

## Engine Specifications – 9.9/15 (305cc)

### Operation

Full Throttle Operating Range	<b>9.9 Rope</b> – 5000 to 6000 RPM <b>9.9 Electric</b> – 4000 to 5000 RPM <b>15</b> – 5000 to 6000 RPM
Power	<b>9.9</b> – 9.9 HP (7,4 kw) <b>15</b> – 15 HP (11,2 kw)
Power Rated @	<b>9.9 Rope</b> – 5500 RPM <b>9.9 Electric</b> – 4500 RPM <b>15</b> – 5500 RPM
Idle RPM in Gear	800 ± 50
Test Propeller	<b>OMC</b> P/N 340177
Minimum Test RPM	<b>9.9 Rope</b> – 4000 <b>9.9 Electric</b> – 3500 <b>15</b> – 5000
Weight	<b>10R4; 15R4</b> – 99 lbs. (45 kg) <b>10RL4; 15RL4</b> – 104 lbs. (47 kg) <b>10TEX4</b> – 119 lbs. (54 kg) <b>10EL4; 15EL4</b> – 114 lbs. (52 kg)

### Powerhead

Type	Four-Stroke, In-line 2-Cylinder, OHC
Displacement	18.61 cu. in. (305 cc)
Bore	2.56 in. (65,03 mm)
Stroke	1.81 in. (45,97 mm)
Standard Bore*	2.5590 - 2.5600 in. (65,00-65,03 mm)
Crankshaft Dimensions:	
Top Journal	1.2990 - 1.2994 in. (32,99 - 33,01 mm)
Bottom Journal	1.2990 - 1.2994 in. (32,99 - 33,01 mm)
Rod Crankpin	1.1815 - 1.1801 in. (30,01 - 29,98 mm)
Camshaft Lobe Dimensions:	
Intake	0.963 ± 0.004 in. (24,46 ± 0,10 mm)
Exhaust	0.963 ± 0.004 in. (24,46 ± 0,10 mm)
Piston Ring End Gap (Top Two Rings)	0.006 - 0.020 in. (0,15 - 0,51 mm)
Piston Ring Groove Side Clearance (Top Two Rings)	0.004 in. (0,10 mm) maximum

### Valve Tappet Clearance

Cold Engine	Intake – 0.004 in. (0,1 mm) Exhaust – 0.006 in. (0,15 mm)
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\* To bore oversize, add piston oversize dimension to standard bore.

## Engine Specifications – 8

### Operation

Full Throttle Operating Range	5000 to 6000 RPM
Power	8 HP (6,0 kw)
Power Rated @	5500 RPM
Idle RPM in Gear	1000 ± 50
Test Propeller	OMC P/N 386537
Minimum Test RPM	4800
Weight	<b>8R4</b> – 82 lbs. (37 kg) <b>8RL4</b> – 87 lbs. (39 kg)

### Powerhead

Type	Four-Stroke, In-line 2-Cylinder, OHC
Displacement	12.87 cu. in. (211 cc)
Bore	2.22 in. (56,6 mm)
Stroke	1.65 in. (42,0 mm)
Standard Bore*	2.2244 - 2.2248 in. (56,50 - 56,51 mm)
Crankshaft Dimensions:	
Top Journal	1.2200 - 1.2204 in. (30,99 - 31,00 mm)
Bottom Journal	1.2200 - 1.2204 in. (30,99 - 31,00 mm)
Rod Crankpin	1.1401 - 1.1398 in. (28,96 - 28,95 mm)
Camshaft Lobe Dimensions:	
Intake	0.954 ± 0.002 in. (24,222 ± 0,05 mm)
Exhaust	0.955 ± 0.002 in. (24,262 ± 0,05 mm)
Piston Ring End Gap (Top Two Rings)	0.006 - 0.014 in. (0,15 - 0,36 mm)
Piston Ring Groove Side Clearance (Top Two Rings)	0.004 in. (0,10 mm) maximum

### Valve Tappet Clearance

Cold Engine	Intake – 0.003 in. (0,08 mm) Exhaust – 0.005 in. (0,12 mm)
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\* To bore oversize, add piston oversize dimension to standard bore.

## Engine Specifications – 5/6

### Operation

Full Throttle Operating Range	5500 to 6500 RPM
Power	<b>5</b> – 5 HP (3,7 kw) <b>6</b> – 6 HP (4,5 kw)
Power Rated @	6000 RPM
Idle RPM in Gear	1200 ± 50
Test Propeller	<b>OMC</b> P/N 444508
Minimum Test RPM	5500
Weight	<b>5R4; 6R4</b> – 68 lbs. (31 kg) <b>5RL4; 6RL4</b> – 71.5 lbs. (33 kg)

### Powerhead

Type	Four-Stroke, In-line 1-Cylinder, OHC
Displacement	7.8 cu. in. (128cc)
Bore	2.22 in. (56,6 mm)
Stroke	2.01 in. (51,0 mm)
Standard Bore*	2.2244 - 2.2248 in. (56,50 - 56,51 mm)

#### Crankshaft Dimensions:

Top Journal	0.9837 - 0.9842 in. (24,98 - 25,00 mm)
Bottom Journal	0.9837 - 0.9842 in. (24,98 - 25,00 mm)
Rod Crankpin	1.1795 - 1.1791 in. (29,96 - 29,95 mm)

#### Camshaft Lobe Dimensions:

Intake	0.954 ± 0.002 in. (24,222 ± 0,05 mm)
Exhaust	0.955 ± 0.002 in. (24,262 ± 0,05 mm)

Piston Ring End Gap (Top Two Rings) 0.006 - 0.014 in. (0,15 - 0,36 mm)

Piston Ring Groove Side Clearance (Top Two Rings) 0.004 in. (0,10 mm) maximum

### Valve Tappet Clearance

Cold Engine	Intake – 0.003 in. (0,08 mm)
	Exhaust – 0.005 in. (0,12 mm)

\* To bore oversize, add piston oversize dimension to standard bore.