

# Flare Ignition Device

Ignition device is an environment-friendly electronic device for igniting gas discharged from DP series Mud gas separator, refinery and gas distribution station etc.

Model	YPD-20/3
Torch diameter	DN200mm
Burner height	3m
Power supply	DC and AC
AC input voltage	220V
Ignition voltage	16KV
Ignition frequency	100~1000times/minute
Battery type	JP-HSE-5-6



# Igniter Structure

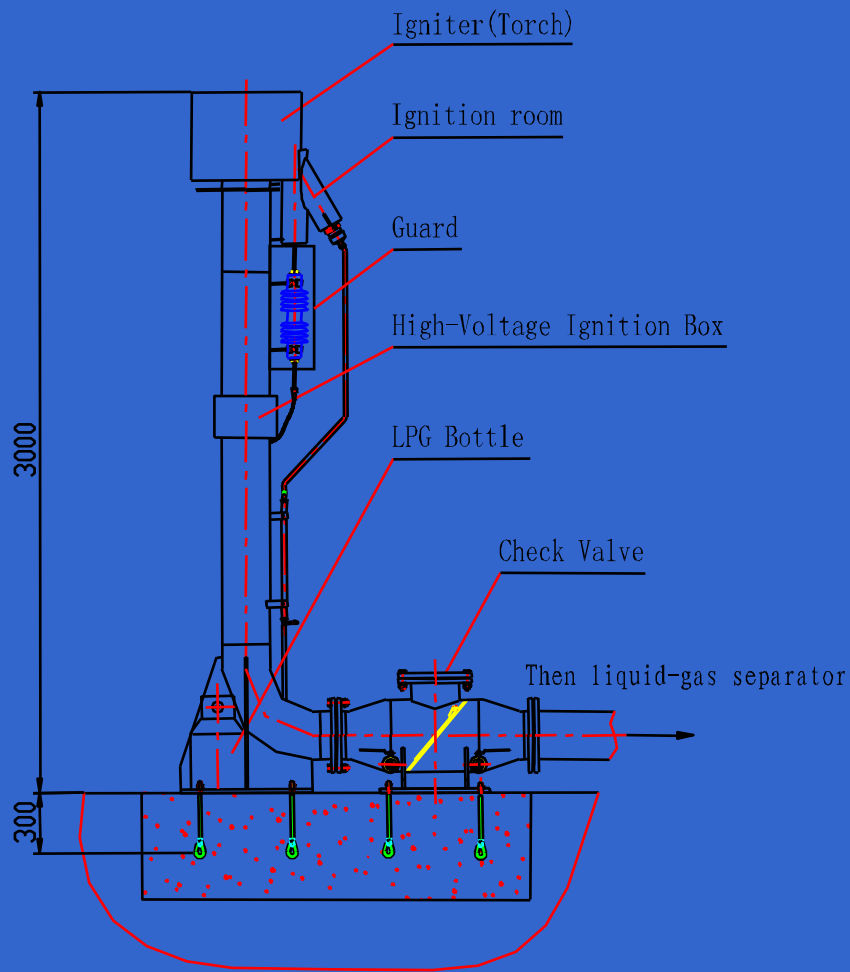


Fig 1 .YPD20/3.0 killing discharge electronic ignition diagram

# Working Procedure



1. Have the flammable gas conveyed to the air intake of gas burner (torch) through the pipeline installed at the safe area.
2. Connect and start current transformation of flare ignition device and electric circuit of voltage amplification.
3. Open the liquefied gas pot and ignite fire-leading tube through operating electronic igniter (ignition at first stage), or with the fire-leading gas valve of emptying gas directly opened, ignite fire-leading tube through electronic igniter (ignition at first stage).
4. Open gas blown down valve and ignite the blown down gas through the flaming fire-leading tube (ignition at second stage).
5. Have the liquefied gas pot closed with fire-leading tube put out, letting the blown down flammable gas to freely burning.

# Installation & Operation

## Installation

1. Electric ignition (controlling) device of type GDH-2 (hereinafter called igniter for short) should be placed at the place where it can be avoiding rain and blowing sand. The igniter is strictly prohibited bottom up.
2. The igniter and ignition arrangement should be connected with the prepared connecting wire and then, have the ignition conductor end of high voltage screwed down and placed on the discharge needle.

## II. Operation Notice

1. The outer power supply of the igniter is of 220 AC, when ignition for working, the charging switch cannot be turned on. And if not, the ignition of high voltage will be automatically cut off.
2. For using AC power supply, the power supply wire of igniter should be stably connected with the power supply of 220V/50Hz. And then, turn on the AC power supply switch with the ignition switch followed turning on for working. In working, the high-voltage conductor and discharge needle are strictly prohibited contacting.
3. If there is not any of AC power supply, the change-over switch for AC/DC should be turned to DC position, with DC switch of power supply turned on. And then, turn on emergency ignition switch for igniting.
4. It is strictly prohibited to switch on ignition switch under the situation of ignition conductor and ignition fire rod are short circuit and open circuit.
5. After use, all the switches must be turned off with box cover closed and locked. Have the device placed at the dry place with environmental temperature being  $-15\sim 40^{\circ}\text{C}$  for storage.

## III. Charging

When ignition voltage is lower than 12V without outer power supply, it should be in time charged.

1. Connect with AC power supply of 220V/50Hz, turn on AC switch with charging switch followed turning on. Charging should be up to 3~5hours.
2. The igniter not using for a month over should be charged once (2~3hours) to avoid damaging storage battery and shortening service life.
3. If the voltage of the igniter is lowering up to 10V, the storage battery of the igniter should be sent to the professional unit for testing and charging or replacing it with full sealed storage battery of the same type.

# Tangshan Guanneng Machinery Equipment Co.Ltd



**Solids Control Specialist:**

**OIL&GAS DRILLING**---Solids Control Equipments

**HDD&UNDERGROUND**---Mud Recycling System

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**Mud Solids Control Specialist**

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- \*Oil Gas Drilling Mud Equipments
- \*HDD Mud Recycling System
- \*Slurry Separation And More



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