

## Filling Machine for Brake Fluid

### Working Process:

to install filling gun manually → press the start button on the front of filling device → to vacuuming for the first time → to stabilize the pressure → to vacuuming for the second time → to filling → resorption → finishing filling → take down the filling head

Filling volume	: adjustable
Volume of storage tank	: 50L
Filling pressure	: 1-6 bar, adjustable
Production noise	: ≤70dB

Filling head and the tube needed to be overhanged by balancer and be fixed on the hanging bracket. The length needs to be 15m.

The whole operation process of Vacuum-pumping, filling and leakage detecting should be finished automatically in one time.

The fuel tank can supplement fluid automatically, and it possesses alarm function when the fluid level is low, high and ultralow. There should be fluid mark on the tank.

The device should be equipped with systems that can monitor;

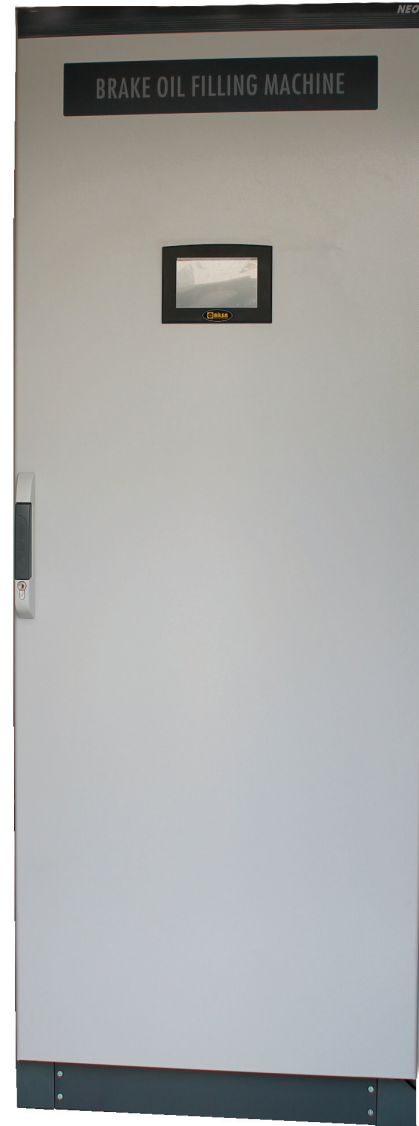
vacuum degree  
flow volume  
fluid pressure  
time

Sound-light alarm

Drip-proof vacuum suction: The filling device should keep the state of vacuum suction to avoid leakage that pollute the environment

It can program and store:

the filling volume  
vacuuming time  
hold time of vacuuming  
time-consuming of pumping back.



The device should be able to extend industrial Ethernet which can be used later to output operation data of the device.

The filling parameter for each vehicle type can be set up through human-computer interface.

All the control parameter can be revise and store as demanded.

Sound and light alarm of the system:

When Pipette finished sucking the brake fluid in barrel A, must give sound and light alarm so that the system can continue to work and replace the empty barrel.

During the process of filling, when the vacuum level reaches the set point and leakage-inspection is OK, then the filling would begin. The filling pressure is less than 4.0Kg/cm<sup>2</sup> and can be adjustable. Pumping back and fixing fluid level are adopted. Oil-gas separator is mounted in the vacuum device of transmission fluid.

# Vacuuming and Filling Machine for Steering Fluid

Working Process: Install filling gun manually → press start button → vacuuming first time → keep vacuum first time → stabilize the pressure → vacuuming second time → filling → finishing filling → removing the filling head.

Performance parameters:

Filling quantity	: adjustable
The volume of the interior storage tank	: 50L
Filling pressure	: adjustable between 1-6 bar
Production noise	: ≤70dB

The filling head and the hose should be hung by the balancer; the length of the hose need to be 15m.

The device should be able to expand to industrial Ethernet, which can be used later to send data out.

The operator can finish all the work:

Vacuuming, leakage inspection and filling through single operation

Authority and password should be set up for parameter programming, only the authorized operators can modify the parameter.

Employing no leaking working method:

The device only vacuumizes the vehicle without inspecting the leakproofness.



Filling will be conducted after vacuumizing, and this will improve the effect of force filling(fast filling)

Single step mode:

vacuuming,

keeping vacuum,

filling

pumping back can be conducted through single step.

Filter which can conduct removing impurities needs to be installed.

Adjusting Liquid level, can be realized by pumping back.