

## Expansion Joints Fabricated Expansion Joints



### Triple O-ring Sealed Telescoping Design Available with 6" and 12" Travel



- Compact Installation - Eliminates Need For Expansion Loops
- EPDM or FKM Pressure O-ring Seal with Dual "Wiper" O-ring for Extended Life
- Support Piston Eliminates Binding, Minimizes Alignment Problems
- Excellent For Use as a Repair Coupling

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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#### PVC Fabricated Expansion Joints 6" Travel with EPDM O-rings



1/2" - 2" 235 psi @ 73°F (23°C)  
2-1/2" - 12" 150 psi @ 73°F (23°C)  
14" 100 psi @ 73°F (23°C)

826-005X6	1/2	10	0	085	313.03
826-007X6	3/4	6	0	085	336.52
826-010X6	1	5	0	085	340.31
826-012X6	1-1/4	4	0	085	395.55
826-015X6	1-1/2	4	0	085	419.43
826-020X6	2	2	0	085	469.18
826-025X6	2-1/2	1	0	085	535.15
826-030X6	3	1	0	085	555.51
826-040X6	4	1	0	085	596.17
826-060X6	6	1	0	085	982.20
826-080X6	8	1	0	085	1352.21
826-100X6	10	1	0	085	1587.88
826-120X6	12	1	0	085	2813.54
826-140X6	14	1	0	085	3213.82

FKM O-rings available on special order. Add a "V" preceding the dash (-) separator, e.g. 826V-005X6.

#### PVC Fabricated Expansion Joints 12" Travel with EPDM O-rings



1/2" - 2" 235 psi @ 73°F (23°C)  
2-1/2" - 12" 150 psi @ 73°F (23°C)  
14" 100 psi @ 73°F (23°C)

826-005X12	1/2	10	0	085	352.11
826-007X12	3/4	6	0	085	372.39
826-010X12	1	5	0	085	446.24
826-012X12	1-1/4	4	0	085	568.92
826-015X12	1-1/2	4	0	085	451.77
826-020X12	2	2	0	085	532.92
826-025X12	2-1/2	1	0	085	895.29
826-030X12	3	1	0	085	688.48
826-040X12	4	1	0	085	773.44
826-060X12	6	1	0	085	1126.68
826-080X12	8	1	0	085	1510.54
826-100X12	10	1	0	085	1846.74
826-120X12	12	1	0	085	2957.95
826-140X12	14	1	0	085	3283.27

FKM O-rings available on special order. Add a "V" preceding the dash (-) separator, e.g. 826V-005X12

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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#### CPVC Fabricated Expansion Joints 6" Travel with FKM O-rings



1/2" - 2" 235 psi @ 73°F (23°C)  
2-1/2" - 12" 150 psi @ 73°F (23°C)

826-005X6C	1/2	10	0	085	387.05
826-007X6C	3/4	6	0	085	423.54
826-010X6C	1	5	0	085	457.80
826-012X6C	1-1/4	4	0	085	480.84
826-015X6C	1-1/2	4	0	085	524.06
826-020X6C	2	2	0	085	664.05
826-025X6C	2-1/2	1	0	085	788.00
826-030X6C	3	1	0	085	915.43
826-040X6C	4	1	0	085	1350.14
826-060X6C	6	1	0	085	1451.36
826-080X6C	8	1	0	085	2753.19
826-100X6C	10	1	0	085	3514.77
826-120X6C	12	1	0	085	4662.63

EPDM O-rings available on special order. Add an "E" preceding the dash (-) separator, e.g. 826E-005X6C

#### CPVC Fabricated Expansion Joints 12" Travel with FKM O-rings



1/2" - 2" 235 psi @ 73°F (23°C)  
2-1/2" - 12" 150 psi @ 73°F (23°C)

826-005X12C	1/2	10	0	085	394.20
826-007X12C	3/4	6	0	085	452.06
826-010X12C	1	5	0	085	482.24
826-012X12C	1-1/4	4	0	085	764.46
826-015X12C	1-1/2	4	0	085	605.32
826-020X12C	2	2	0	085	772.65
826-025X12C	2-1/2	1	0	085	1169.72
826-030X12C	3	1	0	085	940.04
826-040X12C	4	1	0	085	1557.18
826-060X12C	6	1	0	085	1715.44
826-080X12C	8	1	0	085	3284.37
826-100X12C	10	1	0	085	3847.76

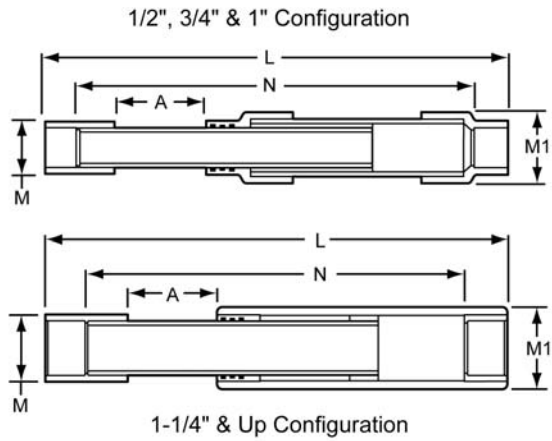
EPDM O-rings available on special order. Add an "E" preceding the dash (-) separator, e.g. 826E-005X12C



## Expansion Joints Fabricated Expansion Joints

### EXPANSION JOINT REPAIR COUPLING (Soc x Soc)

1/2" - 2" 235 psi @ 73°F (23°C)  
 2- 1/2" - 12" 150 psi @ 73°F (23°C)  
 14" 100 psi @ 73°F (23°C)  
 NOTE: "A" = Midpoint of Extension



Part Number		Size	A	L	M	M1	N	Approx. Wt. (Lbs.)	
PVC	CPVC							PVC	CPVC
826-005X6	826-005X6C	1/2	3	13- 11/16	1- 9/32	1- 23/32	11- 15/16	.50	.55
826-007X6	826-007X6C	3/4	3	14- 13/16	1- 1/2	2- 1/16	12- 13/16	1.00	1.10
826-010X6	826-010X6C	1	3	15- 15/16	1- 23/32	2- 11/32	13- 11/16	1.00	1.10
826-012X6	826-012X6C	1- 1/4	3	15- 3/4	2- 7/32	2- 3/8	13- 3/8	1.50	1.65
826-015X6	826-015X6C	1- 1/2	3	16- 1/8	2- 11/32	2- 7/8	13- 7/16	2.00	2.20
826-020X6	826-020X6C	2	3	16- 15/16	2- 7/8	3- 1/2	13- 15/16	3.00	3.30
826-025X6	826-025X6C	2- 1/2	3	18- 7/8	4- 3/16	4- 1/2	14- 7/8	6.00	6.60
826-030X6	826-030X6C	3	3	18- 3/4	4- 3/16	4- 1/2	15- 1/4	6.00	6.60
826-040X6	826-040X6C	4	3	19- 3/4	5- 5/16	5- 9/16	15- 3/16	7.00	7.70
826-060X6	826-060X6C	6	3	22- 3/4	7- 11/16	8- 5/8	16- 3/4	26.50	29.15
826-080X6	826-080X6C	8	3	27- 1/4	9- 11/16	10- 3/4	19- 1/4	40.50	44.55
826-100X6	826-100X6C	10	3	35- 7/8	11- 13/16	12- 3/4	25- 7/8	67.00	73.70
826-120X6	826-120X6C	12	3	39- 1/2	14- 1/8	16	27- 1/2	134.00	147.40
826-140X6	---	14	3	49- 3/4	15- 5/8	16	34- 7/8	104.27	---

Part Number		Size	A	L	M	M1	N	Approx. Wt. (Lbs.)	
PVC	CPVC							PVC	CPVC
826-005X12	826-005X12C	1/2	6	16- 11/16	1- 9/32	1- 23/32	14- 15/16	.57	.63
826-007X12	826-007X12C	3/4	6	17- 13/16	1- 1/2	2- 1/16	15- 13/16	1.14	1.26
826-010X12	826-010X12C	1	6	18- 15/16	1- 23/32	2- 11/32	16- 11/16	1.14	1.26
826-012X12	826-012X12C	1- 1/4	6	18- 3/4	2- 7/32	2- 3/8	16- 3/8	1.71	1.88
826-015X12	826-015X12C	1- 1/2	6	19- 1/8	2- 11/32	2- 7/8	16- 7/16	2.28	2.51
826-020X12	826-020X12C	2	6	19- 15/16	2- 7/8	3- 1/2	16- 15/16	3.43	3.77
826-025X12	826-025X12C	2- 1/2	6	21- 7/8	4- 3/16	4- 1/2	17- 7/8	6.85	7.54
826-030X12	826-030X12C	3	6	21- 3/4	4- 3/16	4- 1/2	18- 1/4	6.85	7.54
826-040X12	826-040X12C	4	6	22- 3/4	5- 5/16	5- 9/16	18- 3/16	8.00	8.80
826-060X12	826-060X12C	6	6	25- 3/4	7- 11/16	8- 5/8	19- 3/4	30.27	33.30
826-080X12	826-080X12C	8	6	30- 1/4	9- 11/16	10- 3/4	22- 1/4	46.26	50.89
826-100X12	826-100X12C	10	6	38- 7/8	11- 13/16	12- 3/4	28- 7/8	76.53	84.19
826-120X12	---	12	6	42- 1/2	14- 1/8	16	30- 1/2	153.07	---
826-140X12	---	14	6	52- 3/4	15- 5/8	16	37- 7/8	159.00	---

## Expansion Joints Elastomer Expansion Joints



### PVC & CPVC Schedule 80 Elastomer Expansion Joint

Designed to allow for the expansion, contraction, lateral and angular movement of a piping system. Aids in noise and vibration dampening.



- Convenient, Double Union End Connections with Strong, Buttress Thread Union Nuts
- Internal Nylon Cord Reinforced Elastomer Bellows Tube
- Chemically Resistant Neoprene Elastomer with Optional EPDM Tube Available
- Double Spherical Arch Bellows Provides Improved Movement Capability
- Pressure rated to 150 psi @ 73°F (23°C)
- Suitable for Vacuum Service
- Available in Socket or Spears® Special Reinforced (SR) Female Plastic Thread End Connectors, IPS Sizes 3/4" through 3"

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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#### PVC Elastomer Expansion Joint with Neoprene Bellows Soc



150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

EJ02-007	3/4	10	0	085	197.85
EJ02-010	1	10	0	085	224.34
EJ02-012	1-1/4	15	0	085	239.02
EJ02-015	1-1/2	10	0	085	294.26
EJ02-020	2	8	0	085	360.58
EJ02-025	2-1/2	4	0	085	510.09
EJ02-030	3	2	0	085	701.17

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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#### CPVC Elastomer Expansion Joint with EPDM Bellows Soc



150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

EJ22-007C	3/4	10	0	085	205.88
EJ22-010C	1	10	0	085	234.92
EJ22-012C	1-1/4	15	0	085	256.68
EJ22-015C	1-1/2	10	0	085	314.45
EJ22-020C	2	8	0	085	392.46
EJ22-025C	2-1/2	4	0	085	573.51
EJ22-030C	3	2	0	085	779.00

#### PVC Elastomer Expansion Joint with EPDM Bellows Soc



150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

EJ22-007	3/4	10	0	085	201.88
EJ22-010	1	10	0	085	228.89
EJ22-012	1-1/4	15	0	085	246.41
EJ22-015	1-1/2	10	0	085	299.36
EJ22-020	2	8	0	085	367.94
EJ22-025	2-1/2	4	0	085	520.48
EJ22-030	3	2	0	085	715.45

#### CPVC Elastomer Expansion Joint with EPDM Bellows SR Fipt - Stainless Steel Collar



150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

EJ21-007CSR	3/4	10	0	085	208.22
EJ21-010CSR	1	10	0	085	239.45
EJ21-012CSR	1-1/4	15	0	085	264.60
EJ21-015CSR	1-1/2	10	0	085	337.27
EJ21-020CSR	2	8	0	085	445.81
EJ21-025CSR	2-1/2	4	0	085	619.13
EJ21-030CSR	3	2	0	085	824.60

#### PVC Elastomer Expansion Joint with Neoprene Bellows SR Fipt - Stainless Steel Collar



150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

EJ01-007SR	3/4	10	0	085	200.62
EJ01-010SR	1	10	0	085	228.47
EJ01-012SR	1-1/4	15	0	085	248.49
EJ01-015SR	1-1/2	10	0	085	317.23
EJ01-020SR	2	8	0	085	381.13
EJ01-025SR	2-1/2	4	0	085	555.41
EJ01-030SR	3	2	0	085	746.94

#### PVC Elastomer Expansion Joint with EPDM Bellows SR Fipt - Stainless Steel Collar



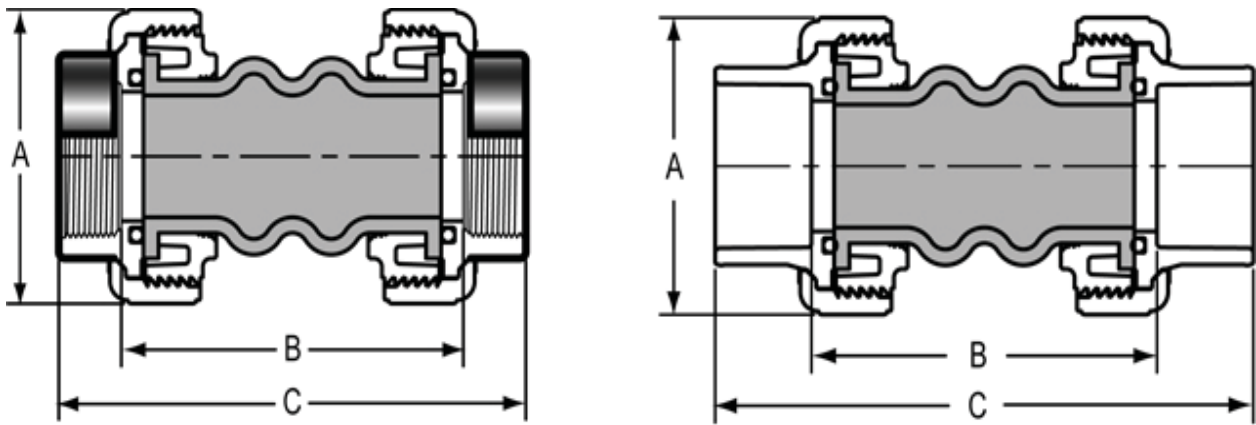
150 psi Maximum Internal Pressure Rating @ 73°F (23°C)

EJ21-007SR	3/4	10	0	085	204.69
EJ21-010SR	1	10	0	085	233.14
EJ21-012SR	1-1/4	15	0	085	253.59
EJ21-015SR	1-1/2	10	0	085	323.68
EJ21-020SR	2	8	0	085	388.92
EJ21-025SR	2-1/2	4	0	085	563.59
EJ21-030SR	3	2	0	085	762.18



## Expansion Joints Elastomer Expansion Joints

### Technical Information



### Dimensions

Size	A	B		C		MAXIMUM MOVEMENTS			
		Socket	Thread	Socket	Thread	COMPRESSION	EXTENSION	LATERAL	ANGULAR
3/4	2-1/4	6-3/8	6-3/8	8-3/8	7-13/16	7/8	1/4	7/8	35°
1	2-9/16	5-15/16	6	8-3/16	7-3/4	7/8	1/4	7/8	25°
1-1/4	3-1/8	6-1/16	6-1/16	8-9/16	7-15/16	7/8	1/4	7/8	25°
1-1/2	3-9/16	5-7/8	5-7/8	8-5/8	7-3/4	7/8	1/4	7/8	20°
2	4-3/16	5-7/16	5-7/16	8-7/16	7-3/8	7/8	1/4	7/8	15°
2-1/2	6-1/8	6-3/16	6-3/16	9-3/4	9	7/8	1/4	7/8	15°
3	6-1/8	6-3/16	6-3/16	10	9	7/8	1/4	7/8	15°

## Expansion Joints Repair Couplings



(S119) Socket x Socket



(S118) Spigot x Socket

- Multi-function Telescoping Design
- Socket x Socket Configuration for Pipe Repair or Use as a Short-Stroke Expansion Joint
- Spigot x Socket Configuration for Replacing Damaged Fittings
- Both Configurations can be Easily Modified for Opposite Use
- Available in PVC White and PVC Gray
- Double O-ring Seal in EPDM or high-grade FKM
- 1/2" - 2" Pressure Rated to 235 PSI @ 73°F (23°C)
- 2-1/2" - 4" Pressure Rated to 200 PSI @ 73°F (23°C)
- 6" Pressure Rated to 150 PSI @ 73°F (23°C)
- NSF® Certified for Potable Water Use

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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### PVC - Spig x Soc PVC White with EPDM O-ring



Can be used as short-stroke Expansion Joint

S118-05	1/2	25	0	025	5.56
S118-07	3/4	30	0	025	6.32
S118-10	1	15	0	025	7.29
S118-12	1-1/4	23	0	025	13.74
S118-15	1-1/2	25	0	025	14.96
S118-20	2	12	0	025	23.14
S118-25	2-1/2	5	0	025	33.57
S118-30	3	4	0	025	41.94
S118-40	4	2	0	025	73.40
S118-60	6	1	0	025	179.60

### PVC - Soc x Soc (continued)

#### PVC White with EPDM O-ring

S119-25	2-1/2	5	0	025	33.57
S119-30	3	4	0	025	41.94
S119-40	4	2	0	025	73.40
S119-60	6	1	0	025	179.60

### PVC - Spig x Soc PVC Gray with EPDM O-ring



Can be used as short-stroke Expansion Joint

S118E-05G	1/2	25	0	025	6.46
S118E-07G	3/4	24	0	025	7.34
S118E-10G	1	15	0	025	8.49
S118E-12G	1-1/4	12	0	025	15.97
S118E-15G	1-1/2	25	0	025	17.39
S118E-20G	2	12	0	025	26.92
S118E-25G	2-1/2	5	0	025	39.48
S118E-30G	3	4	0	025	49.33
S118E-40G	4	2	0	025	86.36
S118E-60G	6	1	0	025	230.85

### PVC - Soc x Soc PVC Gray with FKM O-ring



Can be used as short-stroke Expansion Joint

S119V-05G	1/2	28	0	025	7.06
S119V-07G	3/4	24	0	025	8.05
S119V-10G	1	20	0	025	9.31
S119V-12G	1-1/4	10	0	025	17.49
S119V-15G	1-1/2	16	0	025	19.07
S119V-20G	2	10	0	025	29.51
S119V-25G	2-1/2	5	0	025	44.37
S119V-30G	3	4	0	025	55.42
S119V-40G	4	2	0	025	97.02
S119V-60G	6	1	0	025	262.34

### PVC - Spig x Soc PVC Gray with FKM O-ring



Can be used as short-stroke Expansion Joint

S118V-05G	1/2	25	0	025	7.06
S118V-07G	3/4	24	0	025	8.05
S118V-10G	1	15	0	025	9.31
S118V-12G	1-1/4	12	0	025	17.49
S118V-15G	1-1/2	25	0	025	19.07
S118V-20G	2	12	0	025	29.51
S118V-25G	2-1/2	5	0	025	44.37
S118V-30G	3	4	0	025	55.42
S118V-40G	4	2	0	025	97.02
S118V-60G	6	1	0	025	262.34

### PVC - Soc x Soc PVC Gray with EPDM O-ring



Can be used as short-stroke Expansion Joint

S119E-05G	1/2	28	0	025	6.46
S119E-07G	3/4	24	0	025	7.34
S119E-10G	1	20	0	025	8.49
S119E-12G	1-1/4	10	0	025	15.97
S119E-15G	1-1/2	16	0	025	17.39
S119E-20G	2	10	0	025	26.92
S119E-25G	2-1/2	5	0	025	39.48
S119E-30G	3	4	0	025	49.33
S119E-60G	6	1	0	025	230.85

### PVC - Soc x Soc PVC White with EPDM O-ring



Can be used as short-stroke Expansion Joint

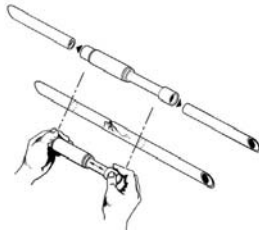
S119-05	1/2	30	0	025	5.56
S119-07	3/4	24	0	025	6.32
S119-10	1	20	0	025	7.29
S119-12	1-1/4	10	0	025	13.74
S119-15	1-1/2	16	0	025	14.96
S119-20	2	10	0	025	23.14



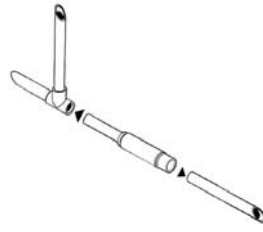
## Expansion Joints Repair Couplings

### Versatile Repair Capability

Spears® Repair Couplings provide a variety of system repair and alteration solutions. Use Socket x Socket configurations for quick pipe damage repair - can also be used as a short-stroke expansion joint to compensate for thermal expansion & contraction. Spigot x Socket configurations are excellent for lateral and riser add-ons, damaged fitting replacement, or for installing valves in existing piping systems. Order the wrong configuration? Simply cut coupling from Socket shaft end to function as a spigot or add a coupling to Spigot shaft end for Socket connections.



**Pipe Damage Repair  
Or Use as Expansion Joint**



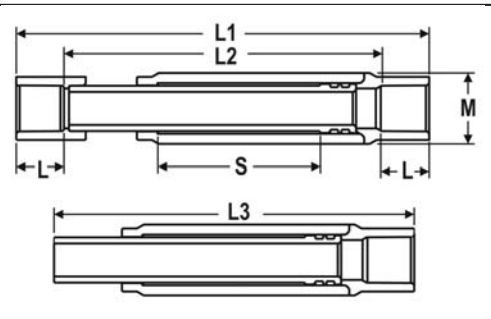
**Lateral Add-on Or Fitting Replacement**



**Valve Retrofit Installation**

### Dimensions

Size	L	L1	L2	L3	S	M
1/2	7/8	7-5/8	5-7/8	6-3/4	3	1-7/16
3/4	1	9-3/8	7-3/8	8-1/4	4	1-3/4
1	1-1/8	10-1/8	7-7/8	8-7/8	4	2-1/16
1-1/4	1-1/4	10-7/8	8-3/8	9-5/8	4	2-7/16
1-1/2	1-3/8	11-3/8	8-5/8	9-7/8	4	2-11/16
2	1-1/2	12-1/4	9-1/4	10-5/8	4	3-3/16
2-1/2	1-3/4	15-7/8	12-3/8	13-7/8	6	3-15/16
3	1-7/8	16-1/8	12-3/8	14-1/8	6	4-9/16
4	2-1/4	17-3/4	13-1/4	15-1/4	6	5-11/16
6	3	22	16	18-3/4	6	8-3/8



INSTALLATION NOTE: For expansion joint applications, install with unit 1/2 extended. System must be supported and blocked against thrusts and movement under pressure. May be installed with flow in either direction.

## Expansion Joints Short Repair Couplings



Space Saving, Compact Version of Standard Repair Coupling  
Requires 1/3 less Space

(SH119) Socket x Socket



(SH118) Spigot x Socket

- Compact Telescoping Design
- Socket x Socket Configuration for Pipe Repair or Use as a Short-Stroke Expansion Joint
- Spigot x Socket Configuration for Replacing Damaged Fittings
- Both Configurations can be Easily Modified for Opposite Use
- Available in PVC White, Sizes 1/2" - 2"
- EPDM Double O-ring Seal
- Pressure Rated to 235 PSI @ 73°F (23°C)
- NSF® Certified for Potable Water Use

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
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### PVC - Spig x Soc PVC White with EPDM O-ring



SH118-05	1/2	36	0	025	5.56
SH118-07	3/4	30	0	025	6.32
SH118-10	1	35	0	025	7.29
SH118-12	1-1/4	25	0	025	13.74
SH118-15	1-1/2	32	0	025	14.96
SH118-20	2	15	0	025	23.14

### PVC - Soc x Soc PVC White with EPDM O-ring



SH119-05	1/2	40	0	025	5.56
SH119-07	3/4	30	0	025	6.32
SH119-10	1	30	0	025	7.29
SH119-12	1-1/4	20	0	025	13.74
SH119-15	1-1/2	21	0	025	14.96
SH119-20	2	12	0	025	23.14

### Dimensions

Size	L1	L2	L3	L4	L5	S	M
1/2	5-7/8	4-5/16	4-15/16	7/8	3/4	2	1-7/16
3/4	6-9/16	4-3/4	5-7/16	1	13/16	2-1/4	1-3/4
1	6-13/16	4-3/4	5-9/16	1-1/8	15/16	2-3/16	2-1/16
1-1/4	7-15/16	5-11/16	6-5/8	1-1/4	1	2-1/2	2-7/16
1-1/2	8-1/4	5-13/16	6-3/4	1-3/8	1-1/8	2-13/16	2-11/16
2	10-1/16	7-3/8	8-5/16	1-1/2	1-3/16	3-1/8	3-1/4

INSTALLATION NOTE: For expansion joint applications, install with unit 1/2 extended. System must be supported and blocked against thrusts and movement under pressure. May be installed with flow in either direction.