

forged steel socket welding

pressure ratings, psi (non-shock)

schedule	40	80	160	XXH
cold water, oil, gas, air	2000	3000	4000	6000
900°F steam, hot oil, vapor	615	925	1235	1855

dimensions (inches)

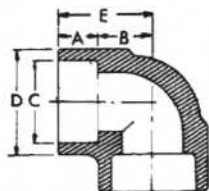
size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
------	-----	-----	-----	-----	-----	---	-------	-------	---	-------	---	---

schedule 40 (3000 lb)

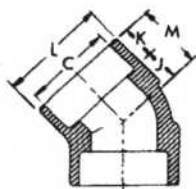
A	3/8	3/8	3/8	1/2	3/4	3/4	1 1/4	3/4	3/8	1 3/8	1 1/8	1 1/8
B	3/8	3/8	1/2	3/8	3/4	3/8	1 1/4	1 1/4	1 1/2	1 3/8	2 1/4	2 3/8
C	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
D	3/8	3/8	1	1 1/8	1 1/2	1 3/8	2 3/8	2 1/8	2 3/8	3 3/8	4 3/8	5 3/4
E	1 3/8	1 3/8	3 1/2	1 1/8	1 3/8	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/8
F	7/8	7/8	1	1 1/8	1 1/2	1 3/8	2 3/8	2 1/8	2 3/8	4	4 3/8	5 3/4
G	1 3/8	1 3/8	3 1/2	1 1/8	1 3/8	1 1/2	1 3/4	2	2 3/8	3 3/4	3 3/8	4 3/8
H	3/8	3/8	3/8	1/2	3/8	3/8	1 1/4	3/4	3/8	1 3/8	1 1/8	1 1/8
J	5/8	5/8	5/8	7/8	1 1/2	3/4	1 3/8	1 3/8	1	1 1/8	1 1/4	1 3/8
K	3/8	3/8	3/8	7/8	1 1/2	3/4	3/8	3/8	1 1/8	1 3/8	1 1/4	1 1/2
L	3/8	3/8	1	1 1/8	1 1/2	1 3/8	2 3/8	2 1/8	2 3/8	4	4 3/8	5 3/4
M	1 1/8	1 1/8	3/4	3/8	1	1 1/8	1 3/8	1 3/8	1 1/8	2 1/8	2 1/2	3 3/8
N	3/8	3/8	3/8	1/2	3/8	3/8	1 1/4	3/4	3/8	7/8	1	1 1/8
P	3/4	3/8	1	1 1/4	1 1/2	1 3/4	2 1/4	2 1/2	3	3 3/8	4 1/4	5 1/2
Q	1	1	1 1/8	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2	2 1/2	2 3/4	3
R	1 1/8	1 1/8	3/4	3/8	1	1 1/8	1 3/8	1 1/4	1 1/2	1 1/2	1 3/4	1 3/8
S	1/4	1/4	1/4	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4

schedule 80 (3000 lb)

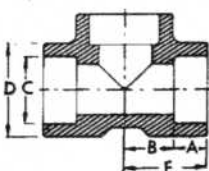
A	3/8	3/8	3/8	1/2	3/4	3/4	1 1/4	3/4	3/8	1 3/8	1 1/8	1 1/8
B	3/8	3/8	1/2	3/8	3/4	3/8	1 1/4	1 1/4	1 1/2	1 3/8	2 1/4	2 3/8
C	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
D	3/8	3/8	1	1 1/8	1 1/2	1 3/8	2 3/8	2 1/8	2 3/8	3 3/8	4 3/8	5 3/4
E	1 3/8	1 3/8	3 1/2	1 1/8	1 3/8	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/8
F	7/8	7/8	1	1 1/8	1 1/2	1 3/8	2 3/8	2 1/8	2 3/8	4	4 3/8	5 3/4
G	1 3/8	1 3/8	3 1/2	1 1/8	1 3/8	1 1/2	1 3/4	2	2 3/8	3 3/4	3 3/8	4 3/8
H	3/8	3/8	3/8	1/2	3/8	3/8	1 1/4	3/4	3/8	1 3/8	1 1/8	1 1/8
J	5/8	5/8	5/8	7/8	1 1/2	3/4	1 3/8	1 3/8	1	1 1/8	1 1/4	1 3/8
K	3/8	3/8	3/8	7/8	1 1/2	3/4	3/8	3/8	1 1/8	1 3/8	1 1/4	1 1/2
L	3/8	3/8	1	1 1/8	1 1/2	1 3/8	2 3/8	2 1/8	2 3/8	4	4 3/8	5 3/4
M	1 1/8	1 1/8	3/4	3/8	1	1 1/8	1 3/8	1 3/8	1 1/8	2 1/8	2 1/2	3 3/8
N	3/8	3/8	3/8	1/2	3/8	3/8	1 1/4	3/4	3/8	7/8	1	1 1/8
P	3/4	3/8	1	1 1/4	1 1/2	1 3/4	2 1/4	2 1/2	3	3 3/8	4 1/4	5 1/2
Q	1	1	1 1/8	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2	2 1/2	2 3/4	3
R	1 1/8	1 1/8	3/4	3/8	1	1 1/8	1 3/8	1 1/4	1 1/2	1 1/2	1 3/4	1 3/8
S	1/4	1/4	1/4	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4



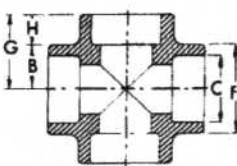
90° elbow



45° elbow



tee



cross

weights (lb each)

size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
------	-----	-----	-----	-----	-----	---	-------	-------	---	-------	---	---

schedule 40 (3000 lb)

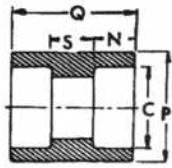
90° elbow	0.16	0.16	0.23	0.48	0.67	1.03	1.48	1.99	3.00	6.09	9.69	23.10
45° elbow	0.11	0.11	0.19	0.41	0.55	0.84	1.34	1.56	2.50	7.41	10.38	19.69
tee	0.23	0.18	0.31	0.68	0.85	1.34	2.05	2.73	4.21	8.16	12.00	29.60
cross	0.47	0.40	0.32	0.80	0.99	1.67	2.40	3.20	5.18	13.10	19.90	33.20
coupling	0.09	0.11	0.14	0.28	0.41	0.58	1.04	1.25	2.03	3.01	3.97	7.10
half coupling	0.09	0.11	0.14	0.28	0.41	0.58	1.04	1.25	2.03	3.01	3.97	7.10
reducer	0.09	0.11	0.14	0.28	0.41	0.58	1.04	1.25	2.03	3.01	3.97	7.10
cap	0.07	0.09	0.12	0.22	0.36	0.48	0.91	1.12	1.88	2.74	4.27	7.40

schedule 80 (3000 lb)

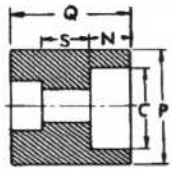
90° elbow	0.20	0.16	0.25	0.48	0.68	1.00	1.59	2.13	3.78	6.74	10.94	24.13
45° elbow	0.15	0.13	0.20	0.43	0.58	0.89	1.40	1.70	2.69	7.88	11.25	20.75
tee	0.24	0.19	0.33	0.71	0.87	1.44	2.19	2.98	4.57	8.60	13.00	31.30
cross	0.49	0.45	0.34	0.83	1.03	1.68	2.56	3.46	5.60	13.70	21.10	35.00
coupling	0.09	0.11	0.16	0.29	0.42	0.59	1.07	1.30	2.13	3.14	4.14	7.30
half coupling	0.09	0.11	0.16	0.29	0.42	0.59	1.07	1.30	2.13	3.14	4.14	7.30
reducer	0.09	0.11	0.16	0.29	0.42	0.59	1.07	1.30	2.13	3.14	4.14	7.30
cap	0.07	0.09	0.12	0.22	0.36	0.48	0.91	1.12	1.88	2.74	4.27	7.40

forged steel socket welding

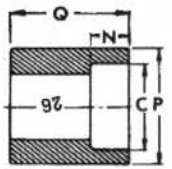
dimensions (inches)



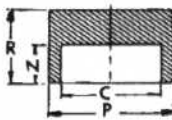
coupling



reducer



half coupling



cap

weights (lb each)

size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
schedule 160 (6000 lb)									
A	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 3/4	1 7/8
B	3/4	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 3/8
C	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
D	1 1/2	1 3/4	2 1/8	2 1/4	2 3/8	3 1/4	4	4 3/4	5 1/4
E	1 3/8	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/8
F	1 1/2	1 3/4	2 1/8	2 1/4	2 3/8	3 1/4	4	4 3/8	5 1/4
G	1 3/8	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/8	4 1/8
H	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 7/8
J	1/2	3/4	1 1/8	1 1/4	1	1 1/8	1 1/4	1 3/8	1 7/8
K	1/2	3/8	5/8	3/4	1 1/8	1 1/4	1 3/8	1 1/2	1 7/8
L	1 1/2	1 3/8	2 1/8	2 1/4	2 3/8	3 1/4	4	4 3/8	5 1/4
M	1	1 1/8	1 3/8	1 3/4	1 11/16	1 3/4	2 1/8	2 1/2	3 1/8
N	1/2	3/8	5/8	1 1/8	3/4	7/8	1	1 1/8	1 1/2
P	1 1/2	1 3/4	2 1/4	2 1/2	3	3 3/8	4 1/4	4 3/4	6 1/4
Q	1 3/8	1 1/2	1 3/4	1 3/8	2	2 1/2	2 1/2	2 3/4	3
R	1	1 1/8	1 1/4	1 3/8	1 3/8	1 3/8	1 3/4	1 3/8	2 1/8
S	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4

double extra heavy (6000 lb)

A	1 1/8	3/4	7/8	1 1/8	1 1/8	1	1 1/2	1 5/8	1 3/4
B	3/8	3/4	7/8	1 1/8	1 1/4	1 1/2	1 3/4	2 1/8	2 3/8
C	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
D	1 1/2	1 3/4	2 1/8	2 1/4	2 3/8	3 1/4	4	4 3/4	5 1/4
E	1 3/8	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/8
F	1 1/2	1 3/4	2 1/8	2 1/4	2 3/8	3 1/4	4	4 3/8	5 1/4
G	1 3/8	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/8	4 1/8
H	1 1/8	3/4	7/8	1 1/8	1 1/8	1	1 1/2	1 1/4	1 3/8
J	3/8	3/4	1 1/2	5/8	1 1/8	7/8	1	1 1/4	1 3/8
K	5/8	1 1/8	1 3/8	3/4	1 3/8	1 1/4	1 1/8	1 1/4	1 1/2
L	1 1/2	1 3/8	2 1/8	2 1/4	2 3/8	3 1/4	4	4 3/8	5 1/4
M	1	1 1/8	1 3/8	1 3/8	1 11/16	1 3/4	2 1/8	2 1/2	3 1/8
N	1/2	3/8	5/8	1 1/8	3/4	7/8	1	1 1/8	1 1/2
P	1 1/2	1 3/4	2 1/4	2 1/2	3	3 3/8	4 1/4	5	6 1/4
Q	1 3/8	1 1/2	1 3/4	1 3/8	2	2 1/2	2 1/2	2 3/4	3
R	1	1 1/8	1 1/4	1 3/8	1 3/8	1 3/8	1 3/4	1 3/8	2 1/8
S	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4

size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
schedule 160 (6000 lb)									
90° elbow	0.88	1.37	2.25	2.91	5.22	6.00	11.81	18.58	28.80
45° elbow	0.68	1.14	2.03	2.25	4.22	5.03	8.88	12.76	23.45
tee	1.16	1.94	3.17	3.95	7.13	7.72	15.30	23.10	34.90
cross	1.38	2.29	3.75	4.65	8.70	9.30	18.10	24.10	38.80
coupling	0.51	0.70	1.40	1.59	2.58	4.58	6.14	7.10	13.70
half coupling	0.51	0.70	1.40	1.59	2.58	4.58	6.14	7.10	13.70
reducer	0.51	0.70	1.40	1.59	2.58	4.58	6.14	7.10	13.70
cap	0.42	0.58	1.16	1.40	2.14	3.62	4.90	7.60	13.30

double extra heavy (6000 lb)

90° elbow	0.88	1.38	2.63	3.00	5.31	6.00	10.47	18.84	31.54
45° elbow	0.66	1.26	1.95	2.45	4.44	4.73	8.83	13.28	24.62
tee	1.18	1.95	3.17	4.07	7.21	7.94	15.30	23.40	37.30
cross	1.52	2.31	3.75	4.73	8.74	9.50	17.90	24.10	41.50
coupling	0.52	0.72	1.43	1.65	2.64	4.68	6.30	8.85	14.00
half coupling	0.52	0.72	1.43	1.65	2.64	4.68	6.30	8.85	14.00
reducer	0.52	0.72	1.43	1.65	2.64	4.68	6.30	8.85	14.00
cap	0.42	0.58	1.16	1.40	2.14	3.62	4.90	7.60	13.30