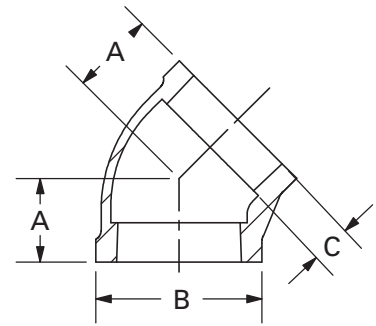


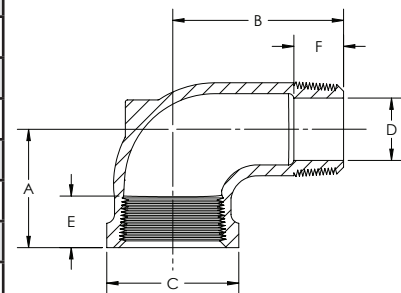
MALLEABLE IRON 45° ELL CLASS 150

NPS	Center to End A	Outside Dia. of Band B	Length of Threads C (min)	Take Out
1/8	0.73	0.69	0.25	0.46
1/4	0.73	0.84	0.32	0.32
3/8	0.80	1.01	0.36	0.39
1/2	0.88	1.20	0.43	0.34
3/4	0.98	1.46	0.50	0.43
1	1.12	1.77	0.58	0.43
1 1/4	1.29	2.15	0.67	0.58
1 1/2	1.43	2.43	0.70	0.70
2	1.68	2.96	0.75	0.92
2 1/2	1.95	3.59	0.92	0.81
3	2.17	4.28	0.98	0.97
4	2.61	5.40	1.08	1.31
5	—	—	—	—
6	—	—	—	—



MALLEABLE IRON 90° STREET ELL CLASS 150

NPS	Center to End A	Center to Male B	Outside Dia. of Band C (min)	Port Dia. Male End D (max)	Length of Internal Threads E (min)	Length of External Threads F (min)	Take Out Male End	Take-Out Female End
1/8	0.69	1.00	0.69	0.20	0.25	0.26	0.73	0.42
1/4	0.81	1.19	0.84	0.26	0.32	0.40	0.78	0.40
3/8	0.95	1.44	1.01	0.37	0.36	0.41	1.03	0.54
1/2	1.12	1.63	1.20	0.51	0.43	0.53	1.09	0.58
1/2 x 3/8	—	—	—	—	—	—	—	—
3/4	1.31	1.89	1.46	0.69	0.50	0.55	1.34	0.76
*3/4 x 1/2	1.31	1.76	1.46	0.51	0.50	0.53	1.21	0.77
1	1.50	2.14	1.77	0.91	0.58	0.68	1.45	0.81
1 x 3/4	—	—	—	—	—	—	—	—
1 1/4	1.75	2.45	2.15	1.19	0.67	0.71	1.74	1.04
*1 1/4 x 1	1.75	2.29	2.15	0.91	0.67	0.68	1.58	1.06
1 1/4 x 3/4	—	—	—	—	—	—	—	0.54
1 1/2	1.94	2.69	2.43	1.39	0.70	0.72	1.96	1.21
*1 1/2 x 1 1/4	1.81	2.62	2.43	1.19	0.70	0.72	1.90	1.10
*1 1/2 x 1	1.94	2.54	2.43	0.91	0.70	0.68	1.81	1.25
2	2.25	3.26	2.96	1.79	0.75	0.76	2.50	1.49
2 x 1 1/2	—	—	—	—	—	—	—	—
2 1/2	2.70	3.86	3.59	2.20	0.92	1.14	2.72	1.56
3	3.08	4.51	4.28	2.78	0.98	1.20	3.31	1.88
4	—	—	—	—	—	—	—	—



* Manufactured to WARD specifications