

FRONT MASTER TO CALIPER PISTON RATIO CHART

A number of factors are involved in determining the correct ratio. Wheel diameter, disc diameter, pad compound and what kind of "feel" at the lever you want. Keep these in mind when deciding on a ratio that will work for you. Single piston calipers work best in the 12:1-14:1 range while opposed piston calipers work best in the 23:1-27:1 range. Remember, the lower the ratio(numerically), the firmer the "feel" will be.

DIAMETER	MASTER CYL.	10MM	11MM	12MM	1/2"	13MM	14MM	15MM	5/8"	16MM	11/16"	19MM
PISTON	AREA=SQ.MM	78.5	95.0	113.1	126.7	132.7	153.9	176.7	197.9	201.1	240.5	283.5
28MM	615.8	7.84	6.48	5.44	4.86	4.64	4.00	3.48	3.11	3.06	2.57	2.17
28MMx2	1231.5	15.68	12.96	10.89	9.72	9.28	8.00	6.97	6.22	6.13	5.14	4.34
28MMx4	1463.0	31.36	25.92	21.78	19.44	18.56	16.00	13.94	12.44	12.25	10.28	8.69
30MM	706.9	9.00	7.44	6.25	5.58	5.33	4.59	4.00	3.57	3.52	2.95	2.49
30MMx2	1413.7	18.00	14.88	12.50	11.16	10.65	9.18	8.00	7.14	7.03	5.90	4.99
30MMx4	2827.4	36.00	29.75	25.00	22.32	21.30	18.37	16.00	14.28	14.06	11.81	9.97
32MM	804.3	10.24	8.46	7.11	6.35	6.06	5.22	4.55	4.06	4.00	3.36	2.84
32MMx2	1608.5	20.48	16.93	14.22	12.70	12.12	10.45	9.10	8.13	8.00	6.72	5.67
32MMx4	3217.0	40.96	33.85	28.44	25.39	24.24	20.90	18.20	16.25	16.00	13.43	11.35
35MM	962.1	12.25	10.12	8.51	7.59	7.25	6.25	5.44	4.86	4.79	4.02	3.39
35MMx2	1924.2	24.50	20.25	17.01	15.19	14.50	12.50	10.89	9.72	9.57	8.03	6.79
38MM	1134.1	14.44	11.93	10.03	8.95	8.54	7.37	6.42	5.73	5.64	4.74	4.00
38MMx2	2268.2	28.88	23.87	20.06	17.91	17.09	14.73	12.84	11.46	11.28	9.47	8.00
38MMx4	4536.5	57.76	47.74	40.11	35.81	34.18	29.47	25.67	22.92	22.56	18.94	16.00
41MM	1320.3	16.81	13.89	11.67	10.42	9.95	8.58	7.47	6.67	6.57	5.51	4.66
41MMx2	2640.5	33.62	27.79	23.35	20.84	19.89	17.15	14.94	13.34	13.13	11.03	9.31
41MMx4	5281.0	67.24	55.57	46.69	41.69	39.79	34.31	29.88	26.68	26.27	22.05	18.63
44MMx2	3041.1	38.72	32.00	26.89	24.01	22.91	19.76	17.21	15.36	15.13	12.70	10.73
48MM	1809.6	23.04	19.04	16.00	14.28	13.63	11.76	10.24	9.14	9.00	7.56	6.38
48MMx2	3619.1	46.08	38.08	32.00	28.57	27.27	23.51	20.48	18.28	18.00	15.11	12.76
48MMx4	7236.3	92.16	76.17	64.00	57.14	54.53	47.02	40.96	36.57	36.00	30.22	25.53
50MM	1963.5	25.00	20.66	17.36	15.50	14.79	12.76	11.11	9.92	9.77	8.20	6.93
50MMx2	3927.0	50.00	41.32	34.72	31.00	29.59	25.51	22.22	19.84	19.53	16.40	13.85
50MMx4	7854.0	100.0	82.64	69.44	62.00	59.17	51.02	44.44	39.68	39.06	32.79	27.70