

Carburetors for Forklifts

Carburetor for Forklift - A carburetor mixes air and fuel together for an internal combustion engine. The machine has an open pipe known as a "Penguin" or barrel, wherein the air passes into the inlet manifold of the engine. The pipe narrows in part and then widens over again. This particular format is known as a "Venturi," it causes the airflow to increase speed in the narrowest part. Below the Venturi is a butterfly valve, that is otherwise known as the throttle valve. It works in order to regulate the flow of air through the carburetor throat and controls the quantity of air/fuel mixture the system will deliver, which in turn regulates both engine speed and power. The throttle valve is a rotating disc which could be turned end-on to the airflow in order to barely restrict the flow or rotated so that it can absolutely stop the air flow.

Usually attached to the throttle through a mechanical linkage of joints and rods (at times a pneumatic link) to the accelerator pedal on a vehicle or piece of material handling machine. There are small holes located on the narrow part of the Venturi and at several areas where the pressure would be lowered when running full throttle. It is through these holes where fuel is released into the air stream. Correctly calibrated orifices, known as jets, in the fuel channel are responsible for adjusting the flow of fuel.