Fluid Loss Survey Instrument

TYPE: SL-ZNS-2A

Function

The survey instrument can measure fluid loss under certain pressure and in a period of time. It also can measure mud cake thickness.

Basic parameter

1. working pressure: 0.69Mpa
2. valid filtration area: 45.6±0.5cm3
3. mud cup volume: 240ml

Structure

The survey instrument is consist of backbone, pressure reducing value, air bleeder, mud cup, gas piping, measuring cylinder and air supply.

Usage term

1. Environmental temperature: 5~45°C
2. Relative humidity: ≤85%
3. Air supply: CO₂, N₂ or compressed air
4. Rated output pressure of air supply: ≥0.98Mpa
5. Pressure stability: pressure change lower than 0.05Mpa in half an hour

Operating rules

1. Preparation: to join the output terminal of air supply with the survey instrument input terminal.
2. Adjust pressure meter between 1-1.2Mpa, and examine all connections.
3. Combine filter cloth bed, Φ90×3.1 seal ring, filter cloth as a whole to be used.
4. Block the air-input hole of the mud cup. After the mud cup being filled with the mud, place the filter paper on the Φ90×3.1 seal ring which is placed well and set up the filter cloth components and make gland tight and adjust the air-input mouth of the mud cup. Then put the whole instrument in the trough of “T” to be tested.
5. Connect the 20ml measuring cylinder with liquid mouth and then put them on the bed.
Operating instruction

a) Clockwise rotation the pressure reducing value and pressure control ladder, to enter gas into low pressure area, adjust pressure to 0.69Mpa.
b) Screw the air bleeder slowly in anti-clockwise until pressure becomes lower. To record time from the first drop of filter, and circulate pressure control ladder, adjust pressure to 0.69Mpa.
c) After half an hour, to take off measuring cylinder, and watch numeric value of fluid loss, to shut in pressure control in anti-clockwise and cut off air supply.
d) Screw the gas release ladder in clockwise, and after gas has been released completely, the mud cup can be taken off.
e) Loosen gland, bring out filter cloth bed and filter paper, and wash relict mud adhered to filter paper, then measure mud cake thickness and record fluid loss.
f) Wash the mud cup, cup lid, filter cloth, seal ring and measuring cylinder. To dry them and put them in the original place.
g) After finishing the measurement, the surplus gas in pressure reducing valve and in air supply system should be released.

Protection and maintenance

a) After finishing the measurement, the survey instrument should be cleaned and put in dry place to avoid corrosion.
b) Striking strictly during transportation should be avoided.

Service

a) All elements of the survey instrument have been detected strictly, if any quality problem has been found, please to notice us as soon as possible.
b) We regard customers as our God, if you have any question about our products, please communicate with us.
Packing list

1. one Leader
2. one set of mud cup module
3. two measuring cylinders (20ml)
4. one set of air supply module
5. one box of quality filter paper(90)
6. one iris(Ø51×2)
7. two sealers(Ø7.2×3)
8. ten o-rings(Ø8×1.9)
9. ten o-rings(Ø11×1.9)
10. three o-rings(Ø90×3.1)
11. a certificate of quality and a operating manual