

“Threading” Pexgol Pipes



Optimization of Water Systems in the Energy Industry.



Pluspetrol Argentina | 2023

• Working Conditions

Temperature: 20°C / 68°F
Pressure: 10 kg/cm²

• Pexgol Pipe

Pexgol 160 mm, class 15

• Application

Aqueduct

• Length

850 m / 2788 ft

The Challenge

Pluspetrol, an international company with extensive experience in oil and gas exploration and production, faced a significant problem with one of its water pipelines in Argentina. The existing carbon steel pipe, used to transport fresh water, showed evident signs of wear due to corrosion and blockages caused by scaling, compromising the efficiency and safety of the water distribution system.

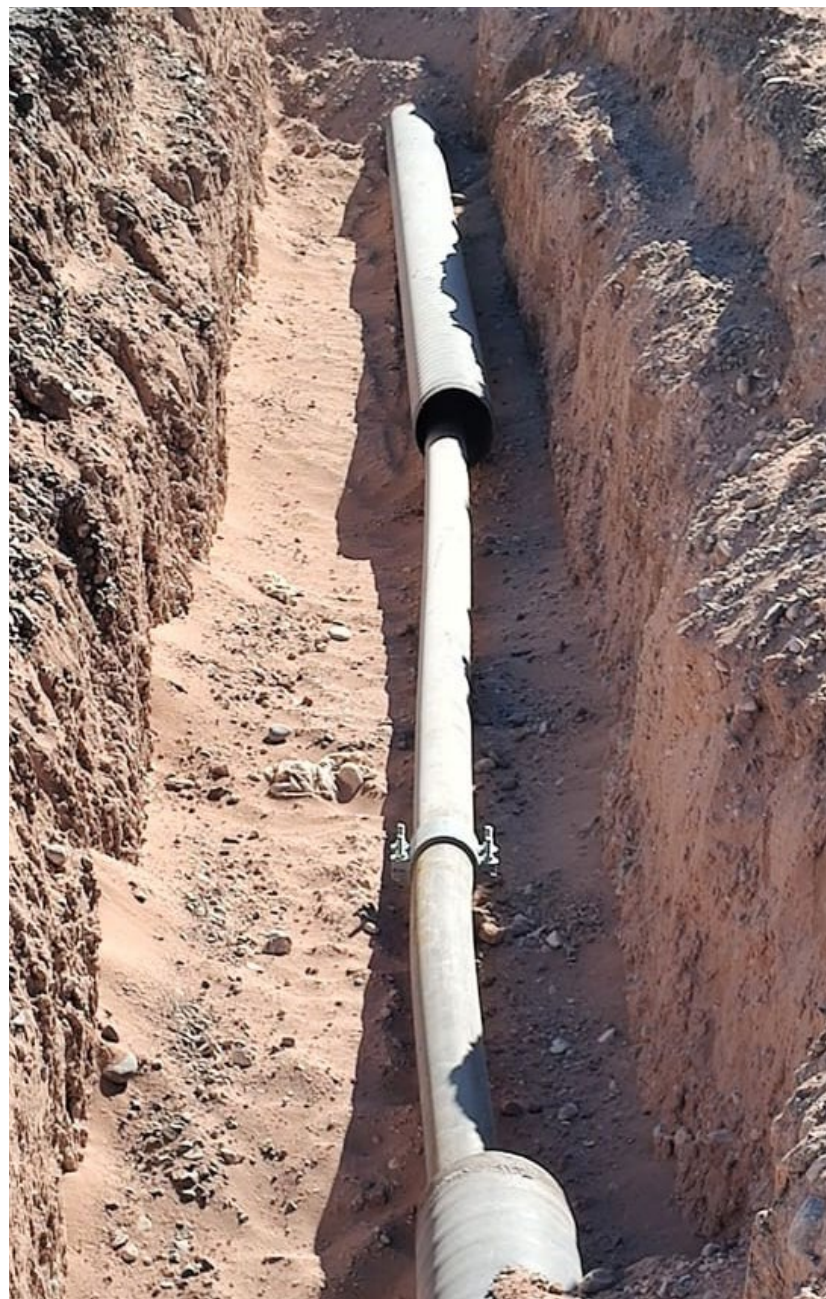
The Solution

To address these issues, Pluspetrol decided to replace the existing pipe with 160 mm, class 15 Pexgol pipe, extending over 850 meters. Pexgol was chosen due to its high resistance to corrosion and its ability to resist scaling, in addition to its lightness and ease of handling, which allow for quick transport and installation.

The installation of the new pipe was carried out over a period of two weeks. During this time, a specialized procedure was developed to integrate the Pexgol pipe within the existing steel structure every 220 meters. A specific tool was designed to advance and dismantle blockages caused by scaling, working in coordination with the municipality to ensure compliance with all necessary permits.

The implementation of the Pexgol piping system in Pluspetrol’s aqueduct offered multiple benefits. The rapid installation and flexibility of the material allowed for efficient integration without significantly disrupting daily operations. Pexgol pipe, known for its durability and corrosion resistance, promises a long lifespan and a notable reduction in maintenance costs.

Additionally, the use of connections such as the double mechanical connector and flanged coupling ensured a safe and effective installation, adapted to the technical demands of the project.



The Advantages of Pexgol Pipe Systems



High resistance to wear

Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.



Superb internal and external corrosion resistance

Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.



Excellent chemical and corrosion resistance

Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.



Long pipe sections

Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.



High temperature resistance

Working temperatures can range from -50°C / -58°F up to 110°C / 230°F .



Creep and impact resistance

Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

For more information please visit:
pexgol.com

