

# Gas Leaking Inspection Technology for Seal of Tubing & Casing

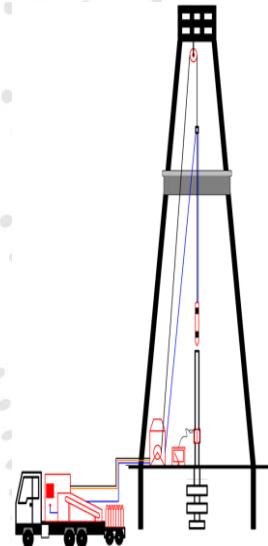
Gas leaking inspection is a technology using helium gas to test the tightness of connection threads of various pipes. It is the most advanced leak inspection method currently, and is the key approach to ensure the airtightness of string and gas pipeline. It effectively solves the worldwide problem of annular under-pressure production in gas wells. At present, this technology has become the standard procedure for gas storage and development of gas fields rich in H<sub>2</sub>S and CO<sub>2</sub>. It is safe, reliable, effective and wide range applicable.

## Technical Feature

- Airtight effectiveness at 120 MPa.
- More accurate to quantitatively describe the air tightness with the permeation rate of small molecular helium.
- Fast inspection speed of 1.5 min per point.
- More reliable to inspect both factory end and field connection end of the pipe coupling.

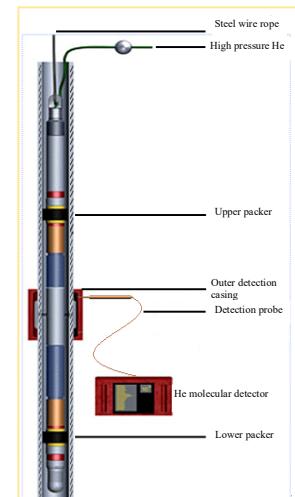
## Service Scope

- Suitable for Φ 60.3 mm ~ Φ 339.7 mm tubing & casing, pup joints, and columns with hermetic seal buckle, as well as Φ 60.3 mm ~ Φ 244.5 mm pipelines.
- Suitable for natural gas wells, gas injection wells, gas storage wells and shale gas wells.
- Suitable for drilling machines, workover rigs, offshore platforms and other working conditions.
- Suitable for oilfields in various environment such as deserts, mountains and oceans.



## Qualification

- Standard drafter of SY/T 6872-2012 and SY/T 7338-2016.
- 34 national patents and key intellectual property rights.
- The safety and reliability of processes and facilities have passed the assessment of DET NORSKE VERITAS (Report No. 80556000).
- Ultra-high pressure vessel that has passed the China Special Equipment Use Certification (CNT-130) with complete design and manufacturing certificates to ensure the intrinsic safety of facilities.
- The Internet + intelligent monitoring system can remotely monitor and detect pressure synchronous leak rate data and automatically store it, and can trace back the inspection quality.
- Annual service capacity of 600 wells with 23 devices and 12 professional teams.



## Service Performance



通奥检测

T-ALL INSPECTION

- Service Scope: Domestic customers such as CNPC, Sinopec and Shenhua in the basins including Dzungaria, Tarim, Sichuan, Songliao, Bohai bay and Ordos.
- Well Types: All kinds of gas wells.
- Over 1,700 wells inspection with near 500,000 buckle-times.
- Participate in gas leaking inspection of all onshore gas storage wells in China.

