

## Honda CBR600

### Flow bench data: standard bike

Valve lift (mm)	Casing Temp. C°		1st casing pressure Inch H2O	2nd casing pressure mm H2O	Measured flow CFM	10 Inch Converted flow	Flow speed m/sec	Theoretical maximum power	Conduct average speed m/sec	Outflow coefficient
	1°	2°								
1	17.2	20.2	20	52	13.1	9.263	0	3.983	3.762	5.931
2	17.0	21.7	20.5	113	27.7	19.34	0	8.319	7.857	0.123
3	17.2	22.4	20.2	120	43.3	30.46	0	13.10	12.37	0.195
4	17.1	22.7	20.5	101	60.1	41.97	0	18.04	17.04	0.268
5	17.0	22.9	20.4	145	72.0	50.41	0	21.67	20.47	0.322
6	17.1	22.5	20.2	104	86	60.50	0	26.01	24.57	0.387
7	17.0	22.5	20.1	126	94.7	66.79	0	28.72	27.12	0.427
8	16.9	22.6	20.2	139	99.4	69.93	0	30.07	28.40	0.447
9	16.9	22.7	20.2	146	101.9	71.69	0	30.82	29.11	0.459

### Flow bench data: prepared bike, valve seat, conduct profile and valves

Valve lift (mm)	Casing Temp. C°		1st casing pressure Inch H2O	2nd casing pressure mm H2O	Measured flow CFM	10 Inch Converted flow	Flow speed m/sec	Theoretical maximum power	Conduct average speed m/sec	Outflow coefficient
	1°	2°								
1	15.3	15.2	20.4	79	16.2	11.34	0	4.877	4.782	7.534
2	15.6	15.5	20.1	83	36.4	25.67	0	11.04	10.82	0.170
3	15.4	16.1	20.3	78	53.3	37.40	0	16.08	15.77	0.248
4	15.4	16.5	20	126	67.7	47.87	0	20.58	20.18	0.317
5	15.5	16.6	20.2	99	84.6	59.52	0	25.59	25.09	0.395
6	15.4	16.9	20.2	123	94.2	66.27	0	28.49	27.94	0.440
7	15.4	17.2	20	146	102.6	72.54	0	31.19	30.59	0.481
8	15.2	16.9	20.2	74	117.2	82.46	0	35.45	34.76	0.547
9	15.4	17.2	20	80	121.8	86.12	0	37.03	36.31	0.572
10	15.3	17.7	20.1	84	124.7	87.95	0	37.82	37.08	0.584