

**CRESLINE®**  
CRESLINE PLASTIC PIPE CO., INC.

PVC PRESSURE PIPE  
SDR-26 & SDR-21

FORM NO. 761 LW SPECIFICATIONS

PRICES ARE LISTED ON FORM MLP-2.

FITTINGS ARE LISTED ON FORM 766 LW.


PVC CEMENT ON FORM 466.

PLEASE ORDER BY PART NUMBER.


FEBRUARY, 2003

NSE

POTABLE WATER

SDR-26 PRESSURE PIPE 160 PSI PVC1120 ASTM D-2241  POTABLE WATER	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
	1 1/4"	1.660	.064	20.93	2.750	4000	32	45243
	1 1/2"	1.900	.073	27.31	3.000	3600	28	45280
	2"	2.375	.091	42.51	3.000	2800	24	45345
	2 1/2"	2.875	.110	62.13	3.500	2240	20	45410
	3"	3.500	.135	92.81	4.000	1500	20	45470
	4"	4.500	.173	156.97	5.000	580	28	47075
	6"	6.625	.255	342.71	6.500	400	20	47120
	8"	8.625	.332	581.78	7.000	280	16	47735

NOTE: 8" SDR-26 IS DUAL MARKED FOR SCH-40 PIPE.

SDR-21 PRESSURE PIPE 200 PSI PVC1120 ASTM D-2241  POTABLE WATER	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
	1 1/4"	.840	.062	9.81	2.000	8400	44	46105
	1 1/2"	1.050	.060	12.11	2.125	6600	40	46157
	1"	1.315	.063	16.17	2.375	5400	32	46207
	1 1/4"	1.660	.079	25.59	2.750	4000	32	46243
	1 1/2"	1.900	.090	33.32	3.000	3600	28	46285
	2"	2.375	.113	52.32	3.000	2800	24	46345
	2 1/2"	2.875	.137	76.53	3.500	2240	20	46410
	3"	3.500	.167	113.71	4.000	1500	20	46470
	4"	4.500	.214	192.22	5.000	580	28	47275
	6"	6.625	.316	420.11	6.500	400	20	47320
	8"	8.625	.410	710.96	7.000	280	16	47335

SDR 13.5 - 315 PSI

NOT RECOMMENDED FOR THREADING.

STANDARD LENGTH 20 FT. EXCEPT 4, 6 AND 8 IN. DIA. WHICH ARE 20 FT. LAYING LENGTH.

CRESLINE PLASTIC PIPE CO., INC.

955 Diamond Ave  
264 Silver Spring Rd.  
2100 South 35th St.  
3801 East Hwy. 31

Evansville, IN 47711  
Mechanicsburg, PA 17050  
Council Bluffs, IA 51501  
Corsicana, TX 75109

812-428-9350  
717-766-2566  
712-322-2294  
903-872-8475

Fax 812-428-9353  
Fax 717-697-2371  
Fax 712-322-6673  
Fax 903-872-7732

**PPFA** PLASTIC PIPE  
AND FITTINGS  
ASSOCIATION

02819 Part 1.3C 34 LARGER

**CRESLINE®**  
 CRESLINE PLASTIC PIPE CO., INC.

**PVC PRESSURE PIPE**  
**SDR-26 & SDR-21**

ITEM 1

FORM NO. 781LW SPECIFICATIONS

PRICES ARE LISTED ON FORM MLP-2.


FITTINGS ARE LISTED ON FORM 766 LW.

PVC CEMENT ON FORM 488.


PLEASE ORDER BY PART NUMBER.

MAY, 2006

**PPFA** PLASTIC PIPE  
FEDERATION  
AMERICAN

SDR-26 PRESSURE PIPE 160 PSI PVC1120 ASTM D-2241  POTABLE WATER	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
	1 1/2"	1.660	.064	20.83	2.750	4000	32	45243
	1 3/4"	1.900	.073	27.31	3.000	3600	28	45280
	2"	2.375	.091	42.51	3.000	2800	24	45345
	2 1/2"	2.875	.110	62.13	3.500	2240	20	45410
	3"	3.500	.135	92.81	4.000	1500	20	45470
	4"	4.500	.173	156.97	5.000	580	28	47076
	6"	6.625	.255	342.71	6.500	400	20	47120
	8"	8.625	.332	581.78	7.000	280	16	47735

NOTE: 8" SDR-26 IS DUAL MARKED FOR SCH-40 PIPE.

SDR-21 PRESSURE PIPE 200 PSI PVC1120 ASTM D-2241  POTABLE WATER	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
	1 1/2"	.840	.062	8.81	2.000	8400	44	46106
	1 3/4"	1.050	.060	12.11	2.125	6600	40	46157
	1"	1.315	.083	16.47	2.375	5400	32	46207
	1 1/4"	1.660	.079	25.59	2.750	4000	32	46243
	1 1/2"	1.900	.080	33.32	3.000	3600	28	46286
	2"	2.375	.113	52.32	3.000	2800	24	46345
	2 1/2"	2.875	.137	76.53	3.500	2240	20	46410
	3"	3.500	.167	113.71	4.000	1500	20	46470
	4"	4.500	.214	192.22	5.000	580	28	47275
	6"	6.625	.316	420.11	6.500	400	20	47320
	8"	8.625	.410	710.96	7.000	280	16	47335

\*SDR 13.5 - 315 PSI

NOT RECOMMENDED FOR THREADING.

STANDARD LENGTH 20 FT. EXCEPT 4, 6 AND 8 IN. DIA. WHICH ARE 20 FT. LAYING LENGTH.

CRESLINE PLASTIC PIPE CO., INC.

 800 Cross Points Blvd.  
 286 Silver Spring Rd.  
 2100 South 36th St.  
 3801 East Hwy. 31

 Evansville, IN 47715  
 Mechanicsburg, PA 17060  
 Council Bluffs, IA 51501  
 Corsicana, TX 75109

 812-428-9350  
 717-786-2566  
 712-322-2294  
 803-872-8475

www.cresline.com

Fax 812-428-9353

Fax 717-897-2374

Fax 712-322-6673

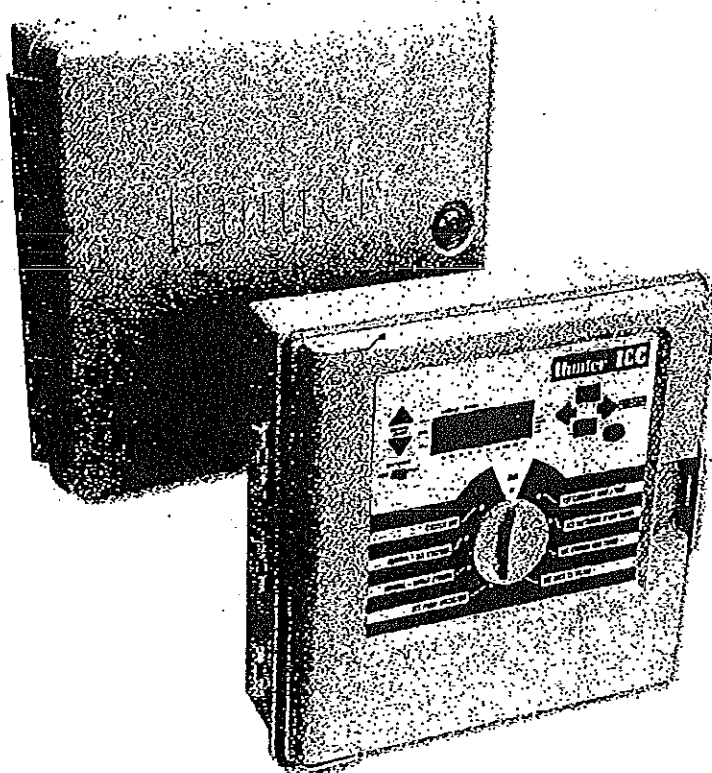
Fax 803-872-7732

**ICC**

*Superior flexibility, ease of use and outstanding water management. All together in one commercial controller.*

**H**unter introduced the concept of personalized construction for controllers – allowing custom tailoring to more effectively handle the odd number of stations a system may require – and the acceptance has been overwhelming. Then again, why shouldn't it be? After all, nothing else makes more sense when seeking the ideal choice to run irrigation systems at virtually any commercial site, from schools, parks and sports fields to hotels, resorts and apartment buildings. The idea is a simple one: a controller that's "built" by combining sets of "modules" to create a system that can handle up to 48 stations and handle the different irrigation needs for turf, shrubs and flower beds, as well as any special watering restrictions. Whatever size you choose, you'll enjoy all the features one could want: dial programming; a large easy-to-read display; programmable master valve; 365-day calendar; rain sensor bypass; seasonal adjustment; a choice of plastic, metal or stainless steel cabinets; and Hunter's simplified user set-up. Hunter ICC, for the ultimate in flexibility.

### FEATURES & BENEFITS



#### Versatile modular design

Provides easy addition of more stations and simplified inventory management

#### 4 fully-independent programs

Each with separate day cycles and 8 start times, offering total flexibility for complex landscapes

#### Independent day schedule options for each program

Maximize scheduling choices (select days of the week, true odd/even days, skip days up to 31 days)

#### Non-volatile 100-year memory

Program data is retained during power outages, without need for battery

#### Programmable pump circuit by station

Use pump only when needed; accommodate dual water sources

#### Cycle and Soak capability by station

Allows run times to be divided into repeat cycles to minimize run-off

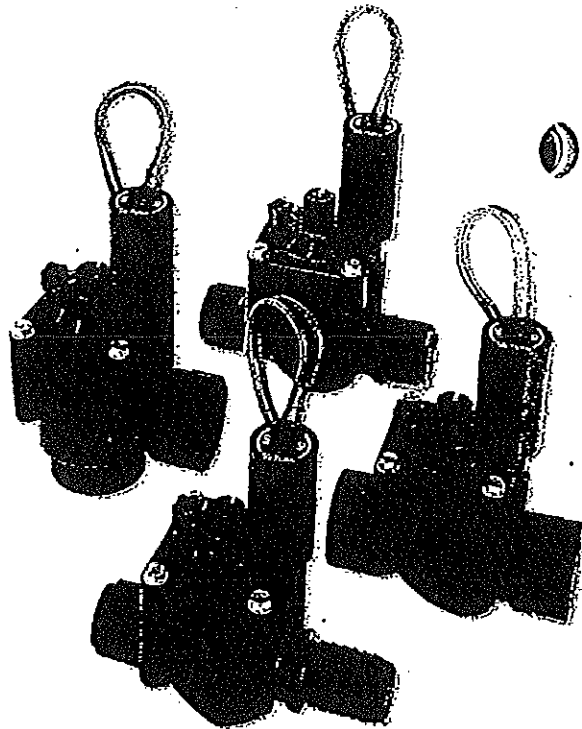
#### Remote control ready

Supplied with connection for SRR and ICR remote controls

# PGV

*A complete line-up of rugged, professional-grade valves designed to handle the full range of landscape needs.*

**T**his hard working, heavy-duty performer offers you the best features of our top-of-the-line valves...more than enough to handle the rigors of whatever your site has to offer. For smaller landscape applications, the PGV is available in four 1" body configurations, in either an angle, globe, male x male or male x barb design. In turn, each model is available as either flow control or non-flow control versions. For larger landscape applications, the PGV comes in both 1½" and 2" globe/angle models (with flow control). All models feature durable high-grade construction and a rugged diaphragm with a support to prevent stress failure.



## FEATURES & BENEFITS



### Heavy-duty Hunter solenoid

Provides dependable operation and long life

### High grade construction, 150 PSI rating

Made of durable materials to resist wear

### Internal manual bleed

Easy to use and keeps valve box dry

### Flow control with non-rising handle

Adjust the flow of each zone on a system

### Rigid diaphragm support

Works to prevent stress failure in tough conditions

### Globe and angle configurations

Easy to use in any application

### Captive bonnet bolts and solenoid plunger

No lost parts during servicing

### Accu-Set™ pressure regulator compatible

Dial setting pressure regulation for precise system control

**State of New Jersey**  
**Division of Purchase & Property**

**Information Sheet and Certification for Delegated Purchasing Authority Transactions**

Company Information	
Company Name	
Address	
City	State <span style="border-bottom: 1px solid black;"></span> Zip Code <span style="border-bottom: 1px solid black;"></span>
Country	United States Contact Person <span style="border-bottom: 1px solid black;"></span>
Phone	Fax <span style="border-bottom: 1px solid black;"></span>
Company Email	
FEIN/SSN	Quote or PO # <span style="border-bottom: 1px solid black;"></span>

The information provided above will be used to pre-populate information fields within the Delegated Purchasing Authority ("DPA") Transactions document packet for your convenience.

This certification will serve as your official signature for the following certifications presented within this document packet:

**Ownership Disclosure Form**  
**Disclosure of Investigations and Actions Involving Bidder Form**  
**Disclosure of Investment Activities in Iran Form**  
**Source Disclosure Certification Form**  
**MacBride Principles Certification Form**  
**Vendor Certification and Political Contribution Disclosure Form**  
**Two Year Chapter 51 / Executive Order 117 Vendor Certification and Disclosure of Political Contributions Form**  
**Affirmative Action Supplement Form**  
**Delegated Purchasing Authority Terms and Conditions**

**Please Note:** For businesses not registered by the State of New Jersey, Division of Revenue, you **MUST** complete a Business Registration Certificate Application, which is located here <http://www.nj.gov/njbusiness/starting/>. You must have a valid Business Registration Certificate to be eligible to do business with the State of New Jersey.

You must also answer the questions on the following forms/certifications: Ownership Disclosure Form, Disclosure of Investigation and Actions Involving Bidder Form, Disclosure of Investment Activities in Iran Form, Source Disclosure Certification Form, MacBride Principles Certification Form, Vendor Certification and Political Contribution Disclosure Form, Two Year Chapter 51 / Executive Order 117 Vendor Certification and Disclosure of Political Contributions Form and the Affirmative Action Supplement Form. These questions must be answered in full in order for you or your company to be eligible for award.

**Certification:** I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to promptly notify the State in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with the State of New Jersey and that the State at its option may declare any contract(s) resulting from this certification void and unenforceable.

**I certify that the signature on this page below has the effect of and constitutes a signature on every page listed in this packet.**

Signed By: \_\_\_\_\_ Current Date 8/8/16

Title: \_\_\_\_\_

**STATE OF NEW JERSEY -- DIVISION OF PURCHASE AND PROPERTY  
OWNERSHIP DISCLOSURE FORM**

Solicitation Number: \_\_\_\_\_ Bidder/Offeror: \_\_\_\_\_

**PART 1: PLEASE COMPLETE THE QUESTIONS BELOW BY CHECKING EITHER THE "YES" OR "NO" BOX.**

**ALL PARTIES ENTERING INTO A CONTRACT WITH THE STATE ARE REQUIRED TO COMPLETE THIS FORM PURSUANT TO N.J.S.A. 52:25-24.2**  
**PLEASE NOTE: IF THE BIDDER/OFFEROR IS A NON-PROFIT, THIS FORM IS NOT REQUIRED. PLEASE COMPLETE THE SEPARATE DISCLOSURE OF INVESTIGATIONS FORM.**

**YES      NO**

1. Are there any individuals, corporations or partnerships owning a 10% or greater interest in the bidder/offeror? ☐ ☐

**IF THE ANSWER TO QUESTION 1 IS NO, PLEASE SIGN AND DATE THE FORM. YOU DO NOT HAVE TO COMPLETE ANY MORE QUESTIONS ON THIS FORM. IF THE ANSWER TO QUESTION 1 IS YES, PLEASE ANSWER QUESTIONS 2-4 BELOW.**

2. Of those parties owning a 10% or greater interest in the bidder/offeror, are any of those parties individuals? ☐ ☐
3. Of those parties owning a 10% or greater interest in the bidder/offeror, are any of those parties corporations or partnerships? ☐ ☐
4. If your answer to Question 3 is "YES", are there any parties owning a 10% or greater interest in the corporation or partnership referenced in Question 3? ☐ ☐

**IF ANY OF THE ANSWERS TO QUESTIONS 2-4 ARE YES, PLEASE PROVIDE THE REQUESTED INFORMATION IN PART 2 BELOW.**

**PART 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO QUESTIONS 2-4 ANSWERED AS "YES".**

For Questions 2-4 answered "YES", you must disclose identifying information related to the individuals, partnerships and/or corporations owning a 10% or greater interest in the bidder/offeror. Further, if one or more of these entities is itself a corporation or partnership, you must also disclose all parties that own a 10% or greater interest in that corporation or partnership. This information is required by statute.

**TO COMPLETE PART 2, PLEASE PROVIDE THE REQUESTED INFORMATION PERTAINING TO EITHER INDIVIDUALS OR PARTNERSHIPS/CORPORATIONS HAVING A 10% OR GREATER INTEREST IN THE BIDDER/OFFEROR. IF YOU NEED TO MAKE ADDITIONAL ENTRIES, CLICK THE "ADD AN ENTRY" BUTTON IN THE APPROPRIATE ENTITY TYPE.**

<b>Individuals</b>	
<div style="display: flex; justify-content: space-between;"><div>Name: _____</div><div>Date of Birth: _____</div></div> <div style="margin-top: 20px;">Home Address: _____</div> <div style="margin-top: 20px;">City _____ State _____ Zip Code _____</div> <div style="margin-top: 20px;">Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?</div> <div style="text-align: center; margin-top: 10px;"><input type="checkbox"/> Yes    or    <input type="checkbox"/> No</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 10px; background-color: #f0f0f0;">Delete Entry</div>

## Individuals

<b>Name:</b> _____ <b>Date of Birth:</b> _____	<b>Delete Entry</b>
<b>Home Address:</b> _____	
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____	
Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?	
<input type="checkbox"/> Yes or <input type="checkbox"/> No	
<b>Name:</b> _____ <b>Date of Birth:</b> _____	<b>Delete Entry</b>
<b>Home Address:</b> _____	
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____	
Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?	
<input type="checkbox"/> Yes or <input type="checkbox"/> No	
<b>Name:</b> _____ <b>Date of Birth:</b> _____	<b>Delete Entry</b>
<b>Home Address:</b> _____	
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____	
Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?	
<input type="checkbox"/> Yes or <input type="checkbox"/> No	
<b>Name:</b> _____ <b>Date of Birth:</b> _____	<b>Delete Entry</b>
<b>Home Address:</b> _____	
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____	
Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?	
<input type="checkbox"/> Yes or <input type="checkbox"/> No	



Name: _____ Date of Birth: _____	Delete Entry
Home Address: _____	
City _____ State _____ Zip Code _____	
Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?	
<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Add An Additional Individuals Entry	

Partnerships/Corporations	
Entity Name: _____	Delete Entry
Partner Name: _____	
Business Address: _____	
City _____ State _____ Zip Code _____	
Are there <b>additional</b> entities holding <b>10% or greater</b> ownership interest in the bidder/offeror and its parent corporation/partnership?	
<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Add An Additional Partnerships/Corporations Entry	

Certification: I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder; that the State of New Jersey is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): \_\_\_\_\_ Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

FEIN/SSN: \_\_\_\_\_

**STATE OF NEW JERSEY -- DIVISION OF PURCHASE AND PROPERTY  
DISCLOSURE OF INVESTIGATIONS AND OTHER ACTIONS INVOLVING BIDDER FORM**

Solicitation Number: \_\_\_\_\_ Bidder/Offeror: \_\_\_\_\_

**PART 1: PLEASE COMPLETE THE QUESTIONS BELOW BY CHECKING EITHER THE "YES" OR "NO" BOX.**

PLEASE REFER TO THE PERSONS AND/OR ENTITIES LISTED ON YOUR OWNERSHIP DISCLOSURE FORM WHEN ANSWERING THE QUESTIONS BELOW.

NON-PROFIT ENTITIES: PLEASE LIST ALL OFFICERS/DIRECTORS IN PART 2 OF THIS FORM. YOU WILL BE REQUIRED TO ANSWER THE QUESTIONS BELOW WITH RESPECT TO THESE INDIVIDUALS.

- |   | YES                      | NO                       |
|---|--------------------------|--------------------------|
| 1. Has any person or entity listed on this form or its attachments ever been arrested, charged, indicted, or convicted in a criminal or disorderly persons matter by the State of New Jersey (or political subdivision thereof), any other state or the U.S. Government?                                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Has any person or entity listed on this form or its attachments ever been suspended, debarred or otherwise declared ineligible by any government agency from bidding or contracting to provide services, labor, materials or supplies?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there currently any pending criminal matters or debarment proceedings in which the firm and/or its officers and/or managers are involved?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Has any person or entity listed on this form or its attachments been denied any license, permit or similar authorization required to engage in the work applied for herein, or has any such license, permit or similar authorization been revoked by any agency of federal, state or local government? | <input type="checkbox"/> | <input type="checkbox"/> |

IF ANY OF THE ANSWERS TO QUESTIONS 1-4 ARE YES, PLEASE PROVIDE THE REQUESTED INFORMATION IN PART 2 BELOW.  
IF ALL OF THE ANSWERS TO QUESTIONS 1-4 ARE NO, PLEASE READ AND SIGN THE FORM BELOW. NO FURTHER ACTION IS NEEDED.  
IF YOU ARE A NON-PROFIT, YOU MUST DISCLOSE ALL OFFICERS/DIRECTORS IN PART 2 BELOW.

**PART 2: PROVIDING ADDITIONAL INFORMATION**

For Questions 1-4 answered "YES", you **must** provide a detailed description of any investigation or litigation, including but not limited to administrative complaints or other administrative proceedings, involving public sector clients during the past 5 years. This description must include the nature and status of the investigation, and for any litigation, the caption of the action, a brief description of the action, the date of inception, current status, and if applicable, disposition. Please provide this information in the box labeled "Additional Information" below. The box will prompt you to provide the information referenced above. Please provide thorough answers to each question. Click on the "Add Additional Information" button below the box if you need to make additional entries.

Non-profit bidder/offers must disclose the individuals serving as officers or directors for purposes of this form. Please indicate all individuals acting in either capacity by providing the information located in the "Officers/Directors" box. If additional entries are needed, click the "Add an Officer/Director Entry" button.

**Once all required information has been disclosed, complete the certification beneath the "Additional Information" section below. Failure to complete this form may render your proposal non-responsive.**

Officers/Directors	
Name: _____	Delete Entry
Title _____ DOB _____	
Address _____	
City _____ State _____ Zip Code _____	
Phone _____ E-Mail _____	
Add An Additional Officer/Director Entry	

Additional Information	
Person or Entity _____ Date of Inception: _____	Delete Entry
Current Status _____	
Brief Description _____	
Caption of Action (if applicable) _____ Disposition of Action (if applicable) _____	
Bidder/Offeror Contact Name _____	
Contact Phone Number _____	
Add Additional Information	

Certification: I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder; that the State of New Jersey is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): \_\_\_\_\_ Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

**STATE OF NEW JERSEY -- DIVISION OF PURCHASE AND PROPERTY  
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN**

Quote Number: \_\_\_\_\_

Bidder/Offeror: \_\_\_\_\_

**PART 1: CERTIFICATION**

**BIDDERS MUST COMPLETE PART 1 BY CHECKING EITHER BOX.**

**FAILURE TO CHECK ONE OF THE BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE.**

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division's website at <http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Bidders must review this list prior to completing the below certification. **Failure to complete the certification will render a bidder's proposal non-responsive.** If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party

**PLEASE CHECK THE APPROPRIATE BOX:**

☐ I certify, pursuant to Public Law 2012, c. 25, that neither the bidder listed above nor any of the bidder's parents, subsidiaries, or affiliates is listed on the N.J. Department of the Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). I further certify that I am the person listed above, or I am an officer or representative of the entity listed above and am authorized to make this certification on its behalf. I will skip Part 2 and sign and complete the Certification below.

**OR**

☐ I am unable to certify as above because the bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

**PART 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN**

You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

**EACH BOX WILL PROMPT YOU TO PROVIDE INFORMATION RELATIVE TO THE ABOVE QUESTIONS. PLEASE PROVIDE THOROUGH ANSWERS TO EACH QUESTION. IF YOU NEED TO MAKE ADDITIONAL ENTRIES, CLICK THE "ADD AN ADDITIONAL ACTIVITIES ENTRY" BUTTON.**

Name _____	Relationship to Bidder/Offeror _____
Description of Activities _____ _____	
Duration of Engagement _____	Anticipated Cessation Date _____
Bidder/Offeror Contact Name _____	Contact Phone Number _____

**ADD AN ADDITIONAL ACTIVITIES ENTRY**

Certification: I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder; that the State of New Jersey is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**STATE OF NEW JERSEY—DIVISION OF PURCHASE AND PROPERTY  
SOURCE DISCLOSURE FORM**

Solicitation Number: \_\_\_\_\_

Bidder/Offeror: \_\_\_\_\_

The Contractor submits this Certification in response to the solicitation issued by the Division of Purchase and Property, Department of the Treasury, State of New Jersey ("Division"), in accordance with the requirements of N.J.S.A. 52:34-13.2.

**Instructions:**

List every location where services will be performed by the Contractor and all Subcontractors.

If any of the services cannot be performed within the United States, the Contractor shall state, with specificity, the reasons why the services cannot be performed in the United States.

Contractor/ Subcontractor Name	Performance Location by Country	Description of Services	Reason Services Cannot Be Performed in U.S.

The Contractor shall provide justification that the services cannot be performed in the United States by a contractor. The Director will review this justification and if deemed sufficient, the Director may seek the Treasurer's approval.

Any changes to the information set forth in this Certification during the term of any contract awarded under the referenced solicitation or extension thereof will be immediately reported by the Vendor to the Director, Division of Purchase and Property (the "Director").

I understand that, after award of a contract to the Contractor, it is determined that the Contractor has shifted services declared above to be provided within the United States to sources outside the United States, prior to a written determination by the Director that circumstances require the shift of services or that the failure to shift the services would result in economic hardship to the State of New Jersey, the Contractor shall be deemed in breach of contract, which contract will be subject to termination for cause pursuant to the State of New Jersey Standard Terms and Conditions.

I further understand that this Certification is submitted on behalf of the Contractor in order to induce the Division to accept a proposal, with knowledge that the Division is relying upon the truth of the statements contained herein.

Certification: I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder; that the State of New Jersey is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# MACBRIDE PRINCIPLES FORM

## **BIDDER'S REQUIREMENT: TO PROVIDE A CERTIFICATION IN COMPLIANCE WITH THE MACBRIDE PRINCIPLES AND NORTHERN IRELAND ACT OF 1989.**

Pursuant to Public Law 1995, c. 134, a responsible bidder selected, after public bidding, by the Director of the Division of Purchase and Property, pursuant to N.J.S.A. 52:34-12, must complete the certification below by checking one of the two representations listed and signing where indicated. If a bidder who would otherwise be awarded a purchase, contract or agreement does not complete the certification, then the Director may determine, in accordance with applicable law and rules, that it is in the best interest of the State to award the purchase, contract or agreement to another bidder who has completed the certification and has submitted a bid within five (5) percent of the most advantageous bid. If the Director finds contractors to be in violation of the principles which are the subject of this law, they shall take such action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I certify, pursuant to N.J.S.A. 52:34-12.2, that the entity for which I am authorized to bid:

- ☐ Has no ongoing business activities in Northern Ireland and does not maintain a physical presence therein through the operation of offices, plants, factories, or similar facilities, either directly or indirectly, through intermediaries, subsidiaries or affiliated companies over which it maintains effective control; or
- ☐ Will take lawful steps in good faith to conduct any business operations it has in Northern Ireland in accordance with the MacBride Principles of nondiscrimination in employment as set forth in N.J.S.A. 52:18A-89.8 and in conformance with the Fair Employment (Northern Ireland) Act of 1989, and permit independent monitoring of their compliance with those principles.

Certification: I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder; that the State of New Jersey is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Signature:

Print Name:

Title:

Firm Name:

Date:

## INFORMATION AND INSTRUCTIONS

### For Completing the "Two-Year Vendor Certification and Disclosure of Political Contributions" Form

#### **Background Information**

On September 22, 2004, then-Governor James E. McGreevey issued E.O. 134, the purpose of which was to insulate the negotiation and award of State contracts from political contributions that posed a risk of improper influence, purchase of access or the appearance thereof. To this end, E.O. 134 prohibited State departments, agencies and authorities from entering into contracts exceeding \$17,500 with individuals or entities that made certain political contributions. E.O. 134 was superseded by Public Law 2005, c. 51, signed into law on March 22, 2005 ("Chapter 51").

On September 24, 2008, Governor Jon S. Corzine issued E.O. 117 which is designed to enhance New Jersey's efforts to protect the integrity of procurement decisions and increase the public's confidence in government. The Executive Order builds upon the provisions of Chapter 51.

#### **Two-Year Certification Process**

Upon approval by the State Chapter 51 Review Unit, the Certification and Disclosure of Political Contributions form is valid for a two (2) year period. Thus, if a vendor receives approval on January 1, 2014, the certification expiration date would be December 31, 2015. Any change in the vendor's ownership status and/or political contributions during the two-year period will require the submission of new Chapter 51/Executive Order 117 forms to the State Review Unit. **Please note that it is the vendor's responsibility to file new forms with the State should these changes occur.**

**State Agency Instructions:** Prior to the awarding of a contract, the State Agency should first send an e-mail to [CD134@treas.nj.gov](mailto:CD134@treas.nj.gov) to verify the certification status of the vendor. If the response is that the vendor is NOT within an approved two-year period, then forms must be obtained from the vendor and forwarded for review. If the response is that the vendor is within an approved two-year period, then the response so stating should be placed with the bid/contract documentation for the subject project.

#### **Instructions for Completing the Form**

**NOTE:** Please refer to pages 3 and 4 "USEFUL DEFINITIONS for the purposes of Chapter 51 and Executive Order 117" for guidance when completing the form.

#### **Part 1: BUSINESS ENTITY INFORMATION**

**Business Name** – Enter the full legal name of the vendor, including trade name if applicable.

**Address, City, State, Zip and Phone Number** -- Enter the vendor's street address, city, state, zip code and telephone number.

**Vendor Email** – Enter the vendor's primary email address.

**Vendor FEIN** – Please enter the vendor's Federal Employment Identification Number.

**Business Type** - Check the appropriate box that represents the vendor's type of business formation.

**Listing of officers, shareholders, partners or members** - Based on the box checked for the business type, provide the corresponding information. (A complete list must be provided.)

## **Part 2: DISCLOSURE OF CONTRIBUTIONS**

Read the three types of political contributions that require disclosure and, if applicable, provide the recipient's information. The definition of "Business Entity/Vendor" and "Contribution" can be found on pages 3 and 4 of this form.

**Name of Recipient** - Enter the full legal name of the recipient.

**Address of Recipient** - Enter the recipient's street address.

**Date of Contribution** - Indicate the date the contribution was given.

**Amount of Contribution** - Enter the dollar amount of the contribution.

**Type of Contribution** - Select the type of contribution from the examples given.

**Contributor's Name** - Enter the full name of the contributor.

**Relationship of the Contributor to the Vendor** - Indicate the relationship of the contributor to the vendor. (e.g. officer or shareholder of the company, partner, member, parent company of the vendor, subsidiary of the vendor, etc.)

**NOTE:** If form is being completed electronically, click "Add a Contribution" to enter additional contributions. Otherwise, please attach additional pages as necessary.

Check the box under the recipient information if no reportable contributions have been solicited or made by the business entity. **This box must be checked if there are no contributions to report.**

## **Part 3: CERTIFICATION**

Check Box A if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity. **(No additional Certification and Disclosure forms are required if BOX A is checked.)**

Check Box B if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity with the exception of those individuals and/or entities that submit their own separate form. For example, the representative is not signing on behalf of the vice president of a corporation, but all others. The vice president completes a separate Certification and Disclosure form. **(Additional Certification and Disclosure forms are required from those individuals and/or entities that the representative is not signing on behalf of and are included with the business entity's submittal.)**

Check Box C if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity only. **(Additional Certification and Disclosure forms are required from all individuals and/or entities whose contributions are attributable to the business entity and must be included with the business entity submittal.)**

Check Box D when a sole proprietor is completing the Certification and Disclosure form or when an individual or entity whose contributions are attributable to the business entity is completing a separate Certification and Disclosure form.

**Read the five statements of certification prior to signing.**

The representative authorized to complete the Certification and Disclosure form must sign and print her/his name, title or position and enter the date.



## Public Law 2005, Chapter 51 and Executive Order 117 (2008)

### State Agency Procedure for Submitting Form(s)

The State Agency should submit the completed and signed Two-Year Vendor Certification and Disclosure forms either electronically to: [cd134@treas.nj.gov](mailto:cd134@treas.nj.gov) or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625-0230. Original forms should remain with the State Agency and copies should be sent to the Chapter 51 Review Unit.

### Business Entity Procedure for Submitting Form(s)

The business entity should return this form to the contracting State Agency.

The business entity can submit the Certification and Disclosure form directly to the Chapter 51 Review Unit only when:

- The business entity is approaching its two-year certification expiration date and is seeking certification renewal;
- The business entity had a change in its ownership structure; OR
- The business entity made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

### Questions & Information

Questions regarding the interpretation or application of Public Law 2005, Chapter 51 (N.J.S.A. 19:44A-20.13) or E.O. 117 (2008) may be submitted electronically through the Division of Purchase and Property website at: <https://www.state.nj.us/treas/purchase/eo134questions.shtml>

Reference materials and forms are posted on the Political Contributions Compliance website at: <http://www.state.nj.us/treasury/purchase/execorder134.shtml>

### **USEFUL DEFINITIONS for the purposes of Chapter 51 and Executive Order 117**

**"Business Entity/Vendor"** means any natural or legal person, business corporation, professional services corporation, limited liability company, partnership, limited partnership, business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction. The definition also includes (i) if a business entity is a for-profit corporation, any officer of the corporation and any other person or business entity that owns or controls 10% or more of the stock of the corporation; (ii) if a business entity is a professional corporation, any shareholder or officer; (iii) if a business entity is a general partnership, limited partnership or limited liability partnership, any partner; (iv) if a business entity is a sole proprietorship, the proprietor; (v) if the business entity is any other form of entity organized under the laws of New Jersey or any other state or foreign jurisdiction, any principal, officer or partner thereof; (vi) any subsidiaries directly or indirectly controlled by the business entity; (vii) any political organization organized under 26 U.S.C.A. § 527 that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (viii) with respect to an individual who is included within the definition of "business entity," that individual's civil union partner and any child residing with that person.<sup>1</sup>

**"Officer"** means a president, vice president with senior management responsibility, secretary, treasurer, chief executive officer or chief financial officer of a corporation or any person routinely performing such functions for a corporation. Please note that officers of non-profit entities are excluded from this definition.

**"Partner"** means one of two or more natural persons or other entities, including a corporation, who or which are joint owners of and carry on a business for profit, and which business is organized under the laws of this State or any other state or foreign jurisdiction, as a general partnership, limited partnership, limited liability partnership, limited liability company, limited partnership association, or other such form of business organization.

<sup>1</sup>Contributions made by a spouse, civil union partner or resident child to a candidate for whom the contributor is eligible to vote or to a political party committee within whose jurisdiction the contributor resides are permitted.

**USEFUL DEFINITIONS for the purposes of Chapter 51 and Executive Order 117**

- **"Contribution"** is a contribution, including an in-kind contribution, in excess of \$300.00 in the aggregate per election made to or received by a candidate committee, joint candidates committee, or political committee; or per calendar year made to or received by a political party committee, legislative leadership committee, or continuing political committee or a currency contribution in any amount.
- **"In-kind Contribution"** means a contribution of goods or services received by a candidate committee, joint candidates committee, political committee, continuing political committee, political party committee, or legislative leadership committee, which contribution is paid for by a person or entity other than the recipient committee, but does not include services provided without compensation by an individual volunteering a part of or all of his or her time on behalf of a candidate or committee.
- **"Continuing Political Committee"** includes any group of two or more persons acting jointly, or any corporation, partnership, or any other incorporated or unincorporated association, including a political club, political action committee, civic association or other organization, which in any calendar year contributes or expects to contribute at least \$4,300 to aid or promote the candidacy of an individual, or the candidacies of individuals, for elective public office, or the passage or defeat of a public questions, and which may be expected to make contributions toward such aid or promotion or passage or defeat during a subsequent election, provided that the group, corporation, partnership, association or other organization has been determined by the Commission to be a continuing political committee in accordance with N.J.S.A. 19:44A-8(b).
- **"Candidate Committee"** means a committee established by a candidate pursuant to N.J.S.A. 19:44A-9(a), for the purpose of receiving contributions and making expenditures.
- **"State Political Party Committee"** means a committee organized pursuant to N.J.S.A. 19:5-4.
- **"County Political Party Committee"** means a committee organized pursuant to N.J.S.A. 19:5-3.
- **"Municipal Political Party Committee"** means a committee organized pursuant to N.J.S.A. 19:5-2.
- **"Legislative Leadership Committee"** means a committee established, authorized to be established, or designated by the President of the Senate, the Minority Leader of the Senate, the Speaker of the General Assembly, or the Minority Leader of the General Assembly pursuant to N.J.S.A. 19:44A-10.1 for the purpose of receiving contributions and making expenditures.
- **"Political Party Committee"** means:
  1. The State committee of a political party, as organized pursuant to N.J.S.A. 19:5-4;
  2. Any county committee of a political party, as organized pursuant to N.J.S.A. 19:5-3; or
  3. Any municipal committee of a political party, as organized pursuant to N.J.S.A. 19:5-2



State of New Jersey  
 Department of the Treasury  
 Division of Purchase and Property  
 Two-Year Chapter 51/Executive Order 117 Vendor Certification and  
 Disclosure of Political Contributions

**FOR STATE AGENCY USE ONLY**

Solicitation, RFP, or Contract No. \_\_\_\_\_ Award Amount \_\_\_\_\_

Description of Services \_\_\_\_\_

State Agency Name \_\_\_\_\_ Contact Person \_\_\_\_\_

Phone Number \_\_\_\_\_ Contact Email \_\_\_\_\_

☐ Check if the Contract / Agreement is Being Funded Using FHWA Funds

Please check if requesting  
 recertification ☐

**Part 1: Business Entity Information**

Full Legal Business Name \_\_\_\_\_  
 (Including trade name if applicable)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Vendor Email \_\_\_\_\_ Vendor FEIN (SS# if sole proprietor/natural person) \_\_\_\_\_

Check off the business type and list below the required information for the type of business selected.  
**MUST BE COMPLETED IN FULL**

- ☐ Corporation: LIST ALL OFFICERS and any 10% and greater shareholder
- ☐ Professional Corporation: LIST ALL OFFICERS and ALL SHAREHOLDERS
- ☐ Partnership: LIST ALL PARTNERS with any equity interest
- ☐ Limited Liability Company: LIST ALL MEMBERS with any equity interest
- ☐ Sole Proprietor

Note: "Officers" means President, Vice President with senior management responsibility, Secretary, Treasurer, Chief Executive Officer or Chief Financial Officer of a corporation, or any person routinely performing such functions for a corporation.

**All Officers of a Corporation or PC**

**10% and greater shareholders of a corporation  
 or all shareholder of a PC**

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**All Equity partners of a Partnership**

**All Equity members of a LLC**

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If you need additional space for listing of Officers, Shareholders, Partners or Members, please attach separate page.

**IMPORTANT NOTE:** You must review the definition of "contribution" and "business entity" on the Information and Instructions form prior to completing Part 2 and Part 3. The Information and Instructions form is available at: <http://www.state.nj.us/treasury/purchase/forms.shtml#eo134>

**Part 2: Disclosure of Contributions by the business entity or any person or entity whose contributions are attributable to the business entity.**

- 1. Report below all contributions solicited or made during the 4 years immediately preceding the commencement of negotiations or submission of a proposal to any:**

Political organization organized under Section 527 of the Internal Revenue Code and which also meets the definition of a continuing political committee as defined in N.J.S.A. (See Information and Instructions form.)

- 2. Report below all contributions solicited or made during the 5 ½ years immediately preceding the commencement of negotiations or submission of a proposal to any:**

Candidate Committee for or Election Fund of any Gubernatorial or Lieutenant Gubernatorial candidate  
State Political Party Committee  
County Political Party Committee

- 3. Report below all contributions solicited or made during the 18 months immediately preceding the commencement of negotiations or submission of a proposal to any:**

Municipal Political Party Committee  
Legislative Leadership Committee

Full Legal Name of Recipient _____
Address of Recipient _____
Date of Contribution _____ Amount of Contribution _____
Type of Contribution (i.e. currency, check, loan, in-kind) _____
Contributor Name _____
Relationship of Contributor to the Vendor _____
<b>If this form is not being completed electronically, please attach additional contributions on separate page.</b>
<input type="button" value="Remove Contribution"/> Click the "Add a Contribution" tab to enter additional contributions.

Full Legal Name of Recipient _____
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☐ Check this box only if no political contributions have been solicited or made by the business entity or any person or entity whose contributions are attributable to the business entity.

### **Part 3: Certification**

- (A) ☐ I am certifying on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under **Part 1: Vendor Information**
- (B) ☐ I am certifying on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under **Part 1: Vendor Information** except for the individuals and/or entities who are submitting separate Certification and Disclosure forms which are included with this submittal.
- (C) ☐ I am certifying on behalf of the business entity only; any remaining persons or entities whose contributions are attributable to the business entity (as listed on Page 1) have completed separate Certification and Disclosure forms which are included with this submittal.
- (D) ☐ I am certifying as an individual or entity whose contributions are attributable to the business entity.

I hereby certify as follows:

1. I have read the Information and Instructions accompanying this form prior to completing the certification on behalf of the business entity.
2. All reportable contributions made by or attributable to the business entity have been listed above.



**3. The business entity has not knowingly solicited or made any contribution of money, pledge of contribution, including in-kind contributions, that would bar the award of a contract to the business entity unless otherwise disclosed above:**

- a) Within the 18 months immediately preceding the commencement of negotiations or submission of a proposal for the contract or agreement to:
  - (i) A candidate committee or election fund of any candidate for the public office of Governor or Lieutenant Governor or to a campaign committee or election fund of holder of public office of Governor or Lieutenant Governor; OR
  - (ii) Any State, County or Municipal political party committee; OR
  - (iii) Any Legislative Leadership committee.
- b) During the term of office of the current Governor or Lieutenant Governor to:
  - (i) A candidate committee or election fund of a holder of the public office of Governor or Lieutenant Governor; OR
  - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.
- c) Within the 18 months immediately preceding the last day of the sitting Governor or Lieutenant Governor's first term of office to:
  - (i) A candidate committee or election fund of the incumbent Governor or Lieutenant Governor; OR
  - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.

**4. During the term of the contract/agreement the business entity has a continuing responsibility to report, by submitting a new Certification and Disclosure form, any contribution it solicits or makes to:**

- (a) Any candidate committee or election fund of any candidate or holder of the public office of Governor or Lieutenant Governor; OR
- (b) Any State, County or Municipal political party committee; OR
- (c) Any Legislative Leadership committee.

The business entity further acknowledges that contributions solicited or made during the term of the contract/agreement may be determined to be a material breach of the contract/agreement.

**5. During the two-year certification period the business entity will report any changes in its ownership structure (including the appointment of an officer within a corporation) by submitting a new Certification and Disclosure form indicating the new owner(s) and reporting said owner(s) contributions.**

I certify that the foregoing statements in Parts 1, 2 and 3 are true. I am aware that if any of the statements are willfully false, I may be subject to punishment.

Signed Name \_\_\_\_\_ Print Name \_\_\_\_\_

Title/Position \_\_\_\_\_ Date \_\_\_\_\_

**Procedure for Submitting Form(s)**

**The contracting State Agency should submit this form to the Chapter 51 Review Unit** when it has been required as part of a contracting process. The contracting State Agency should submit a copy of the completed and signed form(s), to the Chapter 51 Unit and retain the original for their records.

**The business entity should return this form to the contracting State Agency.** The business entity can submit this form directly to the Chapter 51 Review Unit only when it -

- Is approaching its two-year certification expiration date and wishes to renew certification;
- Had a change in its ownership structure; OR
- Made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

**Forms should be submitted either electronically to: [cd134@treas.nj.gov](mailto:cd134@treas.nj.gov), or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625.**

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**PUBLIC LAW 2005**  
**CHAPTER 271 Political**

**Vendor Certification and**  
**Contribution**  
**Disclosure Form**

**Contract Reference:** \_\_\_\_\_ **Vendor:** \_\_\_\_\_

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At least ten (10) days prior to entering into the above-referenced contract, the Vendor must complete this Certification and Disclosure Form, in accordance with the directions below and submit it to the State contact for such contract.

*Please note that the disclosure requirements under Public Law 2005, Chapter 271 are separate and different from the disclosure requirements under Public Law 2005, Chapter 51 (formerly Executive Order 134). Although no vendor will be precluded from entering into a contract by any information submitted on this form, a vendor's failure to fully, accurately and truthfully complete this form and submit it to the appropriate State agency may result in the imposition of fines by the New Jersey Election Law Enforcement Commission.*

**Disclosure**

Following is the required Vendor disclosure of all Reportable Contributions made in the twelve (12) months prior to and including the date of signing of this Certification and Disclosure to: (i) any State, county, or municipal committee of a political party, legislative leadership committee, candidate committee of a candidate for, or holder of, a State elective office, or (ii) any entity that is also defined as a "continuing political committee" under N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.

The Vendor is required to disclose Reportable Contributions by: the Vendor itself; all persons or other business entities owning or controlling more than 10% of the profits of the Vendor or more than 10% of the stock of the Vendor, if the Vendor is a corporation for profit; a spouse or child living with a natural person that is a Vendor; all of the principals, partners, officers or directors of the Vendor and all of their spouses; any subsidiaries directly or indirectly controlled by the Vendor; and any political organization organized under section 527 of the Internal Revenue Code that is directly or indirectly controlled by the Vendor, other than a candidate committee, election fund, or political party committee.

"Reportable Contributions" are those contributions that are required to be reported by the recipient under the "New Jersey Campaign Contributions and Expenditures Reporting Act," P.L. 1973, c.83 (C.19:44A-1 et seq.), and implementing regulations set forth at N.J.A.C. 19:25-10.1 et seq. As of January 1, 2005, contributions in excess of \$300 during a reporting period are deemed "reportable."

**PUBLIC LAW 2005**

**CHAPTER 271**

**Vendor:** \_\_\_\_\_

Name and Address of Committee to Which Contribution Was Made	Date of Contribution	Amount of Contribution	Contributor's Name
Indicate " <u>none</u> " if no Reportable Contributions were made. Attach Additional Pages As Needed			

**#1**

**Certification:**

I certify as an officer or authorized representative of the Vendor that, to the best of my knowledge and belief, the foregoing statements by me are true. I am aware that if any of the statements are willfully false, I am subject to punishment.

**#2**

**Name of Vendor:** \_\_\_\_\_

**Signed:** \_\_\_\_\_

**Print Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_



# INSTRUCTIONS FOR COMPLETING THE EMPLOYEE INFORMATION REPORT (FORM AA302)

**IMPORTANT:** READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE COMPLETING THE FORM. PRINT OR TYPE ALL INFORMATION. FAILURE TO PROPERLY COMPLETE THE ENTIRE FORM **AND TO SUBMIT THE REQUIRED \$150.00 NON-REFUNDABLE FEE MAY DELAY ISSUANCE OF YOUR CERTIFICATE.** IF YOU HAVE A CURRENT CERTIFICATE OF EMPLOYEE INFORMATION REPORT, DO NOT COMPLETE THIS FORM UNLESS YOU ARE RENEWING A CERTIFICATE THAT IS DUE FOR EXPIRATION. DO NOT COMPLETE THIS FORM FOR CONSTRUCTION CONTRACT AWARDS.

**ITEM 1** - Enter the Federal Identification Number assigned by the Internal Revenue Service, or if a Federal Employer Identification Number has been applied for, or if your business is such that you have not or will not receive a Federal Employer Identification Number, enter the Social Security Number of the owner or of one partner, in the case of a partnership.

**ITEM 2** - Check the box appropriate to your TYPE OF BUSINESS. If you are engaged in more than one type of business check the predominate one. If you are a manufacturer deriving more than 50% of your receipts from your own retail outlets, check "Retail".

**ITEM 3** - Enter the total "number" of employees in the entire company, including part-time employees. This number shall include all facilities in the entire firm or corporation.

**ITEM 4** - Enter the name by which the company is identified. If there is more than one company name, enter the predominate one.

**ITEM 5** - Enter the physical location of the company. Include City, County, State and Zip Code.

**ITEM 6** - Enter the name of any parent or affiliated company including the City, County, State and Zip Code. If there is none, so indicate by entering "None" or N/A.

**ITEM 7** - Check the box appropriate to your type of company establishment. "Single-establishment Employer" shall include an employer whose business is conducted at only one physical location. "Multi-establishment Employer" shall include an employer whose business is conducted at more than one location.

**ITEM 8** - If "Multi-establishment" was entered in item 8, enter the number of establishments within the State of New Jersey.

**ITEM 9** - Enter the total number of employees at the establishment being awarded the contract.

**ITEM 10** - Enter the name of the Public Agency awarding the contract. Include City, County, State and Zip Code. This is not applicable if you are renewing a current Certificate.

**ITEM 11** - Enter the appropriate figures on all lines and in all columns. THIS SHALL ONLY INCLUDE EMPLOYMENT DATA FROM THE FACILITY THAT IS BEING AWARDED THE CONTRACT. DO NOT list the same employee in more than one job category. DO NOT attach an EEO-1 Report.

**Racial/Ethnic Groups will be defined:**

**Black:** Not of Hispanic origin. Persons having origin in any of the Black racial groups of Africa.

**Hispanic:** Persons of Mexican, Puerto Rican, Cuban, or Central or South American or other Spanish culture or origin, regardless of race.

**American Indian or Alaskan Native:** Persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

**Asian or Pacific Islander:** Persons having origin in any of the original peoples of the Far East, Southeast Asia, the Indian Sub-continent or the Pacific Islands. This area includes for example, China, Japan, Korea, the Phillipine Islands and Samoa.

**Non-Minority:** Any Persons not identified in any of the aforementioned Racial/Ethnic Groups.

**ITEM 12** - Check the appropriate box. If the race or ethnic group information was not obtained by 1 or 2, specify by what other means this was done in 3.

**ITEM 13** - Enter the dates of the payroll period used to prepare the employment data presented in Item 12.

**ITEM 14** - If this is the first time an Employee Information Report has been submitted for this company, check block "Yes".

**ITEM 15** - If the answer to Item 15 is "No", enter the date when the last Employee Information Report was submitted by this company.

**ITEM 16** - Print or type the name of the person completing the form. Include the signature, title and date.

**ITEM 17** - Enter the physical location where the form is being completed. Include City, State, Zip Code and Phone Number.

## TYPE OR PRINT IN SHARP BALL POINT PEN

THE VENDOR IS TO COMPLETE THE EMPLOYEE INFORMATION REPORT FORM (AA302) AND RETAIN A COPY FOR THE VENDOR'S OWN FILES. THE VENDOR SHOULD ALSO SUBMIT A COPY TO THE PUBLIC AGENCY AWARDED THE CONTRACT IF THIS IS YOUR FIRST REPORT; AND FORWARD ONE COPY WITH A CHECK IN THE AMOUNT OF \$150.00 PAYABLE TO THE TREASURER, STATE OF NEW JERSEY(FEE IS NON-REFUNDABLE) TO:

NJ Department of the Treasury  
Division of Purchase & Property  
Contract Compliance Audit Unit  
EEO Monitoring Program  
P.O. Box 206

Trenton, New Jersey 08625-0206

Telephone No. (609) 292-5473

EXHIBIT A

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127)

N.J.A.C. 17:27

GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval

Certificate of Employee Information Report

Employee Information Report Form AA302 (electronically provided by the Division and distributed to the public agency through the Division's website at [www.state.nj.us/treasury/contract\\_compliance](http://www.state.nj.us/treasury/contract_compliance))

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Public Contracts Equal Employment Opportunity Compliance as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Public Contracts Equal Employment Opportunity Compliance for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code at N.J.A.C. 17:27.

1. FID. NO. OR SOCIAL SECURITY	2. TYPE OF BUSINESS <input type="checkbox"/> 1. MFG <input type="checkbox"/> 2. SERVICE <input type="checkbox"/> 3. WHOLESALE <input type="checkbox"/> 4. RETAIL <input type="checkbox"/> 5. OTHER	3. TOTAL NO. EMPLOYEES IN THE ENTIRE COMPANY
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<b>Official Use Only</b>	<b>DATE RECEIVED</b>	<b>IN AUG. DATE</b>	<b>ASSIGNED CERTIFICATION NUMBER</b>

### SECTION C - SIGNATURE AND IDENTIFICATION

**State of New Jersey**  
**Division of Purchase & Property**  
**Delegated Purchasing Authority Terms and Conditions**

The following terms and conditions shall apply to all contracts or purchase agreements made with the State of New Jersey.

For agency purchase orders issued against term contracts, additional provisions shall apply in accordance with the provision of the agreement between the State of New Jersey and the Contractor.

**1. STATE LAW REQUIRING MANDATORY COMPLIANCE BY ALL CONTRACTORS**

**1.1 CORPORATE AUTHORITY-** It is required that all corporations be registered with the Office of the Secretary of the State prior to conducting business in the State of New Jersey.

**1.2 ANTI-DISCRIMINATION-** All parties to any contract with the State of New Jersey agree not to discriminate in employment and agree to abide by all anti-discrimination laws including those contained within N.J.S.A. 10:2-1 through 10:2-4, N.J.S.A. 10:4-1 et seq. and N.J.S.A. 10:5-31 through 10:5-38, and all rules and regulations issued thereunder.

**1.3 PREVAILING WAGE ACT-** The New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56-26 et seq., is hereby made a part of every contract entered into on behalf of the State of New Jersey through the Division of Purchase and Property, except those contracts which are not within the contemplation of the Act. The bidder's signature on this proposal is his guarantee that neither he nor any subcontractors he might employ to perform the work covered by this proposal has been suspended or debarred by the Commissioner, Department of Labor for violation of the provision of the Prevailing Wage Act.

**1.4 THE WORKER AND COMMUNITY RIGHT TO KNOW ACT-** The provisions of N.J.S.A. 34:5A-1 et seq. which require the labeling of all containers of hazardous substances are applicable to this contract. Therefore, all goods offered for purchase to the State must be labeled by the contractor in compliance with the provisions of the Act.

**1.5 OWNERSHIP DISCLOSURE-** Contracts for any work, goods or services cannot be issued to any corporation or partnership unless prior to or at the time of bid submission the bidder has disclosed the names and addresses of all its owners holding 10% or more of the corporation's or partnership's stock or interest. Refer to N.J.S.A. 52:25-24.2.

**1.6 COMPLIANCE: LAWS-** The contractor must comply with all local, state and federal laws, rules and regulations applicable to this contract and to the goods delivered and/or services performed hereunder.

**1.7 COMPLIANCE: STATE LAWS-** It is agreed and understood that any contracts and/or orders placed as a result of this proposal shall be governed and construed and the rights and obligations of the parties hereto shall be determined in accordance with the laws of the STATE OF NEW JERSEY.

**1.8 COMPLIANCE: CODES-** The contractor must comply with NJUCC and the latest NEC70, B.O.C.A. Basic Building Code, OSHA and all applicable codes for this requirement. The successful vendor will be responsible for securing and paying for all necessary permits, where applicable.

**2. LIABILITIES**

**2.1 LIABILITIES- COPYRIGHT-** The contractor shall hold and save the State of New Jersey, its officers, agents, servants and employees, harmless from liability of any nature or kind of or on account of the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article or appliance furnished or used in the performance of this contract.

**2.2 INDEMNIFICATION-** The contractor shall assume all risk of and responsibility for, and agrees to indemnify, defend and save harmless the State of New Jersey and its employees from and against any and all claims, demands, suites, actions, recoveries, judgment and costs and expenses in connection therewith on account of the loss of life, property or injury or damage to the person, body or property of any person or persons whatsoever, which shall arise from or result directly or indirectly from the work and/or materials supplied under this contract. This indemnification obligation is not limited by, but is in addition to, the insurance obligations contained in this agreement.

**2.3 INSURANCE-** The contractor shall secure and maintain in force for the term of the contract liability insurance as provided herein. The contractor shall provide the State of New Jersey with current certificates of insurance for all coverage's and renewals thereof which must contain the provision that the insurance provided in the certificate shall not be canceled for any reason except after thirty days written notice.

The insurance to be provided by the contractor shall be as follows:

- a. General liability policy as broad as the standard coverage forms currently in use in the State of New Jersey shall not be circumscribed by any endorsements limiting the breadth of coverage. The policy shall be endorsed to include:
  1. Broad Form Comprehensive General Liability
  2. Products / Completed Operations
  3. Premises / Operations

**State of New Jersey**  
**Division of Purchase & Property**  
**Delegated Purchasing Authority Terms and Conditions**

The limits of liability for bodily injury and property damage shall not be less than \$1 million per occurrence as a combined single limit.

- b. Automobile liability insurance which shall be written to cover any automobile used by the insured. Limited of liability for bodily injury and property damage shall not be less than \$1 million per occurrence. As a combined single limit.
- c. Worker's Compensation Insurance applicable to the laws of the State of New Jersey and Employer's Liability Insurance with limits of not less than:
  - \$100,000 Bodily Injury, Each Occurrence
  - \$100,000 Disease Each Employee
  - \$500,000 Disease aggregate Limit

**3. TERMS GOVERNING ALL PROPOSALS TO NEW JERSEY PROCUREMENT BUREAU**

**3.1 SUBCONTRACTING OR ASSIGNMENT-** The contract may not be subcontracted or assigned by the contractor, in whole or in part, without the prior written consent of the Director of the Division of Purchase and Property. Such consent, if granted, shall not relieve the contractor of any of his responsibilities under the contract.

Nothing contained in the specifications shall be construed as creating a contractual relationship between any subcontractor and the State.

**3.2 PERFORMANCE GUARANTEE OF BIDDER-** The bidder hereby certifies that:

- a. The equipment offered is standard new equipment, and is the manufacturer's latest model in production with parts regularly used for the type of equipment offered; that such parts are all in production and not likely to be discontinued; and that no attachment or part has been substituted or applied contrary to manufacturer's recommendations and standard practice.
- b. All equipment supplied to the State and operated by electrical current is UL listed where applicable.
- c. All new machines are to be guaranteed as fully operational for the period stated from time of written acceptance by the State. The bidder will render prompt service without charge, regardless of geographic location.
- d. Sufficient quantities of parts necessary for proper service to equipment will be maintained at distribution points and service headquarters.
- e. Trained mechanics are regularly employed to make repairs to equipment in the territory from which the service request might emanate within a 48 hour period or within the time accepted as industry practice.
- f. During the warranty period, the contractor shall replace immediately any material which is rejected for failure to meet the requirements of the contract.
- g. All services rendered to the State shall be performed in strict and full accordance with the specifications stated in the contract. The contract shall not be considered complete until final approval by the State's Using Agency is rendered.

**3.3 DELIVERY GUARANTEES-** Deliveries shall be made at such time and in such quantities as ordered in strict accordance with conditions contained in the specifications.

The contractor shall be responsible for the delivery of material in first class condition to the State's Using Agency or the purchase under this contract, and in accordance with good commercial practice.

Items delivered must be strictly in accordance with the specifications.

In the event delivery of goods or services is not made within the number of days stipulated or under the schedule defined in the specifications, the Using Agency may be authorized to obtain the material or service from any available source, the difference in price, if any, to be paid by the contractor failing to meet his commitments.

**3.4 STATE'S RIGHT TO INSPECT CONTRACTOR'S FACILITIES** -The State reserves the right to inspect the contractor's establishment.

**3.5 MAINTENANCE OF RECORDS-** The contractor shall maintain records for products and/or service delivered against the contract for a period of three (3) years from the date of final payment. Such records shall be made available to the State upon request.

**4. TERMS RELATING TO PRICE QUOTATIONS**

**4.1 PRICE FLUCTUATIONS DURING CONTRACT-** All prices shall be firm through issuance of contract purchase order and shall not be subject to increase during the period of the contract.

**4.2 DELIVERY COSTS-** Unless otherwise noted in this purchase order, all prices for items are to be F.O.B. Destination. Regardless of the methods of quoting shipment, the contractor shall assume all liability and responsibility for the delivery of merchandise in good condition to the State's Using Agency or designated purchaser.

**State of New Jersey**  
**Division of Purchase & Property**  
**Delegated Purchasing Authority Terms and Conditions**

F.O.B. Destination does not cover "spotting" but does include delivery on the receiving platform of the ordering agency at any destination in the State of New Jersey unless otherwise specified. No additional charges will be allowed for any transportation costs resulting from partial shipments made at the contractor's convenience when a single shipment is ordered. The weights and measures of the State's Using Agency receiving the shipment shall govern.

4.3 C.O.D TERMS – C.O.D. terms are not acceptable.

4.4 TAX CHARGES – The State of New Jersey is exempt from State sales or use taxes and Federal excise taxes. Therefore, they must not be included in the invoice. The State's Federal Excise Tax Exemption Number is 22-75-0050k.

4.5 PAYMENT TO VENDORS – Payment for goods and/or services purchased by the State will only be made against State Payment Vouchers. The State Payment Voucher in duplicate together with original Bill of Lading, express receipt and other related papers must be sent to the consignee on the date of each delivery.

4.6 NEW JERSEY PROMPT PAYMENT ACT – The New Jersey Prompt Payment Act (P.L.1987, c. 184) requires state agencies to pay for goods and services within sixty (60) days of the agency's receipt of a properly executed State Payment Voucher or within sixty (60) days of receipt and acceptance of goods and services, whichever is later.

**5. CASH DEPOSITS**

a. A discount period shall commence on the day the State Using Agency received a properly signed and executed State Payment Voucher for products and services that have been duly accepted by the State Using Agency in accordance with the terms, conditions and specifications of the Contract/Purchase Order. If the State Payment Voucher is received prior to the delivery of the goods and services, the discount period begins with the acceptance of goods and services, whichever is later.

b. The date on the check issued by the State in payment of that State Payment Voucher shall be deemed the date of the State's responses to that Voucher.

6. STANDARDS PROHIBITING CONFLICTS OF INTEREST – The following prohibition on vendor activities shall apply to all contracts or purchase agreements made with the State of New Jersey, pursuant to Executive Order No. 189 (1988).

a. No vendor shall pay, or agree to pay, either directly or indirectly any fee, commission, compensation, gift, gratuity, or other thing of value of any kind to any State officer or employee or special State officer or employee, as defined by N.J.S.A. 52-13D-13b and e, in Department of the Treasury or any other agency with which such vendor transacts or offers or proposes to transact business, or to any member of the immediate family, as defined by N.J.S.A. 52-13D-13i, of any such officer or employee, or any partnership, firm or corporation with which they are employed or associated, or in which such officer or employee has an interest within the meaning of N.J.S.A. 52-13D-13g.

b. The solicitation of any fee, commission, compensation, gift, gratuity or other thing of value by any State officer or employee or special State officer or employee from any State vendor shall be reported in writing forthwith by the vendor to the Attorney General and the Executive Commission on Ethical Standards.

c. No vendor may, directly or indirectly, undertake any private business, commercial or entrepreneurial relationships with, whether or not pursuant to employment, contract or other agreement, express or implied, or sell any interest in such vendor to, any State officer or employee or special State officer or employee having any duties or responsibilities in connection with the purchase, acquisition or sale of any property or services by or to any State agency or any instrumentality thereof, or with any person, firm or entity with which he is employed or associated or in which he has an interest within the meaning of N.J.S.A. 52:13D-13g. Any relationships subject to this provision shall be reported in writing forthwith to the Executive Commission on Ethical Standards, which may grant a waiver of this restriction upon application of the State officer or employee or special State officer or employee upon a finding that the present or proposed relationship does not present the potential, actuality or appearance of a conflict of interest.

d. No vendor shall influence, or attempt to cause or influence, any State officer or employee or special State officer or employee in his official capacity in any manner which might tend to impair the objectivity or independence of judgment or said officer or employee.

e. No vendor shall cause or influence, or attempt to cause or influence, any State officer or employee or special State officer or employee to use, or attempt to use, his official position to secure unwarranted privileges or advantages for the vendor or any other person.

f. The provisions cited above in paragraph 6a. shall not be construed to prohibit a State officer or employee or special State officer or employee from receiving gifts from or contracting with vendors under the same terms and conditions as are offered or made available to members of the general public subject to any guidelines the Executive Commission on Ethical Standards may promulgate under paragraph 6c.