

## SWING JOINT RISER SPECIALTY OUTLETS

### Male ACME Thread 90° Street EII Outlet with O-ring



Designed for use with female acme thread O-ring seal style rotors. Provides faster installation and positive O-ring seal. Reduces the risk of overtightening and eliminates the need for thread sealants. Available as an individual component.

Size	Part Number
1"	591-010-7AR
1-1/4"	591-012-7AR
1-1/2"	591-015-7AR
1" x 1-1/4"	591-132-7AR

May also be purchased as part of Swing Joint Riser Assembly. Male Buttress Thread Riser Nipple Style is available with 8" through 24" Risers. Solvent Cemented Riser Nipple Style Kit is available without riser nipple or with choice of 6" through 24" nipple lengths. Both styles are available with choice of Socket, Spigot, Socket Tee, Male Iron Pipe Thread, BSP Thread, DIN Spigot or JIS Spigot Inlets.

### Special Reinforced Female 90° EII Outlet



Designed for use where overtightening of threads is a problem. This unique precompression design compensates for expansion forces generated from tapered pipe thread joint makeup. Radial stress is reduced in normal installations and contained in severe overtightening situations. Available as an individual component.

Size	Part Number
1"	591-010-8SRA
1-1/4"	591-012-8SRA
1-1/2"	591-015-8SRA

May also be purchased as part of Swing Joint Riser Assembly. Male Buttress Thread Riser Nipple Style is available with 8" through 24" Risers. Solvent Cemented Riser Nipple Style Kit is available without riser nipple or with choice of 6" through 24" nipple lengths. Both styles are available with choice of Socket, Spigot, Socket Tee, Male Iron Pipe Thread, BSP Thread, DIN Spigot or JIS Spigot Inlets.

### Metal Female Thread 90° EII Outlet



Designed for use with quick coupler valves. Spears® patented threaded Metal Insert is molded-in-place as an integral part of each fitting for superior strength. Secondary O-ring seal compensates for expansion and contraction variations between materials. Available as an individual component.

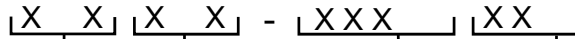
Size	Part Number
1"	591-010-8BRA
1-1/4"	591-012-8BRA
1-1/2"	591-015-8BRA

May also be purchased as part of Swing Joint Riser Assembly. Male Buttress Thread Riser Nipple Style is available with 8" through 24" Risers. Solvent Cemented Riser Nipple Style Kit is available without riser nipple or with choice of 6" through 24" nipple lengths. Both styles are available with choice of Socket, Spigot, Socket Tee, Male Iron Pipe Thread, BSP Thread, DIN Spigot or JIS Spigot Inlets.



**Irrigation & Turf Technical**  
**EverTUFF® TURF™ Swing Joint Specialty Outlets**

Many Configurations may be created and furnished by using the following Swing Joint Riser Numbering System.



Code	Swing Arm Riser Style
58	Male Buttress Threaded Riser Style
59	Cut & Solvent Cemented Riser Style

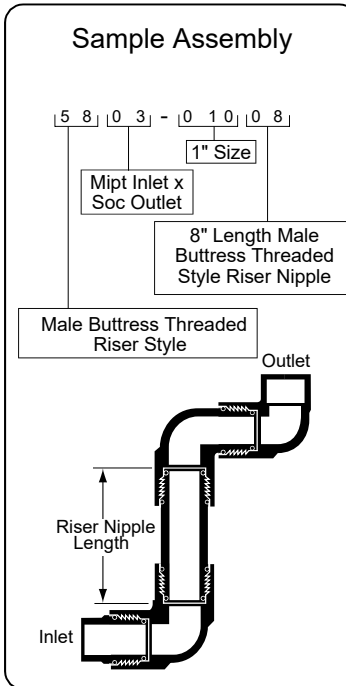
Code	Inlet x Outlet Style Combination
01	Soc x Soc
02	Spig x Soc
03	Mipt x Soc
04	Tee x Soc
05	Soc x Mipt
06	Spig x Mipt
07	Mipt x Mipt
08	Tee x Mipt
09	Soc x Mat
10	Spig x Mat
11	Mipt x Mat
12	Tee x Mat
13	Soc x Fipt
14	Spig x Fipt
15	Mipt x Fipt
16	Tee x Fipt
17	Soc x SR Fipt
18	Spig x SR Fipt
19	Mipt x SR Fipt
20	Tee x SR Fipt
21†	Gmpt 2-1/2" Npl x Mat
22	Mat x Mat
23	Mat x Mpt
24	Mat x Fipt
25	Mat x SR Fipt
26	Spig x Fbt
27	Spig x Fat
28	Extended Spig x Fipt
29	Extended Spig x Mipt
30	Open
31†	Mipt x Gmpt 2-1/2" Npl
32†	Gmpt 2-1/2" Npl x Fipt
33†	Gmpt 2-1/2" Npl x Soc
34†	Gmpt 2-1/2" Npl x SR Fipt
35†	Soc x Gmpt 2-1/2" Npl
36†	Spig x Gmpt 2-1/2" Npl
37†	Gmpt x Gmpt 2-1/2" Npl
38†	Tee x Gmpt 2-1/2" Npl
39†	Gmpt 2-1/2" Npl x Mipt
40†	Open
41†	Mipt x Gmpt 3" Npl
42†	Gmpt 3" Npl x Fipt
43†	Gmpt 3" Npl x Soc
44†	Gmpt 3" Npl x SR Fipt
45†	Soc x Gmpt 3" Npl
46†	Spig x Gmpt 3" Npl
47†	Gmpt x Gmpt 3" Npl
48†	Tee x Gmpt 3" Npl
49†	Gmpt 3" Npl x Mipt
50†	Gmpt 3" Npl x Mat

Code	Inlet x Outlet Style Combination
51‡	Soc x Soc Multi-Ell
52‡	Spig x Soc Multi-Ell
53‡	Mipt x Soc Multi-Ell
54‡	Tee x Soc Multi-Ell
55‡	Soc x Mipt Multi-Ell
56‡	Spig x Mipt Multi-Ell
57‡	Mipt x Mipt Multi-Ell
58‡	Tee x Mipt Multi-Ell
59‡	Soc x Mat Multi-Ell
60‡	Spig x Mat Multi-Ell
61‡	Mipt x Mat Multi-Ell
62‡	Tee x Mat Multi-Ell
63‡	Soc x Fipt Multi-Ell
64‡	Spig x Fipt Multi-Ell
65‡	Mipt x Fipt Multi-Ell
66‡	Tee x Fipt Multi-Ell
67‡	Soc x SR Fipt Multi-Ell
68‡	Spig x SR Fipt Multi-Ell
69‡	Mipt x SR Fipt Multi-Ell
70‡	Tee x SR Fipt Multi-Ell
71†‡	Soc x Gmpt 2-1/2" Npl Multi-Ell
72†‡	Spig x Gmpt 2-1/2" Npl Multi-Ell
73†‡	Mipt x Gmpt 2-1/2" Npl Multi-Ell
74†‡	Tee x Gmpt 2-1/2" Npl Multi-Ell
75†‡	Soc x Gmpt 3" Npl Multi-Ell
76†‡	Spig x Gmpt 3" Npl Multi-Ell
77†‡	Mipt x Gmpt 3" Npl Multi-Ell
78†‡	Tee x Gmpt 3" Npl Multi-Ell
79†‡	Gmpt 3" Npl x Mipt Multi-Ell
80†‡	Gmpt 3" Npl x Soc Multi-Ell
81†‡	Gmpt 3" Npl x Gmpt 3" Npl Multi-Ell
82‡	Mat x Mat Multi-Ell
83	Mipt x Mat Top Mount
84	Open
85	Open
86	Open
87	Open
88	Bsp x Bsp Multi-Ell
89	Bsp x Bsp Top Mount
90	Bsp x Mat
91	Bsp x Mipt
92	Mipt x Bsp
93	Bsp x Bsp
94	Astm Soc x Bsp
95	Astm Spig x Bsp
96	Din Spig x Bsp
97	Din Spig x Mipt
98	Jis Spig x Jis Mipt
99	Jis Spig x Mipt

Code	Size
010	1"
132	1" x 1-1/4"
133	1" x 1-1/2"
012	1-1/4"
015	1-1/2"
168	1-1/4" x 1"
169	1-1/4" x 1-1/2"
211	1-1/2" x 1"
212	1-1/2" x 1-1/4"
249	2" x 1" (Tee)
250	2" x 1-1/4" (Tee)
251	2" x 1-1/2" (Tee)

\* Buttress Threaded Riser Lengths may be extended with the use of Riser Extension Couplings.  
 \*\* Additional Nipple lengths are available. Please contact your servicing Spears® Regional Distribution Center.

Riser Nipple Length	
Code	Size
<b>5800 Series` Male Buttress Threaded Style</b>	
08	8"
10	10"
12	12"
14	14"
16	16"
18	18"
20	20"
24	24"
<b>5900 Series`` Cut &amp; Solvent Cemented Style</b>	
00	(No Nipple)
06	6"
07	7"
08	8"
10	10"
11	11"
12	12"
13	13"
14	14"
15	15"
16	16"
17	17"
18	18"
19	19"
20	20"
21	21"
22	22"
23	23"
24	24"



†Gmpt - A2-1/2" Toe Nipple is solvent cemented in place. If a 3" Nipple is required, change the first digit from a "3" to a "4".

EXAMPLE:  
 38 = Tee x 2-1/2" Gmpt  
 48 = Tee x 3" Gmpt

‡Multi-Ell - Two additional Elbows are located at the outlet of the Swing Joint Riser to allow 360° adjustment.