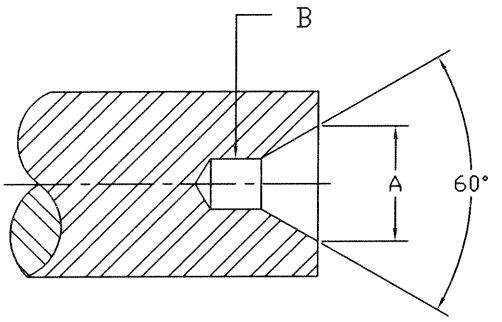
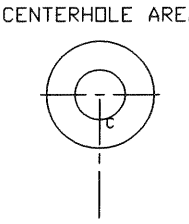
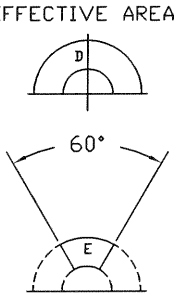
CENTER HOLE SPECIFICATIONS



END VIEW





CALCULATED DATA

WEIGHT OF WORKPIECE	A IN	B IN	C IN^2	D IN^2	E IN^2	F LB/IN^2	G LB/IN^2
1 LB	5/32	3/32	.024	.012	.004	72	25
10 LB	1/4	1/8	.072	.036	.012	239	100
50 LB	5/16	3/16	.096	.048	.016	899	324
100 LB	3/8	3/16	.165	.083	.027	1066	451
500 LB	5/8	5/16	.456	.228	.075	1919	814
1/2 TON	3/4	3/8	.596	.298	.099	2908	1130
1 TON	1	1/2	1.17	.508	.194	2968	1270
5 TON	1 3/8	3/4	2.07	1.03	.343	8395	3363
10 TON	1 3/4	1	3.23	1.61	.536	10,770	4157
15 TON	2	1	4.70	2.35	.783	11,033	4773
20 TON	2 1/4	1 1/8	6.03	3.01	1.00	11,520	5028
25 TON	2 1/2	1 1/4	7.36	3.68	1.23	11,206	5092
30 TON	2 3/4	1 3/8	8.88	4.44	1.47	11,755	5049
40 TON	3 1/8	1 1/2	11.8	5.90	1.96	11,755	5214
60 TON	3 3/4	1 3/4	17.3	8.65	2.88	11,980	5431
100 TON	4 3/4	2 1/4	27.5	13.75	4.58	12,576	5642
200 TON	7	3 1/2	57.66	28.83	9.61	11,985	5196

A=CENTERHOLE DIAMETER

B=PILOTHOLE DIAMETER

C=CENTERHOLE AREA

D=EFFECTIVE CENTERHOLE AREA

E=AREA OF CONCENTRATED LOAD

F=STRESS ON "E"

G=SHEAR STRESS ON CENTERPOINT AT "A"