

# ALFA PIPELINE PRODUCTS LLC

Isolation Joints | Anchor Flanges | SP.BL  
Pig Launcher Receivers | Pressure Vessels  
Valves Repair | Cladding | Thermowell | Drip Ring



Excellence in the Petrochemical Industry

## OUR MISSION



Our mission is to provide reliable services and to help ensure that our products meet the standards and requirements of international codes and standards for quality control, product safety, and materials physical integrity.

APP's mechanical testing lab is fully equipped to perform most standard mechanical testing ( tensile test, hardness test, charpy test and chemical analysis).

## ABOUT US



**ALFA Pipeline Products** is a leading manufacturer of high pressure monolithic isolation joints and pipeline equipments for the oil and gas industry. Our products are used and valued by the major engineering firms and contractors worldwide.

**ALFA Pipeline Products** was one of the first monolithic isolation joints manufacturers in the world to develop and design the double and triple seal isolation joints. In the 90s the seals design resilience was improved upon continuously, and for decades now, has remained unmatched in safety and reliability when performing under extreme working conditions. We are at the forefront of technology and innovation for products serving the oil and gas industry.

**ALFA Pipeline Products** has now established its manufacturing plants in Muscat, Oman, to better serve our customer's interest. Our very first priority is to uproot fatal delays which often occur when your orders are placed overseas in remote countries. Statistically, six out of ten overseas procurements run late, and go viral financially affecting seriously your ECP turn-key shutdowns timelines.

**ALFA Pipeline Products** is an independent privately owned company, and has no affiliation or any kind of association with other companies.

A registered Company ISO 9001: 2015 Quality Management System.

A registered Company ISO 45001: 2008 and ISO 14001:2015

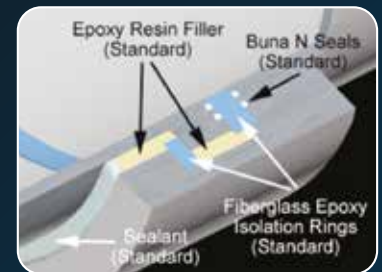


## MONOLITHIC ISOLATION JOINTS

Some pipelines deteriorate slowly, and in certain cases pipeline life has been targeted at 70 years or more. Other pipelines have been built and have exhausted their life cycle after 1 year of operation.

Metals corrode because we use them in environments where they are chemically unstable. Only copper and the precious metals (gold, silver, platinum etc..) are found in nature in their metallic state. All other metals are processed from minerals or ores into metals which are inherently unstable in their environments.

Corrosion is the major cause of reportable incidents in major oil and gas projects. Corrosion is also the major cause of pipeline failures.



Corrosion-related problems cost to the transmission pipeline industry billions of dollars, divided into the cost of failures, capital and operations and maintenance.

## MONOLITHIC ISOLATION JOINTS

Wherever you find oil and gas pipelines, you also find a wide array of reliable ALFA Pipeline Products isolation joints.

The correct location of monolithic isolation joints helps to reduce the overall cost of corrosion control systems and save millions of dollars by improving efficiency against corrosion problems.

### FOR ONSHORE PROJECTS

- To limit the spread and hence the cost of cathodic protection to those pipelines that need to be effectively and economically protected by the main cathodic protection system.
- To electrically "split-up" long pipelines into distinctive cathodic protection system.
- To isolate a pipeline and ensure that cathodic protection or stray electricity currents do not cause increased corrosion.
- To provide protection against earthing currents at domestic and industrial premises where the PME system is in use.

### FOR OFFSHORE PROJECTS

- In riser pipes and offshore structures to isolate the pipeline cathodic protection system.
- At field "tie-ins".

### ELECTRIC FEATURES

Electric insulation resistance  $\geq 200 \text{ M}\Omega$

Dielectric strength 5 ~ 12 kV A.C 50 Hz.

## THERMOWELLS

Thermowells are used to provide isolation between a temperature sensor and the environment, liquid, gas or slurry. Thermowells protect temperature sensor and thermocouple, from the high pressure and corrosive media. They are also used to isolate the temperature sensors from the service line for repair or replacement.

### TYPES:

Thermowells are closed-end tubes that are available in three different designs:

- Straight type designs, which have the largest amount of surface area. They represent the most common thermowell design.
- Straight reduced tip shank thermowells, in comparison to straight type thermowells, provide smoother speeds around the barrel due to less surface area.
- Tapered and partial tapered shanks thermowells provide increased sensitivity and have the lowest surface area of all designs.



## BLEED RING / DRIP RING / VENT RING

A bleed ring, vent ring, or drip ring can provide a beneficial way of draining piping, taking samples, attaching instruments or even bleeding of a valve. They can also be used with a valve and/or blind flange, which allow you to reduce and dispose the pressure for your valve before you remove the flange.

Alfa Pipeline Products manufacture Bleed/Drip/Vent rings can come in any material or size, and are designed for connecting valves and instruments. Raised face, ring type joint (RTJ) dimensions and tolerances are manufactured meeting ASME/ANSI B16.5 and B16.20 and customer specifications. For ring joints (RJ), female oval ring grooves are standard, but male joints are available upon request. Alfa Pipeline Products Bleed/Drip/Vent Ring from 1/2" to 24", pressure Class 150/300/600/900/1500/2500, in different types of materials as follow:

- Carbon steel (ASTM 105, A516 Gr. 60/65/70, A350 LF2, A694 F60-65)
- Stainless steel (AISI 304, 316, 321, 347)
- Alloy steel (AISI Gr.1, Gr.5, Gr.9, Gr.91, Gr.11, Gr.22)
- Nickel alloys
- Duplex/Super duplex (F51, F53, F55)
- Incoloy (800, 800H, 800 HT, 825), Alloy 20
- Hastelloy (C22, C276)
- Cupronickel Cu-Ni
- Monel 400
- Inconel (600, 625)



We manufacture Bleed/Drip/Vent RJ and FF-RF (Class 150/300/600/900/1500/2500) with one hole 3/4" NPT or two holes 1/2" NPT to customer's requirements.



## PRESSURE VESSELS

### QUALITY COMES FIRST

Alfa Pipeline Products complies with its Quality System by continuously improving technical capabilities, shop floor work processes, material selection and use through effective and focused training.

Alfa Pipeline Products encourages to take positive action on feedback and suggestions from employees, customers and suppliers that enhance quality, increase productivity and provide an environmental or workplace benefit.

Alfa Pipeline Products supply pressure vessels in a range of materials from basic carbon steels, through to high tensile steels, stainless steels and exotic alloys.

We manufacture storage tanks and vessels to a wide range of pressure vessel standards.



A wealthy knowledge and experience of our qualified personnel help us producing pressure vessels to the highest standards required by the oil and gas sector we serve.

Alfa Pipeline Products is certified ASME "U" & "R" for Pressure vessel manufacturing

## PIG LAUNCHER RECEIVERS

The purpose of a pig launcher or receiver is to introduce or retrieve pigs, spheres or inspection tools for a pipeline.



Our ASME code facility in Muscat , Sultanate of Oman, offers quick deliveries, customized designs and superior technical support.

To complement our range of pigs and spheres, APP has the in-house engineering, manufacturing and testing capacity to produce pigs and spheres launching and receiving systems to meet specific project requirements.

Launchers and Receivers for onshore and offshore services are available. All units are designed and manufactured to meet internationally recognized pressure vessel design codes and standards including:

- NACE
- ASME VIII
- BS 5500
- ASME B31.3 – B31.4 – B31.8

Our capacity ranges from Ø 2" to Ø 48".

Rating ANSI 150# to 2500# and API.



In addition to the supply of newly manufactured pig launchers and receivers, Alfa Pipeline Products can supply a maintenance and refurbishment service to existing in service equipments.



## CLADDING AND WELD OVERLAY



Cladding is no stranger to the oil and gas industry. For years it has been one of the most widely used approaches to mitigate corrosion in subsea valves, tubulars, and other subsea components above the wellbore.

Though numerous cladding methods have evolved and swapped places as the industry favourite, all operate on the same basic principle of fusing corrosion resistant alloy to carbon steel.

Now that all the “easy oil” has been extracted, offshore operations will become more important to meet the world’s energy needs, and with that never-ceasing demand comes the need for cladding. The oil and gas sector demand has increasingly grown for clad products that are produced quickly, and most important, of extremely high quality. In this playing field, our sound experience plays a vital role.



Alfa Pipeline Products Cladding Division is equipped with fully automated system for weld cladding pipeline components and oil field equipments. We can handle cladding from Ø 2” to Ø 56” components. We have the right experience to provide cost effective solutions for the Oil & Gas Industries.



**As a company and as individuals, we take great pride in contributing our experience to the oil & gas community where we live in and work.**

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