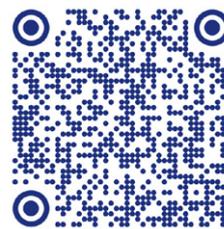


TAGRAS Oilfield Services Holding



Internal and external anticorrosive coating of pipeline parts and assemblies

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The company sells pipe assemblies and parts with internal and external corrosion resistant protective coating on the basis of paint and powder polymer compounds.

Assemblies are sections of a pipeline or other facility under construction, that consist of assembly units combinations: pipeline parts (T-pipes, branches, transitions, bottoms, end caps, transition rings) and adapters.

Pipeline parts are fittings used for various purposes in pipeline construction. They are used for twisting, bending, tilting, branching, changing the diameter of the pipe, as well as during temporary non-use of the pipeline.

Purpose

Designed for capital construction and overhaul of process and field pipelines (oil and gas pipelines, low-pressure water supply lines above-ground, underground and underwater laying). The temperature of the transported medium is up to +302 °F.

Diameters range from 2.24 to 20.87 in

Advantages

1. The labor intensity of producing pipeline manifolds is reduced by an average of 25%.
2. Organizational losses are reduced.
3. Reduced waste and loss of materials.
4. Reduced storage costs at the installation site.
5. There is a possibility of delivering ready-made assemblies as per schedule, for the need of installing a particular facility.
6. Pipeline assemblies are produced as per Customer's sketches;
7. Packaged and delivered in accordance with the scheme agreed with the Customer:
 - in boxes;
 - on pallets;
 - loose-loaded;
8. 100% visual inspection and radiographic tests of the welded joint.

Coating specifications

Internal coating of pipeline parts and assemblies is performed as follows:

- double layer consisting of an undercoat based on epoxy or epoxy-phenol primer and top coat based on epoxy powder paints;
- single-layer based on liquid epoxy, polyurethane paints.

Coating materials are selected based on the operating conditions of pipelines and transported fluids.

Coating properties

- resistant to oil, fuels, industrial water and sewage;
- resistant to the damaging effects of stray currents;
- high degree of adhesion of the coating to the steel surface;
- high mechanical strength.

Mounting methods

- pipeline parts and assemblies with an internal protective anti-corrosion coating are installed on the facility;
- construction works performed in extreme conditions are

simplified as much as possible for pipe fitters during the supply of pipeline manifolds of large-sized assemblies- it allows to complete 50-70% of the volume of pipe manifold welding at the factory;

- the time for construction and mounting operations is reduced on average by 25%;
- reduced material storage costs at the installation site;
- preparation of the ends can be done for welding or flange connection.

Additional options

- As per customer's request, to protect against external corrosion, the following can be combined:
 - polymer coating based on powder materials;
 - polymer coating based on liquid materials;
 - polymer coating based on polyethylene or heat-shrinkable materials.
- To protect the welded joint and the weld-affected zone, it can be combined with a metalized coating or an end cap made of corrosion-resistant steel.

Head preparation types

- for welded joint complete with protective sleeves;
- for welded joint with installed end caps made of corrosion-resistant steel;
- for welded joint with an application of metalized coatings;
- for flange connections.

Coating materials are selected based on the pipeline operation characteristics, and shall comply with the pipeline designers and the Customer.

Materials differ in chemical and temperature resistance, they are approved for use in applicable environments and have the conclusions of laboratory tests.

Features of workshop manufacturing of pipe assemblies

- Transfer up to 70% of all labor costs from the installation site to the workshop.
- Mechanizing the majority of the manufacturing operations.
- The use of high-performance machines and mechanisms, assembling-welding devices.
- Semiautomated welding methods.
- The use of new design solutions in the manifold design