

TAGRAS Oilfield Services Holding



# MEST<sup>TM</sup>

Mechanical  
Electroinsulating  
Connection  
of Pipelines



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Mechanical electroinsulating connection of pipelines (MEST™) is designed for electrical isolation of pipelines from other underground structures. The purpose of electrical isolation is elimination or limitation of stray currents in the pipeline induced by AC or DC earthing electrodes in a high-voltage power transmission lines and suppression of protective currents scattering during electrochemical corrosion protection, particularly sacrificial protection.

**Versions:**

1. Mechanical electroinsulating connections for plastic-to-metal pipelines;
2. Mechanical electroinsulating connections for pipelines of other design (pipes with external or internal polymer coating and steel pipes)

**Benefits of connections implementation:**

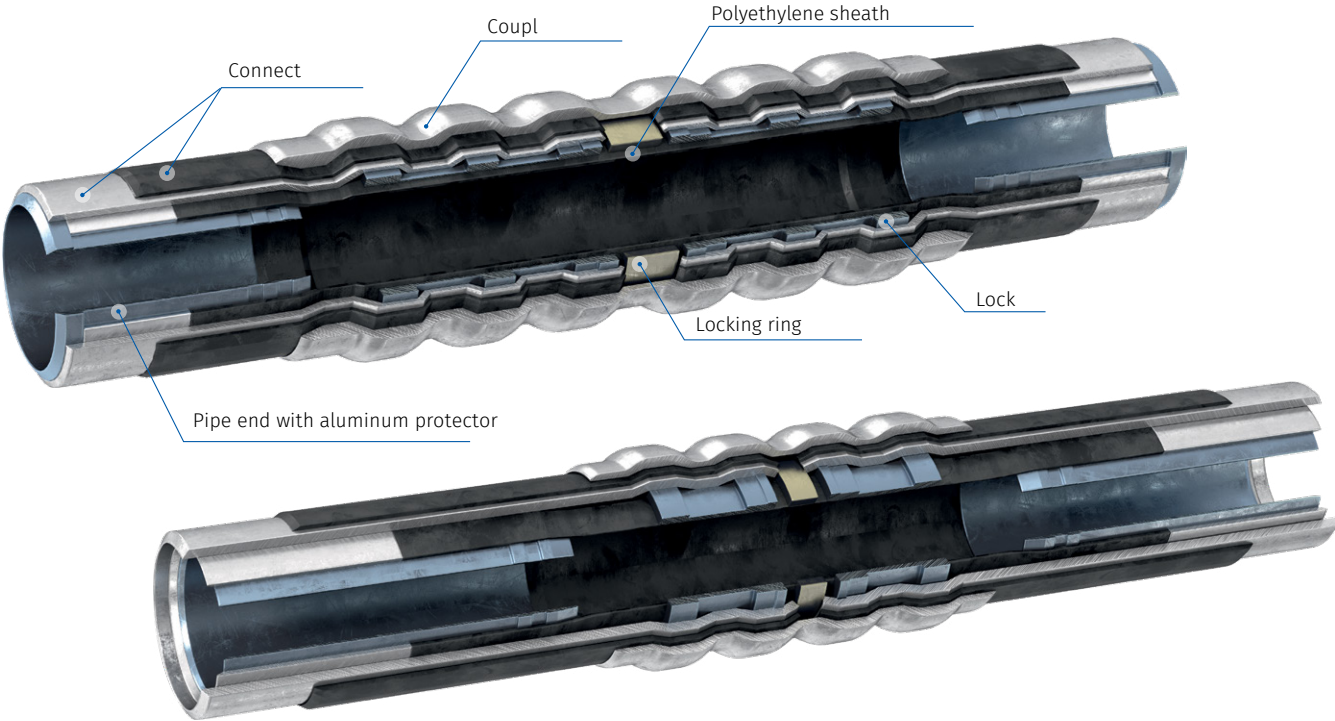
- ✓ No impact of currents induced in a common pipeline on operation of precise and expensive measuring devices;
- ✓ Elimination of discharges during pipelines operation in explosion-hazardous premises
- ✓ Elimination of protective current dissipation of electrochemical protection

**Advantages:**

1. Simple installation without special devices;
2. Operation reliability due to simple design;
3. Fast payback due to cost reduction for repair or replacement of expensive measuring equipment.
4. Does not require servicing;
5. Can be installed at any point of a pipeline;
6. The service life is at least 15 years.

**Head preparation options:**

1. For a welded joint;
2. For a welded joint with tips made of corrosion-resistant steel.



Parameters determining the mechanical reliability of Mechanical electroinsulating connection of pipelines in axial direction

