

MV Agusta F4

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	10.2	9.2	20.2	89	17.2	12.10	0	5.203	4.560	7.164
2	9.9	9.6	20.6	92	38.3	26.68	0	11.47	10.05	0.157
3	9.6	10.1	20.6	84	55.3	38.52	0	16.56	14.52	0.228
4	9.4	10.9	20.3	129	68.4	48.00	18.6	20.64	18.09	0.284
5	9.4	11.2	20.2	96	83.2	58.53	28.5	25.17	22.06	0.346
6	9.3	11.6	20.5	127	95.6	66.76	37.2	28.71	25.16	0.395
7	9.2	11.8	20.2	151	104.2	73.31	42.6	31.52	27.63	0.434
8	9.1	11.6	20.2	75	117.8	82.88	46.4	35.64	31.23	0.490
9	9.1	11.6	20.8	84	124.7	86.46	51.1	37.17	32.58	0.511
10	9.1	11.8	20.1	85	125.4	88.45	51.2	38.03	33.33	0.523

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

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	1°	2°								
1	12	12	20.6	122	20.1	14.00	0	6.021	5.315	8.349
2	12	12.7	20.6	121	43.8	30.51	0	13.12	11.58	0.181
3	11.2	13.8	20.6	111	63.4	44.17	0	18.99	16.76	0.263
4	11.2	14.8	20.6	96	82.9	57.75	0	24.83	21.92	0.344
5	11.2	15	20.3	130	96.5	67.72	0	29.12	25.70	0.403
6	11	14.8	20.3	73	116	81.41	0	35.00	30.90	0.485
7	11	115.5	20.4	86	125.7	88.00	0	37.84	33.40	0.524
8	11	15.8	20.4	97	133.4	93.39	0	40.16	35.45	0.556
9	11	15.8	20.4	104	138.2	96.75	0	41.60	36.72	0.576
10	11	15.8	20.6	111	142.8	99.49	0	42.78	37.76	0.593
11	11	15.8	20.3	115	145.3	101.9	0	43.85	38.71	0.607