
GAS LIFT



Gas Lift is a type of artificial lift system that typically utilizes a high-pressure gas source. Gas is injected down the annulus, through a gas lift valve into the tubing and produced up the tubing with the produced fluid. The injection gas aerates the fluid, decreasing the density of the fluid allowing it to flow to the surface. Gas Lift is the most natural form of artificial lift.

The primary purpose of a Gas Lift system is to reduce the pressure in the wellbore. Drawdown of this pressure allows the formation to feed into the wellbore which creates production for the well. There are two types of Gas Lift equipment: Conventional and Wireline Retrievable. If you have any questions do not hesitate to contact PIT or your local sales representative.

Our manufacturer is licensed in API Spec 19G1, API Spec 19G2 and has a Quality Management System that is registered in accordance with API Spec Q1 and ISO 9001:2008.

Applications

- Produce wells that will not flow naturally
- Maintain and increase production rates in flowing wells
- Help unload wells that will later flow naturally
- Back flow salt water disposal wells

Advantages

- Simple operation
- No restrictions in the tubing
- Very flexible in handling a wide range of well conditions
- Used in deviated wells
- Works efficiently with reservoir gas
- Low cost



Premier Integrated Technologies

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Conventional Valves



- Stainless steels and premium materials
- Tungsten carbide ball (standard)
- Replacement floating monel seat-tungsten carbide option available
- 1" and 1.5" OD
- Viscous fluid bellows protection
- Three-ply monel bellows
- Mechanical stop to prevent bellows over stroke
- Silver brazed bellow connections

Wireline Retrievable Valves



IPO

PPO

- Stainless steels and premium materials
- Three-ply monel bellows
- Mechanical stop to prevent bellows over stroke
- Viscous fluid bellows protection
- Tungsten carbide ball (standard)
- Replacement floating monel seat-tungsten carbide option available
- Integral Check Valve
- 1" and 1.5" OD
- Silver brazed bellow connections

Conventional Mandrels



Conventional Mandrels are used with 1" and 1.5" conventional IPO valves. The valves are mounted externally on the mandrel body. Each mandrel is put through a strict testing process to ensure it meets industry standard and is of the highest quality.

Wireline Retrievable valves can be installed and retrieved from the surface via wireline. If gas lift is not needed at the time of installation, dummy valves may be installed. These mandrels are primarily used to house gas lift valves, but can also be used to house chemical injection valves and circulation valves.

A positioning sleeve, made to accept all types of kick over tools, guides the tool into alignment with the valve pocket. Mandrels are manufactured from alloy steel to precise standards. They are uniformly heat treated, pressure tested internally and externally and drifted to API specifications before leaving the manufacturing

Side Pocket Mandrels



PSPO-IM-2.875

Evaluation, Design and Quote of your wells at No Charge!

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