

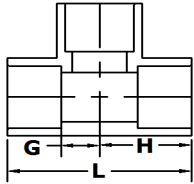


DIMENSIONAL CATALOG

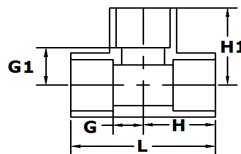
SCH 40 - PVC

Pressure Fittings

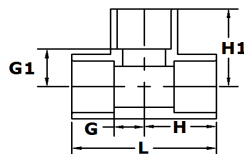
SCHEDULE 40 PVC



Tee				
Part No	Size (in)	L	H	G
401-003	$\frac{3}{8}$	2 $\frac{5}{16}$	1 $\frac{3}{16}$	$\frac{3}{8}$
401-005	$\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{1}{2}$
401-007	$\frac{3}{4}$	2 $\frac{3}{4}$	1 $\frac{3}{8}$	$\frac{9}{16}$
401-010	1	3 $\frac{6}{16}$	1 $\frac{11}{16}$	$\frac{11}{16}$
401-012	1 $\frac{1}{4}$	4 $\frac{1}{4}$	2 $\frac{1}{8}$	$\frac{7}{8}$
401-015	1 $\frac{1}{2}$	4 $\frac{5}{8}$	2 $\frac{5}{16}$	1
401-020	2	5 $\frac{1}{4}$	2 $\frac{5}{8}$	1 $\frac{1}{4}$
401-025	2 $\frac{1}{2}$	7	3 $\frac{1}{2}$	1 $\frac{1}{2}$
401-030	3	7 $\frac{5}{8}$	3 $\frac{13}{16}$	1 $\frac{13}{16}$
401-040	4	8 $\frac{11}{16}$	4 $\frac{5}{16}$	2 $\frac{5}{16}$
401-050	5	12 $\frac{1}{16}$	6	3
401-060	6	14 $\frac{1}{16}$	7 $\frac{1}{16}$	3 $\frac{1}{2}$
401-080	8	18	9	4 $\frac{1}{2}$
401-100	10	21 $\frac{13}{16}$	10 $\frac{15}{16}$	5 $\frac{7}{8}$
401-120	12	26 $\frac{1}{8}$	13 $\frac{1}{16}$	7

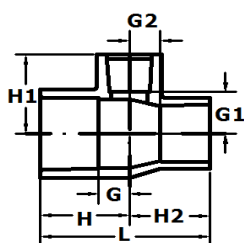


Reducer Tee						
Part No	Size (in)	L	H	H1	G	G1
401-101	$\frac{3}{4} \times \frac{1}{2}$	2 $\frac{5}{8}$	1 $\frac{5}{16}$	1 $\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
401-130	1 $\times \frac{1}{2}$	3	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{11}{16}$
401-131	1 $\times \frac{3}{4}$	3 $\frac{1}{8}$	1 $\frac{9}{16}$	1 $\frac{1}{2}$	$\frac{9}{16}$	$\frac{11}{16}$
401-166	1 $\frac{1}{4} \times \frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{3}{4}$	1 $\frac{5}{8}$	1 $\frac{1}{4}$	$\frac{7}{8}$
401-167	1 $\frac{1}{4} \times \frac{3}{4}$	3 $\frac{11}{16}$	1 $\frac{7}{8}$	1 $\frac{11}{16}$	$\frac{9}{16}$	$\frac{7}{8}$
401-168	1 $\frac{1}{4} \times 1 \times 1$	3 $\frac{7}{8}$	1 $\frac{15}{16}$	1 $\frac{7}{8}$	$\frac{11}{16}$	$\frac{7}{8}$
401-209	1 $\frac{1}{2} \times \frac{1}{2}$	3 $\frac{11}{16}$	1 $\frac{13}{16}$	1 $\frac{13}{16}$	$\frac{1}{2}$	1
401-210	1 $\frac{1}{2} \times \frac{3}{4}$	3 $\frac{13}{16}$	1 $\frac{15}{16}$	1 $\frac{13}{16}$	$\frac{5}{8}$	1
401-211	1 $\frac{1}{2} \times 1$	4	2	2	$\frac{11}{16}$	1
401-212	1 $\frac{1}{2} \times 1 \frac{1}{4}$	4 $\frac{3}{8}$	2 $\frac{3}{16}$	2 $\frac{1}{4}$	$\frac{7}{8}$	1 $\frac{1}{16}$
401-247	2 $\times \frac{1}{2}$	3 $\frac{13}{16}$	1 $\frac{7}{8}$	2	$\frac{1}{2}$	1 $\frac{1}{4}$
401-248	2 $\times \frac{3}{4}$	3 $\frac{15}{16}$	2	2	$\frac{9}{16}$	1 $\frac{1}{4}$
401-249	2 $\times 1$	4 $\frac{3}{16}$	2 $\frac{1}{16}$	2 $\frac{1}{4}$	$\frac{11}{16}$	1 $\frac{1}{4}$
401-250	2 $\times 1 \frac{1}{4}$	4 $\frac{1}{2}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{1}{4}$
401-251	2 $\times 1 \frac{1}{2}$	4 $\frac{3}{4}$	2 $\frac{3}{8}$	2 $\frac{9}{16}$	1	1 $\frac{1}{4}$
401-287	2 $\frac{1}{2} \times \frac{1}{2}$	5 $\frac{1}{16}$	2 $\frac{1}{2}$	2 $\frac{3}{16}$	$\frac{1}{2}$	1 $\frac{1}{2}$
401-288	2 $\frac{1}{2} \times \frac{3}{4}$	4 $\frac{15}{16}$	2 $\frac{7}{16}$	2 $\frac{5}{16}$	$\frac{9}{16}$	1 $\frac{1}{2}$
401-289	2 $\frac{1}{2} \times 1$	5 $\frac{3}{16}$	2 $\frac{9}{16}$	2 $\frac{5}{8}$	$\frac{11}{16}$	1 $\frac{1}{2}$
401-290	2 $\frac{1}{2} \times 1 \frac{1}{4}$	5 $\frac{3}{4}$	2 $\frac{7}{8}$	2 $\frac{3}{4}$	$\frac{7}{8}$	1 $\frac{1}{2}$
401-291	2 $\frac{1}{2} \times 1 \frac{1}{2}$	6 $\frac{5}{16}$	3 $\frac{1}{8}$	2 $\frac{3}{4}$	1	1 $\frac{1}{2}$
401-292	2 $\frac{1}{2} \times 2$	6 $\frac{1}{4}$	3 $\frac{1}{8}$	2 $\frac{7}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$
401-333	3 $\times \frac{1}{2}$	5 $\frac{1}{16}$	2 $\frac{1}{2}$	2 $\frac{9}{16}$	$\frac{1}{2}$	1 $\frac{13}{16}$



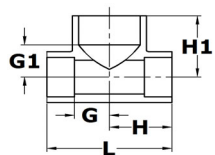
Reducer Tee (con't.)

Part No	Size (in)	L	H	H1	G	G1
401-334	3 x ¾	5 2/16	2 9/16	2 9/16	9/16	1 13/16
401-335	3 x 1	5 3/8	2 11/16	2 7/8	11/16	1 13/16
401-336	3 x 1¼	5 3/4	2 7/8	3 1/16	7/8	1 13/16
401-337	3 x 1½	6 1/16	3	3 3/16	1	1 13/16
401-338	3 x 2	6 1/2	3 1/4	3 3/16	1 1/4	1 13/16
401-339	3 x 2½	7 5/8	3 13/16	4 1/4	1 13/16	2 1/4
401-416	4 x ¾	5 3/16	2 9/16	3	9/16	2 5/16
401-417	4 x 1	5 7/16	2 3/4	3 5/16	11/16	2 5/16
401-418	4 x 4 x 1¼	5 3/4	2 7/8	3 9/16	7/8	2 5/16
401-419	4 x 4 x 1½	6 1/16	3	3 5/8	1	2 5/16
401-420	4 x 4 x 2	6 9/16	3 1/4	3 11/16	1 1/4	2 5/16
401-422	4 x 4 x 3	7 11/16	3 13/16	4 3/8	1 13/16	2 5/16
401-486	5 x 5 x 2	8 1/2	4 1/4	4 3/8	1 1/4	3
401-488	5 x 5 x 3	9 5/8	4 13/16	5	1 13/16	3
401-490	5 x 5 x 4	10 5/8	5 5/16	5	2 5/16	3
401-528	6 x 6 x 2	9 9/16	4 3/4	4 15/16	1 1/4	3 1/2
401-530	6 x 6 x 3	10 11/16	5 3/8	5 9/16	1 13/16	3 9/16
401-532	6 x 6 x 4	11 3/4	5 7/8	5 9/16	2 3/8	3 1/2
401-582	8 x 8 x 4	13 5/8	6 13/16	6 15/16	2 5/16	4 7/8
401-585	8 x 8 x 6	16	8	8 1/16	3 1/2	4 1/2
401-624	10 x 10 x 4	21	10 1/2	7 15/16	5 7/16	5 15/16
401-626	10 x 10 x 6	21	10 1/2	8 15/16	5 7/16	5 15/16
401-628	10 x 10 x 8	21	10 1/2	9 7/8	5 7/16	5 7/8
401-664	12 x 12 x 4	23	11 1/2	9	5 7/16	6 15/16
401-666	12 x 12 x 6	23	11 1/2	10	5 7/16	6 15/16
401-668	12 x 12 x 8	23	11 1/2	11	5 7/16	7
401-670	12 x 12 x 10	26 1/8	13 1/16	13 1/2	7	8 7/16



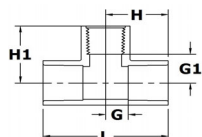
Reducer Tee-Irregular Shape

Part No	Size (in)	L	H	H1	H2	G	G1	G2
401-094	¾ x ½	2 9/16	1 5/16	1 5/16	1 5/16	1/2	9/16	9/16
401-095	¾ x ½ x ¾	2 9/16	1 5/16	1 5/16	1 1/4	9/16	9/16	9/16
401-122	1 x ½ x 1	3 1/16	1 11/16	1 11/16	1 3/8	11/16	3/4	11/16
401-124	1 x ¾ x ½	2 13/16	1 1/2	1 3/8	1 5/16	1/2	11/16	1/2
401-125	1 x ¾	2 15/16	1 9/16	1 7/16	1 3/8	9/16	11/16	9/16
401-126	1 x ¾ x 1	3 3/16	1 11/16	1 11/16	1 1/2	3/4	11/16	11/16
401-156	1¼ x 1 x ½	3 7/8	2 1/16	1 9/16	1 13/16	7/8	13/16	11/16
401-157	1¼ x 1 x ¾	3 7/8	2 1/16	1 5/8	1 13/16	7/8	7/8	11/16
401-158	1¼ x 1 x 1	3 15/16	2 1/8	2	1 3/4	7/8	7/8	11/16
401-199	1½ x 1¼ x ½	4 5/16	2 1/4	1 3/4	2 1/16	1	15/16	13/16
401-201	1½ x 1¼ x ¾	4 7/16	2 5/16	1 13/16	2 1/8	1	1	7/8
401-202	1½ x 1¼ x 1	4 5/16	2 1/4	2 1/8	2 1/16	1	1	7/8
401-238	2 x 1½ x ¾	3 7/8	2	2 1/16	1 15/16	9/16	1 1/4	9/16
401-239	2 x 1½ x 1	4 7/8	2 5/8	2 1/4	2 1/4	1 1/4	1 3/16	1
401-241	2 x 1½ x 1½	4 11/16	2 3/8	2 9/16	2 5/16	1	1 1/4	1



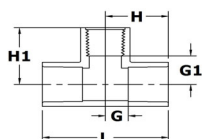
Bullhead Tee

Part No	Size (in)	L	H	H1	G	G1
401-074	½ x ¾	2 3/4	1 3/8	1 1/4	9/16	1/2
401-102	¾ x 1	3	1 1/2	1 9/16	11/16	9/16
401-132	1 x 1¼	3 3/4	1 7/8	1 15/16	7/8	11/16
401-133	1 x 1½	4	2	2	1	11/16
401-213	1½ x 2	5 1/8	2 9/16	2 3/8	1 1/4	1
401-341	3 x 4	8 11/16	4 3/8	3 13/16	2 5/16	1 13/16



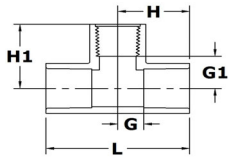
Tee

Part No	Size (in)	L	H	H1	G	G1
402-005	½	2 9/16	1 1/4	1 1/4	1/2	1/2
402-007	¾	2 3/4	1 3/8	1 3/8	9/16	9/16
402-010	1	3 3/8	1 11/16	1 11/16	11/16	11/16
402-012	1¼	4 1/4	2 1/8	2 1/8	7/8	1 3/16
402-015	1½	4 5/8	2 5/16	2 5/16	1	1 7/16
402-020	2	5 1/4	2 5/8	2 3/16	1 1/4	1 1/4
402-030	3	7 5/8	3 13/16	3 3/16	1 13/16	1 3/4
402-040	4	8 5/8	4 5/16	4	2 5/16	2 5/16



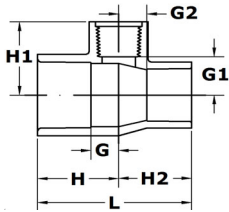
Reducing Tee

Part No	Size (in)	L	H	H1	G	G1
402-071	½ x ½ x ⅝	2 1/16	1	15/16	1/4	1/2
402-072	½ x ½ x ¾	2 7/16	1 3/16	1 1/16	1/2	1/2
402-101	¾ x ¾ x ½	2 9/16	1 5/16	1 5/16	1/2	9/16
402-130	1 x 1 x ½	3	1 1/2	1 7/16	1/2	3/4
402-131	1 x 1 x ¾	3 1/8	1 9/16	1 1/2	9/16	3/4
402-166	1¼ x 1¼ x ½	3 1/2	1 3/4	1 5/8	1/2	7/8
402-167	1¼ x 1¼ x ¾	3 11/16	1 13/16	1 5/8	9/16	15/16
402-168	1¼ x 1¼ x 1	3 7/8	1 15/16	1 7/8	11/16	1
402-209	1½ x 1½ x ½	3 5/8	1 13/16	1 3/4	1/2	1
402-210	1½ x 1½ x ¾	3 13/16	1 7/8	1 13/16	9/16	1 1/8
402-211	1½ x 1½ x 1	4	2	2	11/16	1
402-212	1½ x 1½ x 1¼	4 3/8	2 3/16	2 1/4	7/8	1
402-247	2 x 2 x ½	3 13/16	1 7/8	2	1/2	1 1/4
402-248	2 x ¾	3 15/16	2	2 1/16	9/16	1 1/4
402-249	2 x 2 x 1	4 3/16	2 1/16	2 1/4	11/16	1 1/4
402-250	2 x 2 x 1¼	4 1/2	2 1/4	2 1/2	7/8	1 9/16
402-251	2 x 2 x 1½	4 3/4	2 3/8	2 9/16	1	1 5/8
402-287	2½ x ½	5 1/16	2 1/2	2 1/4	1/2	1 9/16
402-288	2½ x 2½ x ¾	5 1/4	2 5/8	2 5/16	9/16	1 1/2
402-289	2½ x 2½ x 1	5 3/16	2 5/8	2 1/2	11/16	1 1/2
402-290	2½ x 2½ x 1¼	5 13/16	2 7/8	2 1/2	7/8	1 1/2
402-291	2½ x 2½ x 1½	6 1/16	3	2 1/2	1	1 1/2
402-292	2½ x 2½ x 2	6 1/2	3 1/4	2 7/8	1 1/4	1 13/16
402-333	3 x 3 x ½	5 1/16	2 1/2	2 9/16	1/2	1 3/4



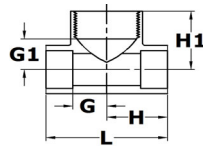
Reducing Tee (con't)

Part No	Size (in)	L	H	H1	G	G1
402-334	3 x 3 x 3/4	5 3/16	2 5/8	2 9/16	9/16	1 13/16
402-335	3 x 3 x 1	5 7/16	2 11/16	2 3/4	11/16	1 13/16
402-336	3 x 3 x 1 1/4	5 3/4	2 7/8	2 13/16	7/8	1 13/16
402-337	3 x 3 x 1 1/2	6	3	2 13/16	1	1 7/8
402-338	3 x 3 x 2	6 9/16	3 1/4	2 7/8	1 1/4	1 13/16
402-416	4 x 4 x 3/4	5 3/16	2 9/16	3 1/8	9/16	2 5/16
402-417	4 x 4 x 1	5 7/16	2 11/16	3 5/16	11/16	2 5/16
402-418	4 x 4 x 1 1/4	5 13/16	2 7/8	3 5/16	7/8	2 1/4
402-419	4 x 4 x 1 1/2	6 1/16	3	3 11/16	1	2 5/16
402-420	4 x 4 x 2	6 1/2	3 1/4	3 3/8	1 1/4	2 1/4
402-422	4 x 4 x 3	7 5/8	3 13/16	4 5/8	1 13/16	3
402-490	5 x 5 x 4	10 11/16	5 5/16	5 1/16	2 5/16	3 5/16
402-528	6 x 6 x 2	9 9/16	4 13/16	4 11/16	1 1/4	3 1/4
402-530	6 x 6 x 3	10 11/16	5 5/16	5 1/2	2 5/16	3 1/2
402-532	6 x 6 x 4	11 11/16	5 13/16	5 1/2	2 5/16	3 1/2



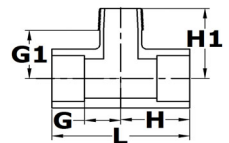
Reducing Tee-Irregular

Part No	Size (in)	L	H	H1	H2	G	G1	G2
402-094	3/4 x 1/2 x 1/2	2 1/2	1 1/4	1 5/16	1 5/16	1/2	9/16	1/2
402-095	3/4 x 1/2 x 3/4	2 3/4	1 3/8	1 3/8	1 3/8	9/16	9/16	5/8
402-124	1 x 3/4 x 1/2	2 13/16	1 1/2	1 1/2	1 5/16	1/2	11/16	1/2
402-125	1 x 3/4 x 3/4	2 15/16	1 9/16	1 1/2	1 3/8	9/16	11/16	5/8
402-156	1 1/4 x 1 x 1/2	3 7/8	2 1/16	1 9/16	1 3/4	7/8	7/8	5/8
402-157	1 1/4 x 1 x 3/4	3 7/8	2 1/16	1 5/8	1 3/4	7/8	15/16	11/16
402-199	1 1/2 x 1 1/4 x 1/2	4 5/16	2 1/4	1 11/16	2 1/16	1	15/16	7/8
402-202	1 1/2 x 1 1/4 x 1	4 5/16	2 1/4	2	2 1/16	15/16	1	7/8
402-239	2 x 1 1/2 x 1	4 7/8	2 9/16	2 1/4	2 1/4	1 1/4	1 3/8	1



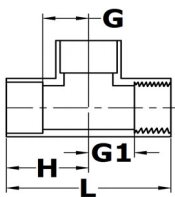
Bullhead Tee

Part No	Size (in)	L	H	H1	G	G1
402-074	1/2 x 3/4	2 3/4	1 3/8	1 5/16	9/16	1/2



Manifold Tee

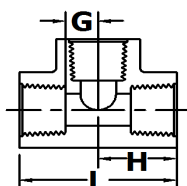
Part No	Size (in)	L	H	H1	G	G1
402B-010	1	3 5/16	1 5/8	1 13/16	11/16	1



Tee

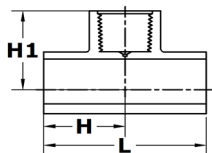
Part No	Size (in)	L	H	G	G1
403-005	½	2 9/16	1 1/4	1/2	1/2
403-007	¾	2 3/4	1 3/8	9/16	9/16

G1 related to thread



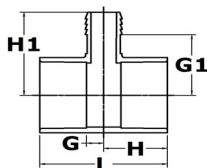
Tee

Part No	Size (in)	L	H	G
405-005	½	2 9/16	1 1/4	1/2
405-007	¾	2 3/4	1 3/8	9/16
405-010	1	3 3/8	1 11/16	11/16
405-012	1¼	4 1/4	2 1/8	1 1/4
405-015	1½	4 5/8	2 5/16	1



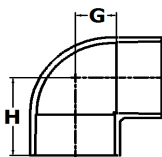
Snap-On Tee

Part No	Size (in)	L	H	H1
464-007	¾	2 3/4	1 3/8	1 3/8
464-101	¾ x ½	2 9/16	1 1/4	1 3/8
464-130	1 x ½	3 1/8	1 9/16	1 1/2
464-131	1 x ¾	3 5/16	1 11/16	1 1/2



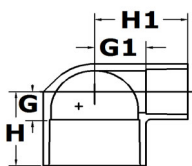
Transition Tee

Part No	Size (in)	L	H	H1	G	G1
1102-249	2 x 2 x 1	3 13/16	1 15/16	3	1/2	1 7/16



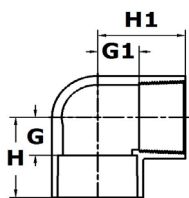
90° Ell

Part No	Size (in)	H	G
406-003	¾	1 1/8	3/8
406-005	½	1 1/4	1/2
406-007	¾	1 3/8	9/16
406-010	1	1 11/16	11/16
406-012	1¼	2 1/8	7/8
406-015	1½	2 1/4	1
406-020	2	2 9/16	1 1/4
406-025	2½	3 1/2	1 1/2
406-030	3	3 13/16	1 13/16
406-040	4	4 3/8	2 5/16
406-050	5	6	3
406-060	6	7	3 1/2
406-080	8	9	4 1/2
406-100	10	11 3/16	6 3/16
406-120	12	13 1/4	7 3/16



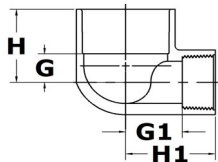
Reducing 90° Ell

Part No	Size (in)	H	H1	G	G1
406-101	$\frac{3}{4} \times \frac{1}{2}$	1 $\frac{5}{16}$	1 $\frac{5}{16}$	$\frac{1}{2}$	$\frac{9}{16}$
406-130	1 x $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{8}$	$\frac{1}{2}$	$\frac{11}{16}$
406-131	1 x $\frac{3}{4}$	1 $\frac{9}{16}$	1 $\frac{1}{2}$	$\frac{9}{16}$	$\frac{11}{16}$
406-167	1 $\frac{1}{4}$ x $\frac{3}{4}$	2	1 $\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$
406-168	1 $\frac{1}{4}$ x 1	1 $\frac{15}{16}$	1 $\frac{7}{8}$	$\frac{11}{16}$	$\frac{7}{8}$
406-211	1 $\frac{1}{2}$ x 1	2 $\frac{3}{4}$	2 $\frac{3}{16}$	1 $\frac{1}{2}$	1 $\frac{1}{16}$
406-212	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	2 $\frac{3}{16}$	2 $\frac{1}{4}$	$\frac{7}{8}$	1 $\frac{1}{8}$
406-249	2 x 1	2 $\frac{3}{16}$	2 $\frac{7}{16}$	$\frac{13}{16}$	1 $\frac{3}{8}$
406-250	2 x 1 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{7}{16}$	$\frac{7}{8}$	1 $\frac{1}{4}$
406-251	2 x 1 $\frac{1}{2}$	2 $\frac{7}{16}$	2 $\frac{5}{8}$	1 $\frac{1}{16}$	1 $\frac{5}{16}$



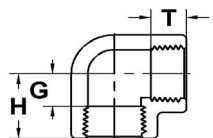
90° Ell

Part No	Size (in)	H	H1	G	G1
407-005	$\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{3}{16}$	$\frac{1}{2}$	$\frac{7}{16}$
407-007	$\frac{3}{4}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$	$\frac{5}{8}$	$\frac{9}{16}$
407-010	1	1 $\frac{5}{8}$	1 $\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$
407-012	1 $\frac{1}{4}$	2 $\frac{3}{16}$	1 $\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$
407-015	1 $\frac{1}{2}$	2 $\frac{5}{16}$	2 $\frac{5}{16}$	1	1
407-020	2	2 $\frac{5}{8}$	2 $\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$
407-025	2 $\frac{1}{2}$	3 $\frac{3}{8}$	2 $\frac{3}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
407-030	3	3 $\frac{3}{4}$	3 $\frac{3}{16}$	1 $\frac{3}{4}$	1 $\frac{5}{8}$
407-040	4	4 $\frac{3}{8}$	4 $\frac{3}{16}$	2 $\frac{3}{8}$	3 $\frac{5}{16}$



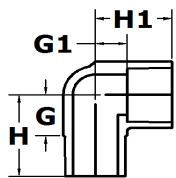
Reducing 90° Ell

Part No	Size (in)	H	H1	G	G1
407-074	$\frac{1}{2} \times \frac{3}{4}$	1 $\frac{3}{8}$	1 $\frac{5}{16}$	$\frac{9}{16}$	$\frac{1}{2}$
407-101	$\frac{3}{4} \times \frac{1}{2}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{9}{16}$	$\frac{9}{16}$
407-130	1 x $\frac{1}{2}$	1 $\frac{9}{16}$	1 $\frac{3}{8}$	$\frac{9}{16}$	$\frac{11}{16}$
407-131	1 x $\frac{3}{4}$	1 $\frac{9}{16}$	1 $\frac{1}{2}$	$\frac{9}{16}$	$\frac{11}{16}$
407-168	1 $\frac{1}{4}$ x 1	1 $\frac{15}{16}$	1 $\frac{7}{8}$	$\frac{11}{16}$	$\frac{7}{8}$
407-211	1 $\frac{1}{2}$ x 1	1 $\frac{15}{16}$	2 $\frac{3}{4}$	1 $\frac{1}{16}$	1 $\frac{3}{4}$
407-212	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	2 $\frac{3}{16}$	2 $\frac{1}{4}$	$\frac{7}{8}$	1 $\frac{5}{16}$
407-249	2 x 1	2 $\frac{3}{16}$	2 $\frac{7}{16}$	$\frac{13}{16}$	1 $\frac{9}{16}$
407-250	2 x 1 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{7}{16}$	$\frac{7}{8}$	1 $\frac{9}{16}$
407-251	2 x 1 $\frac{1}{2}$	2 $\frac{7}{16}$	2 $\frac{5}{8}$	1 $\frac{1}{16}$	1 $\frac{11}{16}$



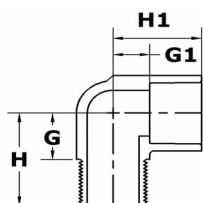
90° Ell

Part No	Size (in)	H	G
408-005	$\frac{1}{2}$	1 $\frac{5}{16}$	$\frac{1}{2}$
408-007	$\frac{3}{4}$	1 $\frac{3}{8}$	$\frac{9}{16}$
408-010	1	1 $\frac{11}{16}$	$\frac{11}{16}$
408-012	1 $\frac{1}{4}$	2 $\frac{1}{8}$	$\frac{7}{8}$
408-015	1 $\frac{1}{2}$	2 $\frac{5}{16}$	$\frac{15}{16}$
408-020	2	2 $\frac{5}{8}$	1 $\frac{1}{4}$



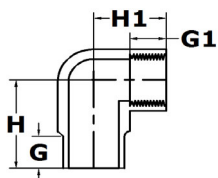
90° Street Ell

Part No	Size (in)	H	H1	G	G1
409-005	½	1 5/16	1 1/8	9/16	5/16
409-007	¾	1 5/8	1 1/4	13/16	1/2
409-010	1	1 7/8	1 7/16	7/8	9/16
409-012	1¼	2 3/8	2 1/8	1 1/16	13/16
409-015	1½	2 5/8	2 5/16	1 1/4	1
409-020	2	2 7/8	2 5/8	1 7/16	1 1/4
409-025	2 ½	4 1/16	3 3/8	2	1 7/16
409-030	3	4 7/16	4 3/16	2 5/16	2 3/16



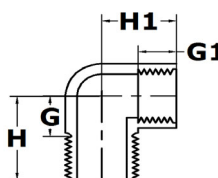
90° Street Ell

Part No	Size (in)	H	H1	G	G1
410-005	½	1 5/16	1 1/4	11/16	1/2
410-007	¾	1 9/16	1 1/4	3/4	7/16
410-010	1	1 7/8	1 9/16	1	9/16
410-012	1¼	1 15/16	2 1/16	1 1/8	13/16
410-015	1½	2 5/16	2 5/16	1 1/4	1
410-020	2	2 1/4	2 11/16	1 1/2	1 5/16
410-101	¾ x ½	1 1/4	1 3/8	1/2	3/4



90° Street Ell

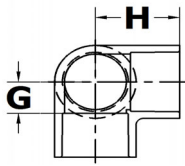
Part No	Size (in)	H	H1	G	G1
411-005	½	1 5/16	1 1/8	9/16	3/8
411-007	¾	1 1/2	1 1/4	11/16	1/2
411-010	1	1 13/16	1 9/16	13/16	9/16
411-012	1¼	2 3/8	2 1/16	1 1/16	1 1/8
411-015	1½	2 5/8	2 5/16	1 5/16	1



90° Street Ell

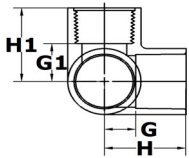
Part No	Size (in)	H	H1	G	G1
412-005	½ PVC	1 7/16	1 1/16	13/16	5/16
412-007	¾ PVC	1 5/8	1 3/16	13/16	7/16
412-010	1 PVC	1 14/16	1 7/16	7/8	9/16
412-012	1¼ PVC	1 15/16	2 1/8	1 1/8	1 3/16
412-015	1½ PVC	2 5/16	2 5/16	1 1/4	1 5/16
M412-005	½ Poly*	1 3/8	1	3/4	5/16
M412-007	¾ Poly*	1 11/16	1 3/16	7/8	7/16
M412-010	1 Poly*	1 7/8	1 1/2	15/16	1/2

*Not Listed by NSF



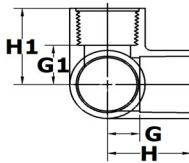
90° Side Outlet Ell

Part No	Size (in)	H	G
413-005	½	1 5/16	9/16
413-007	¾	1 3/8	9/16
413-010	1	1 11/16	11/16
413-015	1 ½	2 5/16	1
413-020	2	2 5/8	1 1/4



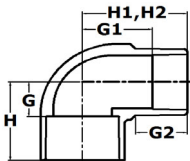
90° Side Outlet Ell

Part No	Size (in)	H	H1	G	G1
414-005	½	1 1/4	1 3/16	1/2	1/2
414-010	1	1 11/16	1 11/16	11/16	13/16



90° Side Outlet Ell-Reducer

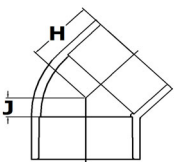
Part No	Size (in)	H	H1	G	G1
414-101	¾ x ½	1 5/16	1 3/8	9/16	11/16
414-130	1 x 1 x ½	1 3/4	1 3/8	11/16	11/16



Reducing Ell

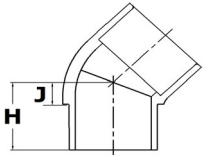
Part No	Size (in)	H	H1	H2	G	G1	G2
416-251	2 x 1½ (2 Sp)	2 5/8	2 7/8	2 7/8	1 1/4	1 9/16	1 1/2
416-292	2½ x 2 (2½ Sp)	3 3/8	4 1/8	4 1/8	2 3/4	1 1/2	2 1/16

**H2, G2 items pertain to dimension of spigot



45° Ell

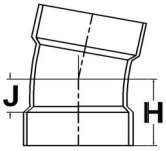
Part No	Size (in)	H	J
417-005	½	1 1/16	1/4
417-007	¾	1 1/8	3/8
417-010	1	1 7/16	5/16
417-012	1¼	1 5/8	3/8
417-015	1½	1 11/16	7/16
417-020	2	2	11/16
417-025	2½	2 11/16	11/16
417-030	3	2 3/4	3/4
417-040	4	3	1
417-050	5	4 3/8	1 3/8
417-060	6	5 3/8	1 13/16
417-080	8	6 1/2	2
417-100	10	8 1/16	3 1/16
417-120	12	9 9/16	3 1/2



45° Street Ell

Part No	Size (in)	H	J
423-015	1½	1 15/16	11/16
423-020	2	2	5/8
423-025	2½	3 1/16	1 1/16
423-030	3	3 1/4	1 1/4
423-100	10	8 1/16	3 1/16
423-120	12	9 9/16	3 1/2

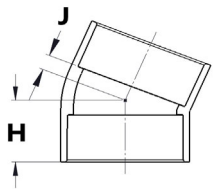
* H & J is related to spigot



11¼° Ell

Part No.	Size (in)	H*	J*
461-100	10	5 15/16	3/4
461-120	12	7 5/16	1

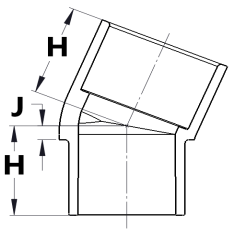
H & J Lengths may vary, Socket Depths are averages



22½° Ell

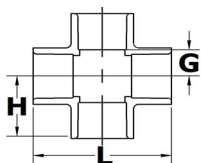
Part No	Size (in)	H	J
465-015	1½	1 2/4	1/3
465-020	2	2	3/4
465-025	2½	2 1/2	1/2
465-030	3	2 5/9	4/8
465-040	4	2 10/16	10/16
465-060	6	4 1/2	1 1/2
465-100*	10	6 11/16	1 1/4
465-120*	12	7 13/16	1 1/2

* Parts are fabricated from pipe



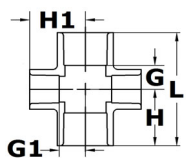
22 1/2° Elbow Slip x Spigot

Part No	Size (in)	H	J
466-015	1 1/2	1 5/8	1/4
466-020	2	2	5/8
466-025	2 1/2	2 1/2	7/16
466-030	3	2 9/16	1/2
466-040	4	2 9/16	1/2
466-060	6	4 17/32	1 15/32



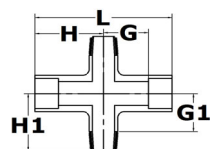
Cross

Part No	Size (in)	L	H	G
420-005	½	2 7/16	1 3/16	1/2
420-007	¾	2 5/8	1 5/16	9/16
420-010	1	3 3/8	1 11/16	11/16
420-012	1¼	4 1/4	2 1/8	7/8
420-015	1½	4 5/8	2 5/16	1
420-020	2	5 1/4	2 5/8	1 1/4
420-025	2½	7	3 1/2	1 1/2
420-030	3	7 5/8	3 13/16	1 13/16
420-040	4	8 11/16	4 5/16	2 5/16



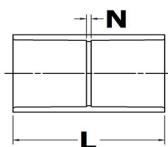
Reducing Cross

Part No	Size (in)	L	H	H1	G	G1
420-335	3 x 1	5 7/16	2 3/4	2 13/16	11/16	1 13/16
420-337	3 x 1½	6	3	3 1/8	1	1 13/16
420-338	3 x 2	6 9/16	3 1/4	3 3/16	1 1/4	1 13/16
420-419	4 x 1½	6 1/16	3	3 5/8	1	2 5/16
420-420	4 x 2	6 9/16	3 1/4	3 11/16	1 1/4	2 5/16



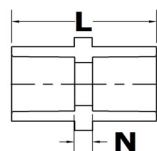
Manifold Cross

Part No	Size (in)	L	H	H1	G	G1
421A-010	1	3 5/16	1 5/8	1 13/16	11/16	1



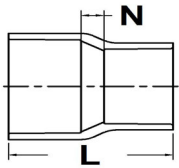
Long Socket Coupling

Part No	Size (in)	L	N
428-015	1½ (1.825*)	3 3/4	1/8
428-020	2 (1.945*)	4	1/8



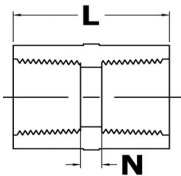
Coupling

Part No	Size (in)	L	N
429-003	¾	1 5/8	1/8
429-005	½	1 11/16	1/8
429-007	¾	1 11/16	1/8
429-010	1	2 1/16	1/8
429-012	1¼	2 5/8	1/8
429-015	1½	2 3/4	1/8
429-020	2	2 7/8	1/8
429-025	2 ½	4 1/16	3/16
429-030	3	4 3/16	3/16
429-040	4	4 1/4	3/16
429-050	5	6 1/4	3/16
429-060	6	7 5/16	5/16
429-080	8	9 1/4	1/4
429-100	10	10 5/16	5/16
429-120	12	12 3/8	5/16



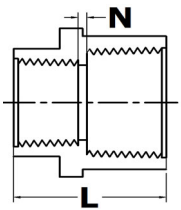
Reducer Coupling (con't)

Part No	Size (in)	L	N
429-101	$\frac{3}{4} \times \frac{1}{2}$	1 $\frac{5}{8}$	$\frac{1}{8}$
429-131	1 x $\frac{3}{4}$	2 $\frac{1}{8}$	$\frac{1}{4}$
429-168	1 $\frac{1}{4}$ x 1	2 $\frac{9}{16}$	$\frac{5}{16}$
429-212	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	2 $\frac{3}{4}$	$\frac{1}{4}$
429-251	2 x 1 $\frac{1}{2}$	3 $\frac{1}{8}$	$\frac{7}{16}$
429-338	3 x 2	4 $\frac{1}{16}$	$\frac{5}{8}$
429-422	4 x 3	4 $\frac{5}{8}$	$\frac{5}{8}$
429-532	6 x 4	6 $\frac{5}{8}$	1 $\frac{3}{16}$
429-582	8 x 4	8 $\frac{15}{16}$	2 $\frac{3}{8}$
429-585	8 x 6	9 $\frac{1}{16}$	1 $\frac{1}{16}$
429-626	10 x 6	10 $\frac{13}{16}$	2 $\frac{11}{16}$
429-628	10 x 8	10 $\frac{3}{4}$	1 $\frac{11}{16}$
429-668	12 x 8	12 $\frac{7}{8}$	2 $\frac{11}{16}$
429-670	12 x 10	13 $\frac{1}{16}$	1 $\frac{15}{16}$



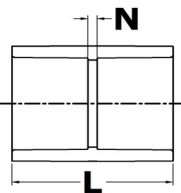
Coupling

Part No	Size (in)	L	N
430-005	$\frac{1}{2}$	1 $\frac{11}{16}$	$\frac{5}{16}$
430-007	$\frac{3}{4}$	2	$\frac{1}{16}$
430-010	1	2 $\frac{1}{16}$	$\frac{1}{16}$
430-020	2	2 $\frac{1}{2}$	$\frac{5}{8}$
430-005-45	$\frac{1}{2}$ GRAY	1 $\frac{11}{16}$	$\frac{5}{16}$
430-007-45	$\frac{3}{4}$ GRAY	2	0



Coupling

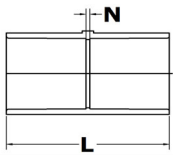
Part No	Size (in)	L	N
430-101	$\frac{3}{4} \times \frac{1}{2}$	1 $\frac{9}{16}$	$\frac{1}{8}$
430-131	1 x $\frac{3}{4}$	1 $\frac{13}{16}$	$\frac{1}{16}$
430-101-45	$\frac{3}{4} \times \frac{1}{2}$ GRAY	1 $\frac{9}{16}$	$\frac{1}{16}$
430-131-45	1 x $\frac{3}{4}$ GRAY	1 $\frac{3}{4}$	$\frac{1}{16}$



Nested Coupling

Part No	Size (in)	L	N
477-005BC	$\frac{1}{2}$ *	1 $\frac{5}{8}$	$\frac{1}{8}$
477-007BC	$\frac{3}{4}$	1 $\frac{11}{16}$	$\frac{1}{8}$
477-010BC	1	2 $\frac{1}{16}$	$\frac{1}{16}$

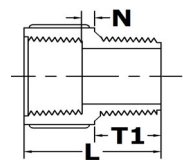
*1/2" nested couplings do not meet ASTM Standards for Sch 40 fittings and are not NSF listed.



Deep Socket Coupling

Part No	Size (in)	L	N
482-015	1½ (2.169*)	4 7/16	1/8
482-020	2 (2.389*)	4 15/16	1/8
482-025	2½ (3.385*)	7	1/4
482-030	3 (3.625*)	7 9/16	1/4
482-040	4 (3.625*)	7 5/8	1/4

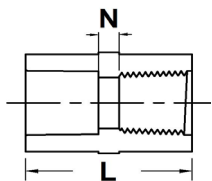
*Socket depth, each side.



Riser Extender

Part No	Size (in)	L	N	T1
434-005	½	1 11/16	1/8	3/4
434-007	¾	1 9/16	1/8	5/8
434-008	¾*	2 1/4	7/8	9/16
434-020	2	2 5/8	3/16	1 1/16

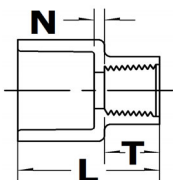
*2 5/16 Long



Female Adapter

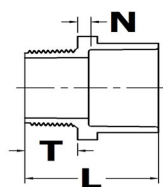
Part No	Size (in)	L	N
435-005	½	1 3/4	5/16
435-007	¾	1 3/4	5/16
435-010	1	2 3/16	1/8
435-012	1¼	2 1/4	1/16
435-015	1½	2 1/4	1/16
435-020	2	2 7/16	1/16
435-025	2½	3 3/4	3/16
435-030	3	3 3/4	3/16
435-040	4	4	3/16
435-050	5	5 1/8	1/4
435-060	6	5 3/4	1/4
435-080	8	6 15/16	1/4

Body diameter measured across hex flats (if applicable)



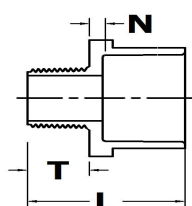
Reducing Female Adapter

Part No	Size (in)	L	N	T
435-074	½ x ¾	1 11/16	1/16	13/16
435-101	¾ x ½	1 9/16	1/8	11/16
435-102	¾ x 1	1 3/4	1/16	1
435-131	1 x ¾	1 7/8	0	7/8
435-211	1 x 1½	2 3/16	3/16	1



Male Adapter

Part No	Size (in)	L	N	T
436-005	½	1 9/16	1/8	5/8
436-007	¾	1 9/16	3/16	5/8
436-010	1	2	3/16	13/16
436-012	1¼	2 1/2	1/4	1
436-015	1½	2 1/2	3/16	1
436-020	2	2 11/16	1/4	1 1/16
436-025	2½	3 7/8	5/16	1 9/16
436-030	3	3 15/16	5/16	1 5/8
436-040	4	4 1/16	5/16	1 3/4
436-050	5	5 3/16	3/8	1 13/16
436-060	6	5 7/8	7/16	1 15/16
436-080	8	7 1/8	7/16	2 1/8

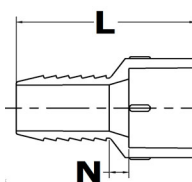


Reducing Male Adapter

Part No	Size (in)	L	N	T
436-073	½ x ¾	1 1/2	1/8	3/4
436-074	½ x ¾	1 3/4	1/8	3/4
436-101	¾ x 1	1 11/16	1/8	13/16
436-102	¾ x 1	1 13/16	3/16	5/8
436-131	1 x ¾	2 5/16	3/16	13/16
436-132	1 x 1¼	2 7/16	3/16	1
436-133	1 x 1½	2 9/16	3/16	1
436-168	1¼ x 1	2	3/16	13/16
436-169	1¼ x 1½	2 5/16	3/16	3/4
436-212	1½ x 1¼	2 1/2	3/16	1
436-213	1½ x 2	2 5/8	3/16	1 1/16
436-251	2 x 1½	2 9/16	3/16	1 1/16
436-252	2 x 2½	3 5/16	1/4	1 1/16
436-253	2 x 3	3 5/16	5/16	1
436-293	2½ x 3	3 7/8	1/4	1 9/16
436-341	3 x 4	3 15/16	5/16	1 5/8

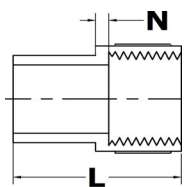
Hex outside diameter measured across hex flats

Body diameter includes body hex (if applicable)



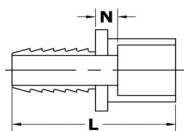
Adapter

Part No	Size (in)	L	N
474-007	¾	2 9/16	1/4
474-010	1	2 11/16	1/4
474-015	1½	3 7/16	3/8
474-020	2	3 5/16	1/4



Fitting Adapter

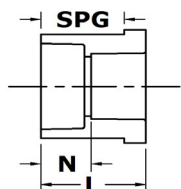
Part No	Size (in)	L	N
478-010	1	2 1/4	3/16
478-012	1¼	2 1/2	3/16
478-015	1½	2 5/16	3/16
478-020	2	2 9/16	3/16



Insert Adapter

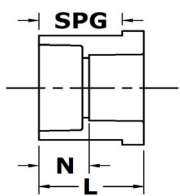
Part No	Size (in)	L	N
460-007	¼ x ¾ SP (½ Slip)	2 9/16	1/4
460-010	1 x 1 SP (¾ Slip)	2 11/16	3/8
460-015	1½ x 1½ SP	3 3/8	3/8

ASTM D 2609 - Plastic Insert Fitting for Polyethylene (PE) pipe



Reducer Bushing

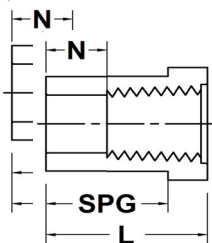
Part No	Size (in)	L	N	SPG
437-073	½ x ¾	1 3/16	7/16	7/8
437-101	¾ x 1½	1 1/16	1/4	13/16
437-130	1 x ½	1 1/4	1/2	1
437-131	1 x ¾	1 1/4	7/16	1
437-166	1¼ x ½	1 9/16	13/16	1 1/4
437-167	1¼ x ¾	1 1/2	3/4	1 3/16
437-168	1¼ x 1	1 1/2	7/16	1 3/16
437-209	1½ x ½	1 5/8	7/8	1 5/16
437-210	1½ x ¾	1 5/8	13/16	1 5/16
437-211	1½ x 1	1 11/16	11/16	1 5/16
437-212	1½ x 1¼	1 9/16	3/8	1 1/4
437-247	2 x ½	1 11/16	15/16	1 3/8
437-248	2 x ¾	1 11/16	7/8	1 3/8
437-249	2 x 1	1 5/8	9/16	1 5/16
437-250	2 x 1¼	1 11/16	7/16	1 3/8
437-251	2 x 1½	1 11/16	3/8	1 3/8
437-287	2½ x ½	2 5/16	1 9/16	2
437-288	2½ x ¾	2 5/16	5/16	2
437-289	2½ x 1	2 5/16	1 5/16	2
437-290	2½ x 1¼	2 1/4	1	2
437-291	2½ x 1½	2 5/16	1	2
437-292	2½ x 2	2 1/4	7/8	1 15/16
437-334	3 x ¾	2 7/16	1/4	2
437-335	3 x 1	2 3/8	1 7/16	2
437-336	3 x 1¼	2 7/16	1 1/4	2 1/16
437-337	3 x 1½	2 3/8	1 1/8	2
437-338	3 x 2	2 3/8	1	2
437-339	3 x 2½	2 3/8	3/8	2



Reducer Bushing (con't)

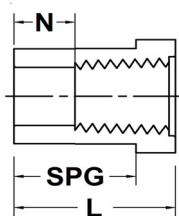
Part No	Size (in)	L	N	SPG
437-420	4 x 2	2 3/8	1	2
437-421	4 x 2½	2 7/16	9/16	2 1/16
437-422	4 x 3	2 3/8	3/8	2
437-488	5 x 3	3 5/16	1 1/4	3 1/16
437-490	5 x 4	3 1/4	1 1/4	3
437-528	6 x 2	4	2 11/16	3 1/2
437-529*	6 x 2½	4 7/16	2 7/16	3 1/2
437-530	6 x 3	4 1/16	2 1/16	3 1/2
437-532	6 x 4	4	2	3 1/2
437-534	6 x 5	3 13/16	13/16	3 1/2
437-582	8 x 4	5 1/4	3 1/4	4 1/2
437-585	8 x 6	5 1/4	1 3/4	4 1/2
437-623	10 x 3	6 3/8	4 3/8	5 1/16
437-624	10 x 4	6 3/8	4 1/3	5 1/16
437-626	10 x 6	5 7/16	2 7/16	5 1/16
437-628	10 x 8	5 7/16	1 3/8	5 1/16
437-661	12 x 3	7 3/8	5 3/8	6 1/16
437-664	12 x 4	7 5/8	5 5/8	6 1/16
437-666	12 x 6	7 11/16	4 1/8	6 1/16
437-668	12 x 8	6 7/16	2 3/8	6 1/16
437-670	12 x 10	6 1/2	1 7/16	6 1/16

Outside diameter taken across hex flats



Reducer Bushing

Part No	Size (in)	L	N	SPG
438-071	½ x ⅝	1 3/16	3/4	7/8
438-072	½ x ¼	1 3/16	1/2	7/8
438-073	½ x ⅜	1 1/4	5/8	7/8
438-098	¾ x ¼	1 1/8	1/2	13/16
438-101	¾ x ½	1 1/16	1/4	13/16
438-130	1 x ½	1 1/4	1/2	1
438-131	1 x ¾	1 1/4	9/16	1
438-166	1¼ x ½	1 9/16	1/2	1 1/4
438-167	1¼ x ¾	1 9/16	13/16	1 1/4
438-168	1¼ x 1	1 9/16	9/16	1 1/4
438-209	1½ x ½	1 9/16	7/8	1 1/4
438-210	1½ x ¾	1 9/16	7/8	1 1/4
438-211	1½ x 1	1 9/16	11/16	1 1/4
438-212	1½ x 1¼	1 5/8	1/4	1 5/16
438-247	2 x ½	1 11/16	15/16	1 7/16
438-248	2 x ¾	1 11/16	1	1 3/8
438-249	2 x 1	1 3/4	5/8	1 3/8
438-250	2 x 1¼	1 11/16	5/16	1 3/8
438-251	2 x 1½	1 11/16	3/4	1 1/3
438-288*	2½ x ¾	2 5/8	1 15/16	2

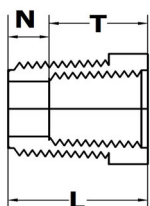


Reducer Bushing (con't)

Part No	Size (in)	L	N	SPG
438-289	2½ x 1	2 5/16	1 3/16	2
438-290	2½ x 1¼	2 1/4	15/16	2
438-291	2½ x 1½	2 5/16	1	2
438-292	2½ x 2	2 5/16	13/16	2
438-335	3 x 1	2 3/8	1 7/16	2
438-336	3 x 1¼	2 1/2	1 9/16	2 1/8
438-337	3 x 1½	2 3/8	1 1/2	2
438-338	3 x 2	2 3/8	1 3/8	2
438-339	3 x 2½	2 3/8	7/8	2
438-420	4 x 2	2 7/16	1 7/16	2
438-421	4 x 2½	2 7/16	1 1/8	2 1/16
438-422	4 x 3	2 3/8	1	2
438-490	5 x 4	3 3/8	1 5/8	3
438-528*	6 x 2	4 7/16	3 1/2	3 9/16
438-532	6 x 4	3 7/8	2 3/16	3 1/2

*Fabricated part

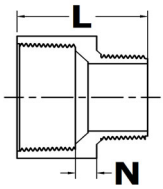
Hex outside diameter taken across hex flats



Threaded Reducer Bushing

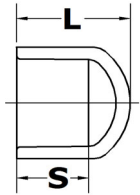
Part No	Size (in)	L	T	N
439-005	½	7/8	11/16	1/4
439-052	¾ x ¼	1 1/8	11/16	7/16
439-072	½ x ¼	1 1/8	5/8	1/2
439-073	½ x ¾	1 1/8	11/16	1/2
439-098	¾ x ¼	1 1/8	11/16	7/16
439-099	¾ x ¾	1 1/8	5/8	1/2
439-101	¾ x ½	1	3/4	1/4
439-130	1 x ½	1 1/16	3/4	5/16
439-131	1 x ¾	1 1/8	3/4	3/8
439-166	1¼ x ½	1 5/16	3/4	1/2
439-167	1¼ x ¾	1 5/16	1/2	13/16
439-168	1¼ x 1	1 5/16	1	5/16
439-209	1½ x ½	1 3/8	3/4	5/8
439-210	1½ x ¾	1 7/16	13/16	5/8
439-211	1½ x 1	1 7/16	1 1/8	5/16
439-212	1½ x 1¼	1 7/16	1	7/16
439-249	2 x 1	1 7/16	1	7/16
439-250	2 x 1¼	1 7/16	1	7/16
439-251	2 x 1½	1 1/2	1	1/2
439-292	2½ x 2	1 13/16	1 1/16	3/4
439-338	3 x 2	2 1/16	1 1/16	1

Outside diameter taken across hex flats (if applicable)



Increaser Adapter

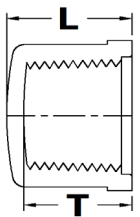
Part No	Size (in)	L	N
439-198	1½ x 2	2 5/8	5/8



Cap

Part No	Size (in)	L	S*
447-005	½	1 3/16	3/4
447-007	¾	1 5/16	13/16
447-010	1	1 3/4	1 1/8
447-012	1¼	1 3/4	1 1/4
447-015	1½	2	1 5/16
447-020	2	2 3/16	1 3/8
447-025	2 ½	3 1/16	2 1/16
447-030	3	3 3/16	2 3/16
447-040	4	3 1/2	2 1/4
447-050	5	4 7/8	3 5/16
447-060	6	5 3/8	3 3/8
447-080	8	6 11/16	4 1/2
447-100	10	8 1/2	5 9/16
447-120	12	9 5/8	6 5/8

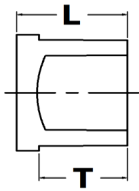
*S dimension is a measurement of two blended radii



Cap

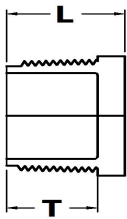
Part No	Size (in)	L	T
448-005	½	1 1/16	3/4
448-007	¾	1 1/8	13/16
448-010	1	1 1/4	1
448-012	1¼	1 1/2	1 5/16
448-015	1½	1 9/16	1 1/16
448-020	2	1 3/4	1 7/16
448-025	2 ½	2 9/16	2 1/8
448-030	3	3 1/8	2
448-040	4	3 1/4	2 3/16

Hex outside diameter measured across hex flats (if applicable)



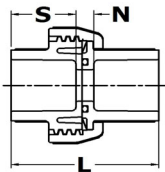
Plug			
Part No	Size (in)	L	SPG
449-003	$\frac{3}{8}$	1	$\frac{3}{4}$
449-005	$\frac{1}{2}$	1	$\frac{3}{4}$
449-007	$\frac{3}{4}$	1 $\frac{1}{16}$	$\frac{13}{16}$
449-010	1	1 $\frac{1}{4}$	1
449-012	$1\frac{1}{4}$	1 $\frac{9}{16}$	1 $\frac{1}{4}$
449-015	$1\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{5}{16}$
449-020	2	1 $\frac{11}{16}$	1 $\frac{3}{8}$
449-025	$2\frac{1}{2}$	2 $\frac{3}{8}$	2
449-030	3	2 $\frac{3}{8}$	2
449-040	4	2 $\frac{3}{8}$	2

Hex outside diameter measured across hex flats (if applicable)

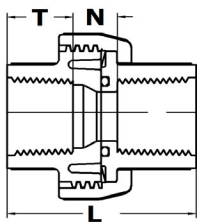


Plug			
Part No	Size (in)	L	T
450-005	$\frac{1}{2}$	1	$\frac{3}{4}$
450-007	$\frac{3}{4}$	1 $\frac{1}{16}$	$\frac{3}{4}$
450-010	1	1 $\frac{1}{8}$	$\frac{13}{16}$
450-012*	$1\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{13}{16}$
450-015	$1\frac{1}{2}$	1 $\frac{3}{8}$	1
450-020	2	1 $\frac{3}{8}$	1 $\frac{1}{16}$
450-025	$2\frac{1}{2}$	1 $\frac{15}{16}$	1 $\frac{9}{16}$
450-030	3	2	1 $\frac{11}{16}$
450-040	4	2 $\frac{1}{8}$	1 $\frac{3}{4}$

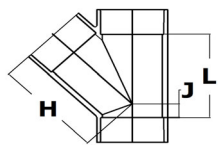
Hex outside diameter measured across hex flats



Union (O-Ring Type)				
Part No	Size (in)	L	N	S
457-005	$\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{4}$
457-007	$\frac{3}{4}$	1 $\frac{7}{8}$	$\frac{1}{4}$	$\frac{13}{16}$
457-010	1	2 $\frac{3}{8}$	$\frac{1}{4}$	1 $\frac{1}{16}$
457-012	$1\frac{1}{4}$	2 $\frac{13}{16}$	$\frac{3}{8}$	1 $\frac{1}{4}$
457-015	$1\frac{1}{2}$	3	$\frac{3}{8}$	1 $\frac{5}{16}$
457-020	2	3 $\frac{1}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$
457-030	3	4 $\frac{3}{8}$	$\frac{7}{16}$	2

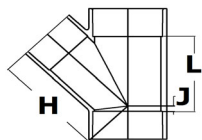


Union (O-Ring Type)				
Part No	Size (in)	L	N	T
458-005	$\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{4}$
458-007	$\frac{3}{4}$	1 $\frac{7}{8}$	$\frac{1}{4}$	$\frac{13}{16}$
458-010	1	2 $\frac{7}{16}$	$\frac{5}{16}$	1 $\frac{1}{16}$
458-012	$1\frac{1}{4}$	2 $\frac{13}{16}$	$\frac{5}{8}$	1 $\frac{1}{8}$
458-015	$1\frac{1}{2}$	3	$\frac{13}{16}$	1 $\frac{1}{16}$
458-020	2	3 $\frac{1}{8}$	$\frac{13}{16}$	1 $\frac{3}{16}$
458-030	3	4	1 $\frac{1}{8}$	1 $\frac{7}{16}$
458-040	4	4 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$



WYE

Part No	Size (in)	L	J	H
475-015	1½	3 1/16	1/2	3 7/8
475-020	2	3 25/32	19/32	4 9/16
475-030	3	5 23/32	31/32	6 21/32
475-040	4	6 3/4	1 1/8	5 7/8
475-060	6	9 15/32	31/32	11 3/32
475-080	8	13 11/32	2 1/16	15 1/4



Reducing WYE

Part No	Size (in)	L	J	H
475-209	1½ X ½	3 1/16	1/2	3 7/16
475-210	1½ X ¾	3 1/16	1/2	3 13/32
475-211	1½ x 1	3 1/16	1/2	3 7/32
475-212	1½ x 1¼	3 1/16	1/2	2 15/16
475-247	2 x 1/2	3 25/32	19/32	4 1/32
475-248	2 x ¾	3 25/32	19/32	4 3/32
475-249	2 x 1	3 25/32	19/32	3 7/8
475-250	2 x 1¼	3 25/32	19/32	3 5/8
475-251	2 x 1½	3 25/32	19/32	3 9/16
475-334	3 x ¾	5 3/8	¾	6 3/32
475-335	3 x 1	5 3/8	¾	5 27/32
475-336	3 x 1¼	5 3/8	¾	5 11/16
475-337	3 x 1½	5 3/8	¾	5 19/32
475-338	3 x 2	5 3/8	¾	5 17/32
475-339	3 x 2½	5 3/8	¾	4 29/32
475-420	4 x 2	6 ¾	1 1/8	6 29/32
475-421	4 x 2½	6 ¾	1 1/8	6 7/16
475-422	4 x 4 x 3	6 ¾	¾	5 7/16
475-528	6 x 2	9 17/32	1 13/32	10 9/32
475-529	6 x 2½	9 17/32	1 13/32	10 1/32
475-530	6 x 3	9 17/32	1 13/32	9 21/32
475-532	6X4	6 23/32	0	7 1/16
475-582	8X4	8	¾	9 17/32

150 psi working pressure

