

HOW GAS PUMPS WORK.

Spout
Fuel travels from this tube to its final destination

Vacuum chamber
Regulates fuel pressure collected in nozzle

Vacuum tube
Helps regulate pressure in the gas nozzle to stop the flow of gas when tank is full

Nozzle trigger
Controls fuel flow

Pump
Fuel controlled storage system

During all those trips to the pump, have you ever stopped to wonder where the gas in the service station dispenser comes from or how it gets from the dispenser to your car.

The process isn't difficult to understand, but gas companies have gone to a great deal of trouble to hide the details. Pumping gas may seem like a simple matter of lifting a pump, pushing some buttons and sometimes swiping a credit card. What goes on inside the gas dispenser itself, however, is a bit more complicated than that.

Storage tank fill hatch
Fuel truck connects here to fill storage tank for use.

Storage tank fill hose
Hose that carries new fuel from truck to storage tank

Guage well
Allows inspectors to access important information about fuel being stored

Inspection hatch
Accessible location to check and regulate fuel in tank

Storage tank
Tank that sits underground away from view, and holds all the fuel for a particular pump

Vapor Hose
Vapor is pumped to storage tank with this hose

Pump Hose
Hose that connects storage tank with fuel pump

Buffer tank
Leakage detection device

