

ESTIMATED PRESSURE IN RELATION TO MASTER CYLINDER BORE DIAMETER and brake pedal ratio for 100 pound pedal effort.

(100 x ratio / sq. inch of bore)

Bore Dia. (Inch)	Area (Sq. In.)	5 /1 Ratio	5.25/1 Ratio	5.5/1 Ratio	5.75/1 Ratio	6/1 Ratio	6.25/1 Ratio	6.5/1 Ratio	6.75/1 Ratio	7/1 Ratio	10/1 Ratio
1/2	0.20	2500 PSI	2625 PSI	2750 PSI	2875 PSI	3000 PSI	3125 PSI	3250 PSI	3375 PSI	3500 PSI	5000 PSI
5/8	0.31	1613 PSI	1694 PSI	1774 PSI	1855 PSI	1935 PSI	2016 PSI	2097 PSI	2177 PSI	2258 PSI	3226 PSI
0.70	0.38	1316 PSI	1382 PSI	1447 PSI	1513 PSI	1579 PSI	1645 PSI	1711 PSI	1776 PSI	1842 PSI	2632 PSI
3/4	0.44	1136 PSI	1193 PSI	1250 PSI	1307 PSI	1364 PSI	1420 PSI	1477 PSI	1534 PSI	1590 PSI	2273 PSI
13/16	0.52	961 PSI	1010 PSI	1058 PSI	1106 PSI	1153 PSI	1202 PSI	1250 PSI	1298 PSI	1346 PSI	1923 PSI
7/8	0.60	833 PSI	875 PSI	917 PSI	958 PSI	1000 PSI	1041 PSI	1083 PSI	1125 PSI	1167 PSI	1667 PSI
15/16	0.69	725 PSI	761 PSI	797 PSI	833 PSI	869 PSI	906 PSI	942 PSI	978 PSI	1014 PSI	1449 PSI
1	0.79	633 PSI	665 PSI	696 PSI	728 PSI	759 PSI	791 PSI	823 PSI	854 PSI	886 PSI	1266 PSI
1 1/16	0.89	562 PSI	590 PSI	618 PSI	646 PSI	674 PSI	702 PSI	730 PSI	758 PSI	787 PSI	1124 PSI
1 1/8	0.99	505 PSI	530 PSI	556 PSI	581 PSI	606 PSI	631 PSI	657 PSI	682 PSI	707 PSI	1010 PSI

*Resulting line pressures shown are for all master cylinders, non-balance bar systems

CALIPER PISTON AREA:

A caliper's piston area is calculated by finding the total piston area from one side of the caliper (this is true for a single piston caliper also). The graph provides the piston area for individual piston diameters. Note that differential piston bore calipers will be the total piston area of the different size pistons.

