

# Shear Valve Type Mud Pulse Generator

High temperature, easy maintenance, high reliability choice

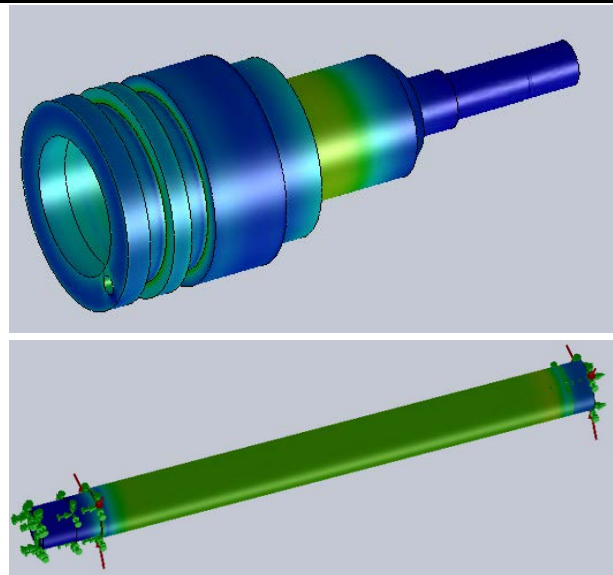
## Mud Pulse Generator Profile

CNPS shear valve mud pulse generator is a self-developed mud pulse generator suitable for mainstream MWD instruments in the market. It has the advantages of high temperature resistance, easy maintenance, high reliability, unique drive module and so on. The first-level maintenance cycle is 500h. It is a kind of cost-reducing and efficient-enhancing instrument choice.

As a part of the CNPS high temperature MWD system, the high temperature mud pulse generator is the transmitting component of downhole mud pulse signal. The mechanical structure is smart and reliable, the internal pressure balancing mechanism is piston type, the motor is the power source, and it is passed to the planetary gear reducer after the magnetic coupler. It has the characteristics of high load and not easy to jam. When the rotor is started, the driver has built-in capacitor energy storage function to assist the battery to drive the motor to rotate, effectively smooth out the peak current, improve the safety performance of the underground battery, and ensure the reliability of the underground work.

## Performance Index

Parameter	Index
Length	1210mm
Weight	10kg
Temperature	175°C
Pressure	25000psi
Working Voltage	DC 20-38V
Impact	1000g 0.5ms 1/2 sine
Vibration	20g RMS 30~500 Hz random
	25g 50~300Hz sine
Rated current	100mA(static) 1.5A(Peak value)



Finite element calculation of main pressure parts of pulser

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## Schematic Diagram of Mud Pulse Generator

