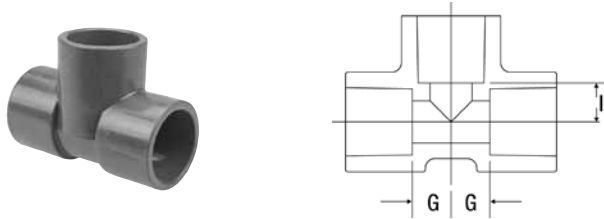


**Tees**

Chemtrol  
Fig. No.

**5111 Socket Tee (S x S x S)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. G	Dim. I
1/4	1801-002	5	0.05	0.33	0.33	0.33
1/2	1801-005	25	0.16	0.52	0.52	0.52
3/4	1801-007	15	0.26	0.68	0.68	0.68
1	1801-010	20	0.39	0.74	0.74	0.74
1 1/4	1801-012	10	0.58	0.91	0.91	0.91
1 1/2	1801-015	10	0.78	1.05	1.05	1.05
2	1801-020	10	1.13	1.26	1.26	1.26
2 1/2	1801-025	5	1.72	1.52	1.52	1.52
3	1801-030	5	2.51	1.82	1.82	1.82
4	1801-040	5	4.41	2.33	2.33	2.33
6	1801-060	4	11.11	3.48	3.48	3.48
8*	1801-080	1	22.28	4.53	4.53	4.53
10	1801-100	1	38.52	5.72	5.72	5.72
12	1801-120	1	63.55	6.85	6.85	6.85

\* Consult chart on page 41 of this catalog for special rating information.

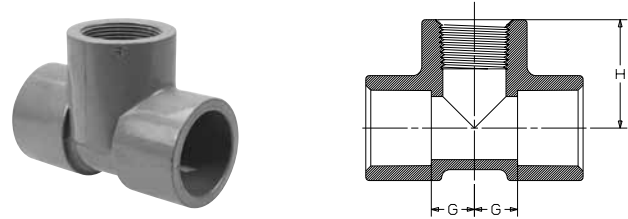
**5111R Reducing Socket Tee (S x S x S)**

Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. G	Dim. I
3/4 x 3/4 x 1/2	1801-101	10	0.19	0.51	0.51	0.62
1 x 1 x 1/2	1801-130	10	0.26	0.52	0.52	0.73
1 x 1 x 3/4	1801-131	10	0.28	0.62	0.62	0.73
1 1/2 x 1 1/2 x 3/4	1801-210	10	0.51	0.66	0.66	1.04
1 1/2 x 1 1/2 x 1	1801-211	10	0.56	0.76	0.76	1.03
2 x 2 x 1/2	1801-247	5	0.65	0.60	0.60	1.29
2 x 2 x 3/4	1801-248	5	0.70	0.70	0.70	1.29
2 x 2 x 1	1801-249	5	0.75	0.80	0.80	1.29
2 x 2 x 1 1/2	1801-251	5	0.89	1.07	1.07	1.29
3 x 3 x 2	1801-338	5	1.92	1.36	1.36	1.84
4 x 4 x 2	1801-420	5	3.02	1.39	1.39	2.34
4 x 4 x 3	1801-422	5	3.62	1.87	1.87	2.34
6 x 6 x 4	1801-532	4	7.69	2.56	2.56	3.52

Other Reducing Tees are produced by solvent cementing Reducer Bushings with Socket Tees. They may be ordered as factory fabrications or may be assembled in the field.

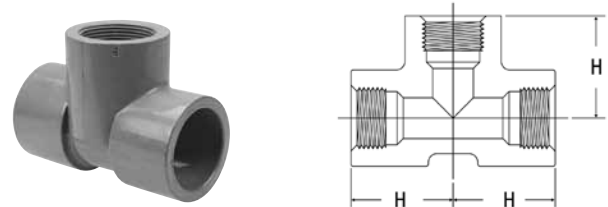
Chemtrol  
Fig. No.

**5112 Socket x Thread Tee (S x S x FPT)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. G	Dim. H
1/2	1802-005	10	0.17	0.52	0.52	1.41
3/4	1802-007	10	0.28	0.68	0.68	1.70
1	1802-010	10	0.43	0.74	0.74	1.88
1 1/4	1802-012	10	0.62	0.91	0.91	2.17
1 1/2	1802-015	10	0.88	1.05	1.05	2.44
2	1802-020	10	1.23	1.26	1.26	2.77

**5112-3-3 Thread Tee (FPT x FPT x FPT)**



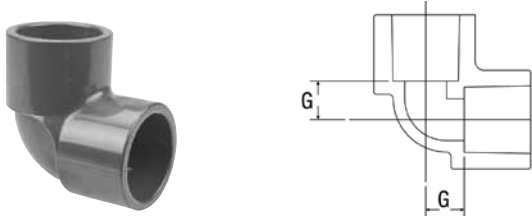
Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. H
1/4	1805-002	5	0.06	0.97
1/2	1805-005	10	0.17	1.41
3/4	1805-007	15	0.28	1.70
1	1805-010	10	0.43	1.88
1 1/4	1805-012	5	0.62	2.17
1 1/2	1805-015	5	0.88	2.44
2	1805-020	5	1.23	2.77
2 1/2	1805-025	5	1.91	3.30
3	1805-030	5	2.48	3.73
4	1805-040	5	4.88	4.61

For complete technical information and more, refer to our website at [www.chemtrol.com](http://www.chemtrol.com).

## Elbows

Chemtrol  
Fig. No.

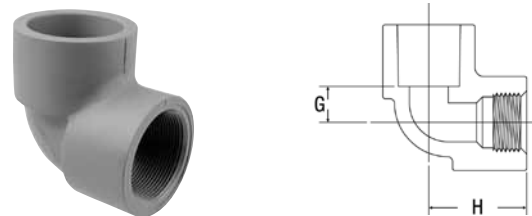
### 5107 Socket 90° ELL (S x S)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G
1/4	1806-002	5	0.03	0.33
1/2	1806-005	20	0.12	0.52
3/4	1806-007	20	0.18	0.68
1	1806-010	15	0.27	0.74
1 1/4	1806-012	10	0.41	0.91
1 1/2	1806-015	10	0.54	1.05
2	1806-020	10	0.81	1.26
2 1/2	1806-025	5	1.23	1.52
3	1806-030	5	1.98	1.82
4	1806-040	5	3.44	2.33
6	1806-060	4	8.38	3.48
8*	1806-080	2	16.67	4.53
10	1806-100	1	30.14	5.72
12	1806-120	1	47.77	6.85

\* Consult chart on page 41 of this catalog for special rating information.

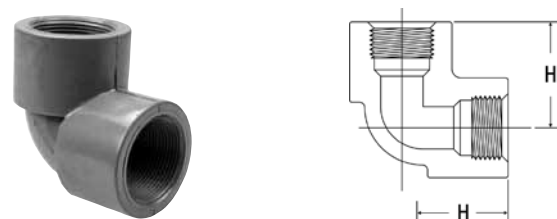
### 5107-3 Socket x Thread 90° ELL (S x FPT)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. H
1/2	1807-005	10	0.13	0.52	1.41
3/4	1807-007	10	0.19	0.68	1.70
1	1807-010	10	0.30	0.74	1.88
1 1/4	1807-012	10	0.45	0.91	2.17
1 1/2	1807-015	10	0.59	1.05	2.44
2	1807-020	10	0.86	1.26	2.77

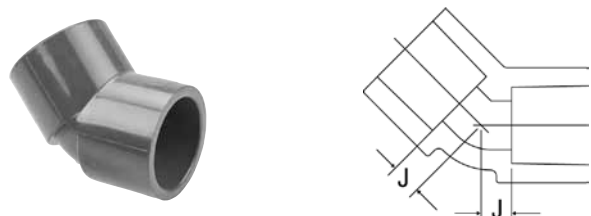
Chemtrol  
Fig. No.

### 5107-3-3 Thread 90° ELL (FPT x FPT)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. H
1/4	1808-002	5	0.03	0.97
1/2	1808-005	10	0.13	1.41
3/4	1808-007	25	0.19	1.70
1	1808-010	15	0.30	1.88
1 1/4	1808-012	5	0.45	2.17
1 1/2	1808-015	5	0.59	2.44
2	1808-020	5	0.86	2.77
2 1/2	1808-025	5	1.34	3.30
3	1808-030	5	2.14	3.73
4	1808-040	5	3.85	4.61

### 5106 Socket 45° ELL (S x S)

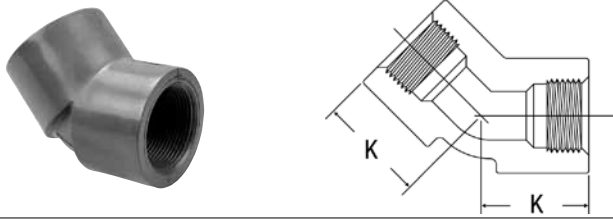


Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. J
1/4	1817-002	5	0.03	0.18
1/2	1817-005	20	0.10	0.26
3/4	1817-007	10	0.15	0.33
1	1817-010	15	0.24	0.37
1 1/4	1817-012	10	0.34	0.42
1 1/2	1817-015	10	0.47	0.46
2	1817-020	10	0.67	0.60
2 1/2	1817-025	5	0.99	0.67
3	1817-030	6	1.48	0.77
4	1817-040	6	2.62	1.01
6	1817-060	4	6.62	1.74
8*	1817-080	2	13.63	2.20
10	1817-100	1	21.44	2.59
12	1817-120	1	35.59	3.05

\* Consult chart on page 41 of this catalog for special rating information.

Chemtrol  
Fig. No.

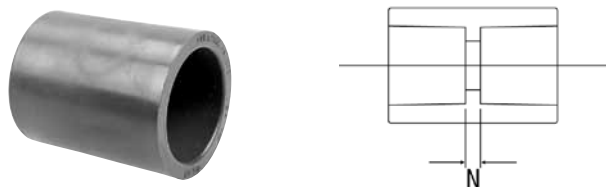
### 5106-3-3 Thread 45° ELL (FPT x FPT)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. K
1/4	1819-002	5	0.04	0.82
1/2	1819-005	10	0.11	1.15
3/4	1819-007	10	0.16	1.34
1	1819-010	15	0.27	1.51
1 1/4	1819-012	5	0.38	1.69
1 1/2	1819-015	5	0.52	1.85
2	1819-020	5	0.76	2.12
2 1/2	1819-025	5	1.09	2.45
3	1819-030	6	1.70	2.68
4	1819-040	6	3.06	3.29

## Couplings

### 5101 Socket Couplings (S x S)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. N
1/4	1829-002	5	0.06	0.12
1/2	1829-005	25	0.10	0.24
3/4	1829-007	15	0.14	0.24
1	1829-010	20	0.22	0.24
1 1/4	1829-012	10	0.31	0.24
1 1/2	1829-015	10	0.40	0.24
2	1829-020	10	0.57	0.24
2 1/2	1829-025	55	0.73	0.19
3	1829-030	5	1.12	0.18
4	1829-040	5	1.94	0.18
6	1829-060	4	4.01	0.23
8*	1829-080	2	9.23	0.22
10	1829-100	1	14.62	0.35
12	1829-120	1	25.26	0.46

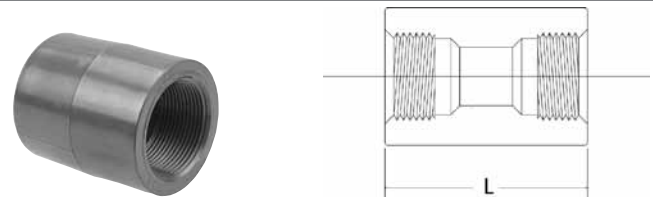
Chemtrol  
Fig. No.

### 5101 Reducing Socket Coupling (S x S)

Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. N
3/4 x 1/2	1829-101	5	0.13	0.43
1 x 1/2	1829-130	5	0.20	0.66
1 x 3/4	1829-131	5	0.20	0.54
1 1/4 x 3/4	1829-167	5	0.28	0.71
1 1/4 x 1	1829-168	5	0.30	0.59
1 1/2 x 3/4	1829-210	5	0.35	0.75
1 1/2 x 1	1829-211	5	0.36	0.62
1 1/2 x 1 1/4	1829-212	5	0.38	0.50
2 x 1	1829-249	5	0.50	0.73
2 x 1 1/2	1829-251	5	0.54	0.48
3 x 2	1829-338	5	1.08	1.23
4 x 2	1829-420	5	1.73	1.57
4 x 3	1829-422	5	1.98	1.18

Other Reducing Couplings are produced by solvent cementing Reducer Bushings into Socket Couplings. They may be ordered as factory fabrications or may be assembled in the field.

### 5101-3-3 Thread Coupling (FPT x FPT)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. L
1/4	1830-002	5	0.07	1.40
1/2	1830-005	25	0.08	2.02
3/4	1830-007	25	0.13	2.27
1	1830-010	15	0.21	2.52
1 1/4	1830-012	5	0.31	2.77
1 1/2	1830-015	5	0.46	3.02
2	1830-020	5	0.64	3.27
2 1/2	1830-025	5	0.89	3.75
3	1830-030	5	1.30	3.99
4	1830-040	5	2.31	4.74

### 5101-3-3 Reducing Thread Coupling (FPT x FPT)

Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. L
3/4 x 1/2	1830-101	5	0.15	2.33
1 x 1/2	1830-130	5	0.22	2.69
1 x 3/4	1830-131	5	0.23	2.69
1 1/4 x 3/4	1830-167	5	0.32	2.99
1 1/4 x 1	1830-168	5	0.34	2.99
1 1/2 x 3/4	1830-210	5	0.39	3.15
1 1/2 x 1	1830-211	5	0.40	3.15
1 1/2 x 1 1/4	1830-212	5	0.42	3.15
2 x 1	1830-249	5	0.53	3.39
2 x 1 1/2	1830-251	5	0.58	3.39

Other Reducing Couplings are produced by solvent cementing Reducer Bushings into Socket Couplings. They may be ordered as factory fabrications or may be assembled in the field.

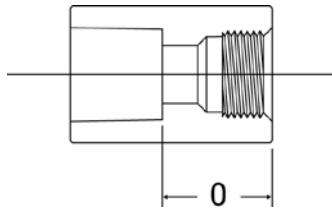
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**Adapters**

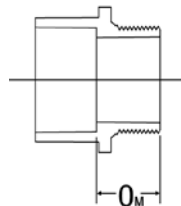
Chemtrol  
Fig. No.

**5103 Female Adapter Coupling (S x FPT)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. O
1/4	1835-002	5	0.06	0.76
1/2	1835-005	15	0.10	1.13
3/4	1835-007	10	0.15	1.26
1	1835-010	10	0.23	1.38
1 1/4	1835-012	5	0.34	1.51
1 1/2	1835-015	5	0.43	1.63
2	1835-020	5	0.60	1.76
2 1/2	1835-025	5	0.82	1.97
3	1835-030	5	1.27	2.08
4	1835-040	5	1.13	2.46

**5104 Male Adapter (S x MPT)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. O <sub>M</sub>
1/2	1836-005	25	0.04	0.94
3/4	1836-007	25	0.06	0.96
1	1836-010	25	0.10	1.14
1 1/4	1836-012	10	0.14	1.11
1 1/2	1836-015	10	0.19	1.11
2	1836-020	10	0.27	1.19
2 1/2	1836-025	5	0.56	1.88
3	1836-030	5	0.79	1.97
4	1836-040	5	1.56	2.08

**Bushings**

**Design Styles**

The design style of most bushings is to have a solid wall between the inside and outside connections. Some of the multistep reductions with exceedingly thick cross-sections are not solid. This design style achieves structural support with a web of ribs attaching the inner and outer connection walls, with the open area toward the exterior bushing face. The styles are denoted by W and S for webbed and solid designs respectively.



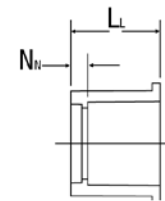
Webbed design



Solid design

Chemtrol  
Fig. No.

**5118 Flush Socket Reducer Bushing (SPG x S)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Design Style	Dim. L <sub>L</sub>	Dim. N <sub>N</sub>
1/2 x 1/4	1837-072	25	0.04	S	1.17	0.53
3/4 x 1/2	1837-101	25	0.06	S	1.15	0.26
1 x 1/2	1837-130	25	0.07	S	1.28	0.39
1 x 3/4	1837-131	25	0.06	S	1.28	0.26
1 1/4 x 1/2	1837-166	10	0.11	S	1.41	0.52
1 1/4 x 3/4	1837-167	10	0.09	S	1.41	0.39
1 1/4 x 1	1837-168	10	0.07	S	1.41	0.27
1 1/2 x 1/2	1837-209	10	0.13	W	1.53	0.64
1 1/2 x 3/4	1837-210	10	0.11	S	1.53	0.51
1 1/2 x 1	1837-211	10	0.09	S	1.53	0.39
1 1/2 x 1 1/4	1837-212	10	0.07	S	1.53	0.26
2 x 1/2	1837-247	10	0.27	W	1.66	0.77
2 x 3/4	1837-248	10	0.27	W	1.66	0.64
2 x 1	1837-249	10	0.27	W	1.66	0.52
2 x 1 1/4	1837-250	5	0.23	S	1.66	0.39
2 x 1 1/2	1837-251	10	0.21	S	1.66	0.27
2 1/2 x 2	1837-292	5	0.26	S	1.93	0.42
3 x 1 1/2	1837-337	5	0.75	W	2.41	1.02
3 x 2	1837-338	5	0.70	S	2.41	0.90
3 x 2 1/2	1837-339	5	0.49	S	2.41	0.63

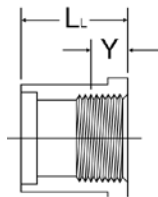
Chemtrol  
Fig. No.

### 5118 Flush Socket Reducer Bushing (SPG x S) (cont.)

Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Design Style	Dim. L <sub>L</sub>	Dim. N <sub>N</sub>
4 x 2	1837-420	5	1.25	W	2.80	1.29
4 x 3	1837-422	5	1.01	S	2.80	0.90
6 x 4	1837-532	5	2.97	S	3.05	0.77
8 x 6	1837-585	2	6.00	S	4.58	1.55
10 x 6	1837-422	1	10.80	W	5.57	2.54
10 x 8	1837-626	1	9.36	S	5.57	1.07
12 x 8	1837-668	1	18.79	W	6.57	2.07
12 x 10	1837-670	1	12.78	S	6.57	1.07

Other size reductions are produced by solvent cementing appropriate Reducer Bushings together. They may be ordered as factory fabrications or may be assembled in the field.

### 5118-3 Flush Spigot x Thread Reducer Bushing (SPG x FPT)



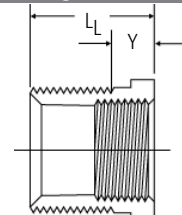
Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Design Style	Dim. L <sub>L</sub>	Dim. Y*
1/2 x 1/4	1838-072	25	0.03	S	1.17	0.31
3/4 x 1/2	1838-101	25	0.03	S	1.29	0.43
1 x 1/2	1838-130	25	0.07	S	1.56	0.43
1 x 3/4	1838-131	25	0.06	S	1.56	0.45
1 1/4 x 1/2	1838-166	10	0.15	S	1.66	0.43
1 1/4 x 3/4	1838-167	10	0.13	S	1.66	0.45
1 1/4 x 1	1838-168	10	0.11	S	1.66	0.53
1 1/2 x 1/2	1838-209	10	0.23	S	1.77	0.43
1 1/2 x 3/4	1838-210	10	0.21	S	1.77	0.45
1 1/2 x 1	1838-211	10	0.19	S	1.77	0.53
1 1/2 x 1 1/4	1838-212	10	0.13	S	1.77	0.55
2 x 1/2	1838-247	10	0.36	S	1.91	0.43
2 x 3/4	1838-248	10	0.34	S	1.91	0.45
2 x 1	1838-249	10	0.32	S	1.91	0.53
2 x 1 1/4	1838-250	10	0.26	S	1.91	0.55
2 x 1 1/2	1838-251	10	0.21	S	1.91	0.55
2 1/2 x 2	1838-292	5	0.32	S	2.17	0.57
3 x 2	1838-338	5	0.73	S	2.41	0.57
3 x 2 1/2	1838-339	5	0.57	S	2.41	0.87
4 x 2	1838-420	5	1.30	W	2.80	0.57
4 x 3	1838-422	5	1.06	S	2.80	0.95

Other size reductions are produced by solvent cementing appropriate Reducer Bushings together. They may be ordered as factory fabrications or may be assembled in the field.

\*Typical male component engagement, hand tight (L<sub>1</sub> in ANSI B1.20.1 thread spec.) plus 1 1/2 turns.

Chemtrol  
Fig. No.

### 5118-3-4 Flush Thread Reducer Bushing (MPT x FPT)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Design Style	Dim. L <sub>L</sub>	Dim. Y*
1/2 x 1/4	1839-072	25	0.02	S	0.95	0.25
3/4 x 1/2	1839-101	25	0.03	S	0.95	0.25
1 x 1/2	1839-130	25	0.06	S	1.24	0.38
1 x 3/4	1839-131	25	0.05	S	1.24	0.38
1 1/4 x 1/2	1839-166	10	0.13	S	1.27	0.38
1 1/4 x 3/4	1839-167	10	0.11	S	1.27	0.38
1 1/4 x 1	1839-168	10	0.09	S	1.27	0.38
1 1/2 x 1/2	1839-209	10	0.20	S	1.28	0.38
1 1/2 x 3/4	1839-210	10	0.18	S	1.28	0.38
1 1/2 x 1	1839-211	10	0.17	S	1.28	0.38
1 1/2 x 1 1/4	1839-212	10	0.11	S	1.28	0.38
2 x 1/2	1839-247	5	0.30	S	1.32	0.38
2 x 3/4	1839-248	5	0.28	S	1.32	0.38
2 x 1	1839-249	5	0.28	S	1.32	0.38
2 x 1 1/4	1839-250	5	0.27	S	1.32	0.38
2 x 1 1/2	1839-251	5	0.15	S	1.32	0.38
2 1/2 x 2	1839-292	5	0.24	S	2.18	0.57
3 x 1 1/2	1839-337	5	0.64	W	2.42	0.55
3 x 2	1839-338	5	0.59	S	2.42	0.57
3 x 2 1/2	1839-339	5	0.54	S	2.42	0.87
4 x 2	1839-420	5	1.01	W	2.81	0.57
4 x 3	1839-422	5	0.95	S	2.81	0.95

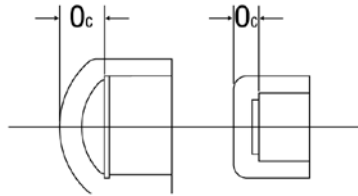
Other size reductions are produced by solvent cementing appropriate Reducer Bushings together. They may be ordered as factory fabrications or may be assembled in the field.

\*Typical male component engagement, hand tight (L<sub>1</sub> in ANSI B1.20.1 thread spec.) plus 1 1/2 turns.

**Caps**

Chemtrol  
Fig. No.

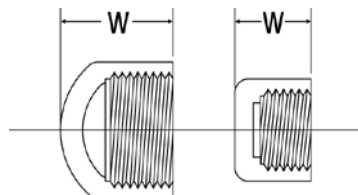
**5117 Socket Cap\* (S)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. Oc
1/4	1847-002	5	0.03	0.25
1/2	1847-005	10	0.06	0.39
3/4	1847-007	10	0.09	0.36
1	1847-010	5	0.14	0.41
1 1/4	1847-012	5	0.22	0.39
1 1/2	1847-015	5	0.28	0.41
2	1847-020	5	0.40	0.41
2 1/2	1847-025	5	0.62	1.56
3	1847-030	5	1.00	1.28
4	1847-040	5	1.61	1.57
6	1847-060	5	4.06	2.11

\*Sizes 2" and smaller are flat; 2 1/2" and larger are domed.

**5117-3 Thread Cap\* (FPT)**



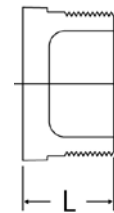
Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. W
1/4	1848-002	5	0.02	0.89
1/2	1848-005	5	0.07	1.28
3/4	1848-007	5	0.10	1.38
1	1848-010	5	0.16	1.55
1 1/4	1848-012	5	0.25	1.66
1 1/2	1848-015	5	0.31	1.80
2	1848-020	5	0.46	1.92
2 1/2	1848-025	5	0.68	2.34
3	1848-030	5	1.03	3.18
4	1848-040	5	1.85	3.85

\*Sizes 2" and smaller are flat; 2 1/2" and larger are domed.

**Plugs**

Chemtrol  
Fig. No.

**5116-4 Thread Plug (MPT)**

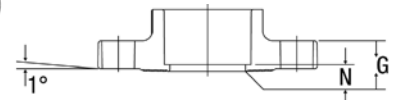


Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. L
1/4	1850-002	5	0.01	0.85
1/2	1850-005	10	0.03	1.04
3/4	1850-007	10	0.04	1.10
1	1850-010	5	0.07	1.25
1 1/4	1850-012	5	0.11	1.66
1 1/2	1850-015	5	0.16	1.77
2	1850-020	5	0.20	1.91
2 1/2	1850-025	5	0.32	2.17
3	1850-030	5	0.56	2.41
4	1850-040	5	0.95	2.80

**Class 150 Flanges**

For flange dimensions that comply with ANSI B16.5, 150 lb., steel flanges, see page 39.

**5151-W Socket Flange (S), One-Piece (Webbed Design)**



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. N
2	1851-020	10	0.89	0.91	0.26
3	1851-030	10	1.80	1.13	0.28
4	1851-040	10	2.72	1.24	0.31
6	1851-060	5	4.14	1.36	0.31

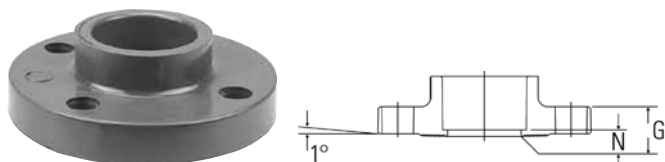
Reducing Flanges are produced by solvent cementing Reducer Bushings into Socket Flanges. They may be ordered as factory fabrications or may be assembled in the field.

Note: One-piece webbed flanges have oblong bolt holes which permit mating with ANSI B16.5, 150 lb.; BS 1560, class 150; ISO 2084, PN10; and DIN 2532, PN10.

*Chemtrol has seminars available to educate in the design and installation of thermoplastic piping systems. For more information, call our customer service department at **800.343.5455**.*

Chemtrol  
Fig. No.

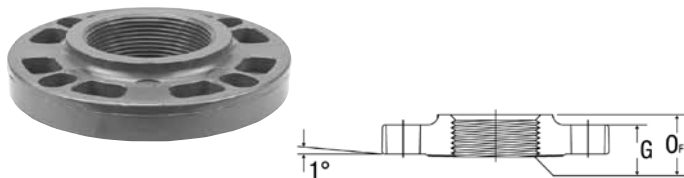
### 5151-H Socket Flange (S), One-Piece (Solid)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. N
1/2	1851-H05	10	0.22	0.54	0.20
3/4	1851-H07	15	0.31	0.61	0.17
1	1851-H10	10	0.45	0.68	0.18
1 1/4	1851-H12	5	0.59	0.72	0.20
1 1/2	1851-H15	10	0.73	0.82	0.21
2	1851-H20	10	1.12	0.91	0.26
2 1/2	1851-H25	5	1.77	1.02	0.20
3	1851-H30	10	2.27	1.13	0.28
4	1851-H40	10	3.17	1.24	0.31
6	1851-H60	5	5.04	1.36	0.31
8	1851-H80	2	9.35	1.52	0.35

Reducing Flanges are produced by solvent cementing Reducer Bushings into Socket Flanges. They may be ordered as factory fabrications or may be assembled in the field.

### 5151-W-3 Thread Flange (FPT), One-Piece (Webbed Design)



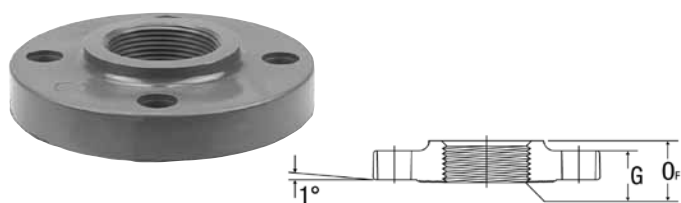
Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. OF
2	1852-020	5	0.88	0.91	1.17
3	1852-030	5	1.73	1.13	1.55
4	1852-040	5	2.53	1.24	1.67

Reducing Flanges are produced by solvent cementing Reducer Bushings into Socket Flanges. They may be ordered as factory fabrications or may be assembled in the field.

Note: One-piece webbed flanges have oblong bolt holes which permit mating with ANSI B16.5, 150 lb.; BS 1560, class 150; ISO 2084, PN10; and DIN 2532, PN10.

Chemtrol  
Fig. No.

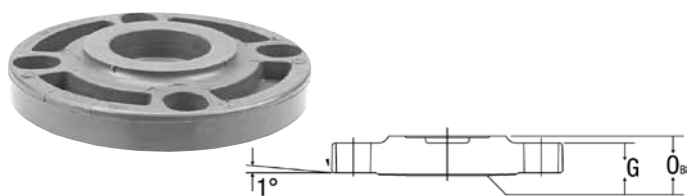
### 5151-H-3 Thread Flange (FPT), One-Piece (Solid)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. OF
1/2	1852-H05	10	0.23	0.54	0.88
3/4	1852-H07	10	0.34	0.61	0.91
1	1852-H10	10	0.44	0.68	1.08
1 1/4	1852-H12	5	0.55	0.72	1.11
1 1/2	1852-H15	5	0.69	0.82	1.12
2	1852-H20	5	1.05	0.91	1.17
2 1/2	1852-H25	5	1.65	1.02	1.42
3	1852-H30	5	1.84	1.13	1.55
4	1852-H40	5	2.80	1.24	1.67

Reducing Flanges are produced by solvent cementing Reducer Bushings into Socket Flanges. They may be ordered as factory fabrications or may be assembled in the field.

### 5119-W Blind Flange, One-Piece (Webbed Design)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. OB
2	1853-020	5	0.88	0.91	1.17
3	1853-030	5	1.98	1.13	1.39
4	1853-040	5	2.88	1.24	1.51
6	1853-060	5	5.07	1.36	1.60

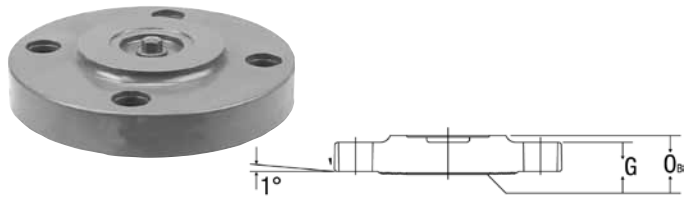
Note: One-piece webbed flanges have oblong bolt holes which permit mating with ANSI B16.5, 150 lb.; BS 1560, class 150; ISO 2084, PN10; and DIN 2532, PN10.

*For questions concerning thermoplastic piping systems, please call or fax: **888.446.4226 (ph)**, **888.336.4226 (fx)**.*



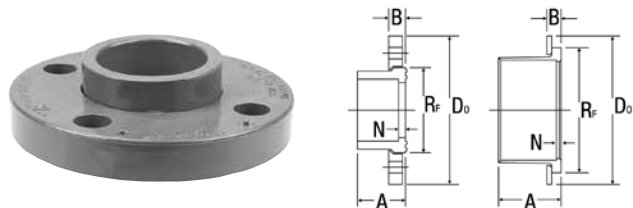
Chemtrol  
Fig. No.

### 5119-H Blind Flange, One-Piece (Solid)



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. G	Dim. O <sub>B</sub>
1/2	1853-H05	5	0.28	0.54	0.76
3/4	1853-H07	5	0.34	0.61	0.83
1	1853-H10	5	0.48	0.68	0.88
1 1/4	1853-H12	5	0.63	0.72	0.95
1 1/2	1853-H15	5	0.81	0.82	1.04
2	1853-H20	5	1.24	0.91	1.12
2 1/2	1853-H25	5	2.03	1.02	1.22
3	1853-H30	5	2.65	1.13	1.39
4	1853-H40	5	3.94	1.24	1.57
6	1853-H60	5	6.93	1.36	1.60
8	1853-H80	2	11.23	1.51	1.77

### 5151-A Socket Flange (S), Van Stone



Nominal Size	Universal Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. A	Dim. B	Dim. D <sub>0</sub>	Dim. R <sub>F</sub>	Dim. N
1/2	1854-005	10	0.21	1.00	.50	3.49	1.48	0.11
3/4	1854-007	15	0.26	1.12	.50	3.86	1.75	0.11
1	1854-010	10	0.41	1.25	.56	4.24	2.04	0.11
1 1/4	1854-012	5	0.44	1.37	.63	4.61	2.50	0.11
1 1/2	1854-015	10	0.59	1.50	.69	4.99	2.78	0.11
2	1854-020	10	1.00	1.62	.75	5.98	3.41	0.11
2 1/2	1854-025	5	1.49	1.93	.94	6.98	4.11	0.15
3	1854-030	10	1.87	2.40	1.04	7.48	4.80	0.50
4	1854-040	10	2.84	2.75	1.16	8.95	6.17	0.48
6	1854-060	5	4.88	3.55	1.28	10.97	7.95	0.53
8	1854-080	2	13.13	5.00	1.42	13.46	10.42	0.50

### Van Stone Flange Assembly List

Item	Description	Material
1	Connector Hub	CPVC
3	Flange Ring	CPVC

Chemtrol  
Fig. No.

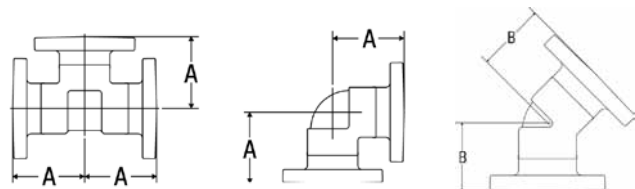
### NR 51 Flange Gaskets, for Class 150 Flanges

Note: These gaskets are 1/8" thick, full face polychloroprene (CR), 70 durometer.



Nominal Size	Part No.	Approx. Lbs./Ea.
1/2	↑ Use Figure No. & Nom. Size ↓	0.11
3/4		0.12
1		0.13
1 1/4		0.14
1 1/2		0.15
2		0.20
2 1/2		0.25
3		0.28
4		0.30
6		0.40
8	0.50	

### Flanged Fittings\*— Fabricated from Molded Components



Nominal Size	Fig. No. 4511-12 Flanged Tee		Fig. No. 4507-12 Flanged 90° ELL		Fig. No. 4506-12 Flanged 45° ELL	
	Approx. Lbs./Ea.	Dim. A	Approx. Lbs./Ea.	Dim. A	Approx. Lbs./Ea.	Dim. B
1	1.98	3 3/32	1.34	3 3/32	1.31	2 23/32
1 1/4	2.75	3 19/32	1.86	3 19/32	1.79	3 3/32
1 1/2	3.49	3 31/32	2.35	3 31/32	2.27	3 13/32
2	5.23	4 15/32	3.54	4 15/32	3.40	3 27/32
2 1/2	8.38	5 7/32	5.67	5 7/32	5.43	4 13/32
3	11.32	5 13/32	7.85	5 13/32	7.35	4 25/32
4	17.36	7 3/32	12.07	7 3/32	11.29	5 25/32
6	32.74	9 25/32	24.50	9 25/32	22.75	8 1/2
8	—	—	—	—	—	—

\* Flanged fittings are produced by solvent cementing socket flanges to socket fittings with short plain end pipe nipples. They may be ordered as factory fabrications or may be assembled in the field.

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## Unions

Chemtrol  
Fig. No.

### 5133 FKM/5133E (EPDM) Socket Union (S x S)



Nominal Size	FKM Part No.	EPDM Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. A	Dim. L	Dim. S*
1/4	1897-002	1897E002	5	0.10	1.70	0.41	0.64
1/2	1897-005	1897E005	10	0.17	1.99	0.43	0.89
3/4	1897-007	1897E007	10	0.30	2.43	0.44	1.02
1	1897-010	1897E010	5	0.43	2.82	0.43	1.14
1 1/4	1897-012	1897E012	5	0.94	4.07	0.79	1.27
1 1/2	1897-015	1897E015	5	1.01	4.07	0.81	1.39
2	1897-020	1897E020	5	1.98	5.24	0.80	1.52
3	1897-030	1897E030	5	3.77	7.15	0.94	1.91

Socket x Thread is available on request in all sizes except 2 1/2". The 2 1/2" Socket Union is available as a fabrication from the 3" size Bushed down.

\* Socket Depth

### 5133-3-3 FKM/5133E-3-3 (EPDM) Threaded Union (FPT x FPT)



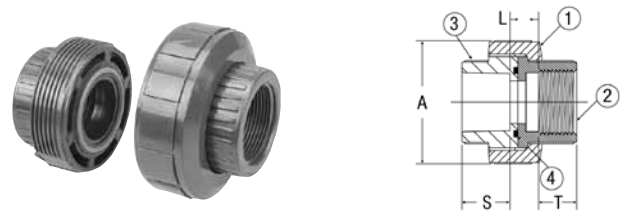
Nominal Size	FKM Part No.	EPDM Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. A	Dim. L	Dim. S*
1/4	1898-002	1898E002	5	0.10	1.69	1.07	0.31
1/2	1898-005	1898E005	5	0.17	1.99	1.30	0.43
3/4	1898-007	1898E007	5	0.30	2.43	1.37	0.45
1	1898-010	1898E010	5	0.44	2.82	1.51	0.53
1 1/4	1898-012	1898E012	5	0.97	4.07	2.01	0.55
1 1/2	1898-015	1898E015	5	1.00	4.07	2.16	0.57
2	1898-020	1898E020	5	1.98	5.24	2.36	0.57
3	1898-030	1898E030	5	3.99	7.15	2.685	0.95

Socket x Thread is available on request in all sizes except 2 1/2". The 2 1/2" Socket Union is available as a fabrication from the 3" size Bushed down.

\* Thread Joint Engagement

Chemtrol  
Fig. No.

### 5133-3 FKM / 5133E-3 (EPDM) Female Adapter Union (S x FPT)



Nominal Size	FKM Part No.	EPDM Part No.	Ctn. Qty.	Approx. Lbs./Ea.	Dim. A	Dim. L	Dim. S*	Dim. T†
1/2	1899-005	1899E005	10/5	0.163	1.99	0.84	0.89	0.43
3/4	1899-007	1899E007	10	0.282	2.43	0.81	1.02	0.45
1	1899-010	1899E010	10	0.411	2.82	0.90	1.14	0.53
1 1/4	1899-012	1899E012	10	0.943	4.07	1.29	1.27	0.55
1 1/2	1899-015	1899E015	10	0.967	4.07	1.32	1.39	0.55
2	1899-020	1899E020	5	1.880	5.24	1.41	1.52	0.57
3	1899-030	1899E030	5	4.100	7.15	1.90	1.91	0.95

The 2 1/2" Socket x Thread Union is available as a fabrication from the 3" size Bushed down.

\* Socket Depth

† Thread Joint Engagement

## Transition Unions

### Materials of Construction

Item	Description	Material
1	Union Nut	CPVC
2	End Connector	Brass/SS
3	O-Ring	FKM/EPDM
4	Union Tailpiece	CPVC

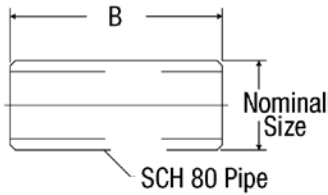
TCBR-3 Brass End Connector (FPT)  
TCBR-4 Brass End Connector (MPT)  
TCSS-3 Stainless Steel End Connector (FPT)  
TCSS-4 Stainless Steel End Connector (MPT)

Refer to page 13 for purchase and assembly instructions of Transition Unions and for part number, size, carton quantity, weights, and dimensions of Metal End Connectors.

**Nipples**

Chemtrol  
Fig. No.

**5131 Plain End Pipe Nipple (SPG x SPG)**



Used for solvent cementing  
joining any  
fittings face-

Nominal Size	Part Number	Ctn. Qty.	Approx. Lbs./Ea.	Dim. B
1/2	Use Figure No. & Nom. Size	12	0.04	1.75
3/4		12	0.05	2.00
1		12	0.09	2.25
1 1/4		12	0.14	2.50
1 1/2		12	0.19	2.75
2		12	0.27	3.00
2 1/2		12	0.48	3.50
3		12	0.69	3.75
4		12	1.21	4.25
6		6	3.08	6.00
8	2	6.70	8.18	

**5129 Thread Pipe Nipple (MPT x MPT)**

Nominal Size	Ctn. Qty.	Length – Close			Length – Short		
		Universal Part No.	Approx. Lbs./Ea.	Dim. A	Universal Part No.	Approx. Lbs./Ea.	Dim. A
1/4	25	1861-037	0.01	0.88	1861-038	0.01	1.50
1/2	25	1861-077	0.02	1.13	1861-078	0.02	1.50
3/4	25	1861-104	0.03	1.38	1861-105	0.04	2.00
1	25	1861-133	0.04	1.50	1861-134	0.06	2.00
1 1/4	10	1861-170	0.06	1.63	1861-171	0.10	2.50
1 1/2	10	1861-213	0.08	1.75	1861-214	0.11	2.50
2	10	1861-251	0.14	2.00	1861-252	0.18	2.50
2 1/2	5	1861-292	0.27	2.50	1861-293	0.36	3.00
3	5	1861-338	0.38	2.63	1861-340	0.45	3.00
4	5	1861-422	0.62	2.88	1861-423	0.84	4.00

Nom. Size	Ctn. Qty.	Length – 2"		Length – 3"		Length – 4"	
		Universal Part No.	Approx. Lbs./Ea.	Universal Part No.	Approx. Lbs./Ea.	Universal Part No.	Approx. Lbs./Ea.
1/4	25	1861-039	0.02	1861-041	0.02	1861-042	0.03
1/2	25	1861-079	0.03	1861-081	0.05	1861-082	0.07
3/4	25	–	–	1861-106	0.06	1861-107	0.09
1	25	–	–	1861-135	0.09	1861-136	0.13
1	10	–	–	1861-172	0.14	1861-173	0.18
1 1/2	10	–	–	1861-215	0.17	1861-216	0.27
2	10	–	–	1861-253	0.24	1861-254	0.36
2 1/2	5	–	–	See Short	–	1861-295	0.55
3	5	–	–	See Short	–	1861-341	0.73
4	5	–	–	See Short	–	See Short	–

Chemtrol  
Fig. No.

**5129 Thread Pipe Nipple (MPT x MPT) (cont.)**

Nominal Size	Ctn. Qty.	Length – 5"		Length – 6"	
		Universal Part No.	Approx. Lbs./Ea.	Universal Part No.	Approx. Lbs./Ea.
1/4	25	1861-043	0.05	1861-044	0.06
1/2	25	1861-083	0.10	1861-084	0.12
3/4	25	1861-108	0.13	1861-109	0.16
1	25	1861-137	0.20	1861-138	0.24
1 1/4	10	1861-174	0.27	1861-175	0.33
1 1/2	10	1861-217	0.33	1861-218	0.40
2	10	1861-255	0.45	1861-256	0.54
2 1/2	5	1861-296	0.69	1861-297	0.82
3	5	1861-342	0.92	1861-343	1.10
4	5	1861-425	1.34	1861-426	1.61

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