



Orbit valve drilling rig

What is an orbit drilling valve?

ORBIT Drilling Valves are designed for holding pressure in one direction only. They must be installed so that the greater amount of pressure will be applied to the preferred pressure end. Damage to valve may result if not installed properly. LOCKING DEVICE to prevent the valve from opening.

What are the benefits of orbit valves?

ORBIT valves offer the following benefits: ORBIT rising stem ball valves incorporate a proven tilt-and-turn operation that eliminates seal rubbing, which is the primary cause of valve failure. The absence of seal rubbing during both opening and closing means easy, low-torque valve operation and long-term reliable performance.

What is orbit rising stem ball valve?

ORBIT rising stem ball valve's unique tilt-and-turn design reduces seal rubbing and delivers reliable performance. It is the proven technology for arduous process conditions, including high-temperature, critical isolation to molecular sieve switching services.

How does Orbit Valve work?

Every Orbit valve incorporates a proven tilt-then-turn operation that eliminates seat rubbing during both opening and closing. The result is easy, low-torque valve operation and long-term reliable performance. When the valve is closed, the core is mechanically wedged tightly against the seat, ensuring positive shutoff.

Why are orbit valves used in oil & gas fields?

Today, orbit valves remain the most widely used valve in oil and gas fields throughout the United States. They help ensure lines remain safe, reliable and operating efficiently under extreme pressures and severe weather conditions. Their patented, 2-way simple-turn and lift-pull design keeps the metal components from grinding against one another.

Who owns orbit valves?

Cameron acquired ORBIT in 1998. Today, ORBIT valves are used in over 88% of gas processing plants using molecular sieve systems in switching service, and 85% of LNG facilities worldwide. ORBIT valves are also in service in Exploration, Gathering, Production, Transportation and Process applications.

Rotating Control Devices Create a pressure-tight barrier against drilling hazards The critical component of any closed-loop drilling (CLD) system--and the first line of defense for your ...

PowerDrive Orbit rotary steerable system (RSS) with pad actuation steers the well and provides precise directional control for increased drilling efficiency.

Halliburton offers a series of rotating control devices suitable for a range of applications including managed



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pressure drilling and underbalanced drilling, ...

Industrial ball valves are accessible in various types. This guide is focused on the orbit ball valve, its components, pros, and cons.

Pressure control tools for any application When drilling scenarios demand precise flow control, Halliburton Rotating Control Devices (RCD) are essential. ...

Cameron designs and manufactures various types of API 6A valves suitable for the demanding environments of onshore and offshore drilling and production, including large-bore ...

ORBIT Valves and Actuators are designed to require a minimum amount of maintenance. Lubrication isn't necessary to effect a seal, only to reduce friction and wear on moving parts. ...

The manifold includes a durable drilling choke, purpose-built flow meter, and process measurement instrumentation. The Performance Drilling manifold is ...

With a long battery life, our valves provide hydraulic power to operate completion equipment by remote control, removing the need for dedicated personnel on location and saving time and ...

In oil and gas, orbit valves are a standard feature in upstream drilling locations and downstream processing refineries. These applications ...

Introduction Orbit valves are a specialized type of ball valve that utilize a unique tilt and turn mechanism to eliminate seal rubbing, a common cause of valve failure. This ...

In well suspension applications, the Orbit barrier valve provides two remotely operated downhole barriers that also provide full bore access to your lower completion. This application gives you ...

Manual Gate Valves suitable for well testing, high pressure drilling and production accompanied with sour gas or / and sand. These gate valves are designed, manufactured and tested in ...

All ORBIT Valves are equipped with an adjustable stem packing chamber which is required only if a stem leak should develop. This manual outlines the correct methods for proper installation ...

Cameron's Valves & Measurement group Six Sigma lean manufacturing philosophy and the standard 36 month warranty, assures that the design, materials and workmanship of all ORBIT ...

ORBIT valves Operating Principle Every ORBIT valve incorporates a proven tilt and turn operation that eliminates seal rubbing, which is the primary cause of ...



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The valve was run in the open position such that all required sand screen placement operations could be conducted normally. The ball valve could then be closed to ...

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ORBIT Valves Unique tilt-and-turn design for fast, low-torque operation and long-term, reliable performance in applications when zero leakage and frequent operation are demanded.

Our actuation and instrumentation services for Orbit valves deliver reliable, trouble-free on-off operation. More than 400 instrumentation systems are ...

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