

Engine Specifications

Stock Engine Specs

	VQ35DE	F20C	F355	RB26DETT	LS6	2JZ-GTE	3S-GTE	SR20DET	F1 (*)
Bore (mm)	95.5	87.0	85.0	86.0	99	86.0	86.0	86.0	94.0
Stroke (mm)	81.4	84.0	77.0	73.7	92	86.0	86.0	86.0	43.2
Rod Length (mm)	144.0	153.0	137.0	121.5	154.9	142.0	138.0	136.3	121.5
Cylinders	6	4	8	6	8	6	4	4	10
Fuel Cutoff RPM	6600	9000	8500	8500	6600	8000	8000	8000	19000
Displacement (L)	3.50	2.00	3.50	2.57	5.67	3.00	2.00	2.00	2.998
Rod/Stroke Ratio	1.77	1.82	1.78	1.65	1.68	1.65	1.60	1.58	2.81
Bore/Stroke Ratio	1.17	1.04	1.10	1.17	1.08	1.00	1.00	1.00	2.18
Mean Piston Vel (FPM)	3525	4961	4295	4111	3984	4514	4514	4514	5386
Mean Piston Vel (m/s)	17.91	25.20	21.82	20.88	20.24	22.93	22.93	22.93	27.36
Max Piston Vel (FPM)	5759	8087	7013	6755	6535	7417	7436	7445	8595
Max Piston Vel (m/s)	29.26	41.08	35.63	34.31	33.20	37.68	37.78	37.82	43.66
Max Piston Acc. (G)	2544	4851	3987	3882	2908	4011	4038	4050	10275

VQ35DE Variations

	Factory	8K Redline	100mm Bore	AEBS 4.3L	4.3L, 8K
Bore (mm)	95.5	95.5	100.0	100.0	100.0
Stroke (mm)	81.4	81.4	81.4	89.9	89.9
Rod Length (mm)	144.0	144.0	144.0	144.0	144.0
Cylinders	6	6	6	6	6
Fuel Cutoff RPM	6600	8000	6600	6600	8000
Displacement (L)	3.498	3.498	3.836	4.236	4.236
Rod/Stroke Ratio	1.77	1.77	1.77	1.60	1.60
Bore/Stroke Ratio	1.17	1.17	1.23	1.11	1.11
Mean Piston Vel (FPM)	3525	4273	3525	3893	4719
Mean Piston Vel (m/s)	17.91	21.71	17.91	19.78	23.97
Max Piston Vel (FPM)	5759	6981	5759	6414	7775
Max Piston Vel (m/s)	29.26	35.46	29.26	32.58	39.49
Max Piston Acc. (G)	2544	3738	2544	2875	4223

* Note: F1 engine specs are speculative, from data on an unknown, late model Ferrari F1 engine