

EXCALIBUR
e x t r u s i o n s

**Custom Plastic Extrusions, Fabrications, Injection Molding,
Plastic Machined Nipples, Pipe, Hose, Tubing**

Proudly Manufactured in the USA

**110 E. Crowther Avenue • Placentia, CA 92870
Phone: (800) 648-6804 / Fax: (714) 524-7453
www.excaliburextrusions.com**

Effective October 10th, 2011

Serving The Plastics Industry Since 1970



Machined Plastic Nipples

Excilibur manufactures Sch 40, Sch 80, PVC, CPVC, Poly and Polypropylene nipples from 1/8" to 6" in diameter from our own extruded stock. Nipples can be ordered in various lengths in TBE, TOE, Plain End or Victaulic®. We maintain a large inventory at all times and most orders are shipped the same day.

Excilibur Warehouse Located at:
Commerce City, CO (303) 286-7575

Excilibur Outside Sales Reps:
Katy, TX (281) 579-8228
Sacramento, CA (916) 922-5556



Accessories for the Ag And Turf Markets

Our Irrigation Line includes Wye and Tee Strainers with either nylon or stainless steel screens, cut-off nipples, flexible PVC IPS & Irrigation hose, and control tubing. We also provide flexible PVC nipples, extra-flexible PVC nipples, and flexible rubber nipples, along with our Spring Back Risers®.



Custom Extrusion & Custom Fabrication

Excilibur processes include extrusion, injection molding, bending, belling, forming, threading, cutting, and slitting. We provide extrusions up to 8" in diameter in many different materials such as PVC, CPVC, Polyethylene, Polypropylene, ABS, Styrene, Vinyl. We provide Color Matching, Printing, Hot Stamping, Embossing. Technical services are available.



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Phone 800 648 6804

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Fax (714) 524-7453

EXCALIBUR

EXTRUSIONS

Stock Items

& Custom Capabilities

Machined Nipples*

Sch 40 White PVC Nipples
Sch 80 Grey PVC Nipples
Sch 80 White PVC Nipples
Sch 80 Grey CPVC Nipples
Sch 40 Black Polyethylene Nipples
Sch 80 Natural Polypropylene Nipples
Sch 80 Black Polypropylene Nipples

*TBE, TOE, Plain End, BPT, Victaulic®, or any combination.

Industrial Pipe

Type I PVC Sch 40 Industrial Pipe
Type I PVC Sch 80 Industrial Pipe
Hi Temp CPVC Sch 40 Industrial Pipe
Hi Temp CPVC Sch 80 Industrial Pipe
Sch 80 Black Polypropylene Pipe
Sch 80 Natural Polypropylene Pipe

Irrigation Pipe**

Sch 80 PVC Drop Pipe
Sch 40 White Pipe
Class 125 - 315 PVC Pipe

**Irrigation Pipe is available in bundle or lift quantities, and with plain or belled ends. Available with Alertline® Purple Stripe for Reclaimed Water.

Flexible Nipples

Flexible PVC Nipples
Spring Back Risers®
Extra Flexible PVC Nipples
Flexible Rubber Nipples

Algae-Resistant Flexible PVC Hose***

Flexible PVC Irrigation Hose
Flexible PVC IPS Hose
Cut Lengths of IPS Hose

***Available with Alertline® Purple Stripe for Reclaimed Water.

Hydraulic Control Tubing

Type II PVC Control Tubing for Irrigation Controllers

Water Conditioning

Brinewells 3 1/2" ID White
Brinewell Tops & Bottoms
Overflow Elbows (Black & Natural)
Overflow Nuts (Black & Natural)
U Bends
3/8" Brine Tube
13/16" Grey Brine Tube
3/4" CL 125 & CL 200 White Brine Tube x 10'

Wye & Tee Strainers†

All Plastic Tee Strainers
Economy Wye Strainers
Plastic Screens
Stainless Steel Screens
Stainless Steel Perforated Screens

†Contact Factory for pricing & availability.

Clear PVC

Clear Sch 40 PVC Pipe
Clear CL 100 PVC Pipe

Vacuum Tubing

White 2" PVC Vacuum Tube
Grey 2" PVC Vacuum Tube
Clear 2" PVC Vacuum Tube

Custom

Profiles & Tubes up to 8" x any length
Color Matching using Spectrophotometry
Materials include: ABS, PVC, Polyethylene, Polypropylene, & Polystyrene.

In-Line

Belling
Slitting
Drilling
Printing
Embossing
Barcoding

Post Extrusion

Champhering
Hot Stamping
Printing
Gang Drilling
Bending
Threading & Tapping
Assembly/ Packing / Bagging

About Machined Nipples



100% Proudly Made in the USA

Extruded from our stock to insure the highest quality and widest variety obtainable anywhere!

- As specified by Landscape Architects and Landscape Engineers.
- Excalibur machined plastic pipe nipples can be ordered in any length in TBE, TOE, Plain End, and Victaulic®.
- NPT is the most common thread form, however BSP, BSPT, NPS, UN, UNF, and custom threads are readily available.

Why Use Excalibur Machined VS. Competitors' Molded Nipples?

- Can Be Cut Anywhere For Effective Solvent Weld Joint
- Are available In Infinite Lengths From Close Thru 240"
- Seal Better Than Molded Nipples with Mold Lines
- Extruded from high impact resin (exceeds ASTM-D 1785)
- Precision machined

Stock Sizes

- Sch 40 PVC and Polyethylene, 1/2" through 1" Diameter
- Sch 40 Clear PVC Nipples Are Also Available
- Sch 80 PVC, Polypropylene, and CPVC, 1/8" through 6" Diameter
- Sch 80 White PVC, 1/2" through 4" Diameter



EXCALIBUR extrusions

The only way to be sure you receive machined nipples is to specify Excalibur.

714-528-8834
800-648-6804

www.excaliburextrusions.com

Products comply with ASTM D 2464

Threads conform to ASTM F 1498



EXCALIBUR

EXTRUSIONS

Schedule 80

MACHINED NIPPLES

Grey P.V.C.

TBE / TOE / Plain End / Victaulic®*

Products comply fully with ASTM D 2464

Threads conform to ASTM F 1498

Nipples are produced from extruded PVC 1120 –1220 meeting ASTM D 1784 and ASTM D 1785, product standard 21—70

Size	Pt. No.	1/8" & 1/4" 001-002	3/8" 004	1/2" 005	3/4" 007	1" 010	1 1/4" 012	1 1/2" 015	2" 020	2 1/2" 025	3" 030	4" 040	6" 060
CI	005	0.63	0.63	0.61	0.64	0.91	1.16	1.44	1.90	5.81	6.95	11.41	89.84
1 1/2"	015	0.67	0.67	0.64	0.64								
2"	020	0.72	0.72	0.64	0.68	1.00	1.23	1.49					
2 1/2"	025	0.72	0.84	0.68	0.74	1.09	1.35	1.64	2.08				
3"	030	0.80	0.88	0.74	0.76	1.13	1.49	1.80	2.26	6.57	7.57		
3 1/2"	035	0.84	0.94	0.76	0.86	1.23	1.64	1.95	2.45	7.08	8.23		
4"	040	0.88	1.05	0.81	0.91	1.32	1.75	2.08	2.62	7.57	8.84	11.84	93.23
4 1/2"	045	0.88	1.16	0.91	1.06	1.49	1.90	2.23	2.92	8.07	9.49	12.61	
5"	050	0.94	1.19	0.98	1.09	1.64	2.06	2.40	3.08	8.55	10.11	13.37	
5 1/2"	055	1.05	1.30	1.00	1.16	1.75	2.16	2.55	3.26	9.10	10.75	14.14	
6"	060	1.19	1.34	1.06	1.29	1.80	2.26	2.74	3.45	9.57	11.35	14.87	108.48
7"	070	1.29	1.44	1.16	1.35	2.01	2.55	2.99	3.92	10.59	12.61	16.41	
8"	080	1.36	1.52	1.23	1.49	2.13	2.74	3.26	4.21	11.61	13.88	18.05	123.74
9"	090	1.47	1.68	1.35	1.64	2.40	2.95	3.53	4.64	12.61	15.15	19.68	
10"	100	1.58	1.78	1.44	1.77	2.55	3.18	3.76	4.99	13.61	16.41	21.44	138.99
11"	110	1.68	1.88	1.56	1.90	2.74	3.41	3.83	5.38	14.63	17.64	22.97	
12"	120	1.78	1.98	1.64	2.01	2.84	3.56	4.05	5.71	15.64	18.93	24.72	150.84
14"	140	2.17	2.34	1.80	2.16	3.31	4.31	5.04	6.47	17.64	21.44	28.23	164.41
15"	150	2.34	2.51	1.95	2.32	3.53	4.54	5.34	6.99	18.66	22.70	30.03	
16"	160	2.51	2.64	2.01	2.55	3.67	4.82	5.62	7.32	19.68	23.98	31.79	181.37
18"	180	2.90	3.00	2.23	2.68	4.07	5.23	6.19	8.16	21.69	26.50	35.55	189.84
20"	200	3.15	3.30	2.40	2.92	4.46	5.75	6.74	8.71	23.73	29.04	39.09	201.71
24"	240	3.38	3.91	2.74	3.41	4.87	6.72	7.92	10.20	26.75	34.08	46.66	213.54
30"	300	4.22	4.91	3.42	4.26	6.07	8.11	9.57	12.44	33.43	42.58	58.34	239.00
36"	360	5.06	5.87	4.15	5.28	7.23	9.63	11.31	14.96	37.33	49.18	66.85	262.74
48"	480	6.75	7.83	5.16	7.07	9.24	12.63	13.87	19.67	47.92	64.32	87.03	313.56
60"	600	8.44	9.79	6.06	8.65	11.23	15.60	16.91	24.27	59.91	94.18	108.78	362.70

* T.O.E., Plain End, & Victaulic® add 10%

Threaded Connections: Excalibur recommends the use of quality grade sealant. Teflon tape, paste, or pipe joint compound is at the discretion of the installer. Some pipe joint compounds or Teflon pastes may contain substances that cause stress cracking to plastic. 1 to 2 turns beyond finger tight is all that is required to make a sound plastic threaded connection. **Over tightening** may cause damage to both pipe and fitting. Do Not Use Pipe Wrenches

Warning! Do not use compressed Gas or Air to test any PVC thermoplastic piping product or system. Do not use devices propelled by compressed Gas or Air to clear systems. By doing so, may result in explosive fragmentation of piping system and components causing bodily injury.

Schedule 80

NIPPLES

EXCALIBUR

EXTRUSIONS

Material: CPVC type 4, grade 1 (Cell Classification 23477-B) Meets the specifications for rigid CPVC per ASTM F 441/F.
Dimensions: Schedule 80 CPVC Nipples meet or exceed the requirements of F 441/F, produced from extruded stock pipe.
 Threads conform to ASTM F 1498.

C.P.V.C. TBE / TOE / Plain End*

Size	Pt. No	1/4" C002	3/8" C004	1/2" C005	3/4" C007	1" C010	1 1/4" C012	1 1/2" C015	2" C020	2 1/2" C025	3" C030	4" C040	6" C060
Close	005	0.85	0.85	0.94	1.23	1.69	2.49	2.46	4.10	7.47	10.54	14.75	91.76
1-1/2"	015	0.96	0.96	1.07									
2"	020	1.12	1.12	1.22	1.56	2.04	2.75	2.99					
2-1/2"	025	1.28	1.28	1.40	1.76	2.34	3.17	3.45	4.74				
3"	030	1.43	1.43	1.57	2.00	2.70	3.62	3.96	5.43	8.44	10.68		
3-1/2"	035	1.61	1.61	1.76	2.26	3.07	4.10	4.51	6.19	9.61	12.11		
4"	040	1.75	1.75	1.93	2.48	3.39	4.49	4.88	6.83	10.60	13.10	18.93	95.30
4-1/2"	045	1.89	1.89	2.08	2.70	3.71	4.93	5.48	7.47	11.69	14.82	20.99	
5"	050	2.08	2.08	2.29	2.93	4.07	5.37	5.96	8.16	12.77	16.26	23.09	
5-1/2"	055	2.23	2.23	2.46	3.16	4.40	5.83	6.47	8.86	13.87	17.66	25.16	
6"	060	2.41	2.41	2.67	3.43	4.81	6.36	7.07	10.09	15.16	19.36	27.64	121.20
7"	070	2.73	2.73	2.99	3.87	5.45	7.19	8.03	11.01	17.22	22.07	31.64	
8"	080	3.05	3.05	3.34	4.32	6.11	8.07	9.03	12.54	19.37	24.88	35.75	136.05
9"	090	3.36	3.36	3.69	4.76	6.73	8.92	9.98	13.71	20.42	28.00	40.08	
10"	100	3.96	3.96	4.11	5.32	7.58	9.98	11.18	15.39	24.02	30.91	44.66	156.06
11"	110	4.05	4.05	4.44	5.78	8.25	10.85	12.17	16.76	26.17	33.79	48.79	
12"	120	4.51	4.51	4.93	6.30	9.05	11.90	13.40	18.41	28.78	37.19	53.75	174.30

* T.O.E., Plain End, & Victaulic® add 10%

Any Length Available - Contact Factory For Pricing

List Price Each - Prices Subject To Change Without Notice

Threaded Connections: Excalibur recommends the use of quality grade sealant. Teflon tape, paste, or pipe joint compound is at the discretion of the installer. Some pipe joint compounds or Teflon pastes may contain substances that cause stress cracking to plastic. 1 to 2 turns beyond finger tight is all that is required to make a sound plastic threaded connection. **Over tightening** may cause damage to both pipe and fitting. Do Not Use Pipe Wrenches

Warning! Do not use compressed Gas or Air to test any PVC thermoplastic piping product or system. Do not use devices propelled by compressed Gas or Air to clear systems. By doing so, may result in explosive fragmentation of piping system and components causing bodily injury.

LENGTH OF CLOSE NIPPLES

Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
Close	3/4"	7/8"	1"	1-1/8"	1-3/8"	1-1/2"	1-5/8"	1-3/4"	2"	2-1/2"	2-5/8"	2-7/8"	3-1/2"
Short	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"	3"	3"	4"	4"

EXCALIBUR

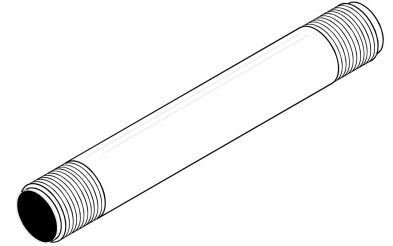
EXTRUSIONS

Schedule 80

MACHINED NIPPLES

Material: Polypropylene comply with ASTM D 4101, and pipe meets or exceeds standards set forth by ASTM F 2389.
Threads conform to ASTM F 1498

Polypropylene Natural or Black
TBE / TOE / Plain End*
Do Not Use For Compressed Air or Gas



Prefix N for Natural • B for Black**

Size	Pt. No	1/2" N005	3/4" N007	1" N010	1 1/4" N012	1 1/2" N015	2" N020	3" N030	4" N040	6" N060
Close	005	0.95	1.17	1.58	2.07	2.06	2.79	7.11	11.10	68.62
1-1/2"	015	1.03								
2"	020	1.16	1.32	1.66	2.18	2.16				
2-1/2"	025	1.28	1.50	2.06	2.72	2.70	3.12			
3"	030	1.40	1.66	2.22	2.79	2.84	3.20	7.71		
3-1/2"	035	1.52	1.82	2.46	3.10	3.16	3.53	8.31		
4"	040	1.64	1.97	2.72	3.43	3.49	3.96	9.13	12.29	70.30
4-1/2"	045	1.66	2.02	2.96	3.75	3.80	4.28	9.72	13.17	
5"	050	1.75	2.19	3.19	4.06	4.10	4.63	10.33	14.06	
5-1/2"	055	1.86	2.33	3.41	4.39	4.42	4.94	10.92	14.92	
6"	060	1.98	2.49	3.52	4.68	4.66	5.28	11.54	15.80	86.23
7"	070	2.21	2.81	3.99	5.32	5.42	5.95	12.74	17.56	
8"	080	2.45	3.12	4.44	5.95	5.93	6.62	13.95	19.31	92.44
9"	090	2.68	3.43	4.92	6.60	6.83	7.28	15.15	21.07	
10"	100	2.92	3.74	5.39	7.24	7.33	7.96	16.35	22.83	103.19
12"	120	3.38	4.38	6.31	7.89	8.58	9.31	18.77	26.33	112.51

*For T.O.E., Plain End, & Victaulic® add 10%

**For Black Polypropylene add 10%

List Price Each - Prices Subject to Change Without Notice
Any Length Available — Contact Factory For Pricing

Schedule 40

MACHINED NIPPLES

EXCALIBUR

EXTRUSIONS

TBE / TOE / Plain Ends*

Products comply fully with ASTM D 2466

Threads conform to ASTM F 1498

Nipples are produced from extruded pipe meeting ASTM D 1784 and ASTM D 1785

Not Recommended For Compressed Air or Gases

PVC (White)

Size	Pt. No	W005	W007	W010
Close	005	0.50	0.53	0.74
1-1/2"	015	0.53	0.53	0.00
2"	020	0.53	0.55	0.84
2-1/2"	025	0.55	0.61	0.89
3"	030	0.61	0.64	0.92
3-1/2"	035	0.64	0.70	0.99
4"	040	0.66	0.74	1.10
4-1/2"	045	0.74	0.86	1.23
5"	050	0.79	0.89	1.35
5-1/2"	055	0.84	0.97	1.42
6"	060	0.86	1.06	1.49
7"	070	0.97	1.12	1.64
8"	080	0.99	1.23	1.76
9"	090	1.12	1.35	1.98
10"	100	1.19	1.44	2.08
12"	120	1.35	1.64	2.35
14"	140	1.49	1.79	2.71
15"	150	1.63	1.89	2.90
16"	160	1.64	2.08	3.01
18"	180	1.82	2.18	3.33
20"	200	1.98	2.38	3.64
24"	240	2.24	2.79	4.02
36"	360	3.39	4.31	5.95

*T.O.E., Plain End, & Victaulic® add 10%
Any Length Available - Contact Factory For Pricing

Polyethylene (Black)

Size	Pt. No	P005	P007
Close	005	0.57	0.70
1-1/2"	015	0.57	-
2"	020	0.57	-
2-1/2"	025	0.61	0.79
3"	030	0.63	0.85
3-1/2"	035	0.64	0.96
4"	040	0.68	1.03
4-1/2"	045	0.77	1.13
5"	050	0.81	1.17
5-1/2"	055	0.83	1.20
6"	060	0.85	1.28
7"	070	0.94	1.35
8"	080	0.98	1.43
9"	090	1.08	1.55
10"	100	1.13	1.80
12"	120	1.28	1.89
14"	140	1.44	-
15"	150	1.52	-
16"	160	1.61	-
18"	180	1.78	-
20"	200	1.95	-
24"	240	2.31	-
36"	360	3.06	-

List Price Each - Prices Subject to Change Without Notice



Over Tightening May Cause
Damage To Pipe and Fittings

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EXTRUSIONS

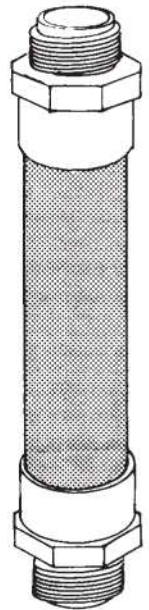
Flexible PVC

NIPPLES

Brown

Excalibur Hose ASTM D-2287
 Cell #6464500 Meets or Exceeds Cell #5360500
 Patent #3,759445

Part Number	Pipe Size	Overall Length	Type of Fittings	Quantity Per Box	Weight Per Box	List Price
506 MM	1/2"	6"	MAxMA	100	15	2.32
506 MF	1/2"	6"	MAxFA	100	15	2.49
506 FF	1/2"	6"	FAxFA	100	15	2.59
506 ME	1/2"	6"	MAx90 ELL	100	19	2.63
506 MS	1/2"	6"	MAxST ELL	100	18	2.84
506 SS	1/2"	6"	STxST ELL	100	19	3.93
512 MM	1/2"	12"	MAxMA	100	30	2.84
756 MM	3/4"	6"	MAxMA	50	11	3.20
756 MF	3/4"	6"	MAxFA	50	11	3.40
756 ME	3/4"	6"	MAx90 ELL	50	14	3.48
756 MS	3/4"	6"	MAxST ELL	50	13	4.10
756 SS	3/4"	6"	STxST ELL	50	14	4.37
712 MM	3/4"	12"	MAxMA	50	22	4.06
1007 MM	1"	7"	MAxMA	50	18	4.18
1007 MF	1"	7"	MAxFA	50	18	4.38
1007 ME	1"	7"	MAx90 ELL	50	21	4.73
1007 MS	1"	7"	MAxST ELL	50	20	5.98
1012 MM	1"	12"	MAxMA	50	27	5.17



Special Flexible PVC Nipples

Special nipples can be made in any length or with any combination of fittings so desired in minimum quantities of 50 or more of each item. Contact your Distributor or Factory for details.

For longer lengths use special nipple discount for item desired and add the following net cost per inch to your net cost.

1/2" - Add .036 Net/Inch

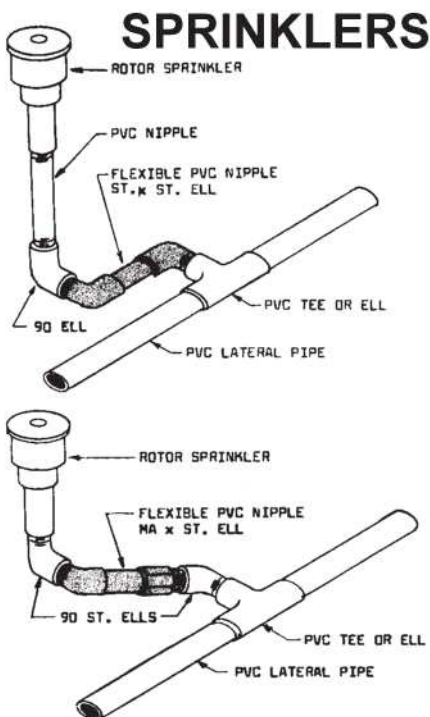
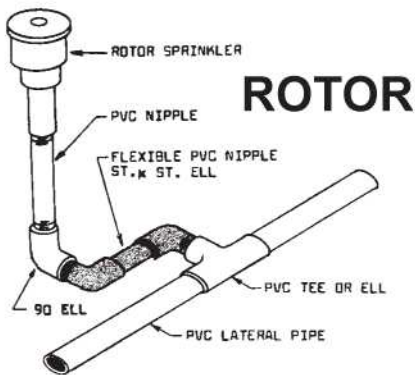
3/4" - Add .058 Net/Inch

1" - Add .088" Net/Inch

INSTALLATION

EXCALIBUR

EXTRUSIONS



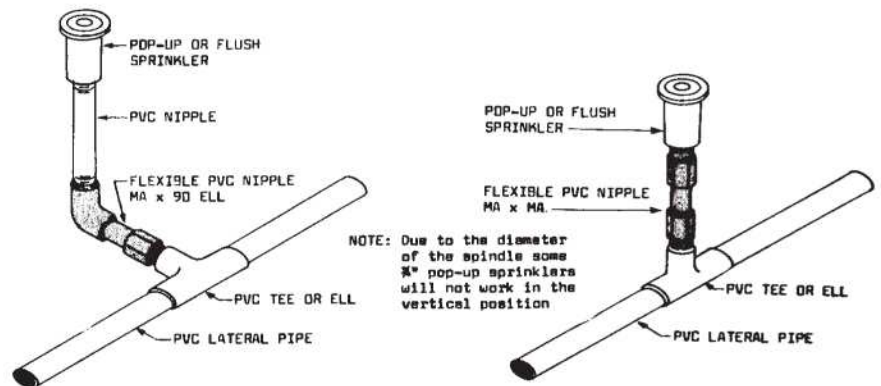
SPECIFICATIONS:

For 1/2", 3/4" & 1" Flexible PVC Nipples. Check factory for availability of sizes 1-1/4" & 1-1/2". Made from all virgin PVC materials. Flexible hose complies with ASTM D2287. Schedule 40 fittings complies with ASTM D2466. Tested at 200 psi static pressure for 2 hours. Quick burst test exceeds 400 psi.

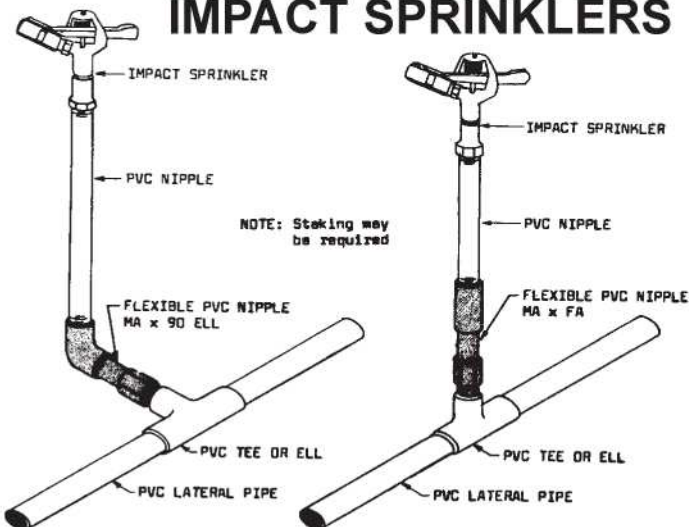
INSTALLATION INSTRUCTIONS:

1. If the system is to be pressure tested this must be done before installation of the flexible nipples or damage to the nipples could result.
2. Do not install under constant static pressure conditions such as under quick couplers or valve in head sprinklers.
3. When installing sprinkler heads on flexible nipples be sure to hold the nipple with a wrench so that the nipple is not twisted when tightening heads.

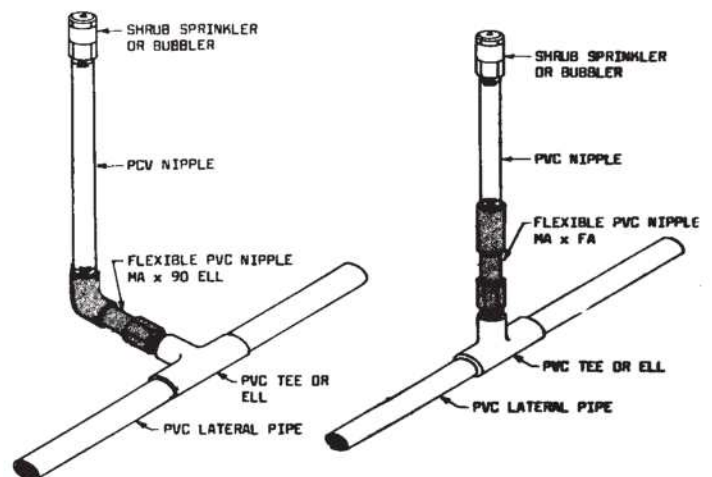
POP-UP OR FLUSH SPRINKLERS



IMPACT SPRINKLERS



SHRUB SPRINKLERS



EXCALIBUR

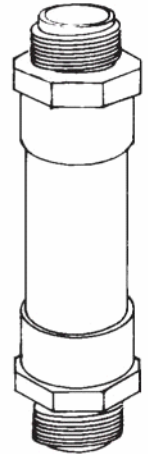
EXTRUSIONS

Extra Flexible PVC NIPPLES

White

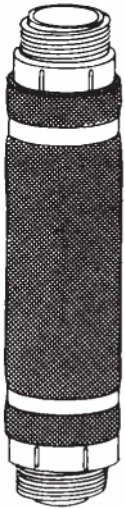
Patent #3,759,445

Pt. No.	Pipe Size	Overall Length	Type of Fitting	Quantity Per Box	Weight Per Box	List
504MM-EF	1/2"	4"	MA x MA	100	11	2.13
504MF-EF	1/2"	4"	MA x FA	100	11	2.24
504FF-EF	1/2"	4"	FA x FA	100	11	2.31
504ME-EF	1/2"	4"	MA x 90 ELL	100	15	2.32
504MS-EF	1/2"	4"	MA x ST ELL	100	14	2.54
504SS-EF	1/2"	4"	ST x ST ELL	100	15	3.74
505MM-EF	1/2"	5"	MA x MA	100	13	2.32
505MF-EF	1/2"	5"	MA x FA	100	13	2.49
505FF-EF	1/2"	5"	FA x FA	100	13	2.58
505ME-EF	1/2"	5"	MA x 90 ELL	100	17	2.58
505MS-EF	1/2"	5"	MA x ST ELL	100	16	2.83
505SS-EF	1/2"	5"	ST x ST ELL	100	17	3.92



Extra Flexible PVC Nipples are made of the finest quality virgin material
Especially useful where greater flexibility is required

Flexible Rubber Nipples



Pt. No.	Pipe Size	Overall Length	Type of Fitting	Quantity Per Box	Weight Per Box	List
R-506MM	1/2"	6"	MA x MA	100	13	2.31
R-756MM	3/4"	6"	MA x MA	50	14	5.72
R-756MS	3/4"	6"	MA x ST ELL	50	15	5.72
R-1007MM	1"	7"	MA x MA	50	19	6.42
R-1007MS	1"	7"	MA x ST ELL	50	21	6.43
R-1259MM	1-1/4"	9"	MA x MA	25	23	14.50
R-1259MS	1-1/4"	9"	MA x ST ELL	25	27	15.73
R-1511MM	1-1/2"	11"	MA x MA	25	29	18.75
R-1511MS	1-1/2"	11"	MA x ST ELL	25	31	20.57

Flexible Rubber Nipples are made of the finest synthetic rubber and are banded with stainless steel. They are impervious to acidic or alkaline soils. They are particularly useful under large turf irrigation equipment or cold weather applications.

INSTALLATION:

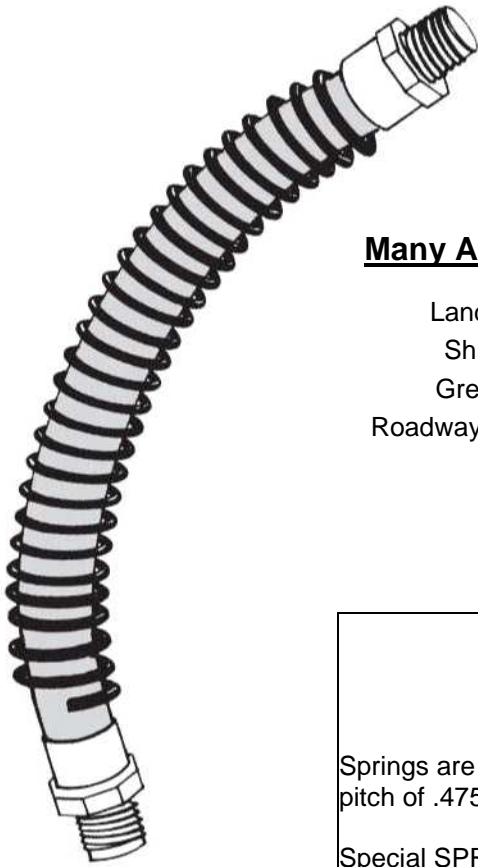
1. If the system is to be pressure tested this must be done before installation of the flexible rubber nipples or damage to the nipples could result.
2. Do not install under constant static pressure conditions such as under quick couplers or valve-in-head sprinklers.
3. When installing sprinkler heads on flexible rubber nipples be sure to hold the nipple with a wrench so that the nipple is not twisted when tightening heads.

Spring Back Risers®

FLEXIBLE PVC NIPPLES

EXCALIBUR

EXTRUSIONS



Spring Back Risers®
Springs Back To Original Position After Impact
Over 12 Years Field Tested & Approved

Many Applications

Landscaping
Shrubbery
Green Belts
Roadway Landscaping



Cuts Costs

Vandalism
Broken Pipes
Washed Out Landscaping

1/2" Heavy Wall Flex PVC Tube

Has Been Tested At Over 150 PSI

Springs are made from .187" DIA. (OTMB) Spring Wire. They have an inside DIA of .910" a pitch of .475" and have squared ends.

Special SPRING BACK RISERS® can be made in any length with any combination of fittings desired. Contact your distributor or factory for details.

5 Sizes

*As Specified for Cal. Trans. as TYPE B7

Part Number	Pipe Size	Overall Length	Spring Length	Box Quantity	List Price
SL508MM	1/2"	8"	4"	50	7.44
SL512MM	1/2"	12"	8"	50	8.58
SL516MM	1/2"	16"	12"	25	9.16
SL518MM	1/2"	18"	14"	25	9.36
SL524MM	1/2"	24"	18"	25	10.05

EXCALIBUR

EXTRUSIONS

Flexible PVC

HOSE

Brown / Black

Excalibur Hose ASTM D-2287
 Cell #6464500 As Specified by Cal Trans
 Extruded from Algae-Resistant resin
 Flexible PVC Hose Meets the Following Specifications
 50 PSI for 60 Minutes @ 73°F When Tested in Accordance with ASTM D-1598

Part Number	Size	List Per 100 Ft.	Ft. Per Coil	Weight Per 100 Ft.	Outside Diameter	Inside Diameter	Minimum Wall
005IRR	1/2" Irrigation	36.65	500	10.3	0.680"	0.500"	0.090"
006IRR	5/8" Irrigation	48.95	300	13.8	0.825"	0.625"	0.100"
007IRR	3/4" Irrigation	65.70	300	18.5	0.970"	0.750"	0.110"
010IRR	1" Irrigation	108.26	100	30.5	1.250"	0.970"	0.140"
005IPS	1/2" IPS	71.06	200	20.76	0.840"	0.546"	0.147"
007IPS	3/4" IPS	92.68	200	28.19	1.050"	0.742"	0.154"
010IPS	1" IPS	136.75	100	41.58	1.315"	0.957"	0.179"

Alertline

For Reclaimed Water applications
 Cell #6464500 As Specified by Cal Trans
 Extruded from Algae-Resistant resin
 Flexible PVC Hose Meets the Following Specifications
 50 PSI for 60 Minutes @ 73°F When Tested in Accordance with ASTM D-1598
 Produced with Purple Stripe to prevent cross contamination
 Print Reads "RECLAIMED WATER DO NOT DRINK"

Part Number	Size	List Per 100 Ft.	Ft. Per Coil	Weight Per 100 Ft.	Outside Diameter	Inside Diameter	Minimum Wall
005IPSP	1/2" IPS	176.44	200	20.76	0.840"	0.546"	0.147"
007IPSP	3/4" IPS	176.44	200	28.19	1.050"	0.742"	0.154"
010IPSP	1" IPS	249.48	100	41.58	1.315"	0.957"	0.179"

CUT LENGTHS OF IPS HOSE

Part Number	Size	Box Quantity	List Price Each	Part Number	Size	Box Quantity	List Price Each
CH005060	1/2" X 6"	200	0.43	CH007060	3/4" X 6"	200	0.56
CH005120	1/2" X 12"	100	0.86	CH007120	3/4" X 12"	100	1.01
CH005180	1/2" X 18"	50	1.28	CH007180	3/4" X 18"	50	1.51
CH005240	1/2" X 24"	50	1.72	CH007240	3/4" X 24"	50	2.00
CH005300	1/2" X 30"	50	2.13	CH007300	3/4" X 30"	50	2.61
CH005360	1/2" X 36"	25	2.56	CH007360	3/4" X 36"	25	3.01
CH005420	1/2" X 42"	25	3.07	CH007420	3/4" X 42"	25	3.50
CH005480	1/2" X 48"	25	3.52	CH007480	3/4" X 48"	25	4.19

Flexible PVC**FRICITION LOSS TABLE****EXCALIBUR**
e x t r u s i o n s**FRICITION LOSS IN P.S.I. PER 100 FT.**

GMP	Irrigation Hose				I.P.S. Hose		
	1/2"	5/8"	3/4"	1"	1/2"	3/4"	1"
1/2"	.30				.22		
1	1.22	.41	.16		.79	.18	
2	4.38	1.47	.61	.17	2.86	.64	.19
3	9.28	3.13	1.29	.37	6.05	1.36	.39
4	15.79	5.33	2.20	.63	10.30	2.31	.67
5	23.86	8.05	3.32	.95	15.56	3.50	1.01
6	33.44	11.29	4.65	1.33	21.80	4.90	1.42
7		15.01	6.18	1.78	28.99	6.52	1.89
8		19.22	7.92	2.27	37.11	8.34	2.42
9		23.91	9.85	2.82		10.37	3.00
10		29.05	11.97	3.42		12.75	3.65
11			14.27	4.08		15.04	4.36
12			16.76	4.80		17.66	5.12
13			19.44	5.65		20.48	5.93
14			22.30	6.38		23.49	6.81
15			25.33	7.24		26.69	7.74
20			43.13	12.34		45.45	13.17
25				18.64			19.91
30				26.12			27.90
35				34.74			37.10

These figures are derived from the Williams and Hazen formula reduced specifically for P.V.C.

Note: Pressure ratings for non-reinforced flexible vinyl hose have not been established by the Society of Plastics Industry due to the many variables that affect a non-rigid product, such as temperature, elasticity, etc. However, **Excalibur** customers have used PVC hose to 60 PSI on open-end sprinkler systems. If pressures are to exceed 60 PSI, **Excalibur** recommends that the purchaser should make their own test to determine the suitability of hose for their own particular purpose. Please note, a drip irrigation system is not classified as an open-end system. Flexible PVC hose is not recommended for closed systems.



Industrial Pipe

SCH 40 & SCH 80 PVC, CPVC

TYPE I PVC 1120-1220 SCHEDULE 40 PIPE									
Complies with ASTM D 1785 and Product Standard PS 21-70									
Part Number	Pipe Size	List Per 100 ft.	Ft. Per Bundle	Ft. Per Lift	Weight Per 100 ft.	Pressure Rating	Outside Diameter	Inside Diameter	Minimum Wall
002402	1/4"	39.91	500	5,000	7.8	780	0.540"	0.364	.088"
004402	3/8"	53.79	500	5,000	10.5	620	0.675"	0.493"	.091"
TYPE I PVC 1120-1220 SCHEDULE 80 PIPE									
Complies with ASTM D 1785 and Product Standard PS 21-70									
Part Number	Pipe Size	List Per 100 ft.	Ft. Per Bundle	Ft. Per Lift	Weight Per 100 ft.	Pressure Rating	Outside Diameter	Inside Diameter	Minimum Wall
001802	1/8"	41.64	500	5000	5.8	1230	0.405"	0.215"	.095"
002802	1/4"	50.31	500	5000	9.8	1130	0.540"	0.300"	.119"
004802	3/8"	69.40	500	5000	13.6	915	0.675"	0.423"	.126"
005802	1/2"	35.64	400	5000	20	850	0.840"	0.546"	.147"
007802	3/4"	48.48	300	4000	27.2	690	1.050"	0.742"	.154"
010802	1"	71.62	200	3000	40.2	630	1.315"	0.957"	.179"
012802	1 1/4"	98.51	100	2500	55.3	520	1.660"	1.278"	.191"
015802	1 1/2"	119.70	100	2000	67.2	470	1.900"	1.500"	.200"
020802	2"	165.67	100	1500	93	400	2.375"	1.939"	.218"

HI TEMP CPVC SCHEDULE 40 PIPE									
DO NOT THREAD									
Complies with ASTM D 1784; ASTM F-441; Commercial Standard CS-207-60									
Part Number	Pipe Size	List Per 100 ft.	Ft. Per Bundle	Ft. Per Lift	Weight Per 100 ft.	Pressure Rating	Outside Diameter	Inside Diameter	Minimum Wall
C002402	1/4"	89.14	500	5,000	8.7	780	0.540"	0.364	.088"
C004402	3/8"	117.36	500	5,000	11.7	620	0.675"	0.493"	.091"
HI TEMP CPVC SCHEDULE 80 PIPE									
Part Number	Pipe Size	List Per 100 ft.	Ft. Per Bundle	Ft. Per Lift	Weight Per 100 ft.	Pressure Rating	Outside Diameter	Inside Diameter	Minimum Wall
C001802	1/8"	78.40	500	5,000	6.3	1230	0.405"	0.215"	.095"
C002802	1/4"	108.04	500	5,000	10.9	1130	0.540"	0.300"	.119"
C004802	3/8"	151.21	500	5,000	15.2	915	0.675"	0.423"	.126"
C005802	1/2"	174.82	400	5,000	24.6	850	0.840"	0.546"	.147"
C007802	3/4"	239.51	300	4,000	30.4	690	1.050"	0.742"	.154"
C010802	1"	349.60	200	3,000	46.0	630	1.315"	0.957"	.179"
C012802	1 1/4"	484.44	100	2,500	61.8	520	1.660"	1.278"	.191"
C015802	1 1/2"	585.96	100	2,000	75.1	470	1.900"	1.500"	.200"
C020802	2"	809.05	60	1,500	103.9	400	2.375"	1.939"	.218"

20 Ft. Lengths — Plain Ends, Belled Ends Available Sch 40 Not Recommended For Threading
 NOT RECOMMENDED FOR COMPRESSED AIR OR GAS

Industrial Pipe

Sch 80 POLYPROPYLENE



BLACK POLYPROPYLENE

NOT RECOMMENDED FOR COMPRESSED AIR OR GASES

Material: Meets the specification for Polypropylene per ASTM D 4101. Pipe: Meets ASTM F 2389.

Part Number	Pipe Size	List Per 100 Ft.	Ft. Per Bundle	Ft. Per Lift	Weight Per 100 Ft.	Outside Diameter	Inside Diameter	Minimum Wall
B002802	1/4"	93.99	500	5,000	6.7	0.540"	0.300"	.119"
B004802	3/8"	128.49	500	5,000	9.3	0.675"	0.423"	.126"
B005802	1/2"	137.29	400	5,000	13.6	0.840"	0.546"	.147"
B007802	3/4"	179.54	300	4,000	18.4	1.050"	0.742"	.154"
B010802	1"	264.01	200	3,000	27.1	1.315"	0.957"	.179"
B012802	1 1/4"	362.58	100	2,500	37.3	1.660"	1.278"	.191"
B015802	1 1/2"	348.49	100	2,000	44.8	1.900"	1.500"	.200"
B020802	2"	482.25	60	1,500	62	2.375"	1.939"	.218"
B030802	3"	964.53		1,000	124.1	3.500"	2.900"	.300"
B040802	4"	1408.05		600	181.4	4.500"	3.826"	.337"
B060802	6"	2685.86		300	345.9	6.625"	5.761"	.432"

20 Ft. Lengths — Plain Ends

NATURAL POLYPROPYLENE

NOT RECOMMENDED FOR COMPRESSED AIR OR GASES

Material: Meets the specification for Polypropylene per ASTM D 4101. Pipe: Meets ASTM F 2389.

Part Number	Pipe Size	List Per 100 Ft.	Ft. Per Bundle	Ft. Per Lift	Weight Per 100 Ft.	Outside Diameter	Inside Diameter	Minimum Wall
N002802	1/4"	84.37	500	5,000	6.7	0.540"	0.300"	.119"
N004802	3/8"	117.83	500	5,000	9.3	0.675"	0.423"	.126"
N005802	1/2"	125.09	400	5,000	13.6	0.840"	0.546"	.147"
N007802	3/4"	162.92	300	4,000	18.4	1.050"	0.742"	.154"
N010802	1"	241.47	200	3,000	27.1	1.315"	0.957"	.179"
N012802	1 1/4"	330.74	100	2,500	37.3	1.660"	1.278"	.191"
N015802	1 1/2"	317.11	100	2,000	44.8	1.900"	1.500"	.200"
N020802	2"	437.84	60	1,500	62	2.375"	1.939"	.218"
N030802	3"	877.12		1,000	124.1	3.500"	2.900"	.300"
N040802	4"	1280.05		600	181.4	4.500"	3.826"	.337"
N060802	6"	2440.82		300	345.9	6.625"	5.761"	.432"

20 Ft. Lengths — Plain Ends

Prices Subject to Change Without Notice

Copolymer Polypropylene is joined by the thermo-seal fusion process, threading or flanging. Polypropylene has resistance to common reagents such as sulfuric acid, nitric acid, hydrochloric acid and caustic soda. Polypropylene is excellent even at high temperatures where thermoplastics such as PVC and Polyethylene cannot be used. Resistance to abrasion is also very high. Polypropylene is not recommended to be used with strong oxidizing acids, chlorinated hydrocarbons and aromatics.



Clear PVC

SCH 40 and CL 100

Made from PVC 2110-2116 meeting ASTM D 1784 and meets
ASTM D 1785, products standard 21-70

Part Number	Size	O.D.	Average I.D.	Min. Wal	Weight Per 100 ft.
CLR005401	1/2" Sch 40	.840"	.622"	.109"	15.70
CLR007401	3/4" Sch 40	1.050"	.824"	.113"	21.00
CLR010401	1" Sch 40	1.315"	1.049"	.133"	30.10
CLR012401	1 1/4" Sch 40	1.660"	1.380"	.140"	42.10
CLR015401	1 1/2" Sch 40	1.900"	1.610"	.145"	50.50
CLR020401	2" Sch 40	2.375"	2.067"	.154"	67.80
CLR030401	3" Sch 40	3.500"	3.068"	.216"	140.80
CLR040401	4" Sch 40	4.500"	4.026"	.237"	200.10
CLR060101	6" CL 100	6.625"	6.301"	.162"	215.80

Standard 10 foot lengths.
Belling are available with minimum runs.

The material used to manufacture the Sch 40 and CL 100 Clear PVC is a food grade extrusion molding compound with indoor UV resistance properties, high gloss, and clarity. This material is formulated with an FDA approved tin stabilizer to meet the 21CFR 178.2650 food additive regulation, and is produced under stringent manufacturing conditions limiting RVCM to minimum levels.

Not suitable for contact with liquid milk, malt beverages, or non alcoholic carbonated beverages.

2" Vacuum Tube Grey, White, Clear

For Residential Central Vacuum Systems

Custom Colors • Custom Printing in Ink or Embossing
 Custom Packaging • Bundling for UPS

Quantity	Price per Foot
1—9,999'	.3168
10,000—19,999'	.2991
20,000—38,399'	.2842
38,400—76,799'	.2699
76,800 & Up	.2567



Specifications: ASTM F2158

O.D. 2.00" +.005" -.005"
 Wall: .060" +.005" -.005"

Fire Rating: UL-94V-0

Material: Type II (Hi Impact) PVC 2110-2116

Freight Class: #157004 Sub 3 - Plastic Pipe
 Class 70

Weight: 23 lbs. per 100' ft.

EXCALIBUR

EXTRUSIONS

Drop Pipe

SCHEDULE 80

PVC Schedule 80 Drop Pipe is manufactured in accordance with ASTM D 1785

Order Number	Size	List Per 100 ft.	Lift Quantity	O.D.	Average I. D.	Min. Wall	Weight Per 100 ft.
DP010	1"	162.48	5,000'	1.315"	.957"	.179"	40.9
DP012	1 1/4"	214.47	4,000'	1.660"	1.278"	.191"	56.7
DP015	1 1/2"	326.48	3,000'	1.900"	1.500"	.200"	68.6
DP020	2"	424.87	2,000'	2.375"	1.939"	.218"	94.9

Available in 20' lengths only
without notice

Pipe is supplied threaded both ends.

Threaded Drop Pipe is covered by a 15 year limited warranty

Prices are subject to change

Installing PVC Drop Pipe

Check the conformity of threads on ends of pipe. Using Teflon dope or Teflon tape* on all threaded joints, attach one length of pipe to pump housing. All joints must be hand tightened plus one to two complete turns with a strap wrench.

DO NOT USE REGULAR WRENCH ON PLASTIC PIPE. This could result in damaged pipe and void warranty. Using a pump dog at the coupling, lower one length of pipe at a time. You may use a pipe jack to hold pipe down while connecting the next length without crushing pipe.

A centering device is recommended to center pump in well casing. Use centering device at 80' intervals to protect wiring from rubbing on the inside of well casing. All wire must be taped at 10' intervals.

Although not required, Excalibur does recommend the use of a safety rope in all installations.

* Teflon tape, if properly applied, will work on threaded joints, Excalibur recommends using a sealant such as Weld-On's Seal-On 500 Thread Sealant to avoid over stressing threaded joints. (Do not use a petroleum based pipe dope)

Pipe Size	Maximum H.P.	Recommended Fittings*	Maximum Depth	Torque Arrester
1"	1.5	Extruded Couplings	480'	use over 150'
1 1/4"	2	Extruded Couplings	480'	use over 150'
1 1/2"	5	Malleable, Steel, or Brass Couplings	350'	use over 150'
2"	7.5	Malleable, Steel, or Brass Couplings	350'	use over 150'

* Do Not Use Standard Injected Molded Couplings On Any Diameter Pipe.

All Warranties Expressed Or Implied Become Void
Contact Factory For Threaded Drop Pipe Couplings

Technical Data



Excalibur's Part Numbers

For your convenience, you will find our part numbers on each of our nipple sheets. This will give you the option of ordering by description or by part number.

Example—1/2" x 6" Sch 80 PVC
005060

Physical & Thermal Properties of:

	PVC	CPVC
Specific Gravity	1.4	1.55
Izod Impact Strength (fts. Lbs./inch of notch)	0.8	3.0
Modules of Elasticity, psi	4.2 x 10 [#]	4.23 x 10 [#]
Ultimate Tensile Strength, psi	7200	8400
Working Stress@73 F, psi	2000	2000
Hazen & Williams "C" factor	150	150
Coefficient of Linear Expansion x 10 # in(in F)	3.0	3.8
Thermo Conductivity BTU/(hr F ft#/in)	1.10	0.95
Upper Temperature Limit	140	210
Flammability—Burns only when in contact with ignition		

source.

Chemical Resistance of PVC

Weak Acids	Resistant
Strong Acids	Resistant in most situations
Weak Basis	Resistant
Strong Basis	Resistant
Solvents	Resists alcohols, aliphatic hydrocarbons and oils. Soluble or swell in ketones and esters. Swell in aromatics.
Halogens	Attacked by elemental halogens. Resists

Temperature Correction Factors

The effects of temperature have been exhaustively studied and correction (derating) factors developed for each thermoplastic piping compound. To determine the maximum operating pressure at any given temperature, multiply the pressure rating at ambient by the temperature correction factor for that material. Attention must also be given to the pressure rating of the joining technique, i.e., threaded system normally reduces pressure capabilities substantially.

Operating Temperatures F	FACTORS		
	PVC	CPVC	POLYPROPYLENE
73	1.00	1.00	1.00
80	0.90	0.96	0.97
90	0.75	0.92	0.91
100	0.62	0.85	0.85
110	0.50	0.77	0.80
120	0.40	0.70	0.75
130	0.30	0.62	0.68
140	0.22	0.55	0.65
150	N/R	0.47	0.57
160	N/R	0.40	0.50
180	N/R	0.25	N/R
200	N/R	0.18	N/R
210	N/R	0.16	N/R
220	N/R	N/R	N/R

**Caution should be exercised in design of system
operating above 100 F**

Compressed Air or Gases

Excalibur strongly recommends against testing assembled PVC piping systems with compressed air or other compressed gases and against using PVC systems for distribution of compressed air or gases.

**PRIMER AND CEMENT:**

First and most important, choose the proper solvent cements and primers. According to the American Society for Testing and Materials (ASTM), a primer must be identified by its function and the designation "F-656" on its label. This avoids confusion with plastic piping cleaner, which is intended only to clean the surface of the pipe. Most primers are colored blue or purple to aid you in verifying their use in a completed joint. Most solvent cement labels show the pipe sizes that the manufacturer recommends for that cement. Follow the cement manufacturer's instructions rigidly; otherwise, joint failure is likely. Solvent cements designed for smaller-sized piping systems have a more "water-like" consistency. They do not have the body necessary to fill the normal gap or void between larger-diameter fittings and pipe. In some of the larger sizes (4-inch Schedule 40, for example), the industry-allowable tolerances for pipe and fittings can result in a gap of approximately 1/32 inch at the socket entrance. Correct size applicators Solvent cement consists primarily of volatiles that evaporate during curing. When an applicator or brush is too small to apply the cement quickly, the volatiles flash off, leaving insufficient solvent to create a bond between the pipe and fitting. This results in a dry joint. To prevent dry joints, the applicator size should be at least one half the pipe diameter. For example, a 4-inch pipe requires a 2-inch wide brush or applicator. The typical one-quart cement can comes with a 1½-inch-diameter applicator. .

Proper procedures for solvent cementing PVC Do not ignore the proper sequence of applying the primer and cement.

Follow these steps in order:

1. Assemble necessary materials needed.
2. Cut pipe square.
3. Remove all burrs.
4. Clean ends to remove dirt and moisture.
5. Conduct a dry-fit of pipe to the fitting socket.
6. Prime both the pipe and fitting socket to be joined.
7. Immediately apply a coat of cement to the pipe end.
8. Apply a light coat of cement to the fitting socket.
9. Add a second coat of cement to the pipe.
10. Push the parts together, rotating one-eighth to one-quarter turn, and hold for 15 to 30 seconds. (In cold weather installations, increase the hold time to prevent push-off.)
11. Wipe off excess cement.
12. Follow specified wait-time prior to disturbing.
13. Place carefully into position.
14. Snake pipe in ditch from side-to-side.
15. Shade pipe with back-fill, leaving joints exposed for testing.
16. Check cure time, which will depend on humidity, temperature, pipe size, cement type, and dry-fit tightness.
17. Bring pipe to operating temperature prior to testing and backfilling.
18. Conduct pressure test.

INSTALLATION OF FLEXIBLE PVC IPS HOSE:

1. Flexible PVC hose is not recommended for closed systems. Please note, a drip irrigation system is not classified as an open-end system.
2. If the system is to be pressure tested this must be done before installation of the flexible PVC hose or damage to the nipples could result.
3. Do not install under constant static pressure conditions such as under quick couplers or valve-in-head sprinklers.

PRODUCTS

Water Conditioning

EXCALIBUR

EXTRUSIONS

Assembled Brinewells 3 1/2" ID White

Part Number	Size	1 - 24 Pcs.	25 - 99 Pcs.	100 - 499 Pcs.	500 Pcs & Up
BWT215	21 1/2"	3.3110	2.8806	2.6819	2.4998
BWT270	27"	4.0535	3.5265	3.2833	3.0604
BWT280	28"	4.2350	3.6545	3.4304	3.1974
BWT300	30"	4.3191	3.7581	3.4990	3.2614
BWT320	32"	4.5012	3.9160	3.6460	3.3984
BWT360	36"	4.8763	4.2424	3.9498	3.6816
BWT3875	38 3/4"	5.2393	4.5582	4.2438	3.9557

Brinewells supplied slotted for flow and come pre-assembled complete with tops and bottoms. Any length available. Contact factory for pricing.
25 pcs. per carton

Unassembled Brinewells - 3 1/2" ID White

Part Number	Size	1 - 24 Pcs.	25 - 99 Pcs.	100 - 499 Pcs.	500 Pcs. & Up
BWT260U	26"	3.008	2.6107	2.4306	2.2656
BWT270U	27"	3.0855	2.6844	2.4993	2.3296
BWT280U	28"	3.2912	2.8633	2.6659	2.4849
BWT290U	29"	3.2670	2.8423	2.6463	2.4666
BWT300U	30"	3.3759	2.9370	2.7345	2.5488
BWT320U	32"	3.5574	3.0949	2.8815	2.6858
BWT360U	36"	3.9083	3.4002	3.1657	2.9508
BWT375U	37 1/2"	4.1987	3.6529	3.4009	3.1700
BWT3875U	38 3/4"	4.2834	3.7266	3.4696	3.2340

Brinewells supplied slotted for flow. Tops and Bottoms are sold separately. Any length available. Contact factory for pricing.
25 pcs. per carton

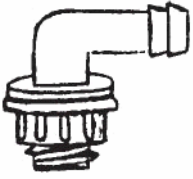
Brinewell Tops and Bottoms

1 - 99 Pcs.	100 - 249 Pcs.	250 - 499 Pcs.	500 Pcs. & Up
\$.3660 ea.	\$.3176 ea.	\$.2723 ea.	\$.2117 ea.

EXCALIBUR

EXTRUSIONS

Water Conditioning Accessories



Overflow Fittings

Elbows (Black BWBOF) \$.40 ea.
 (Natural BWNOF)
 Nuts (Black BWBON) \$.20 ea.
 (Natural BWNON)
 500 Sets Min.



U-Bends

3/4" Sch 80 PVC—\$1.42 ea.

3/8" White Tube

O.D. .375" Min. Wall .065"
 20 ft. Lengths Uncut \$12.49 per 100 ft.
 500 ft. min.

13/16" Grey Tube

Part Number: BW1316
 O.D. .812" Min. Wall .057"
 20 ft. Lengths Uncut \$20.82 per 100 ft.
 500 ft. min.

Straight Lengths

Bent Lengths

1" - 12" \$1.1885 ea.	13" - 24" \$1.7364 ea.
13" - 24" \$1.3213 ea.	25" - 36" \$1.8503 ea.
25" - 36" \$1.4338 ea.	37" - 48" \$1.9827 ea.
37" - 48" \$1.5678 ea.	49" - 60" \$1.1593 ea.
49" - 60" \$1.6801 ea.	



Straight Lengths

1" - 12" \$2.2465
13" - 24" \$4.4351
25" - 36" \$6.6249
37" - 48" \$8.8140
49" - 60" \$11.0032

3/4" CL 125 White PVC x 10'

Part Number: BW20010G
 O.D. 1.050" Min. Wall .045"
 250 ft. min.

250' - 3,999'	\$19.09 per 100 ft.
4,000' - 19,999'	\$15.91 per 100 ft.
20,000' - 39,999'	\$14.31 per 100 ft.
40,000' And Over	\$12.72 per 100 ft.

3/4" CL 200 White PVC x 10'

Part Number: BW20010
 O.D. 1.050" Min. Wall .060"
 250 ft. min.

250' - 3,999'	\$19.09 per 100 ft.
4,000' - 19,999'	\$15.91 per 100 ft.
20,000' - 39,999'	\$14.31 per 100 ft.
40,000' And Over	\$12.72 per 100 ft.

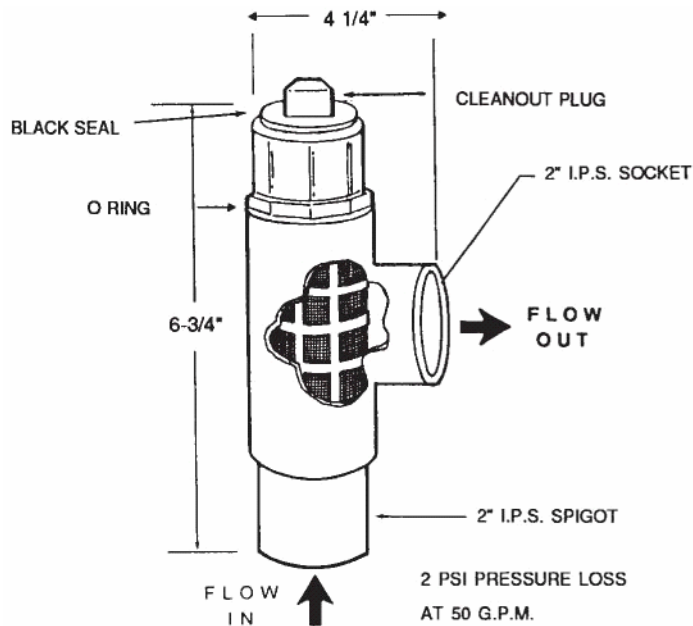
Please Contact Factory For Custom Sizes and Lengths

Wye & Tee

STRAINERS

EXCALIBUR

EXTRUSIONS



All Plastic

TEE STRAINERS

200 PSI OPERATING PRESSURE

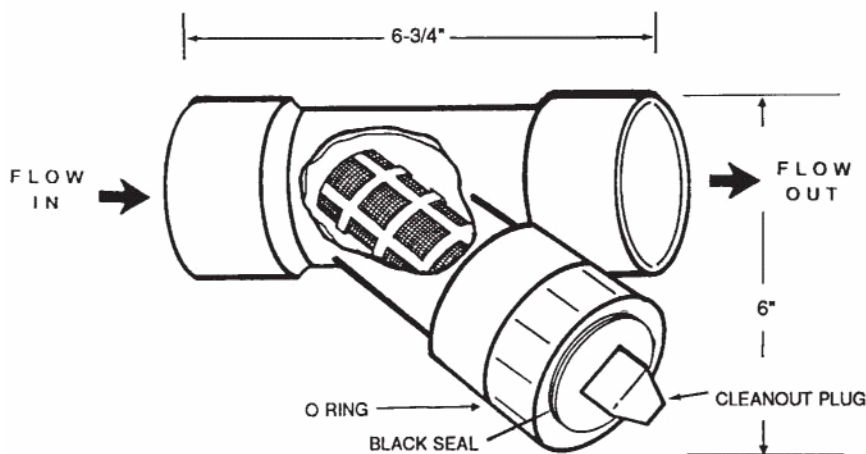
List Price - \$24.45
(Including Plastic Screen)

Tee Strainers are white PVC 2" spigot inlet and 2" socket outlet.

Strainers can be bushed for smaller lines and manifolded where larger capacities are required.

Order As: TS020 2" Tee Strainer
Less Screen \$19.37

Shipping Weight: 1.50 lb./ea.



Heavy Duty All Plastic

WYE STRAINERS

200 PSI OPERATING PRESSURE

List Price - \$41.16
(Including Plastic Screen)

Tee Strainers are white PVC 2" socket inlet and 2" socket outlet.

Strainers can be bushed for smaller lines and manifolded where larger capacities are required.

Order As: HS020 2" Heavy Duty Wye
Less Screens \$35.57

Shipping Weight: 1.50 lb./ea.

Order Screens Separately



TYPE II PVC 2116 CONTROL TUBING
Light Grey

Part Number	Copper Tube Size	List Per 100 Ft.	Feet Per Coil	Weight Per 100 Ft.	Outside Diameter	Inside Diameter	Minimum Wall
002C.T.	1/4"	11.59	500'	2	0.250"	0.156"	0.047"
003C.T.	5/16"	18.51	500'	3.2	0.312"	0.187"	0.062"
004C.T.	3/8"	24.67	500'	3.9	0.375"	0.250"	0.062"
005C.T.	1/2"	38.71	500'	5.6	0.500"	0.375"	0.062"

Hydraulic Control Tubing for Irrigation Controllers

Offers reliable hydraulic performance for quiet & smooth water flow during operation.

Low pressure required to operate each valve.

Brass Compression Unions Available – Contact Factory For Pricing



Terms & Conditions of Sale

Order Acceptance: Excalibur Extrusions, Inc. (hereinafter "Seller") reserves the right to accept or reject any order. Possession of a price list by Customer does not constitute an offer to sell.

Credit Approval: Customer credit approval is required prior to any shipments.

Standard Terms: Net 30 days on approved credit. No unauthorized deductions are allowed.

List Price, Discount, Freight: List Prices, discount, and freight are subject to change without notice. All prices are F. O. B. seller's factory or authorized warehouse at Seller's discretion. Products listed hereon will be invoiced at price prevailing at time of shipment.

Method of Shipment or Packaging: Special packaging or handling, and any additional costs will be the responsibility of the Customer.

Damage, Loss, or Shortage Claims: Shipping errors must be made to the Seller within 20 days of receipt of order. Common carriers require access to inspect original packaging, in order to process damage or loss claims. It is the duty of the consignee, or party in possession, to retain damaged merchandise and shipping container without disposing thereof, until the investigation of the claim has been concluded. The consignee should inspect the freight for damage and record any obvious damage on the delivery record. Be as specific as possible in describing the damage and avoid general terms such as "cartons damaged".

Delivery: Customer is advised that delivery dates are estimated or schedules are based at the time of quotation and that Seller will devote its best efforts to meet schedules. However, the Seller assumes no liability for additional cost or damages resulting from late deliveries.

Returns: No returned products will be accepted without an RGA number provided by the Seller. Products arriving to Seller without an RGA number will be returned to the Customer/Distributor, freight collect. All product(s) being returned must be freight prepaid to Seller for inspection. There will be a 20% restocking charge of the net of the invoice. An additional 15% will be charged to all products if repackaging is required. Please have Purchase Order number and/or Invoice number available.

Seller will not accept:

1. Products that have been invoiced for more than 1 year.
2. Products that are dirty or damaged and unsuited for sale.
3. Special order products, non-stock or obsolete material cannot be canceled or returned.

WARRANTY

All Excalibur Products are guaranteed against defects resulting from faulty workmanship or material for one year from the date of delivery provided that the products are installed, used and/or adjusted only in strict accordance with the appropriate guidelines. If any such product is found to be defective by reason of faulty workmanship or materials, upon written notice and return of the product, the defective product will be re-supplied by Excalibur free of charge, including shipping charges for the re-supplied products. Claims for labor costs and other expenses required to re-supply such defective product or to repair any damage resulting from the use thereof will not be allowed by Excalibur. Excalibur's liability is limited to the price paid for the defective product. Excalibur shall not be bound by any warranty other than the above set forth unless such warranty shall be in writing. No returned product will be accepted without prior written authorization.



**Quality Products For The Turf, Agriculture,
Home Improvement, Personal Recreation, Water Treatment,
As Well As The Custom Extrusion Markets**

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