

	Pag.
1 FUNCTIONS OF THE CARBURETTOR	3
2 FEATURES	4
2.1 Carburettor diagram and principal parts	4
2.2 Operating ranges	4
2.3 Installation angles	5
2.4 Engine connections	5
2.5 Air Intakes	6
2.6 Construction materials	6
3 OPERATION, SELECTION OF CORRECT PARTS, TUNING AND USE	6
3.1 The venturi effect	6
3.1.1 Selection of the correct carburettor size	7
3.2 Fuel supply system	8
3.2.1 Selection of the needle valve size	8
3.2.2 Selection of the float	9
3.3 Starting from cold	10
3.3.1 Independent starting circuit	
3.3.2 Selection of starter emulsion tube and starter jet	
3.3.3 The flooding plunger starting device	12
3.4 Idle systems	12
3.4.1 Setting the idle with a mixture adjusting-screw	13
3.4.2 Setting the idle with an air adjusting-screw	13
3.4.3 Selection of the correct size of idle jet	14
3.5 Progression system	14
3.6 Full throttle operation	15
3.6.1 Full throttle system as usually used on two-stroke engines	15
3.6.2 Full throttle system as usually used on four-stroke engines	16
3.6.3 Selection of the throttle valve cutaway	16
3.6.4 Selection of the tapered needle	17
3.6.5 Selection of the correct size main jet	17
3.7 Acceleration mechanism	18
3.7.1 Diaphragm accelerator pump	19
3.7.2 Selection of correct pump cam and pump jet	19
3.7.3 Piston type accelerator pump	20
4 MULTY-CYLINDER ENGINES	20
4.1 Idle tuning and adjustment	21
5. FACTORS WHICH CAN ALSO AFFECT THE CARBURATION	22
5.1 Changes of fuel	22
5.2 Changes in atmospheric pressure and air temperature	22